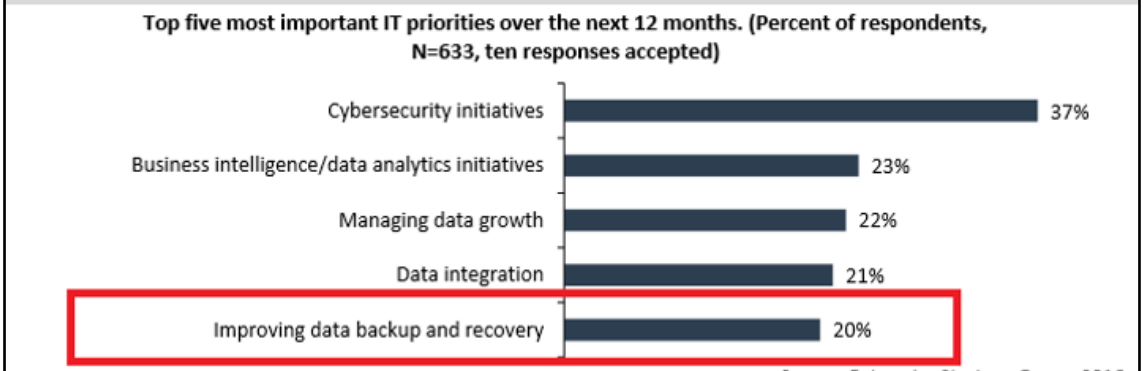
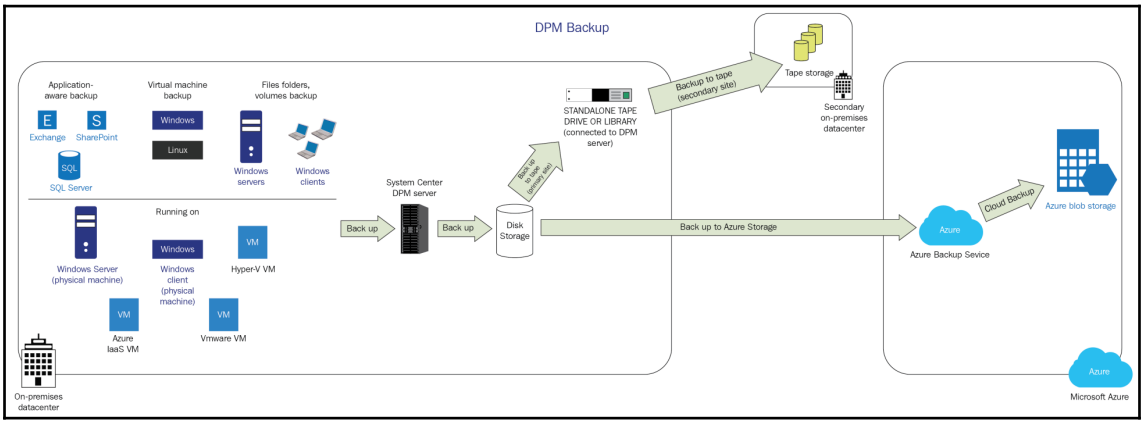
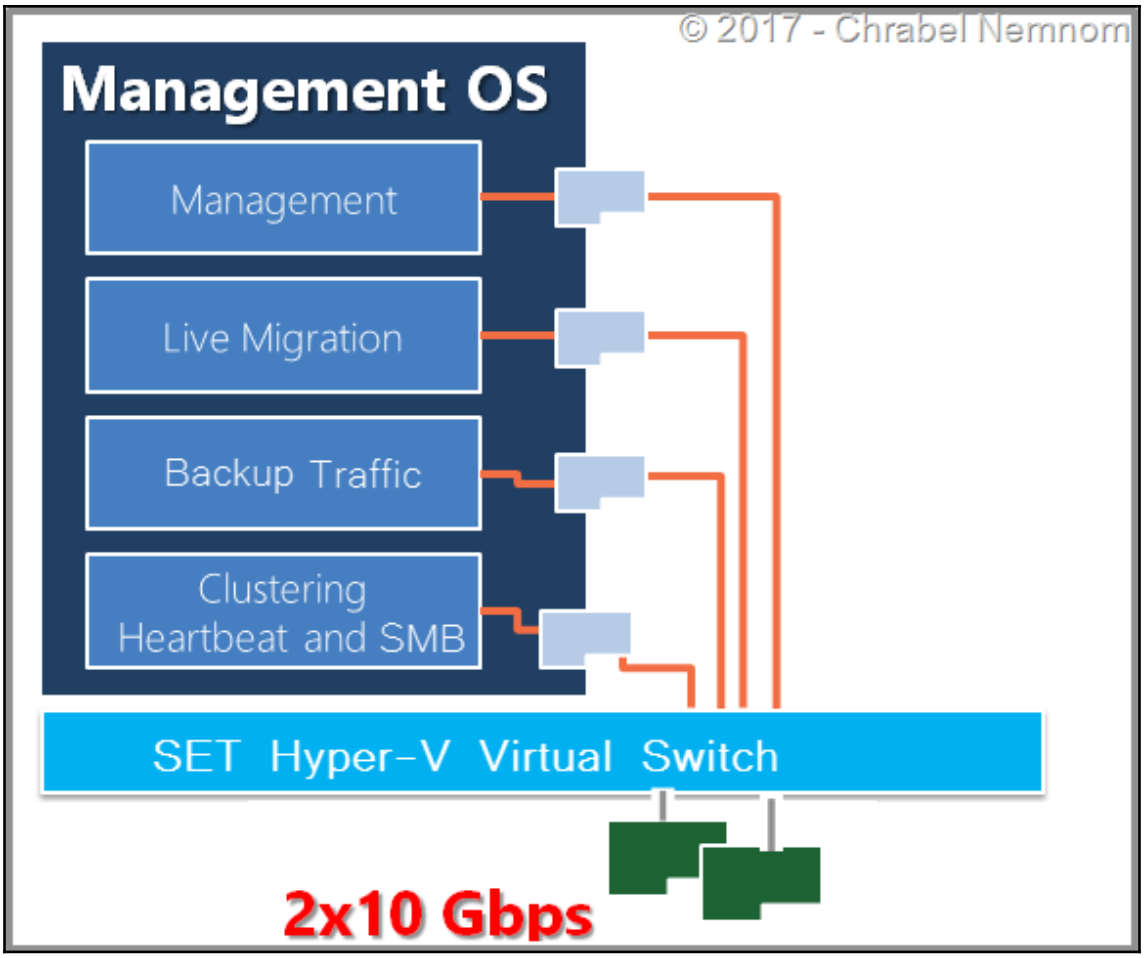
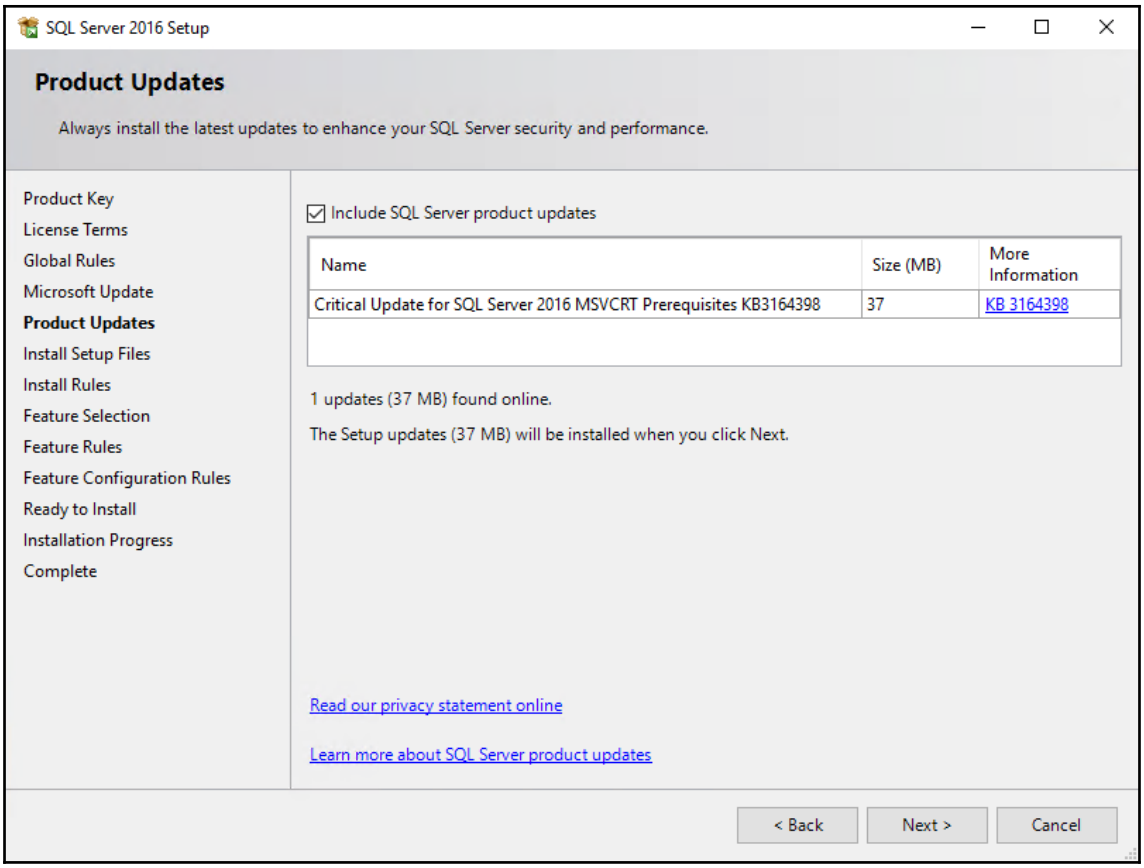
Chapter 1: Installing and Upgrading DPM

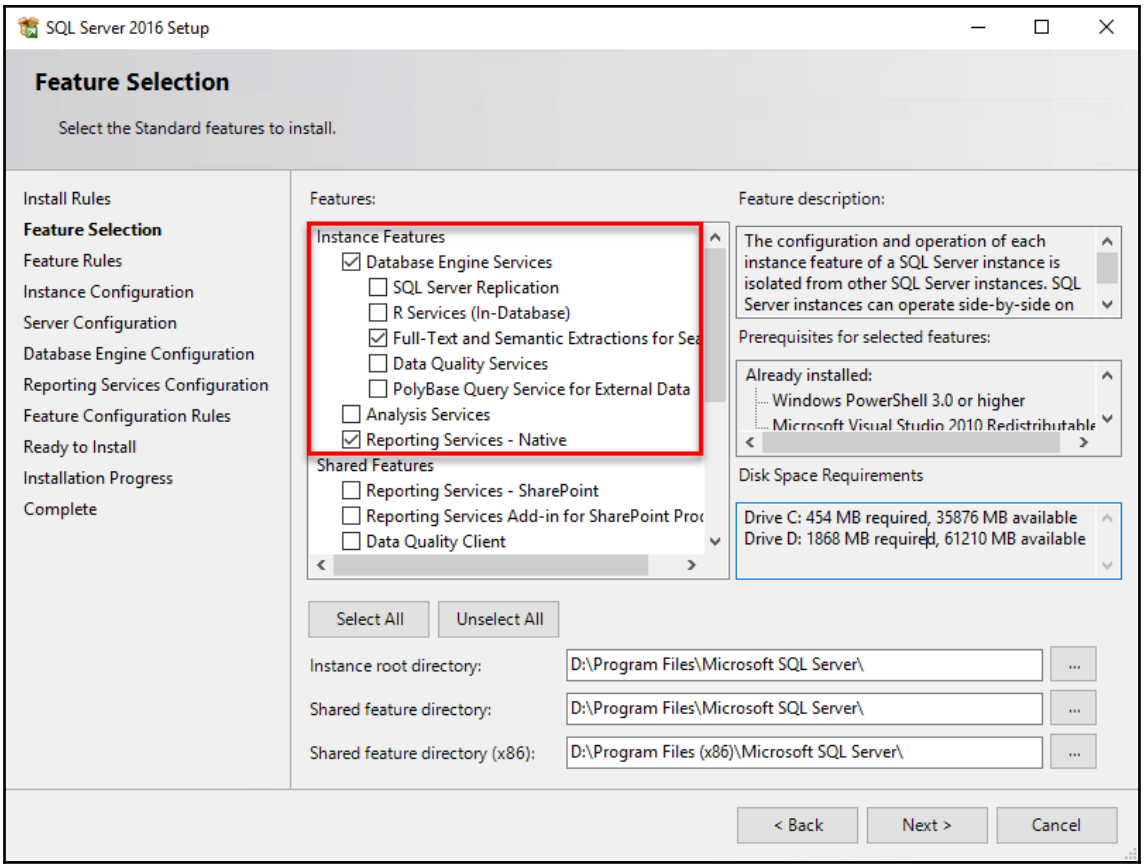
Figure 1. Top Five IT Priorities for 2016

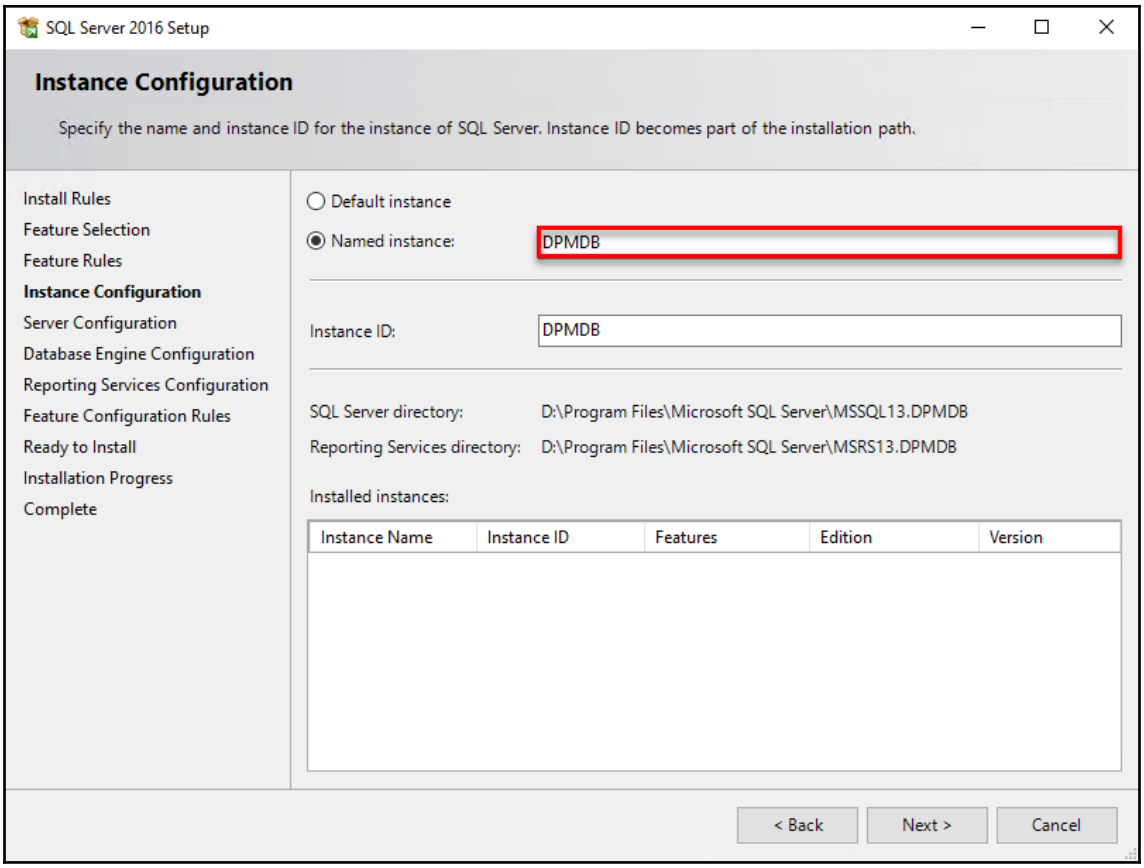


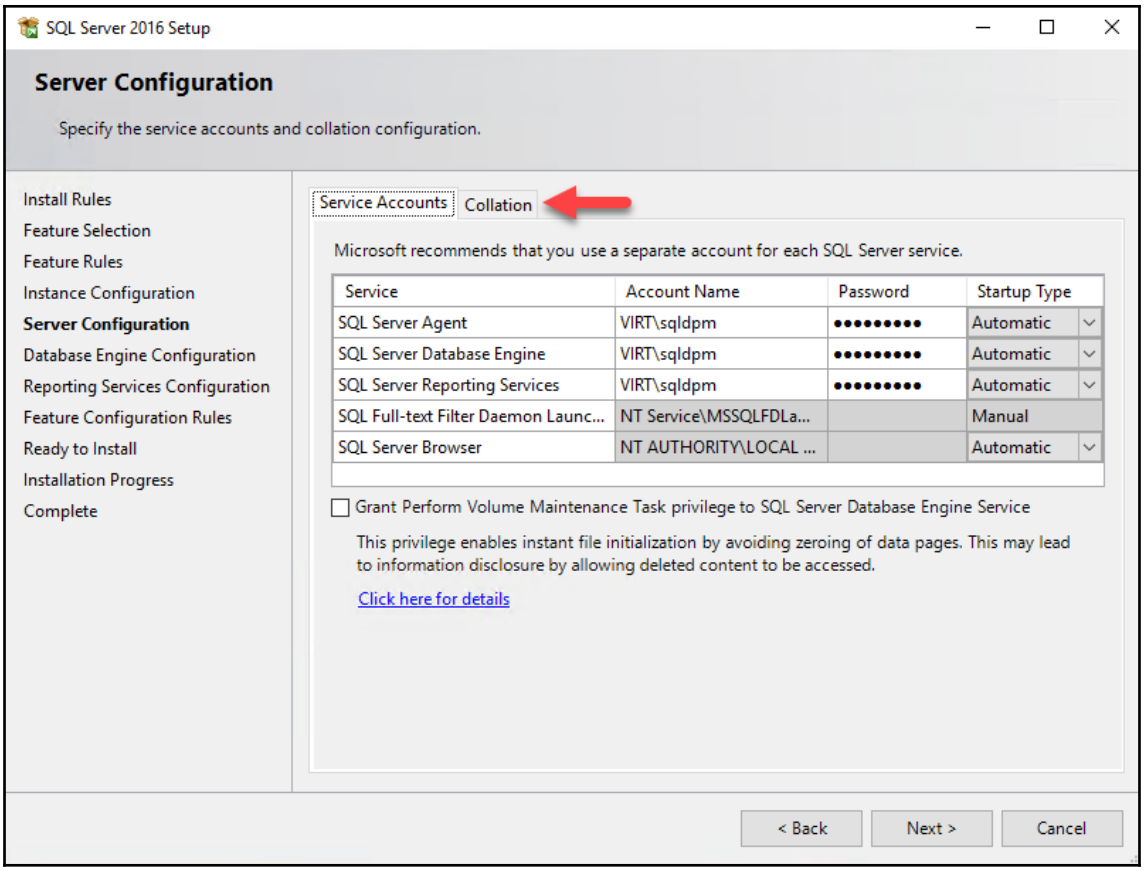


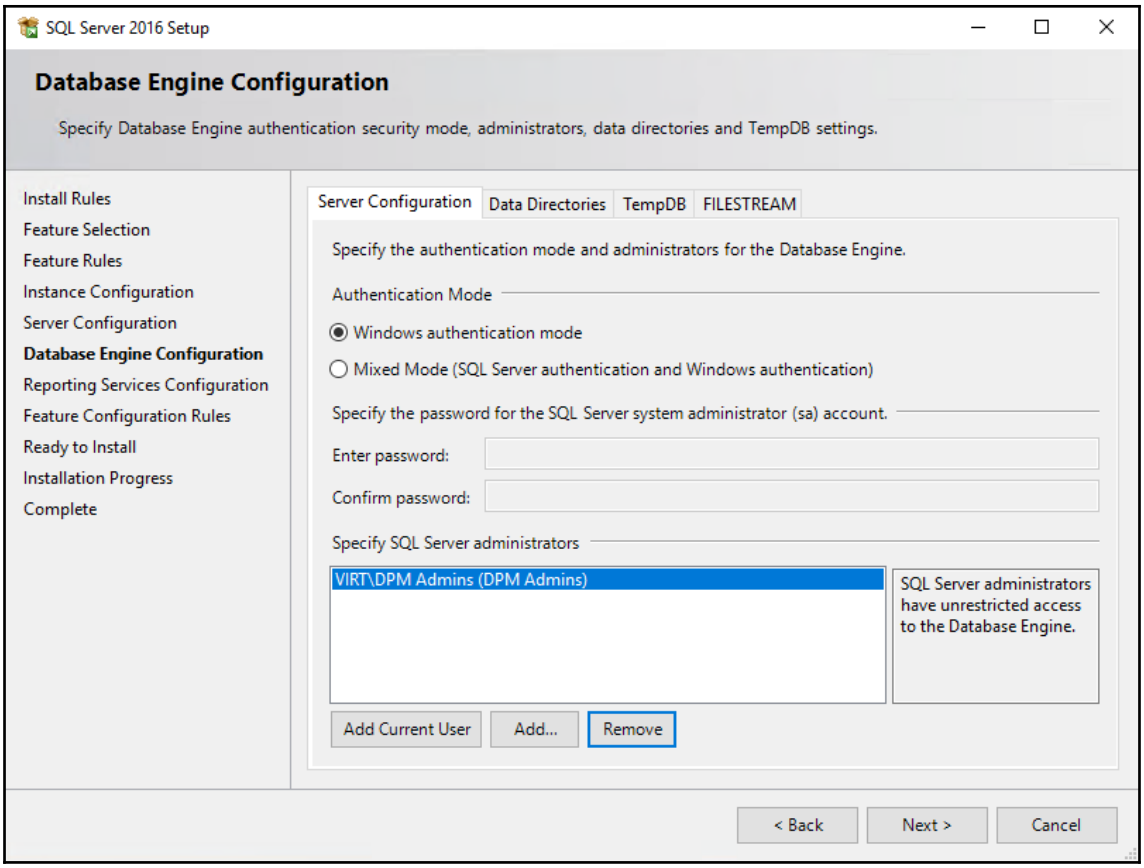

© 2017 - Chrabel Nemnom
Management OS
Management
Live Migration
Backup Traffic
Clustering
Heartbeat and SMB
SET Hyper-V Virtual Switch
2x10 Gbps

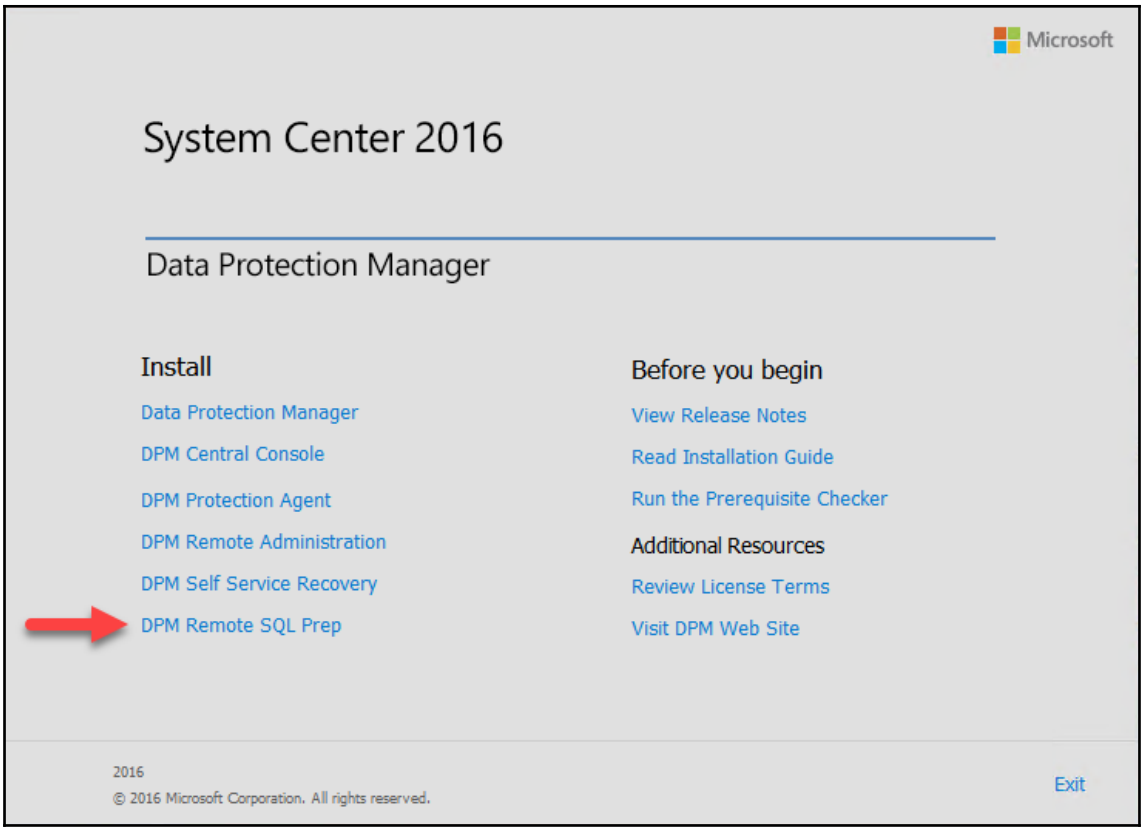

SQL Server 2016 Setup
Product Updates
Always install the latest updates to enhance your SQL Server security and performance.
Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Include SQL Server product updates
Name
Size (MB)
More Information
Critical Update for SQL Server 2016 MSVCRT Prerequisites KB3164398
37
KB 3164398
1 updates (37 MB) found online.
The Setup updates (37 MB) will be installed when you click Next.
Read our privacy statement online
Learn more about SQL Server product updates
< Back
Next >
Cancel

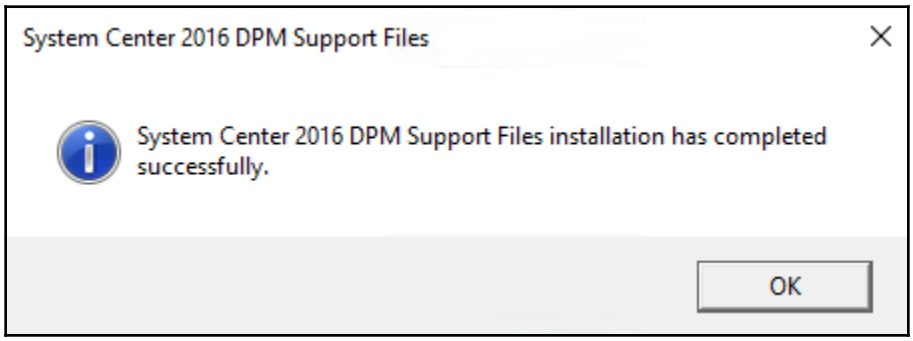

SQL Server 2016 Setup
Feature Selection
Select the Standard features to install.
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Features:
Instance Features
Database Engine Services
SQL Server Replication
R Services (In-Database)
Full-Text and Semantic Extractions for Sea
Data Quality Services
PolyBase Query Service for External Data
Analysis Services
Reporting Services - Native
Shared Features
Reporting Services - SharePoint
Reporting Services Add-in for SharePoint Proc
Data Quality Client
Feature description:
The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on
Prerequisites for selected features:
Already installed:
Windows PowerShell 3.0 or higher
Microsoft Visual Studio 2010 Redistributable
Disk Space Requirements
Drive C: 454 MB required, 35876 MB available
Drive D: 1868 MB required, 61210 MB available
Select All
Unselect All
Instance root directory:
D:\Program Files\Microsoft SQL Server\
Shared feature directory:
D:\Program Files\Microsoft SQL Server\
Shared feature directory (x86):
D:\Program Files (x86)\Microsoft SQL Server\
< Back
Next >
Cancel


SQL Server 2016 Setup
Instance Configuration
Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Default instance
Named instance:
DPMDB
Instance ID:
DPMDB
SQL Server directory:
D:\Program Files\Microsoft SQL Server\MSSQL13.DPMDB
Reporting Services directory:
D:\Program Files\Microsoft SQL Server\MSRS13.DPMDB
Installed instances:
Instance Name
Instance ID
Features
Edition
Version
< Back
Next >
Cancel

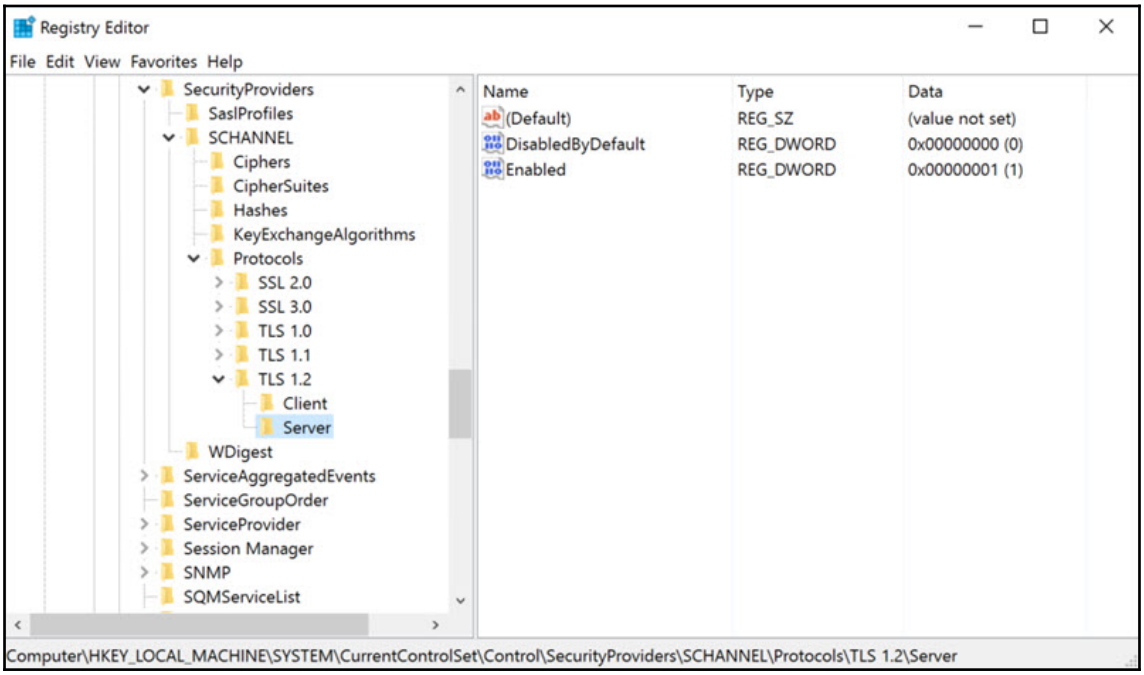

SQL Server 2016 Setup
Server Configuration
Specify the service accounts and collation configuration.
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Service Accounts
Collation
Microsoft recommends that you use a separate account for each SQL Server service.
Service
Account Name
Password
Startup Type
SQL Server Agent
VIRT\sqldpm
Automatic
SQL Server Database Engine
VIRT\sqldpm
Automatic
SQL Server Reporting Services
VIRT\sqldpm
Automatic
SQL Full-text Filter Daemon Launc...
NT Service\MSSQLFDLa...
Manual
SQL Server Browser
NT AUTHORITY\LOCAL ...
Automatic
Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service
This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.
Click here for details
< Back
Next >
Cancel

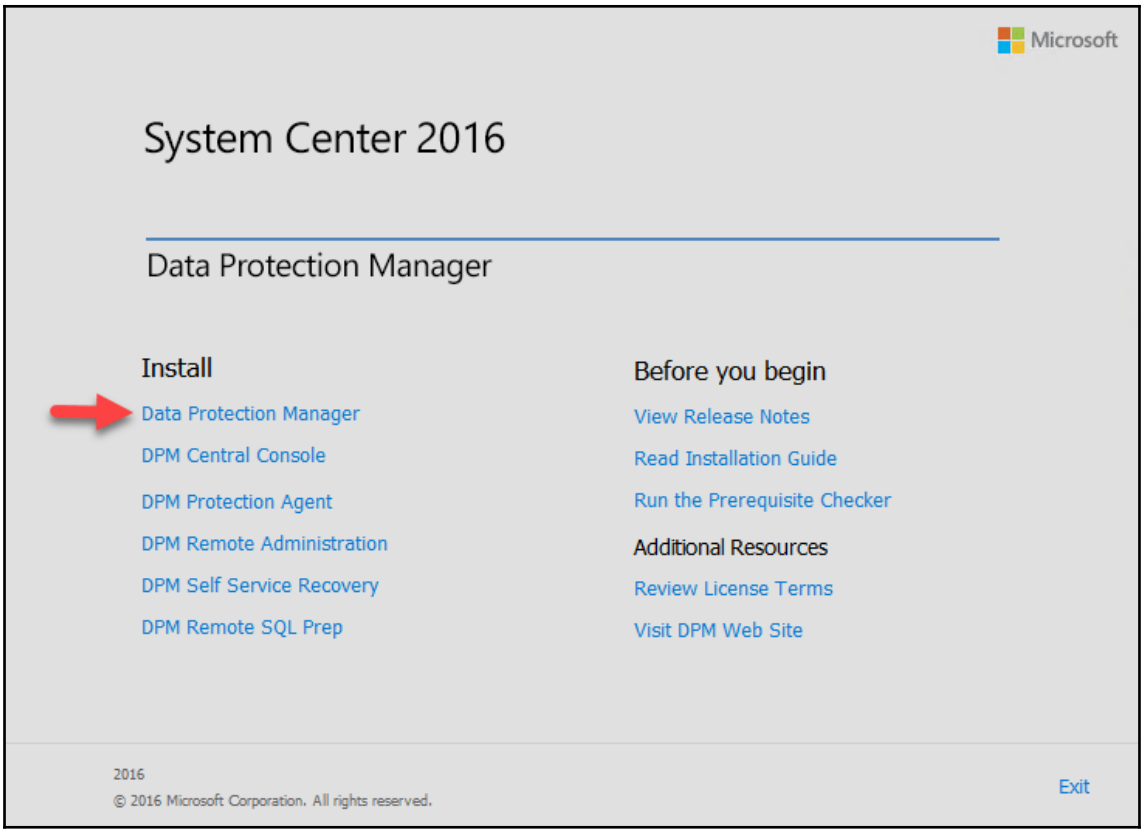

SQL Server 2016 Setup
Database Engine Configuration
Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Server Configuration
Data Directories
TempDB
FILESTREAM
Specify the authentication mode and administrators for the Database Engine.
Authentication Mode
Windows authentication mode
Mixed Mode (SQL Server authentication and Windows authentication)
Specify the password for the SQL Server system administrator (sa) account.
Enter password:
Confirm password:
Specify SQL Server administrators
VIRT\DPM Admins (DPM Admins)
SQL Server administrators have unrestricted access to the Database Engine.
Add Current User
Add...
Remove
< Back
Next >
Cancel

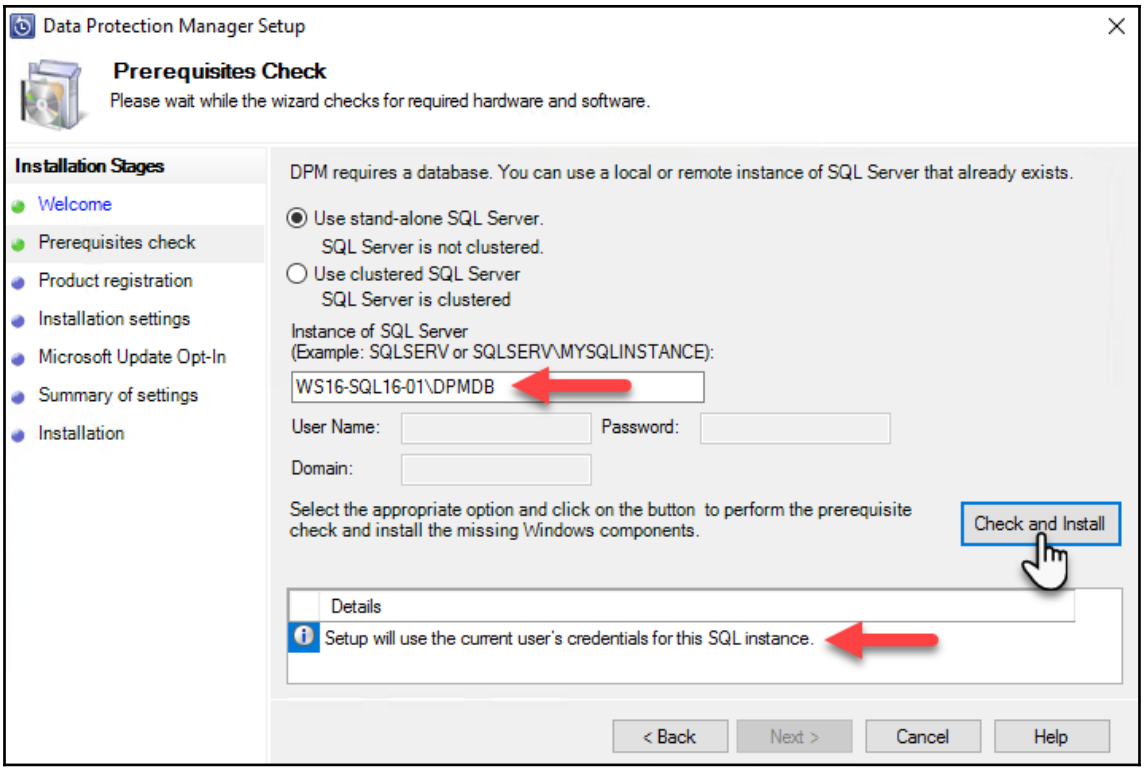

Microsoft
System Center 2016
Data Protection Manager
Install
Data Protection Manager
DPM Central Console
DPM Protection Agent
DPM Remote Administration
DPM Self Service Recovery
DPM Remote SQL Prep
Before you begin
View Release Notes
Read Installation Guide
Run the Prerequisite Checker
Additional Resources
Review License Terms
Visit DPM Web Site
2016
© 2016 Microsoft Corporation. All rights reserved.
Exit

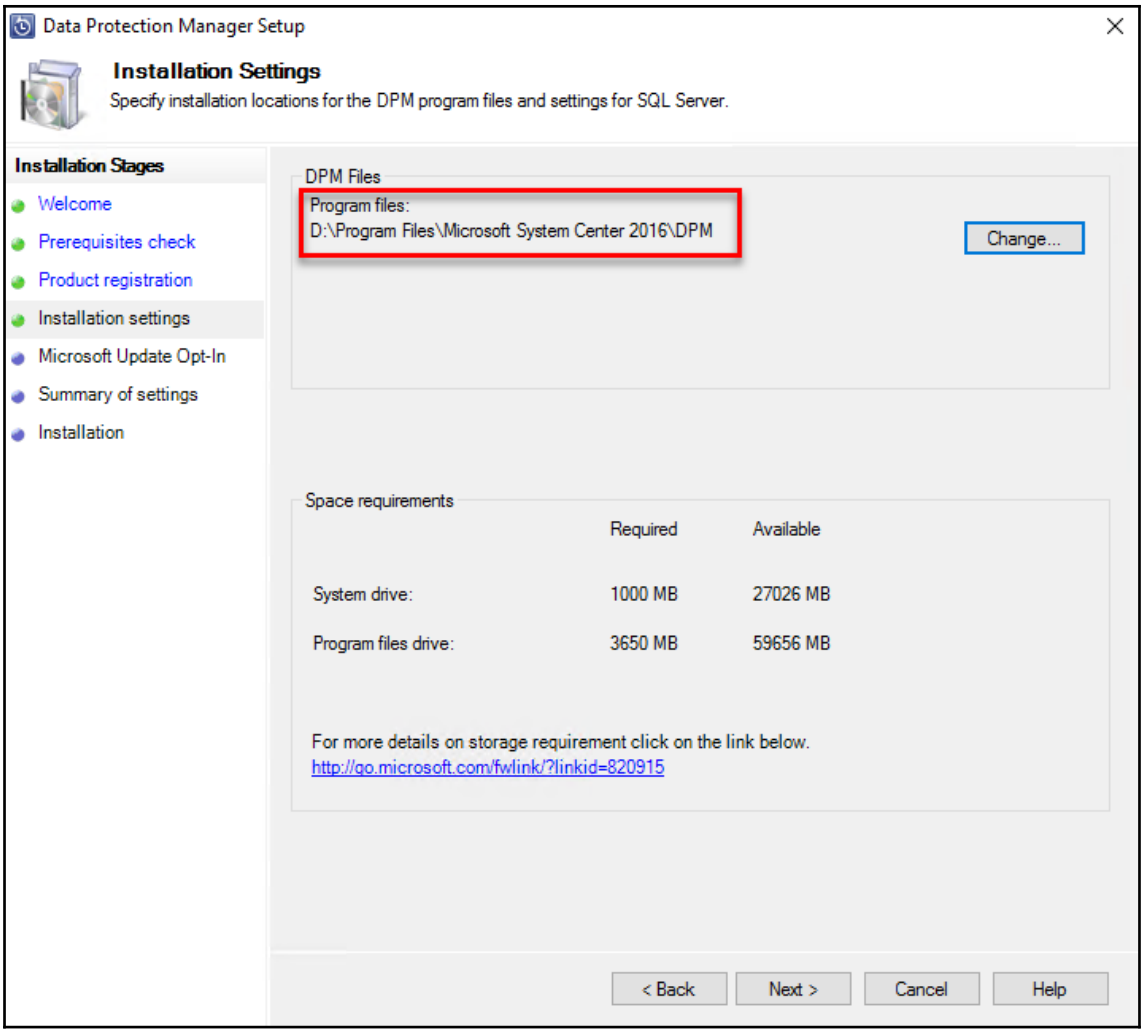

System Center 2016 DPM Support Files
System Center 2016 DPM Support Files installation has completed successfully.
OK

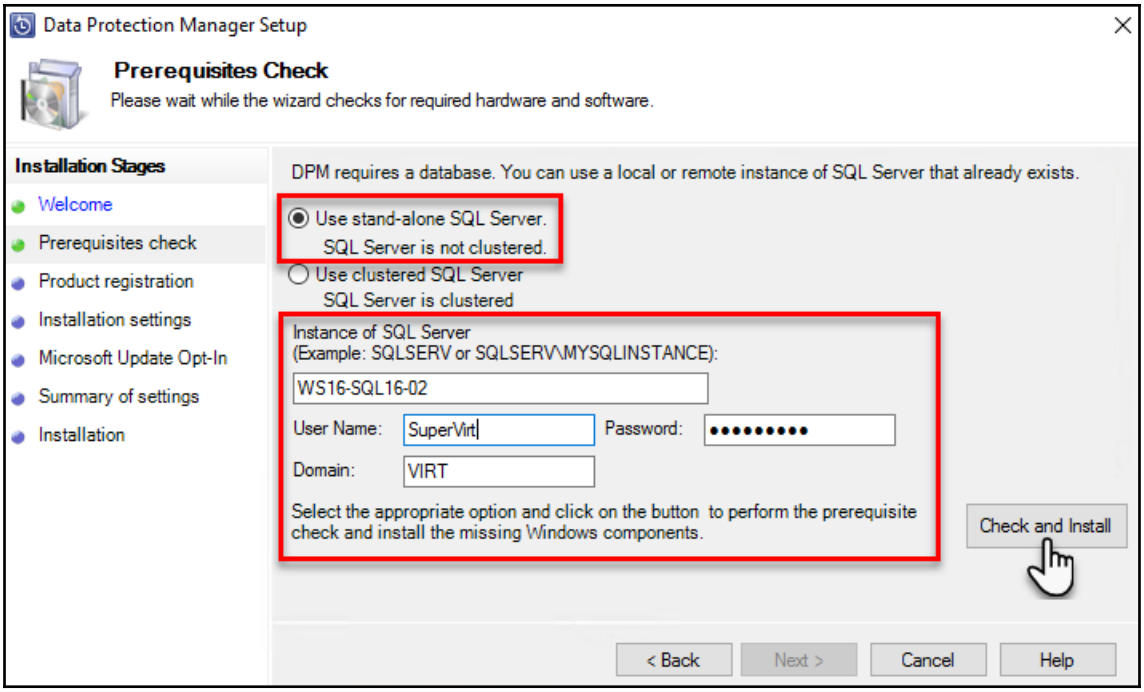
```
CharbelNemnom.com #> Get-WindowsFeature NET*

Display Name                                            Name                       Install State
------------                                            ----                       -------------
[X] .NET Framework 3.5 Features                         NET-Framework-Features         Installed
    [X] .NET Framework 3.5 (includes .NET 2.0 and 3.0)  NET-Framework-Core             Installed
    [ ] HTTP Activation                                 NET-HTTP-Activation            Available
    [ ] Non-HTTP Activation                             NET-Non-HTTP-Activ             Available
[X] .NET Framework 4.6 Features                         NET-Framework-45-Fea...        Installed
    [X] .NET Framework 4.6                              NET-Framework-45-Core          Installed
    [ ] ASP.NET 4.6                                     NET-Framework-45-ASPNET        Available
    [X] WCF Services                                    NET-WCF-Services45             Installed
        [ ] HTTP Activation                             NET-WCF-HTTP-Activat...        Available
        [ ] Message Queuing (MSMQ) Activation           NET-WCF-MSMQ-Activat...        Available
        [ ] Named Pipe Activation                       NET-WCF-Pipe-Activat...        Available
        [ ] TCP Activation                              NET-WCF-TCP-Activati...        Available
        [X] TCP Port Sharing                            NET-WCF-TCP-PortShar...        Installed
```

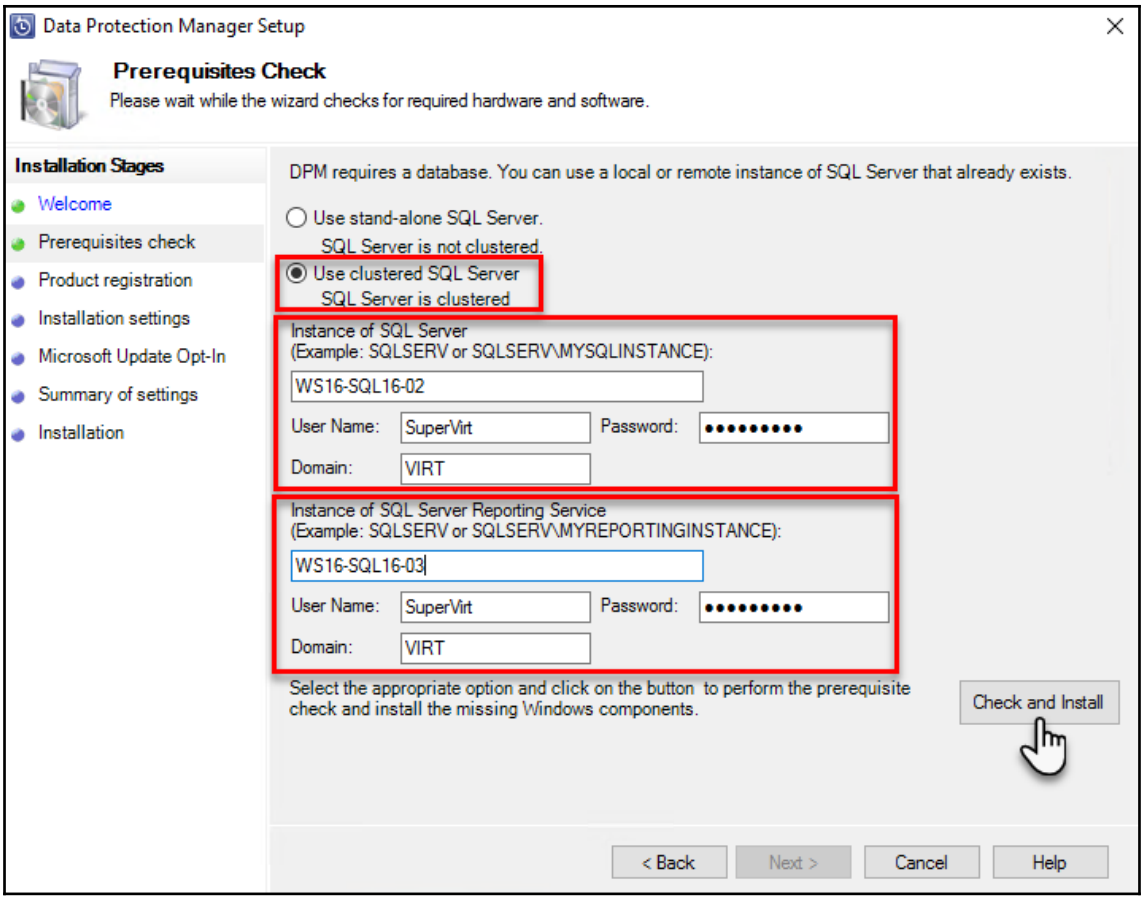


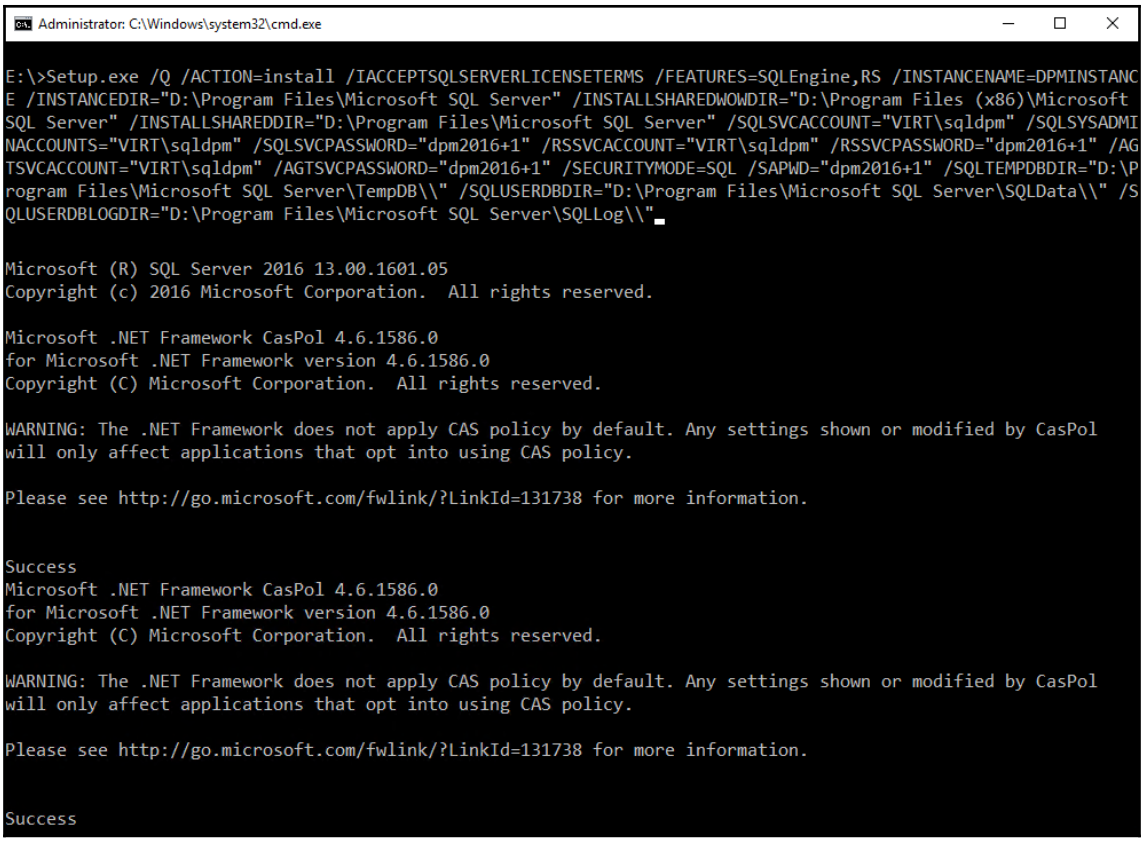

Microsoft
System Center 2016
Data Protection Manager
Install
Data Protection Manager
DPM Central Console
DPM Protection Agent
DPM Remote Administration
DPM Self Service Recovery
DPM Remote SQL Prep
Before you begin
View Release Notes
Read Installation Guide
Run the Prerequisite Checker
Additional Resources
Review License Terms
Visit DPM Web Site
2016
© 2016 Microsoft Corporation. All rights reserved.
Exit

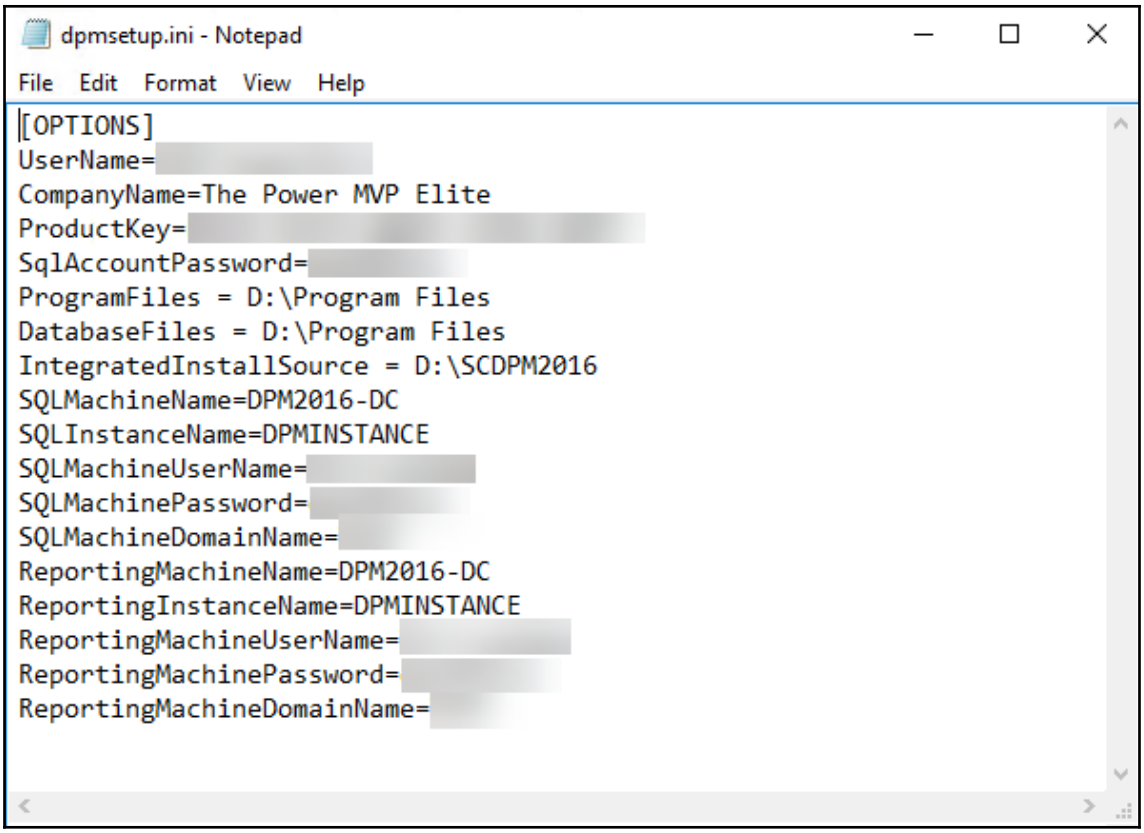

Data Protection Manager Setup
Prerequisites Check
Please wait while the wizard checks for required hardware and software.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Summary of settings
Installation
DPM requires a database. You can use a local or remote instance of SQL Server that already exists.
Use stand-alone SQL Server.
SQL Server is not clustered.
Use clustered SQL Server
SQL Server is clustered
Instance of SQL Server
(Example: SQLSERV or SQLSERV\MYSQLINSTANCE):
WS16-SQL16-01\DPMDB
User Name:
Password:
Domain:
Select the appropriate option and click on the button to perform the prerequisite check and install the missing Windows components.
Check and Install
Details
Setup will use the current user's credentials for this SQL instance.
< Back
Next >
Cancel
Help

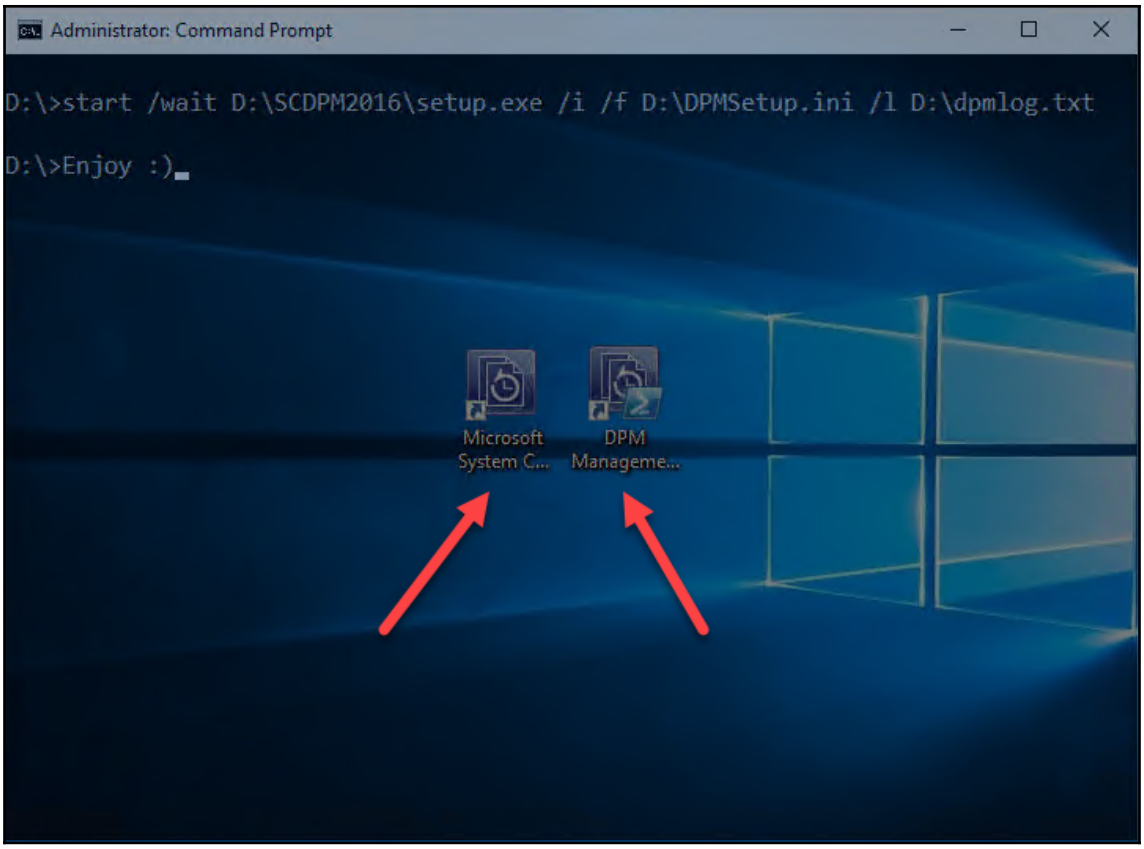

Data Protection Manager Setup
Installation Settings
Specify installation locations for the DPM program files and settings for SQL Server.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Summary of settings
Installation
DPM Files
Program files:
D:\Program Files\Microsoft System Center 2016\DPM
Change...
Space requirements
Required
Available
System drive:
1000 MB
27026 MB
Program files drive:
3650 MB
59656 MB
For more details on storage requirement click on the link below.
http://go.microsoft.com/fwlink/?linkid=820915
< Back
Next >
Cancel
Help

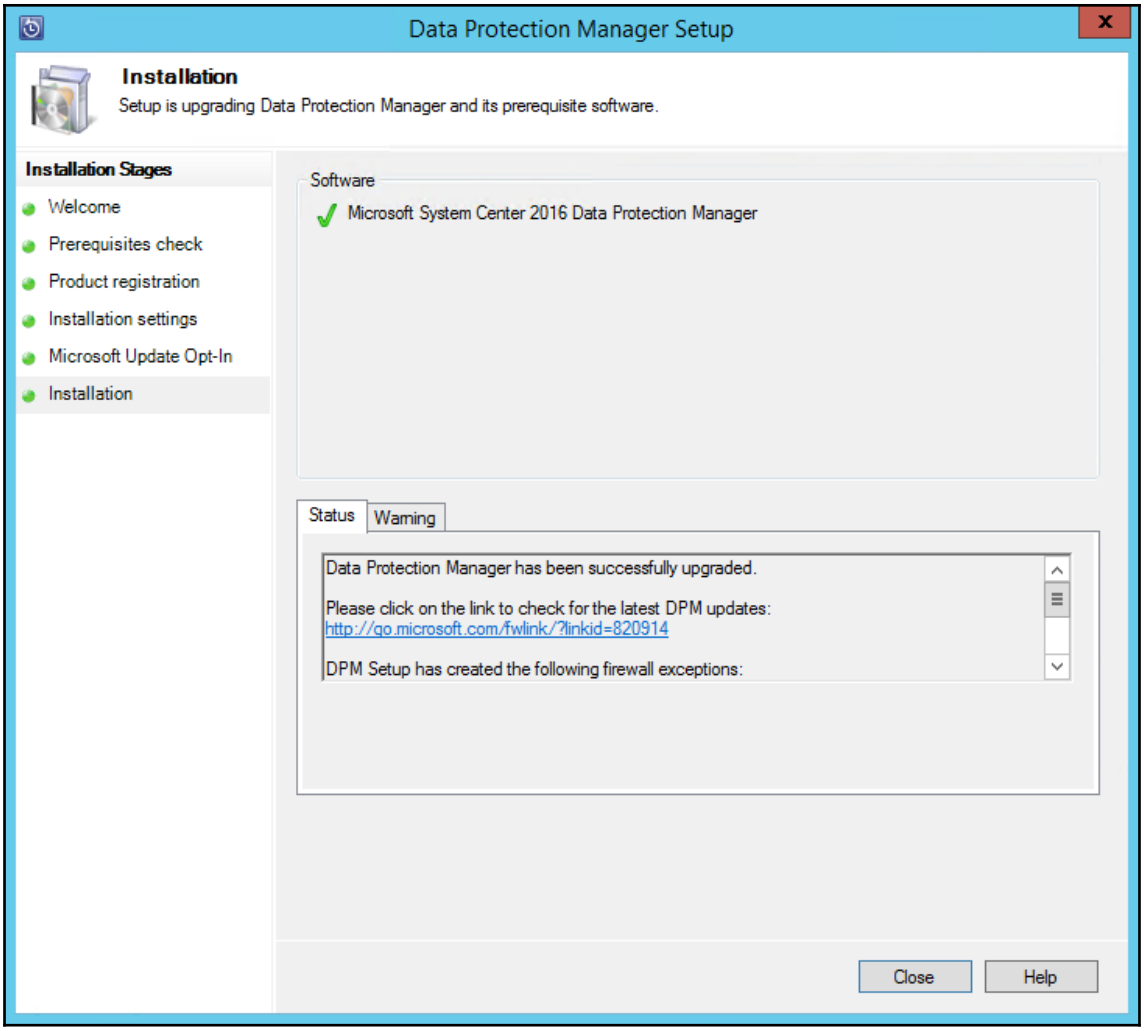

Data Protection Manager Setup
Prerequisites Check
Please wait while the wizard checks for required hardware and software.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Summary of settings
Installation
DPM requires a database. You can use a local or remote instance of SQL Server that already exists.
Use stand-alone SQL Server.
SQL Server is not clustered.
Use clustered SQL Server
SQL Server is clustered
Instance of SQL Server
(Example: SQLSERV or SQLSERV\MYSQLINSTANCE):
WS16-SQL16-02
User Name:
SuperVirt
Password:
Domain:
VIRT
Select the appropriate option and click on the button to perform the prerequisite check and install the missing Windows components.
Check and Install
< Back
Next >
Cancel
Help

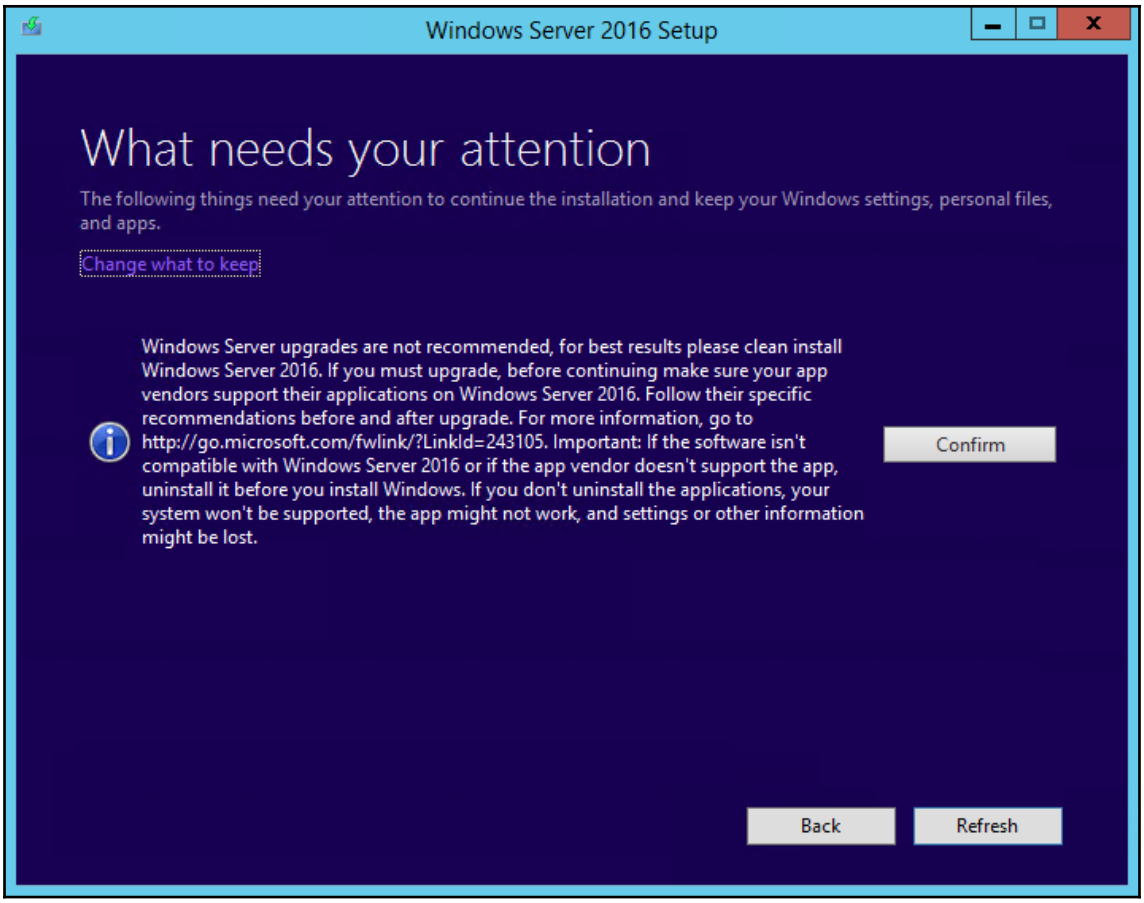

Data Protection Manager Setup
Prerequisites Check
Please wait while the wizard checks for required hardware and software.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Summary of settings
Installation
DPM requires a database. You can use a local or remote instance of SQL Server that already exists.
Use stand-alone SQL Server.
SQL Server is not clustered.
Use clustered SQL Server
SQL Server is clustered
Instance of SQL Server
(Example: SQLSERV or SQLSERV\MYSQLINSTANCE):
WS16-SQL16-02
User Name:
SuperVirt
Password:
Domain:
VIRT
Instance of SQL Server Reporting Service
(Example: SQLSERV or SQLSERV\MYREPORTINGINSTANCE):
WS16-SQL16-03
User Name:
SuperVirt
Password:
Domain:
VIRT
Select the appropriate option and click on the button to perform the prerequisite check and install the missing Windows components.
Check and Install
< Back
Next >
Cancel
Help

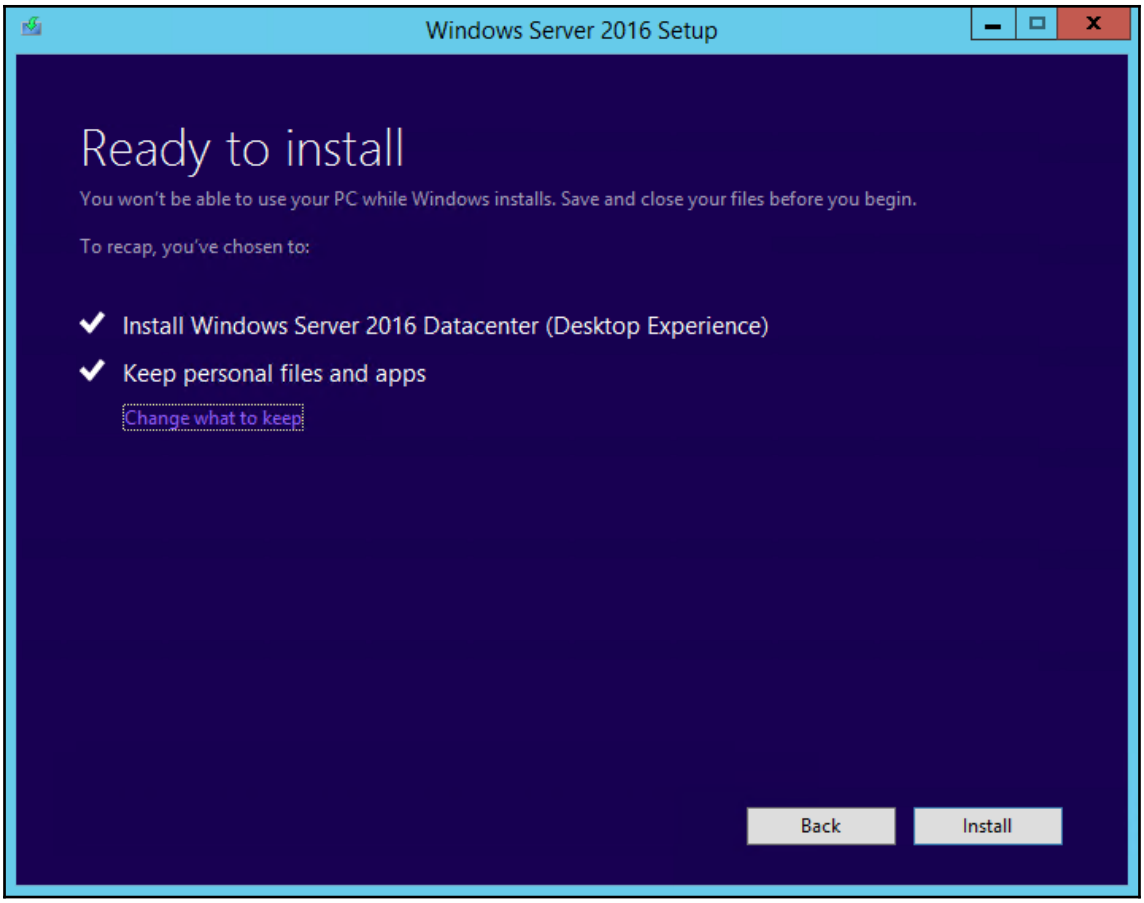

Administrator: C:\Windows\system32\cmd.exe
E:\>Setup.exe /Q /ACTION=install /IACCEPTSQLSERVERLICENSETERMS /FEATURES=SQLEngine,RS /INSTANCENAME=DPMINSTANCE /INSTANCEDIR="D:\Program Files\Microsoft SQL Server" /INSTALLSHAREDWOWDIR="D:\Program Files (x86)\Microsoft SQL Server" /INSTALLSHAREDDIR="D:\Program Files\Microsoft SQL Server" /SQLSVCACCOUNT="VIRT\sqldpm" /SQLSYSADMINACCOUNTS="VIRT\sqldpm" /SQLSVCPASSWORD="dpm2016+1" /RSSVCACCOUNT="VIRT\sqldpm" /RSSVCPASSWORD="dpm2016+1" /AGTSVCACCOUNT="VIRT\sqldpm" /AGTSVCPASSWORD="dpm2016+1" /SECURITYMODE=SQL /SAPWD="dpm2016+1" /SQLTEMPDBDIR="D:\Program Files\Microsoft SQL Server\TempDB\\" /SQLUSERDBDIR="D:\Program Files\Microsoft SQL Server\SQLData\\" /SQLUSERDBLOGDIR="D:\Program Files\Microsoft SQL Server\SQLLog\\"
Microsoft (R) SQL Server 2016 13.00.1601.05
Copyright (c) 2016 Microsoft Corporation. All rights reserved.
Microsoft .NET Framework CasPol 4.6.1586.0
for Microsoft .NET Framework version 4.6.1586.0
Copyright (C) Microsoft Corporation. All rights reserved.
WARNING: The .NET Framework does not apply CAS policy by default. Any settings shown or modified by CasPol will only affect applications that opt into using CAS policy.
Please see http://go.microsoft.com/fwlink/?LinkId=131738 for more information.
Success
Microsoft .NET Framework CasPol 4.6.1586.0
for Microsoft .NET Framework version 4.6.1586.0
Copyright (C) Microsoft Corporation. All rights reserved.
WARNING: The .NET Framework does not apply CAS policy by default. Any settings shown or modified by CasPol will only affect applications that opt into using CAS policy.
Please see http://go.microsoft.com/fwlink/?LinkId=131738 for more information.
Success

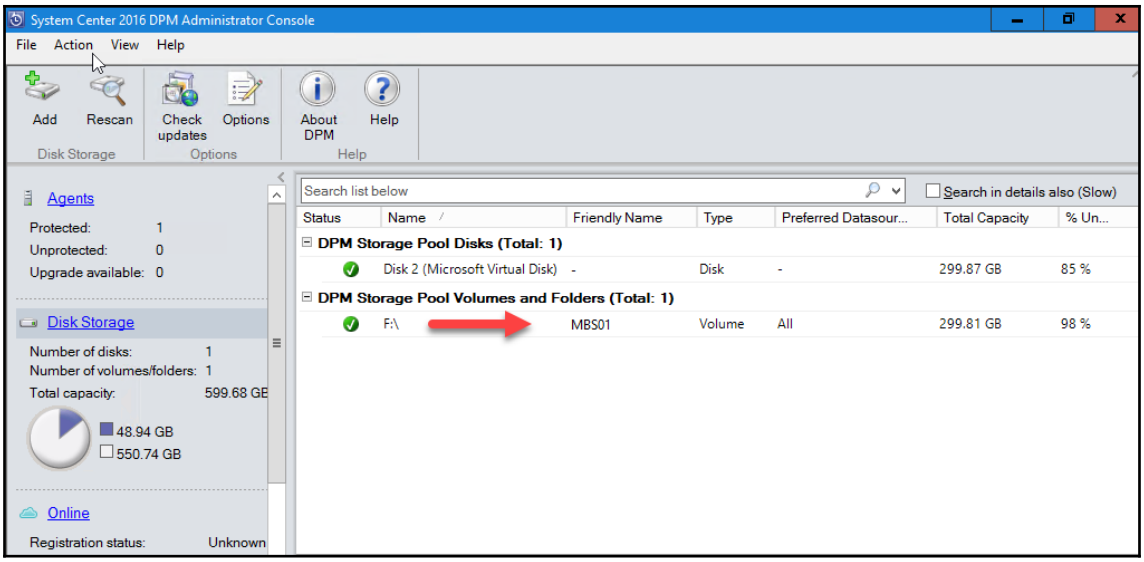

dpmsetup.ini - Notepad
File Edit Format View Help
[OPTIONS]
UserName=
CompanyName=The Power MVP Elite
ProductKey=
SqlAccountPassword=
ProgramFiles = D:\Program Files
DatabaseFiles = D:\Program Files
IntegratedInstallSource = D:\SCDPM2016
SQLMachineName=DPM2016-DC
SQLInstanceName=DPMINSTANCE
SQLMachineUserName=
SQLMachinePassword=
SQLMachineDomainName=
ReportingMachineName=DPM2016-DC
ReportingInstanceName=DPMINSTANCE
ReportingMachineUserName=
ReportingMachinePassword=
ReportingMachineDomainName=

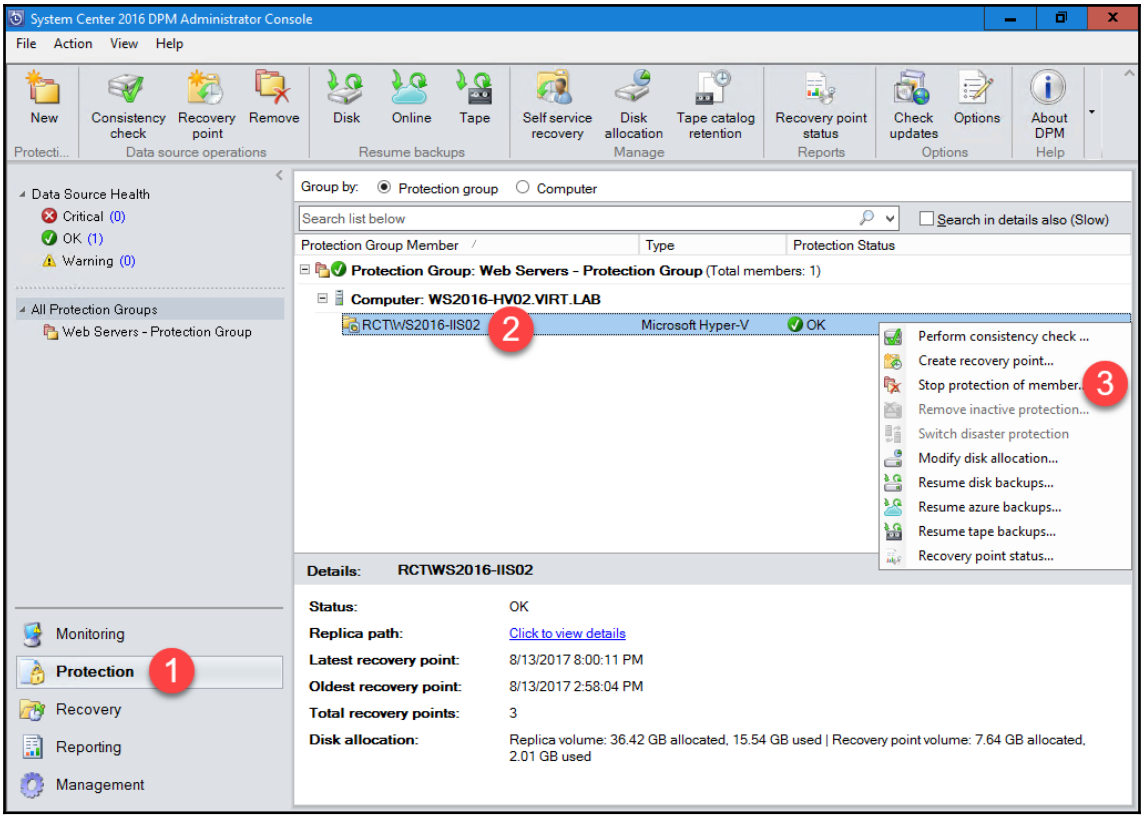

Administrator: Command Prompt
D:\>start /wait D:\SCDPM2016\setup.exe /i /f D:\DPMSetup.ini /l D:\dpmlog.txt
D:\>Enjoy :)
Microsoft System C...
DPM Manageme...

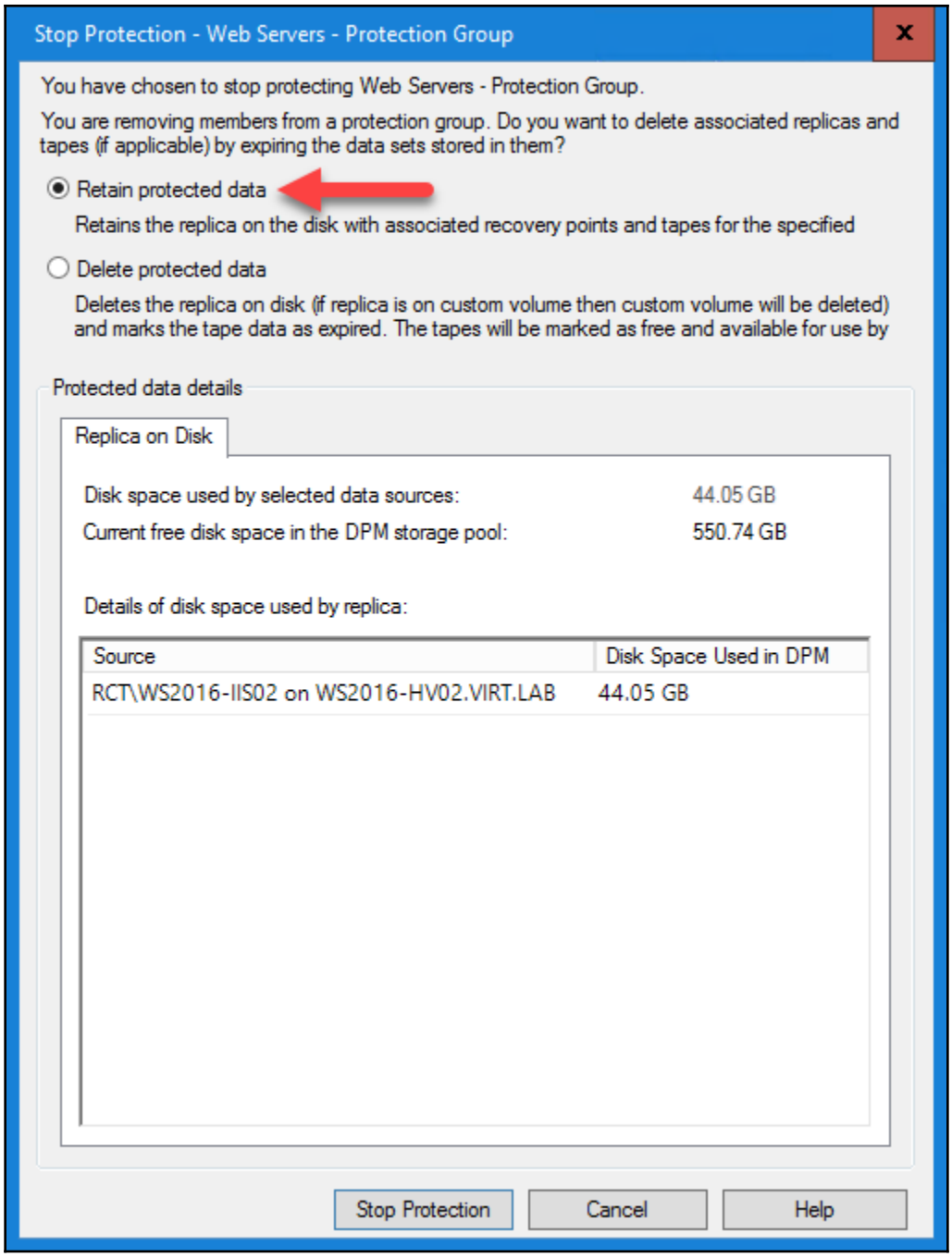

Data Protection Manager Setup
Installation
Setup is upgrading Data Protection Manager and its prerequisite software.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Installation
Software
Microsoft System Center 2016 Data Protection Manager
Status
Warning
Data Protection Manager has been successfully upgraded.
Please click on the link to check for the latest DPM updates:
http://go.microsoft.com/fwlink/?linkid=820914
DPM Setup has created the following firewall exceptions:
Close
Help

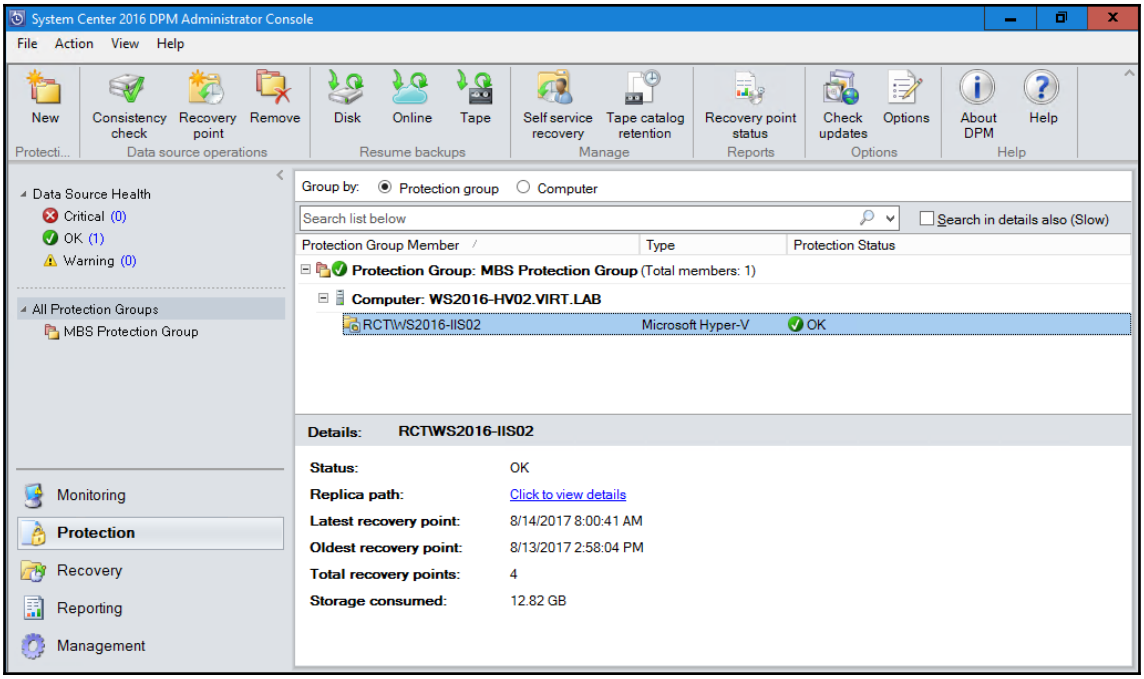

Windows Server 2016 Setup
What needs your attention
The following things need your attention to continue the installation and keep your Windows settings, personal files, and apps.
Change what to keep
Windows Server upgrades are not recommended, for best results please clean install Windows Server 2016. If you must upgrade, before continuing make sure your app vendors support their applications on Windows Server 2016. Follow their specific recommendations before and after upgrade. For more information, go to http://go.microsoft.com/fwlink/?LinkId=243105. Important: If the software isn't compatible with Windows Server 2016 or if the app vendor doesn't support the app, uninstall it before you install Windows. If you don't uninstall the applications, your system won't be supported, the app might not work, and settings or other information might be lost.
Confirm
Back
Refresh

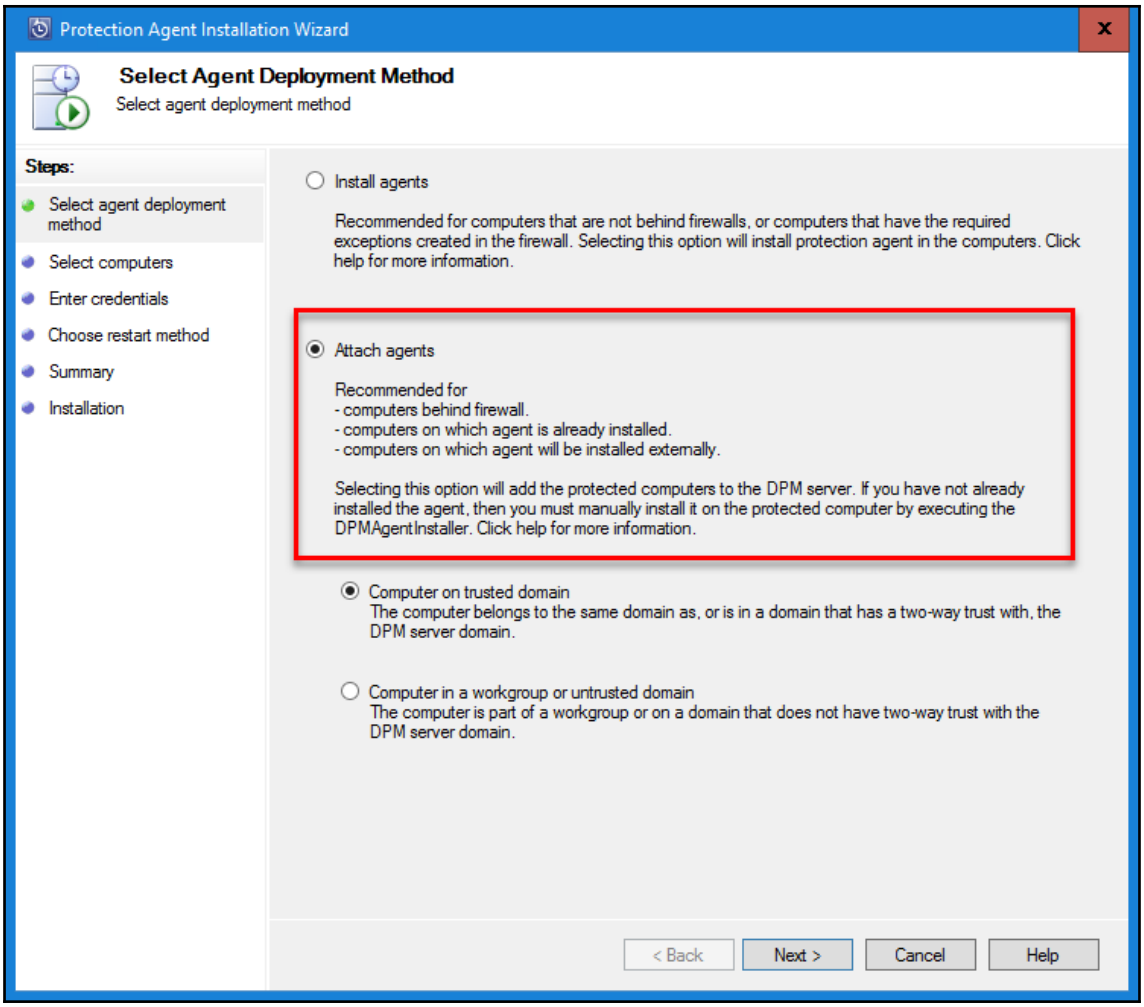

Windows Server 2016 Setup
Ready to install
You won't be able to use your PC while Windows installs. Save and close your files before you begin.
To recap, you've chosen to:
Install Windows Server 2016 Datacenter (Desktop Experience)
Keep personal files and apps
Change what to keep
Back
Install


System Center 2016 DPM Administrator Console
File Action View Help
Add Rescan Check updates Options About DPM Help
Disk Storage Options Help
Agents
Protected: 1
Unprotected: 0
Upgrade available: 0
Disk Storage
Number of disks: 1
Number of volumes/folders: 1
Total capacity: 599.68 GB
48.94 GB
550.74 GB
Online
Registration status: Unknown
Search list below
Search in details also (Slow)
Status Name Friendly Name Type Preferred Datasour... Total Capacity % Un...
DPM Storage Pool Disks (Total: 1)
Disk 2 (Microsoft Virtual Disk) - Disk - 299.87 GB 85 %
DPM Storage Pool Volumes and Folders (Total: 1)
F:\ MBS01 Volume All 299.81 GB 98 %

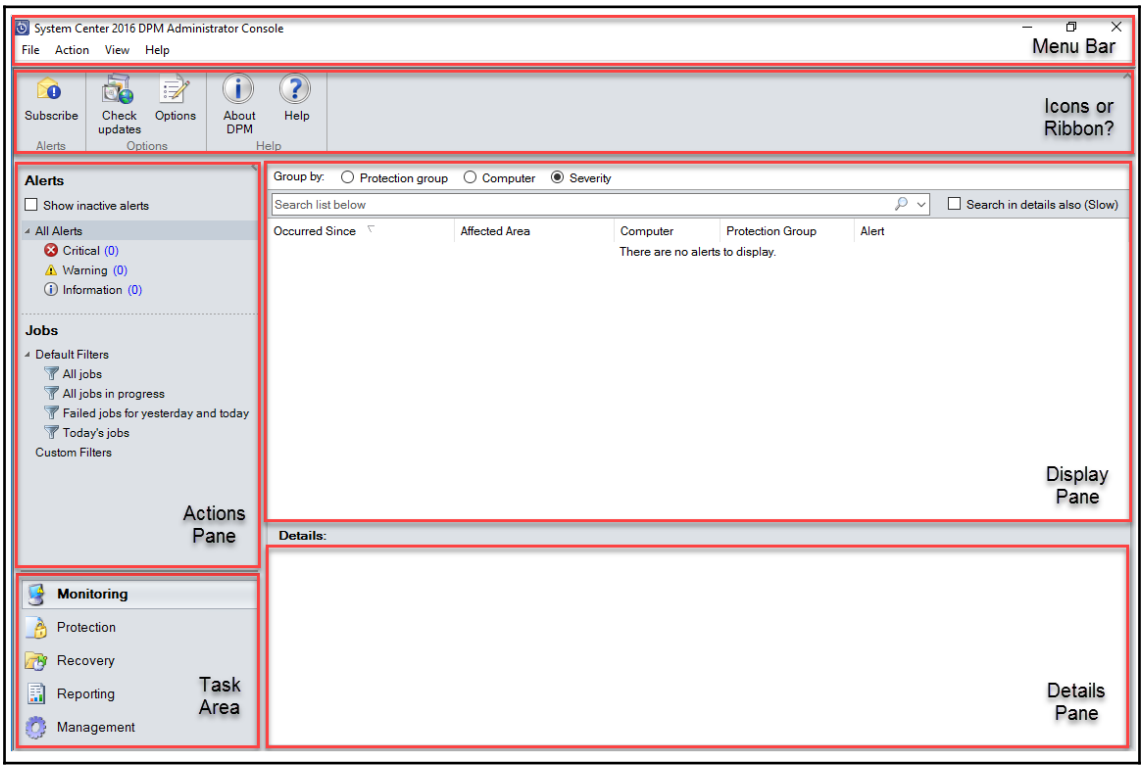

System Center 2016 DPM Administrator Console
File Action View Help
New Consistency check Recovery point Remove
Protecti... Data source operations
Disk Online Tape
Resume backups
Self service recovery Disk allocation Tape catalog retention
Manage
Recovery point status
Reports
Check updates Options
Options
About DPM
Help
Data Source Health
Critical (0)
OK (1)
Warning (0)
All Protection Groups
Web Servers - Protection Group
Group by: Protection group Computer
Search list below
Search in details also (Slow)
Protection Group Member Type Protection Status
Protection Group: Web Servers - Protection Group (Total members: 1)
Computer: WS2016-HV02.VIRT.LAB
RCT\WS2016-IIS02 Microsoft Hyper-V OK
2
Perform consistency check ...
Create recovery point...
Stop protection of member...
3
Remove inactive protection...
Switch disaster protection
Modify disk allocation...
Resume disk backups...
Resume azure backups...
Resume tape backups...
Recovery point status...
Details: RCT\WS2016-IIS02
Status: OK
Replica path: Click to view details
Latest recovery point: 8/13/2017 8:00:11 PM
Oldest recovery point: 8/13/2017 2:58:04 PM
Total recovery points: 3
Disk allocation: Replica volume: 36.42 GB allocated, 15.54 GB used | Recovery point volume: 7.64 GB allocated, 2.01 GB used
Monitoring
Protection
1
Recovery
Reporting
Management

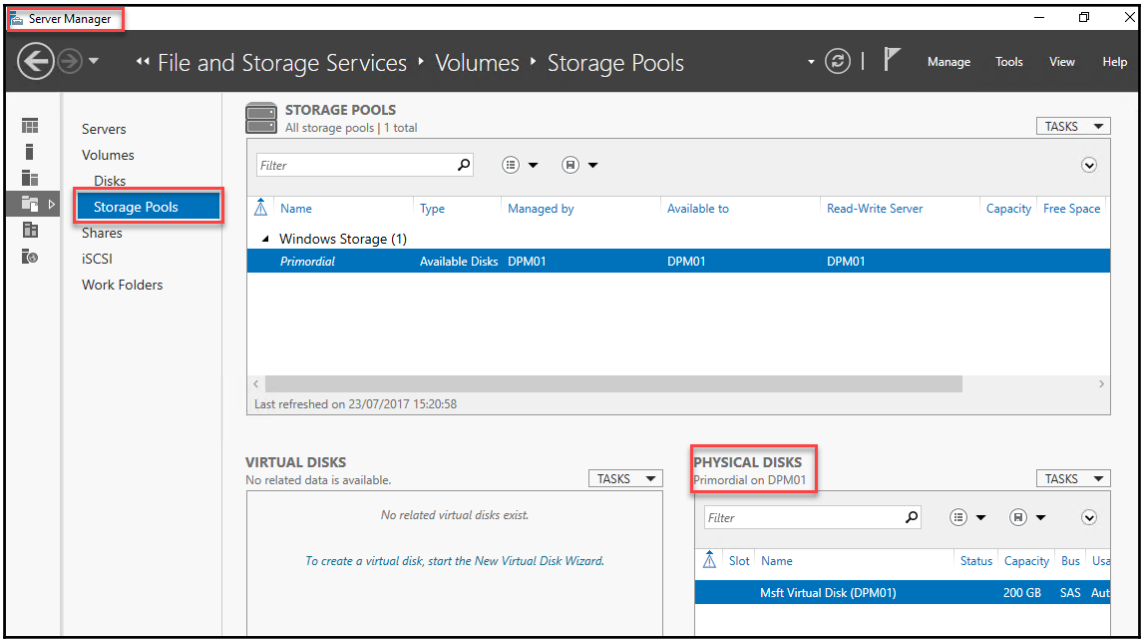

Stop Protection - Web Servers - Protection Group
You have chosen to stop protecting Web Servers - Protection Group.
You are removing members from a protection group. Do you want to delete associated replicas and tapes (if applicable) by expiring the data sets stored in them?
Retain protected data
Retains the replica on the disk with associated recovery points and tapes for the specified
Delete protected data
Deletes the replica on disk (if replica is on custom volume then custom volume will be deleted) and marks the tape data as expired. The tapes will be marked as free and available for use by
Protected data details
Replica on Disk
Disk space used by selected data sources: 44.05 GB
Current free disk space in the DPM storage pool: 550.74 GB
Details of disk space used by replica:
Source
Disk Space Used in DPM
RCT\WS2016-IIS02 on WS2016-HV02.VIRT.LAB
44.05 GB
Stop Protection
Cancel
Help

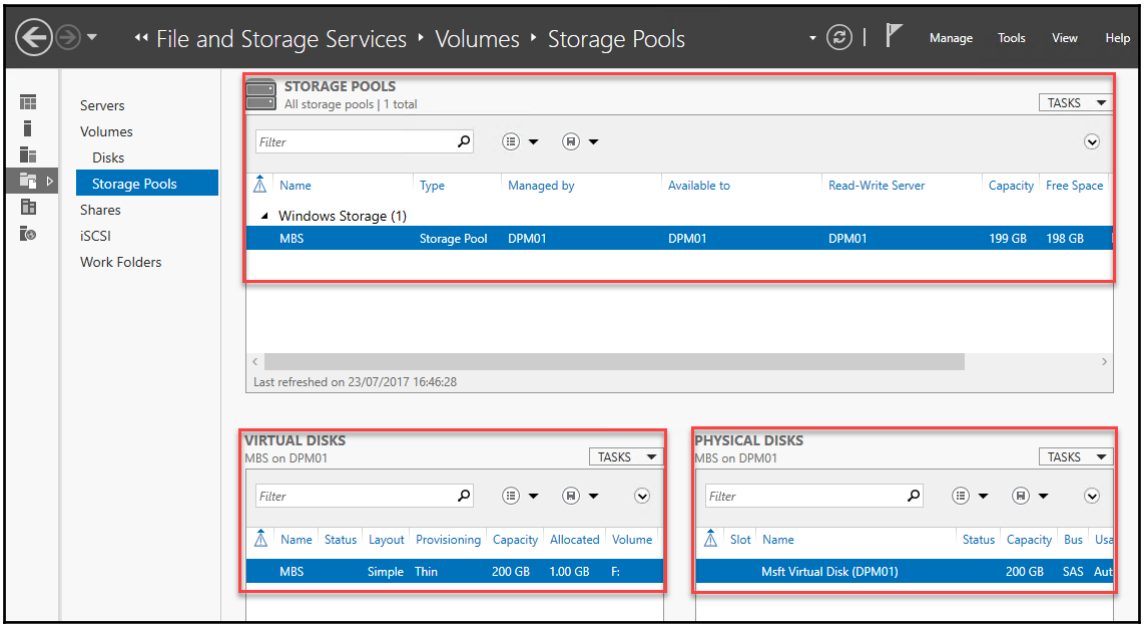

System Center 2016 DPM Administrator Console
File
Action
View
Help
New
Consistency check
Recovery point
Remove
Disk
Online
Tape
Self service recovery
Tape catalog retention
Recovery point status
Check updates
Options
About DPM
Help
Protecti...
Data source operations
Resume backups
Manage
Reports
Options
Help
Data Source Health
Critical (0)
OK (1)
Warning (0)
All Protection Groups
MBS Protection Group
Group by:
Protection group
Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Protection Group: MBS Protection Group (Total members: 1)
Computer: WS2016-HV02.VIRT.LAB
RCT\WS2016-IIS02
Microsoft Hyper-V
OK
Details:
RCT\WS2016-IIS02
Status:
OK
Replica path:
Click to view details
Latest recovery point:
8/14/2017 8:00:41 AM
Oldest recovery point:
8/13/2017 2:58:04 PM
Total recovery points:
4
Storage consumed:
12.82 GB
Monitoring
Protection
Recovery
Reporting
Management

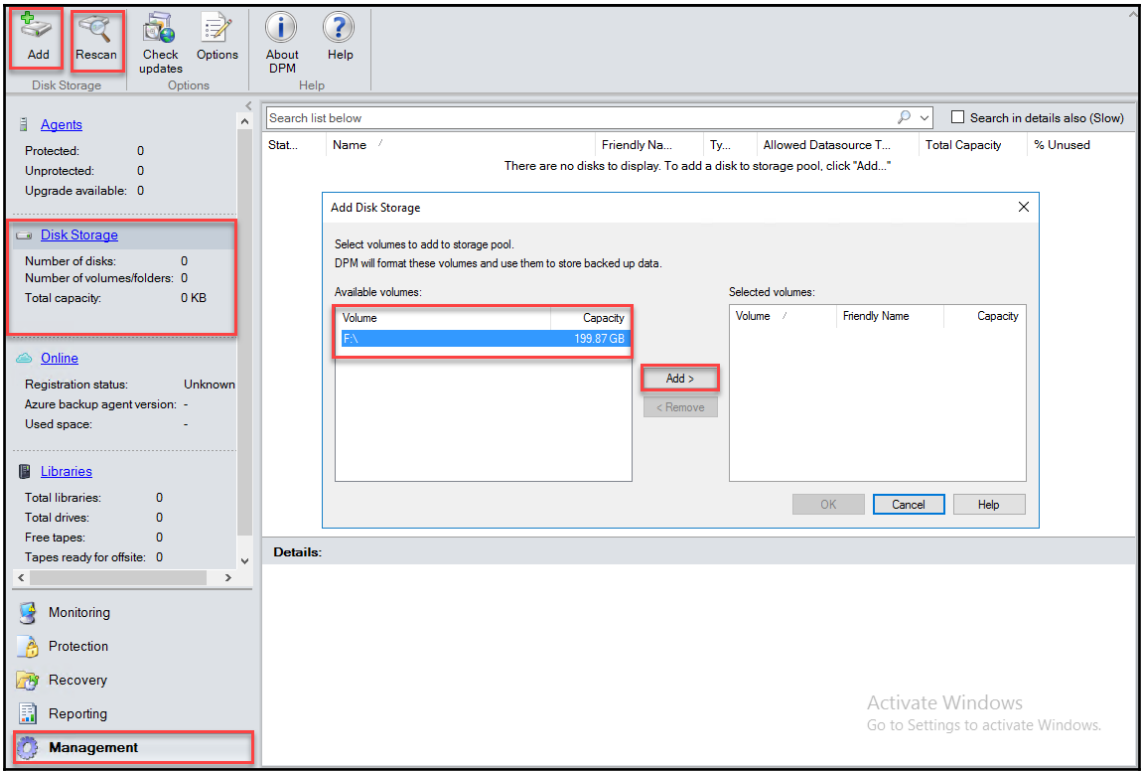

Protection Agent Installation Wizard
Select Agent Deployment Method
Select agent deployment method
Steps:
Select agent deployment method
Select computers
Enter credentials
Choose restart method
Summary
Installation
Install agents
Recommended for computers that are not behind firewalls, or computers that have the required exceptions created in the firewall. Selecting this option will install protection agent in the computers. Click help for more information.
Attach agents
Recommended for
- computers behind firewall.
- computers on which agent is already installed.
- computers on which agent will be installed externally.
Selecting this option will add the protected computers to the DPM server. If you have not already installed the agent, then you must manually install it on the protected computer by executing the DPMAgentInstaller. Click help for more information.
Computer on trusted domain
The computer belongs to the same domain as, or is in a domain that has a two-way trust with, the DPM server domain.
Computer in a workgroup or untrusted domain
The computer is part of a workgroup or on a domain that does not have two-way trust with the DPM server domain.
< Back
Next >
Cancel
Help

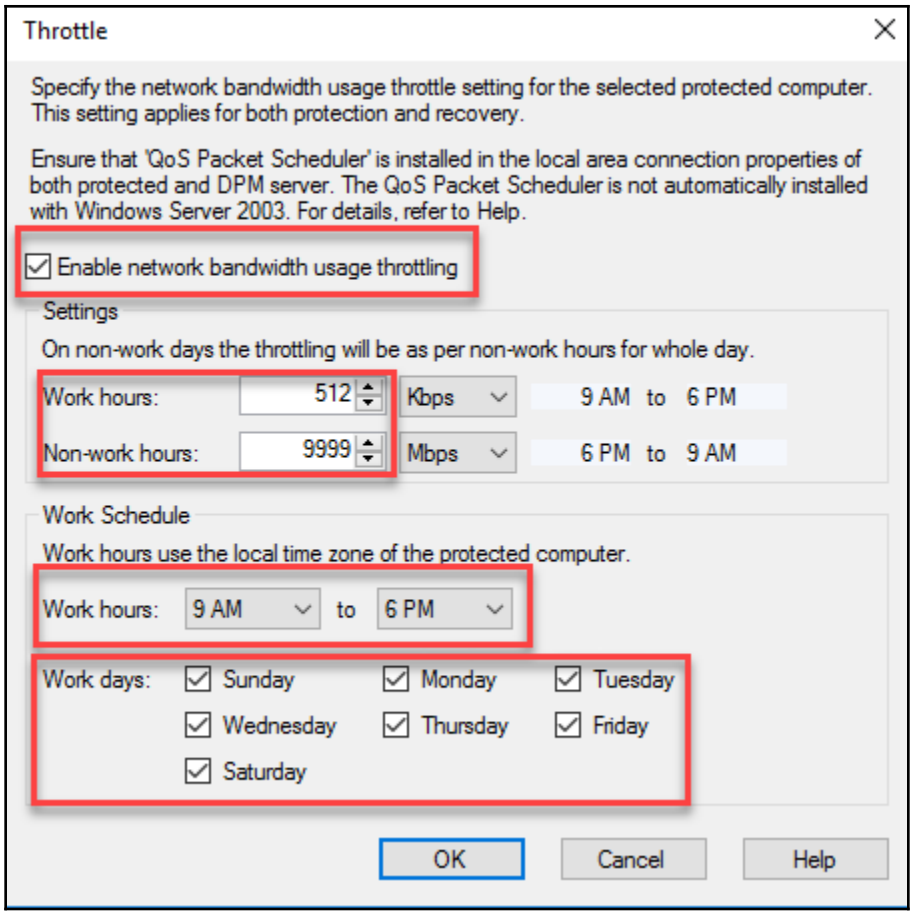
Chapter 2: DPM Post-Installation and Management Tasks

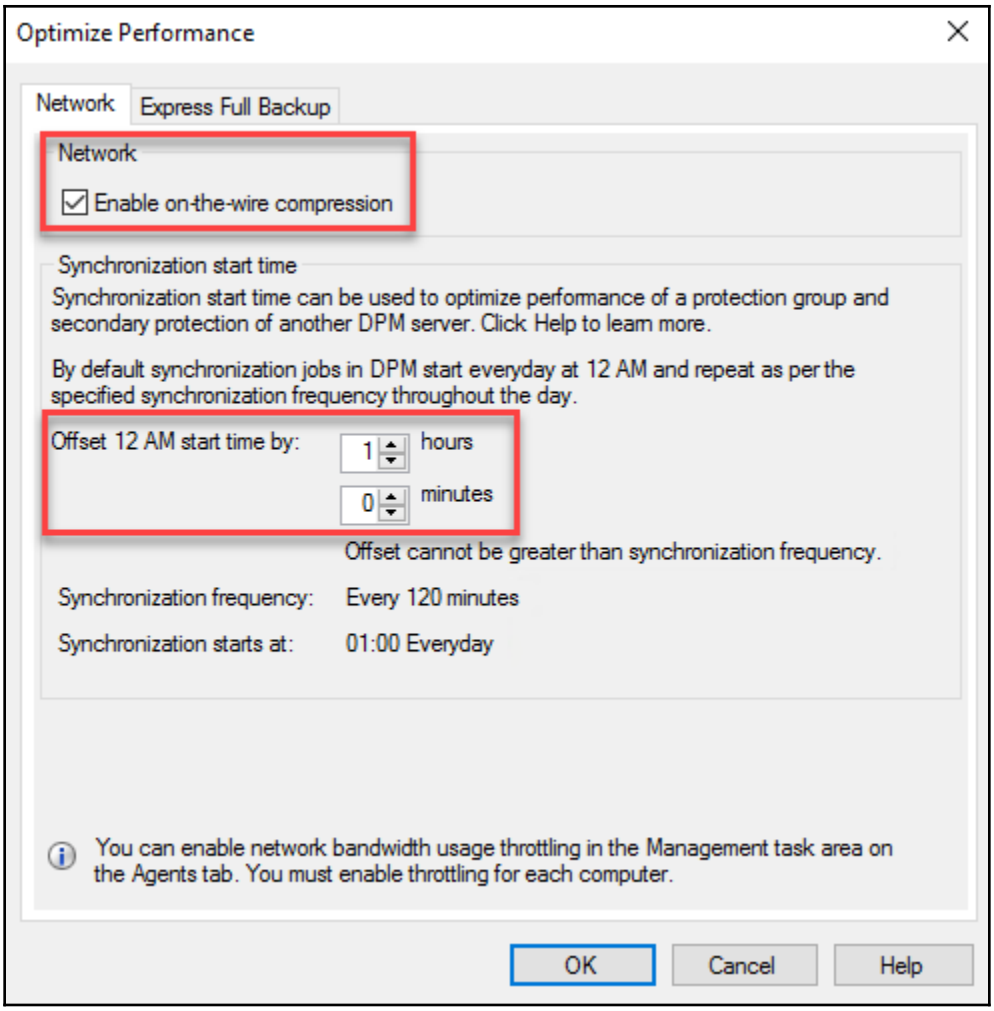


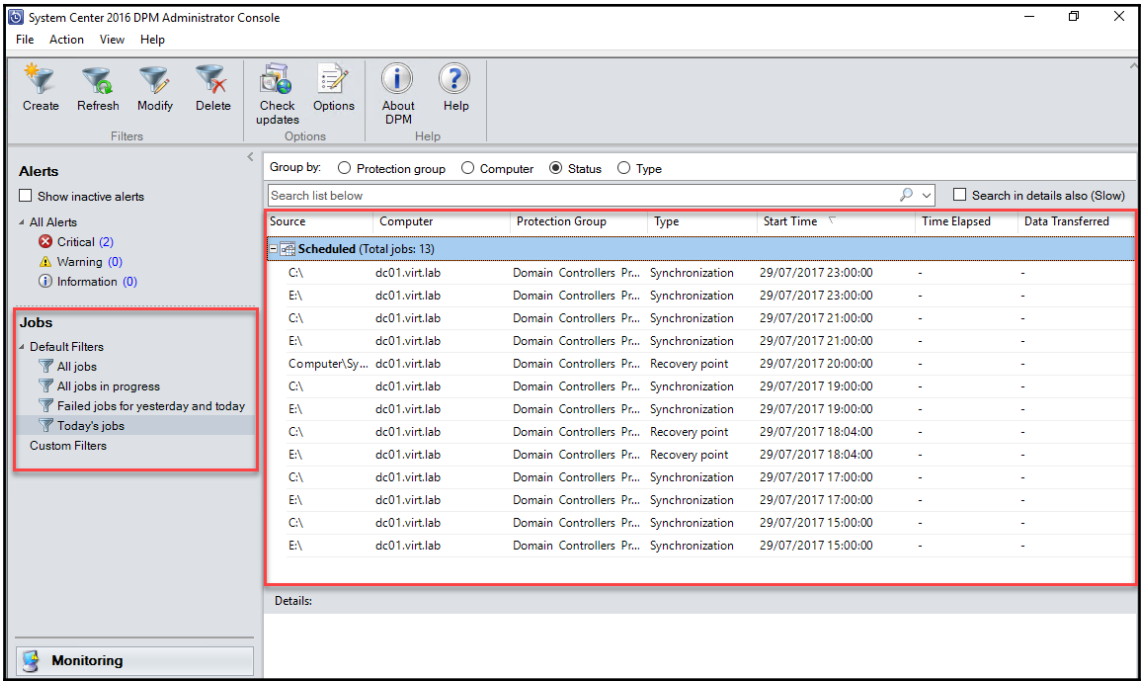

Server Manager
File and Storage Services ▸ Volumes ▸ Storage Pools
Manage
Tools
View
Help
Servers
Volumes
Disks
Storage Pools
Shares
iSCSI
Work Folders
STORAGE POOLS
All storage pools | 1 total
TASKS
Filter
Name
Type
Managed by
Available to
Read-Write Server
Capacity
Free Space
Windows Storage (1)
Primordial
Available Disks
DPM01
DPM01
DPM01
Last refreshed on 23/07/2017 15:20:58
VIRTUAL DISKS
No related data is available.
No related virtual disks exist.
To create a virtual disk, start the New Virtual Disk Wizard.
PHYSICAL DISKS
Primordial on DPM01
Slot
Name
Status
Capacity
Bus
Msft Virtual Disk (DPM01)
200 GB
SAS

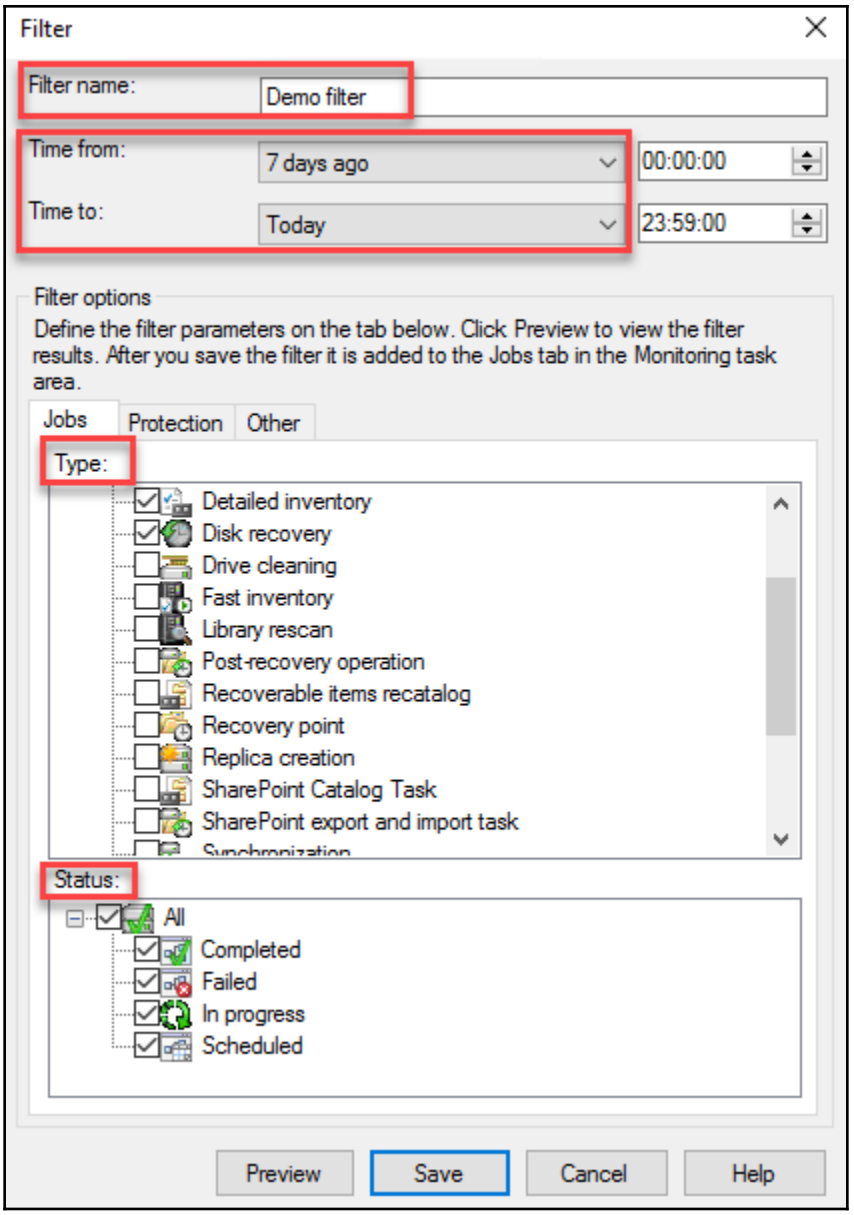

File and Storage Services ▸ Volumes ▸ Storage Pools
Manage
Tools
View
Help
Servers
Volumes
Disks
Storage Pools
Shares
iSCSI
Work Folders
STORAGE POOLS
All storage pools | 1 total
TASKS
Filter
Name
Type
Managed by
Available to
Read-Write Server
Capacity
Free Space
Windows Storage (1)
MBS
Storage Pool
DPM01
DPM01
DPM01
199 GB
198 GB
Last refreshed on 23/07/2017 16:46:28
VIRTUAL DISKS
MBS on DPM01
Name
Status
Layout
Provisioning
Capacity
Allocated
Volume
MBS
Simple
Thin
200 GB
1.00 GB
F:
PHYSICAL DISKS
MBS on DPM01
Slot
Name
Status
Capacity
Bus
Msft Virtual Disk (DPM01)
200 GB
SAS

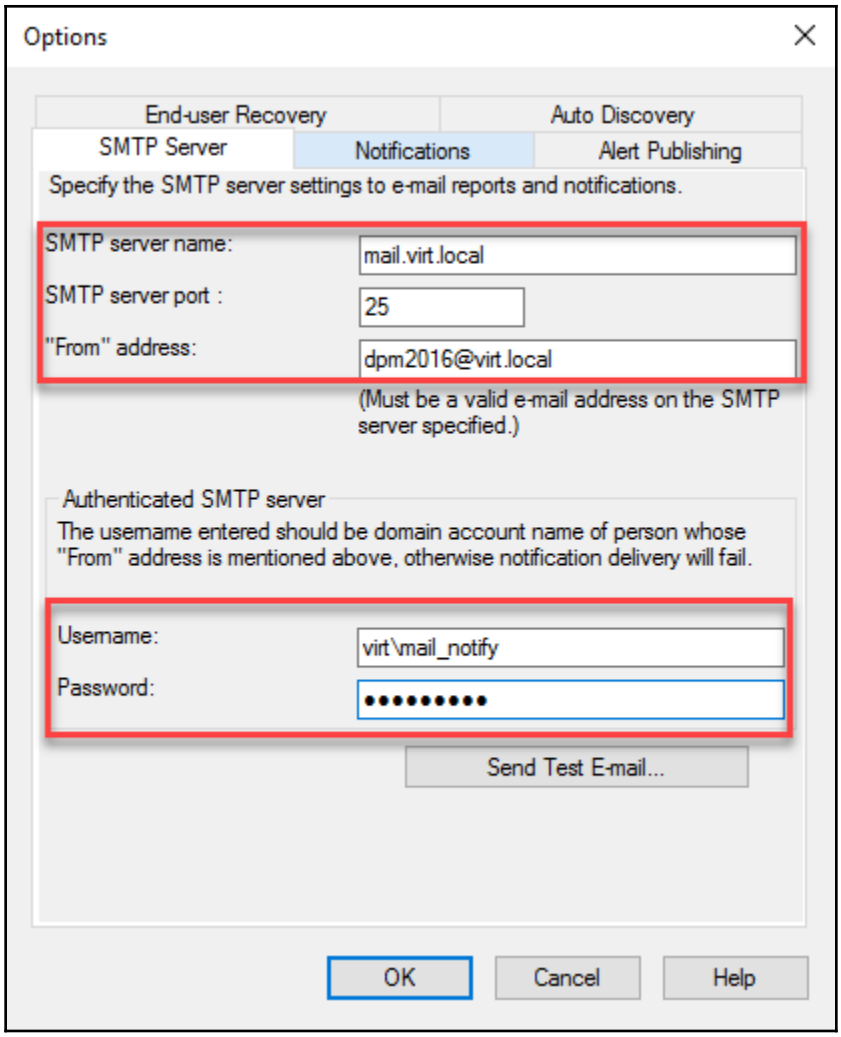

Add
Rescan
Check updates
Options
About DPM
Help
Disk Storage
Options
Help
Agents
Protected: 0
Unprotected: 0
Upgrade available: 0
Disk Storage
Number of disks: 0
Number of volumes/folders: 0
Total capacity: 0 KB
Online
Registration status: Unknown
Azure backup agent version: -
Used space: -
Libraries
Total libraries: 0
Total drives: 0
Free tapes: 0
Tapes ready for offsite: 0
Monitoring
Protection
Recovery
Reporting
Management
Search list below
Search in details also (Slow)
Stat...
Name
Friendly Na...
Ty...
Allowed Datasource T...
Total Capacity
% Unused
There are no disks to display. To add a disk to storage pool, click "Add..."
Add Disk Storage
Select volumes to add to storage pool.
DPM will format these volumes and use them to store backed up data.
Available volumes:
Volume
Capacity
F:\
199.87 GB
Add >
< Remove
Selected volumes:
Volume
Friendly Name
Capacity
OK
Cancel
Help
Details:
Activate Windows
Go to Settings to activate Windows.

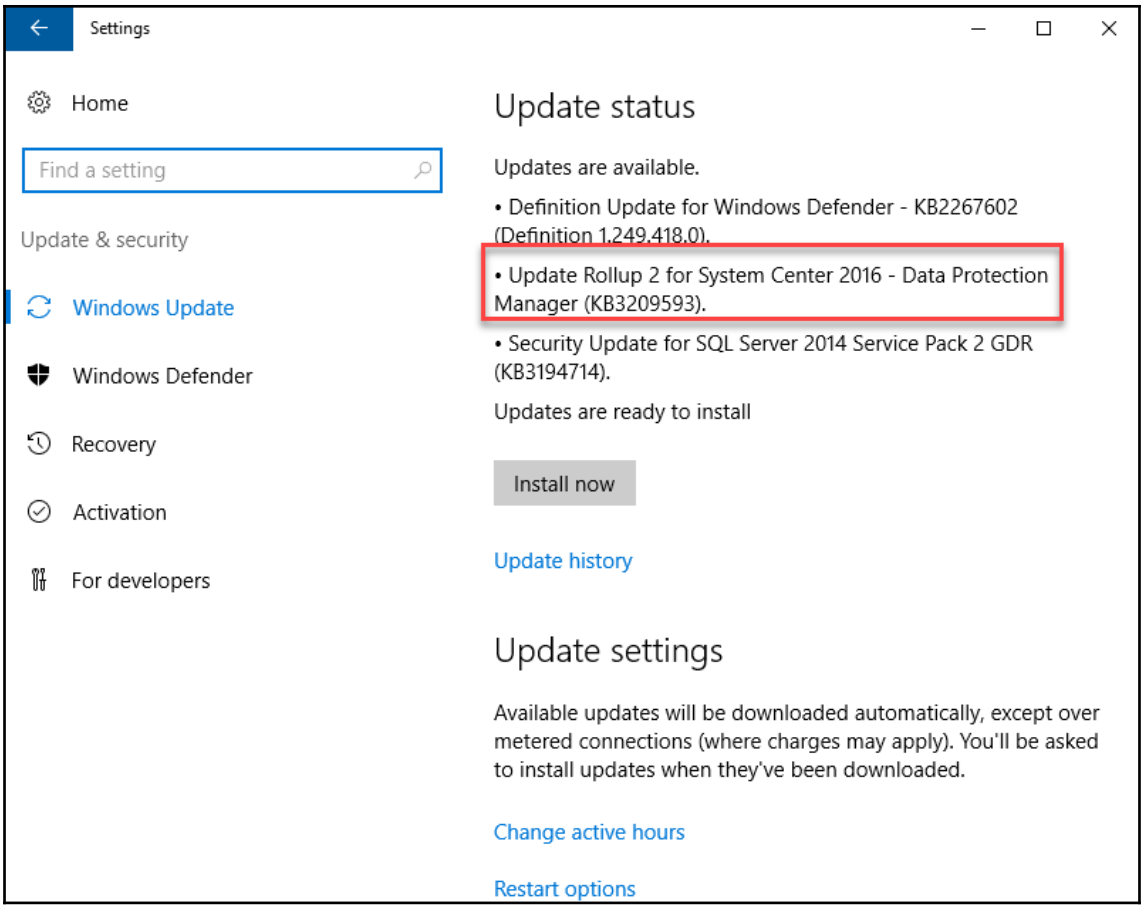

Throttle
Specify the network bandwidth usage throttle setting for the selected protected computer. This setting applies for both protection and recovery.
Ensure that 'QoS Packet Scheduler' is installed in the local area connection properties of both protected and DPM server. The QoS Packet Scheduler is not automatically installed with Windows Server 2003. For details, refer to Help.
Enable network bandwidth usage throttling
Settings
On non-work days the throttling will be as per non-work hours for whole day.
Work hours:
512
Kbps
9 AM to 6 PM
Non-work hours:
9999
Mbps
6 PM to 9 AM
Work Schedule
Work hours use the local time zone of the protected computer.
Work hours:
9 AM
to
6 PM
Work days:
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
OK
Cancel
Help


Optimize Performance
Network
Express Full Backup
Network
Enable on-the-wire compression
Synchronization start time
Synchronization start time can be used to optimize performance of a protection group and secondary protection of another DPM server. Click Help to learn more.
By default synchronization jobs in DPM start everyday at 12 AM and repeat as per the specified synchronization frequency throughout the day.
Offset 12 AM start time by:
1
hours
0
minutes
Offset cannot be greater than synchronization frequency.
Synchronization frequency:
Every 120 minutes
Synchronization starts at:
01:00 Everyday
You can enable network bandwidth usage throttling in the Management task area on the Agents tab. You must enable throttling for each computer.
OK
Cancel
Help


System Center 2016 DPM Administrator Console
File Action View Help
Create Refresh Modify Delete
Filters
Check updates Options
Options
About DPM Help
Help
Alerts
Show inactive alerts
All Alerts
Critical (2)
Warning (0)
Information (0)
Jobs
Default Filters
All jobs
All jobs in progress
Failed jobs for yesterday and today
Today's jobs
Custom Filters
Monitoring
Group by: Protection group Computer Status Type
Search list below
Search in details also (Slow)
Source Computer Protection Group Type Start Time Time Elapsed Data Transferred
Scheduled (Total jobs: 13)
C:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 23:00:00 - -
E:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 23:00:00 - -
C:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 21:00:00 - -
E:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 21:00:00 - -
Computer\Sy... dc01.virt.lab Domain Controllers Pr... Recovery point 29/07/2017 20:00:00 - -
C:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 19:00:00 - -
E:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 19:00:00 - -
C:\ dc01.virt.lab Domain Controllers Pr... Recovery point 29/07/2017 18:04:00 - -
E:\ dc01.virt.lab Domain Controllers Pr... Recovery point 29/07/2017 18:04:00 - -
C:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 17:00:00 - -
E:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 17:00:00 - -
C:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 15:00:00 - -
E:\ dc01.virt.lab Domain Controllers Pr... Synchronization 29/07/2017 15:00:00 - -
Details:

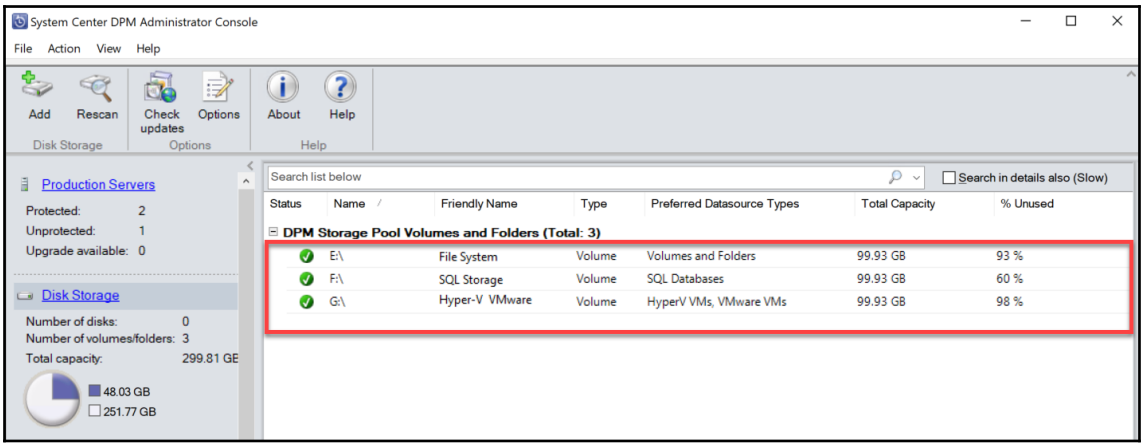

Filter
Filter name:
Demo filter
Time from:
7 days ago
00:00:00
Time to:
Today
23:59:00
Filter options
Define the filter parameters on the tab below. Click Preview to view the filter results. After you save the filter it is added to the Jobs tab in the Monitoring task area.
Jobs
Protection
Other
Type:
Detailed inventory
Disk recovery
Drive cleaning
Fast inventory
Library rescan
Post-recovery operation
Recoverable items recatalog
Recovery point
Replica creation
SharePoint Catalog Task
SharePoint export and import task
Status:
All
Completed
Failed
In progress
Scheduled
Preview
Save
Cancel
Help

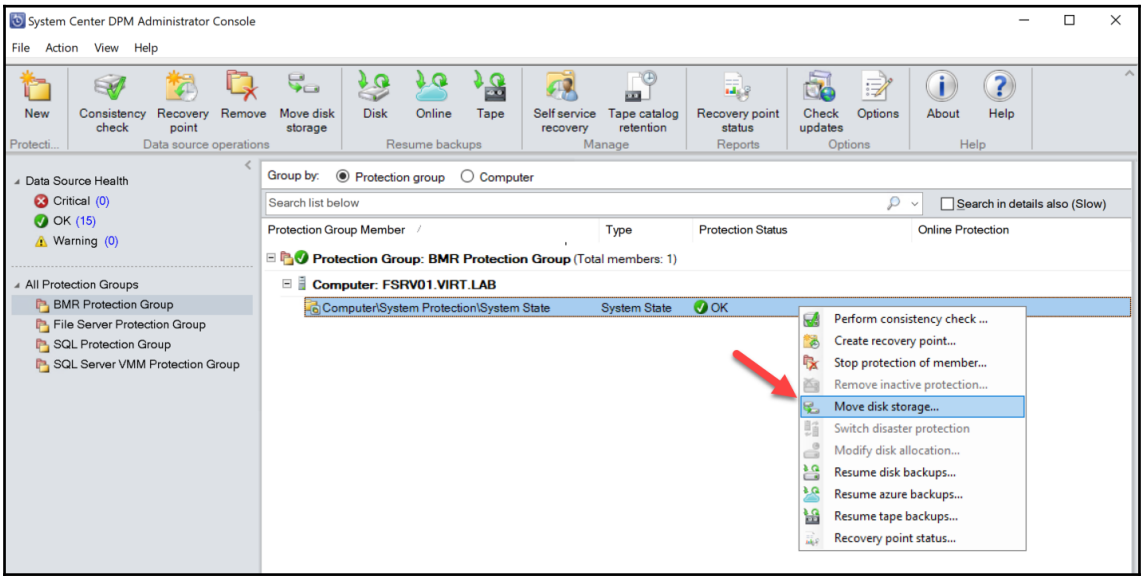

Options
End-user Recovery
Auto Discovery
SMTP Server
Notifications
Alert Publishing
Specify the SMTP server settings to e-mail reports and notifications.
SMTP server name:
mail.virt.local
SMTP server port :
25
"From" address:
dpm2016@virt.local
(Must be a valid e-mail address on the SMTP server specified.)
Authenticated SMTP server
The username entered should be domain account name of person whose "From" address is mentioned above, otherwise notification delivery will fail.
Username:
virt\mail_notify
Password:
Send Test E-mail...
OK
Cancel
Help

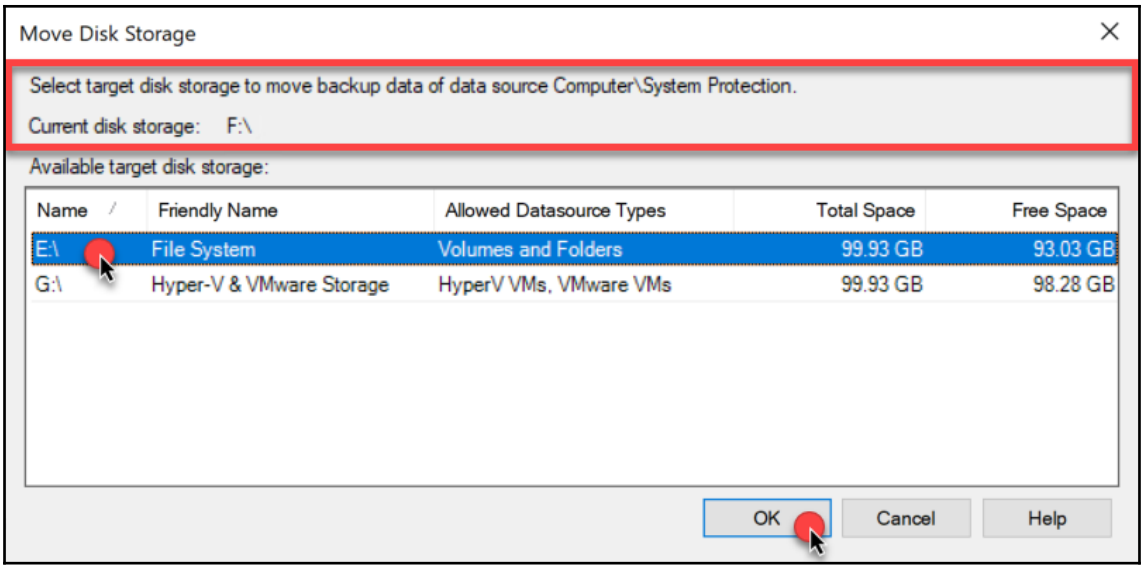


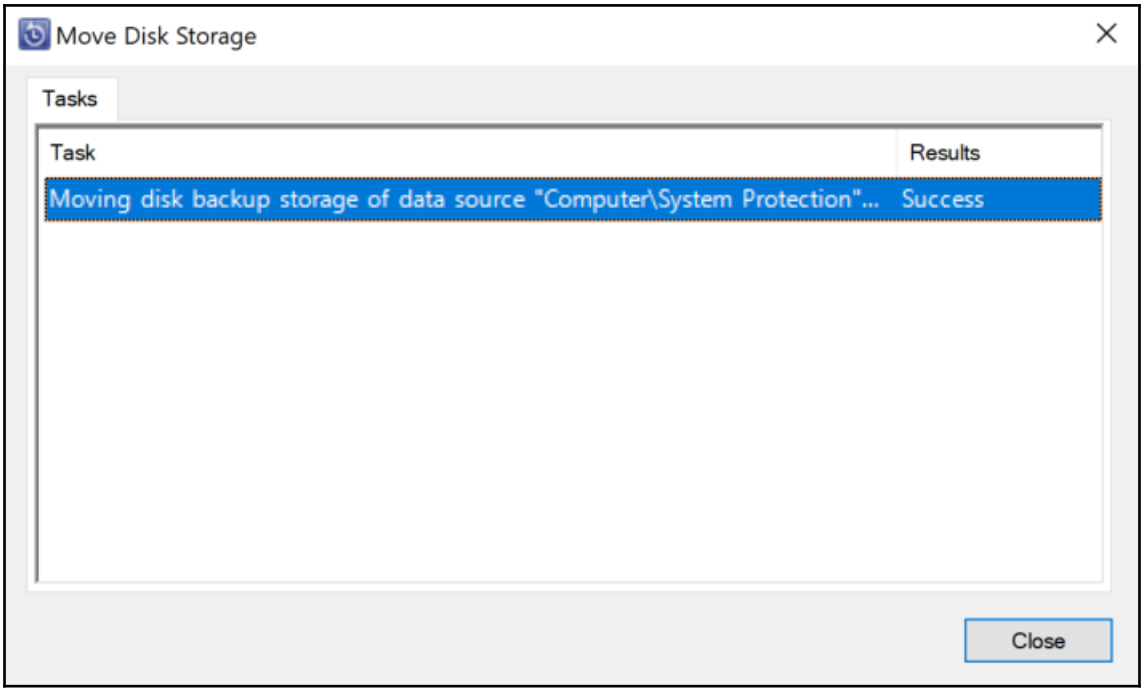

```
CharbelNemnom.com #> $vol = Get-DPMDiskStorage -Volumes
CharbelNemnom.com #> $vol

Name AccessPath Tag TotalSpace   LogicalUsedSpace
---- ---------- --- ----------   ----------------
     G:\        All 107307073536
     F:\        All 107307073536
     E:\        All 107307073536


CharbelNemnom.com #>
```

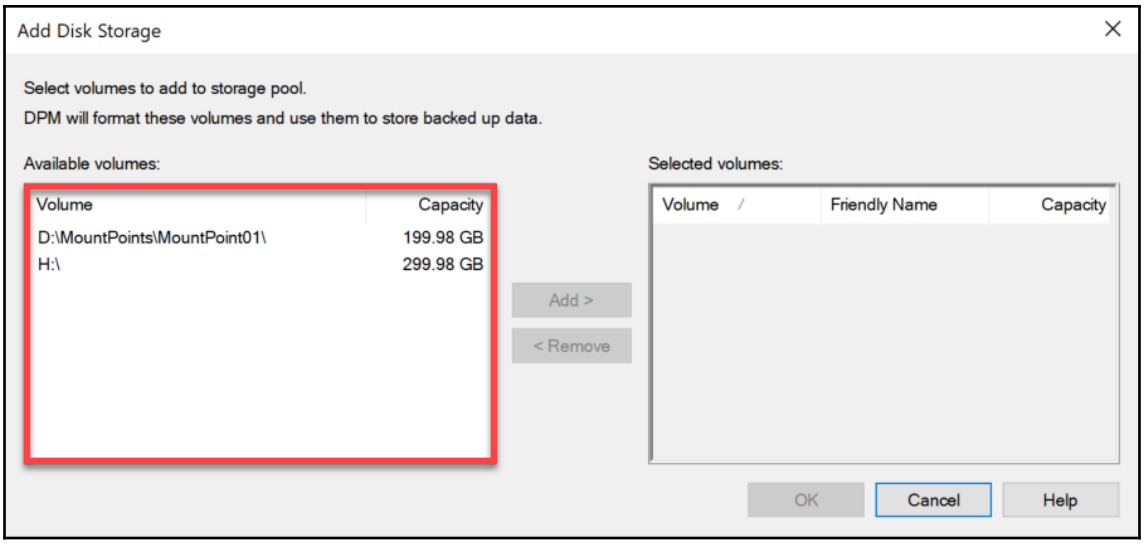
```
CharbelNemnom.com #> Update-DPMDiskStorage -Volume $vol[0] -DatasourceType HyperV, VMware -FriendlyName "Hyper-V & VMwar
e Storage"
CharbelNemnom.com #> Update-DPMDiskStorage -Volume $vol[1] -DatasourceType SQL -FriendlyName "SQL Storage"
CharbelNemnom.com #> Update-DPMDiskStorage -Volume $vol[2] -DatasourceType FileSystem -FriendlyName "File System"
CharbelNemnom.com #> Get-DPMDiskStorage -Volumes

Name                    AccessPath Tag            TotalSpace   LogicalUsedSpace
----                    ---------- ---            ----------   ----------------
Hyper-V & VMware Storage G:\       HyperV, VMware 107307073536
SQL Storage             F:\        SQL            107307073536
File System             E:\        FileSystem     107307073536
```

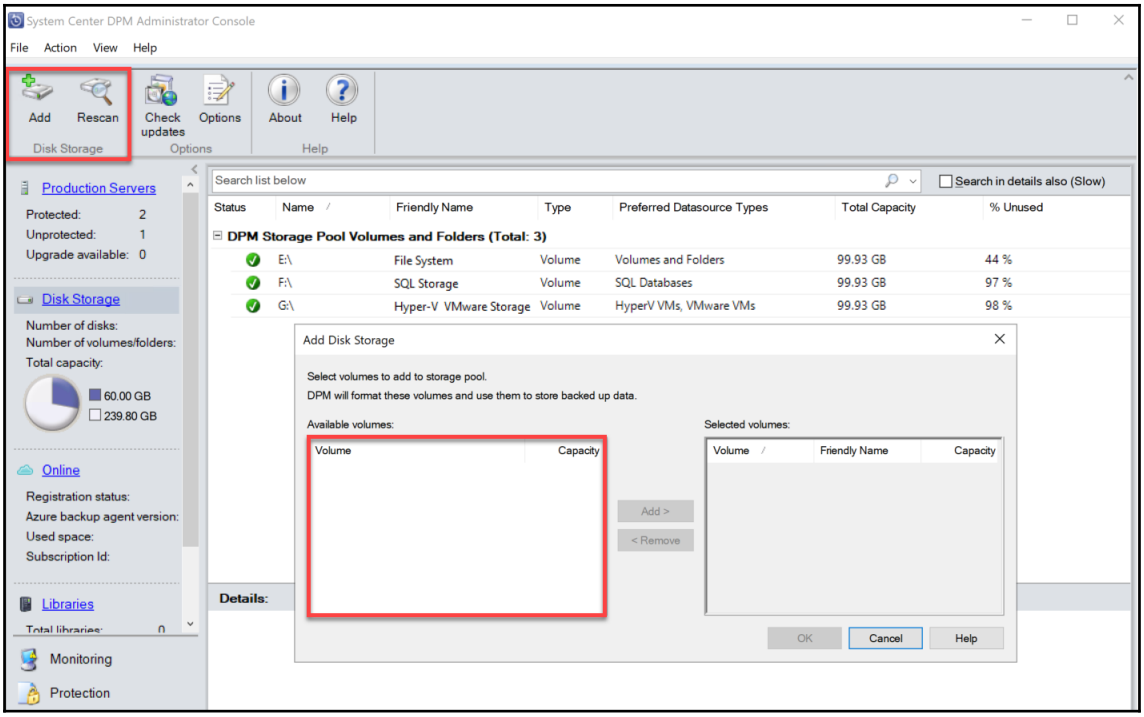


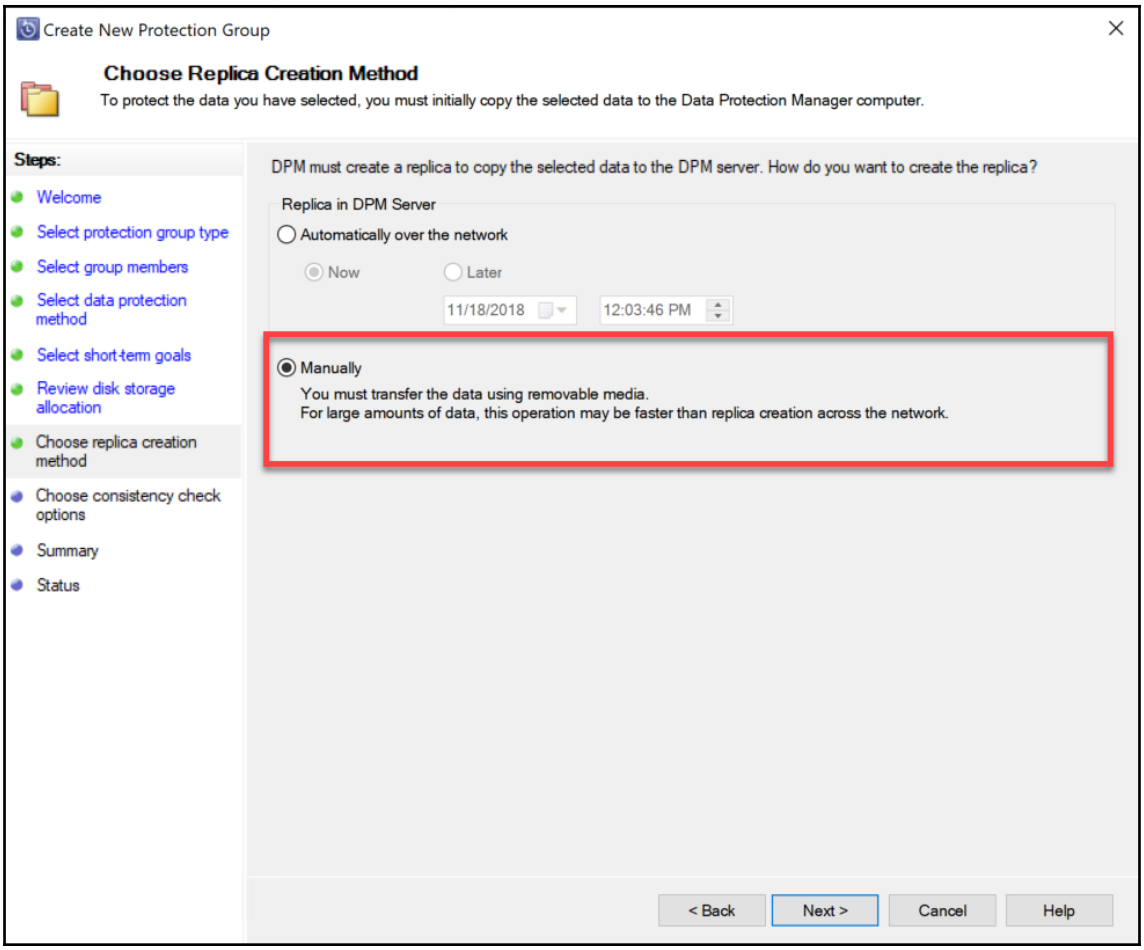


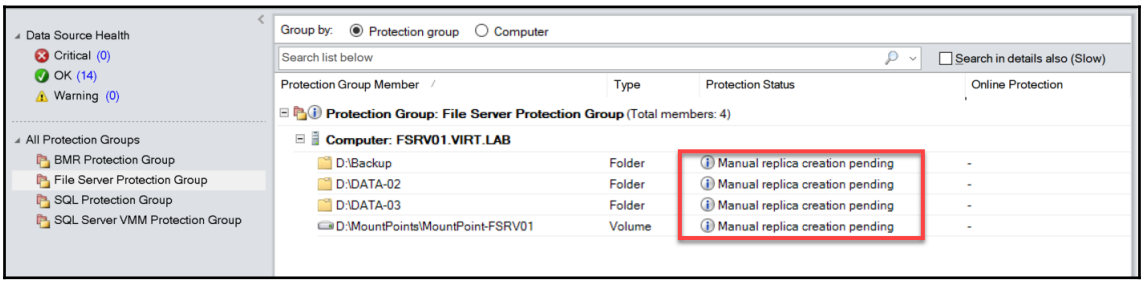

Move Disk Storage
Select target disk storage to move backup data of data source Computer\System Protection.
Current disk storage: F:\
Available target disk storage:
Name
Friendly Name
Allowed Datasource Types
Total Space
Free Space
E:\
File System
Volumes and Folders
99.93 GB
93.03 GB
G:\
Hyper-V & VMware Storage
HyperV VMs, VMware VMs
99.93 GB
98.28 GB
OK
Cancel
Help

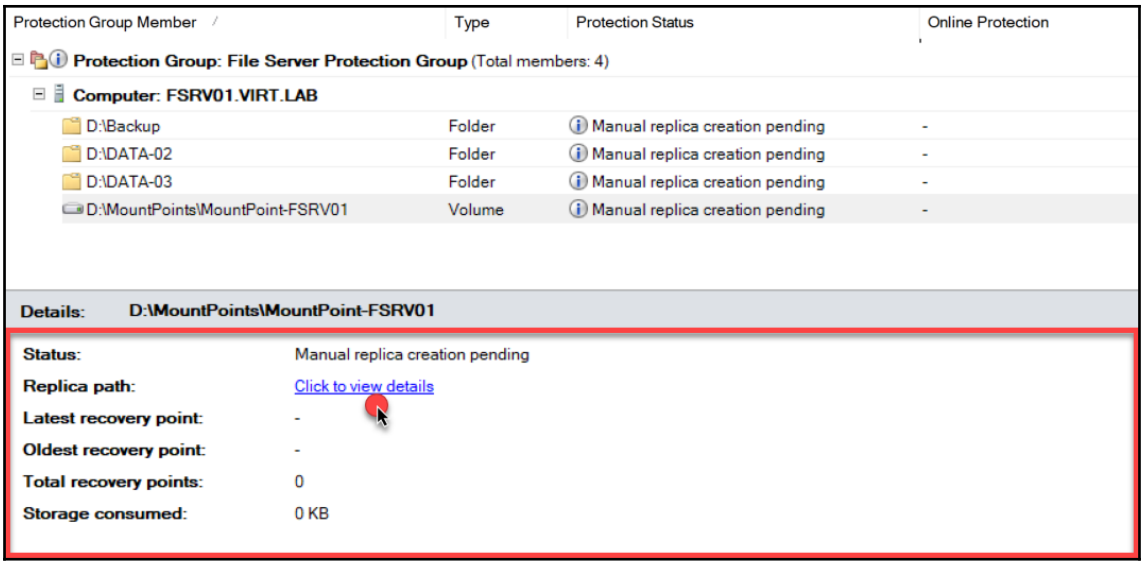

Move Disk Storage
Tasks
Task
Results
Moving disk backup storage of data source "Computer\System Protection"...
Success
Close

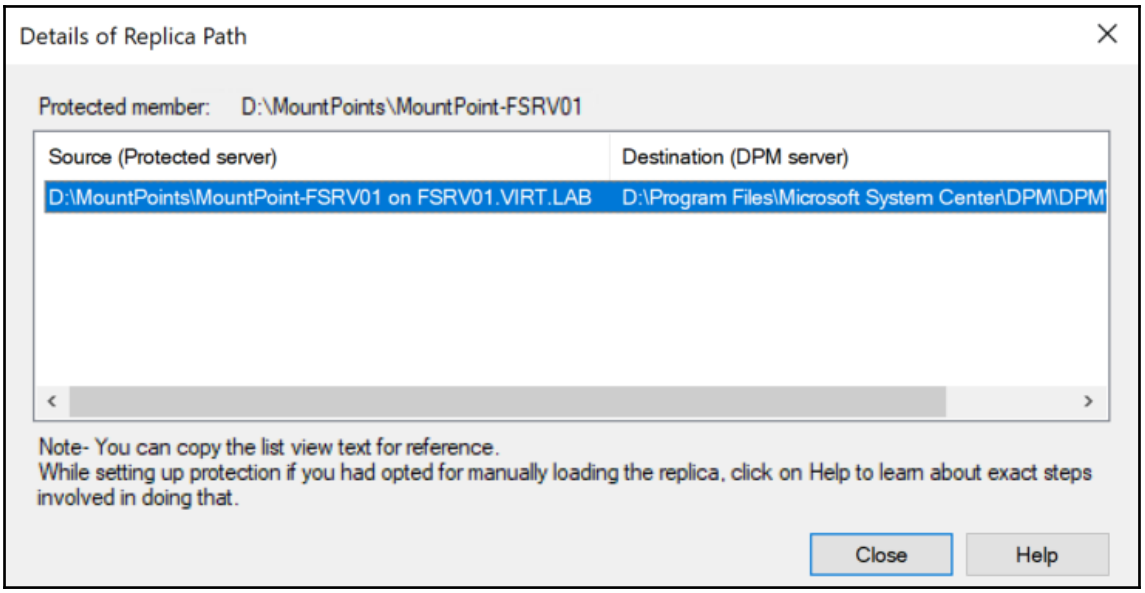

Add Disk Storage
Select volumes to add to storage pool.
DPM will format these volumes and use them to store backed up data.
Available volumes:
Volume
Capacity
D:\MountPoints\MountPoint01\
199.98 GB
H:\
299.98 GB
Add >
< Remove
Selected volumes:
Volume
Friendly Name
Capacity
OK
Cancel
Help

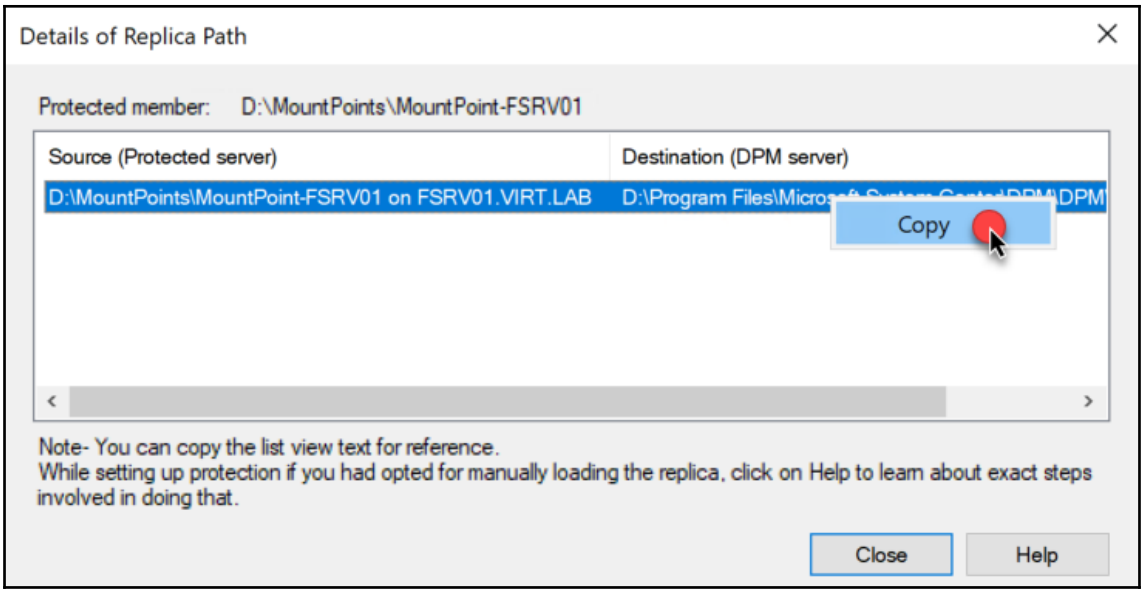

System Center DPM Administrator Console
File
Action
View
Help
Add
Rescan
Disk Storage
Check updates
Options
Options
About
Help
Production Servers
Protected: 2
Unprotected: 1
Upgrade available: 0
Disk Storage
Number of disks:
Number of volumes/folders:
Total capacity:
60.00 GB
239.80 GB
Online
Registration status:
Azure backup agent version:
Used space:
Subscription Id:
Libraries
Monitoring
Protection
Search list below
Search in details also (Slow)
Status
Name
Friendly Name
Type
Preferred Datasource Types
Total Capacity
% Unused
DPM Storage Pool Volumes and Folders (Total: 3)
E:\ File System Volume Volumes and Folders 99.93 GB 44 %
F:\ SQL Storage Volume SQL Databases 99.93 GB 97 %
G:\ Hyper-V VMware Storage Volume HyperV VMs, VMware VMs 99.93 GB 98 %
Details:
Add Disk Storage
Select volumes to add to storage pool.
DPM will format these volumes and use them to store backed up data.
Available volumes:
Volume
Capacity
Add >
< Remove
Selected volumes:
Volume
Friendly Name
Capacity
OK
Cancel
Help

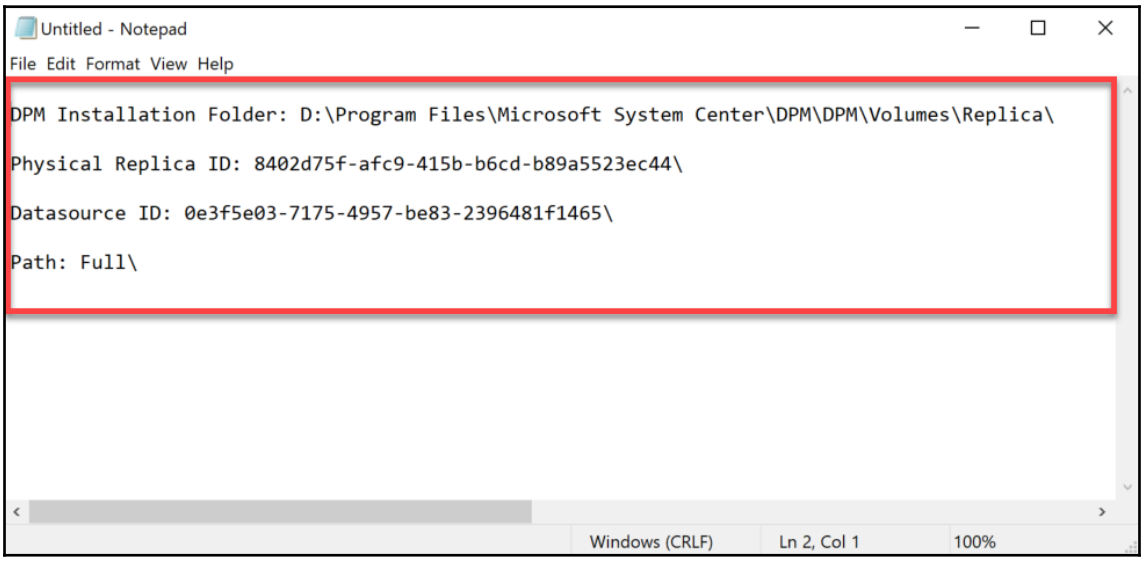

Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
DPM must create a replica to copy the selected data to the DPM server. How do you want to create the replica?
Replica in DPM Server
Automatically over the network
Now
Later
11/18/2018
12:03:46 PM
Manually
You must transfer the data using removable media.
For large amounts of data, this operation may be faster than replica creation across the network.
< Back
Next >
Cancel
Help


Data Source Health
Critical (0)
OK (14)
Warning (0)
All Protection Groups
BMR Protection Group
File Server Protection Group
SQL Protection Group
SQL Server VMM Protection Group
Group by: Protection group Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: File Server Protection Group (Total members: 4)
Computer: FSRV01.VIRT.LAB
D:\Backup Folder Manual replica creation pending -
D:\DATA-02 Folder Manual replica creation pending -
D:\DATA-03 Folder Manual replica creation pending -
D:\MountPoints\MountPoint-FSRV01 Volume Manual replica creation pending -


Protection Group Member
Type
Protection Status
Online Protection
Protection Group: File Server Protection Group (Total members: 4)
Computer: FSRV01.VIRT.LAB
D:\Backup
Folder
Manual replica creation pending
-
D:\DATA-02
Folder
Manual replica creation pending
-
D:\DATA-03
Folder
Manual replica creation pending
-
D:\MountPoints\MountPoint-FSRV01
Volume
Manual replica creation pending
-
Details: D:\MountPoints\MountPoint-FSRV01
Status: Manual replica creation pending
Replica path: Click to view details
Latest recovery point: -
Oldest recovery point: -
Total recovery points: 0
Storage consumed: 0 KB


Details of Replica Path
Protected member: D:\MountPoints\MountPoint-FSRV01
Source (Protected server)
Destination (DPM server)
D:\MountPoints\MountPoint-FSRV01 on FSRV01.VIRT.LAB
D:\Program Files\Microsoft System Center\DPM\DPM
Note- You can copy the list view text for reference.
While setting up protection if you had opted for manually loading the replica, click on Help to learn about exact steps involved in doing that.
Close
Help

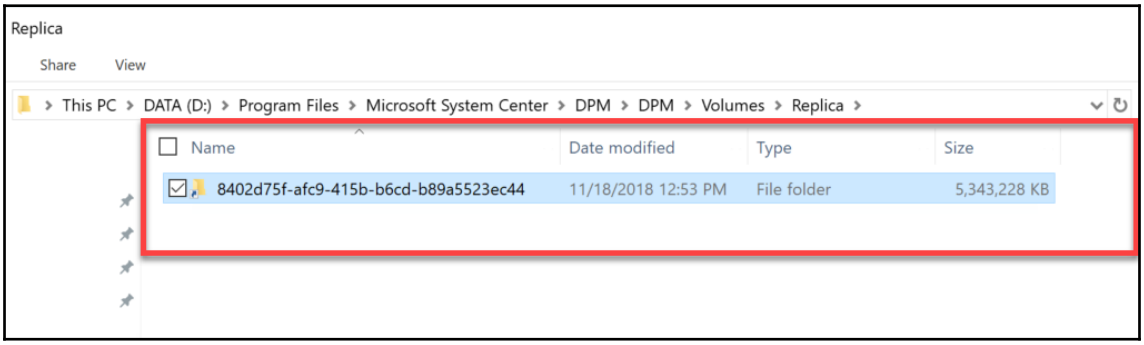

Details of Replica Path
Protected member: D:\MountPoints\MountPoint-FSRV01
Source (Protected server)
Destination (DPM server)
D:\MountPoints\MountPoint-FSRV01 on FSRV01.VIRT.LAB
Copy
Note- You can copy the list view text for reference.
While setting up protection if you had opted for manually loading the replica, click on Help to learn about exact steps involved in doing that.
Close
Help


Untitled - Notepad
File Edit Format View Help
DPM Installation Folder: D:\Program Files\Microsoft System Center\DPM\DPM\Volumes\Replica\
Physical Replica ID: 8402d75f-afc9-415b-b6cd-b89a5523ec44\
Datasource ID: 0e3f5e03-7175-4957-be83-2396481f1465\
Path: Full\
Windows (CRLF)
Ln 2, Col 1
100%

```
CharbelNemnom.com #> $PG = Get-DPMProtectionGroup | Where-Object Name -like "*File Server*"
CharbelNemnom.com #> $PG

Name                          ProtectionMethod
----                          ----------------
File Server Protection Group Short-term using disk


CharbelNemnom.com #> _
```

```
CharbelNemnom.com #> Get-DPMDatasource -ProtectionGroup $PG

Computer Name                           ObjectType
-------- ----                           ----------
FSRV01   D:\MountPoints\MountPoint-FSRV01 Volume
FSRV01   D:\                            Volume


CharbelNemnom.com #> $DS = Get-DPMDatasource -ProtectionGroup $PG | Where-Object Name -Like "*MountPoints*"
CharbelNemnom.com #> $DS

Computer Name                           ObjectType
-------- ----                           ----------
FSRV01   D:\MountPoints\MountPoint-FSRV01 Volume
```

```
CharbelNemnom.com #> Start-DPMManualReplicaCreation -Datasource $DS
Replica volume for datasource D:\MountPoints\MountPoint-FSRV01 has been mounted at D:\Program Files\Microsoft System Cen
ter\DPM\DPM\Volumes\Replica\8402d75f-afc9-415b-b6cd-b89a5523ec44. Copy the datasource's data on the volume and then run
Stop-DPMManualReplicaCreation cmdlet.
CharbelNemnom.com #> _
```



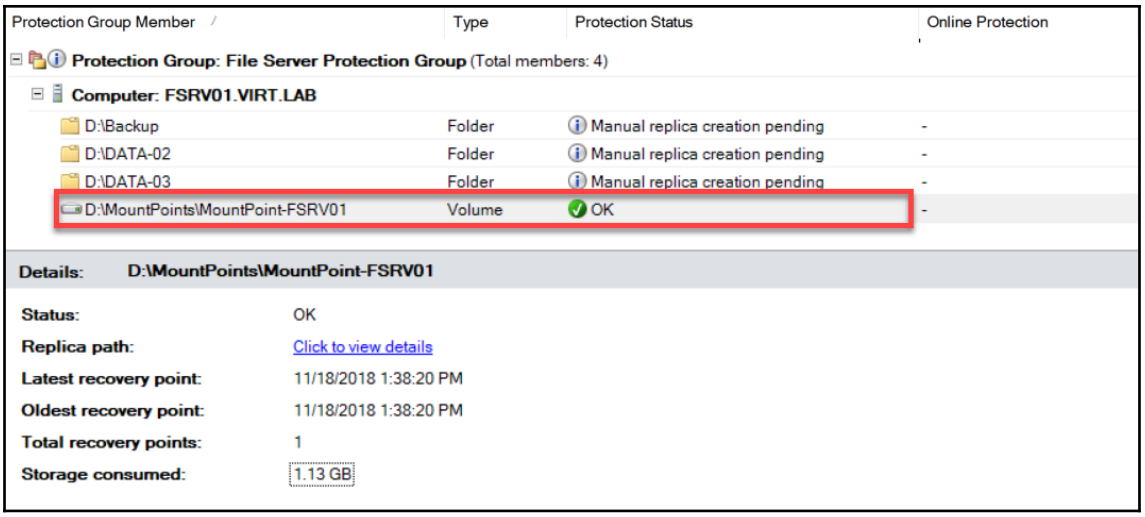
```
Administrator: Command Prompt

D:\Program Files\Microsoft System Center\DPM\DPM\Volumes\Replica>tree
Folder PATH listing for volume DATA
Volume serial number is 902A-21E4
D:.
└───8402d75f-afc9-415b-b6cd-b89a5523ec44
    └───0e3f5e03-7175-4957-be83-2396481f1465
        └───Full

D:\Program Files\Microsoft System Center\DPM\DPM\Volumes\Replica>
```

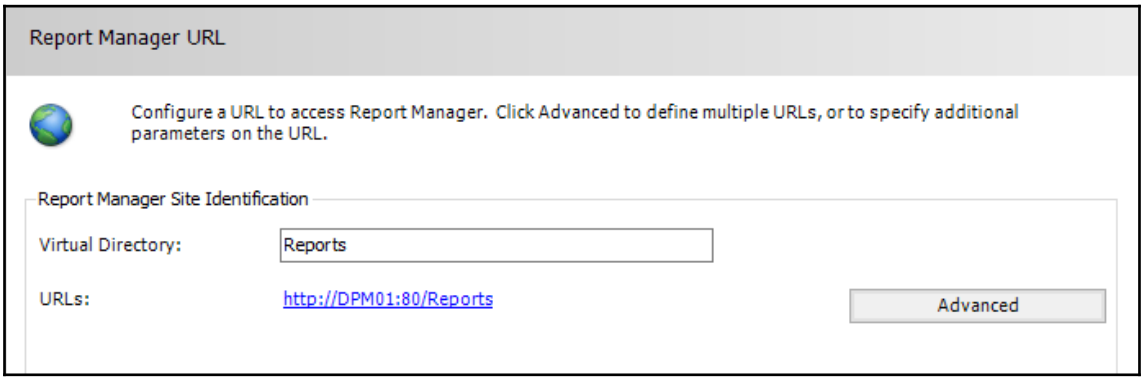
```
CharbelNemnom.com #> Get-ChildItem -Recurse -Path D:\MountPoints\MountPoint-FSRV01\  | FT FullName

FullName
--------
D:\MountPoints\MountPoint-FSRV01\Sub-mountpoint
D:\MountPoints\MountPoint-FSRV01\BRK1000 - What's new in Microsoft Project.mp4
D:\MountPoints\MountPoint-FSRV01\BRK1001 - Driving success with Project Online.mp4
D:\MountPoints\MountPoint-FSRV01\BRK1025 - Preparing for IoT in IT- Microsoft's IoT Vision and Roadmap.mp4
D:\MountPoints\MountPoint-FSRV01\BRK1026 - Getting started with Microsoft Azure and Azure Portal.mp4


CharbelNemnom.com #>
```

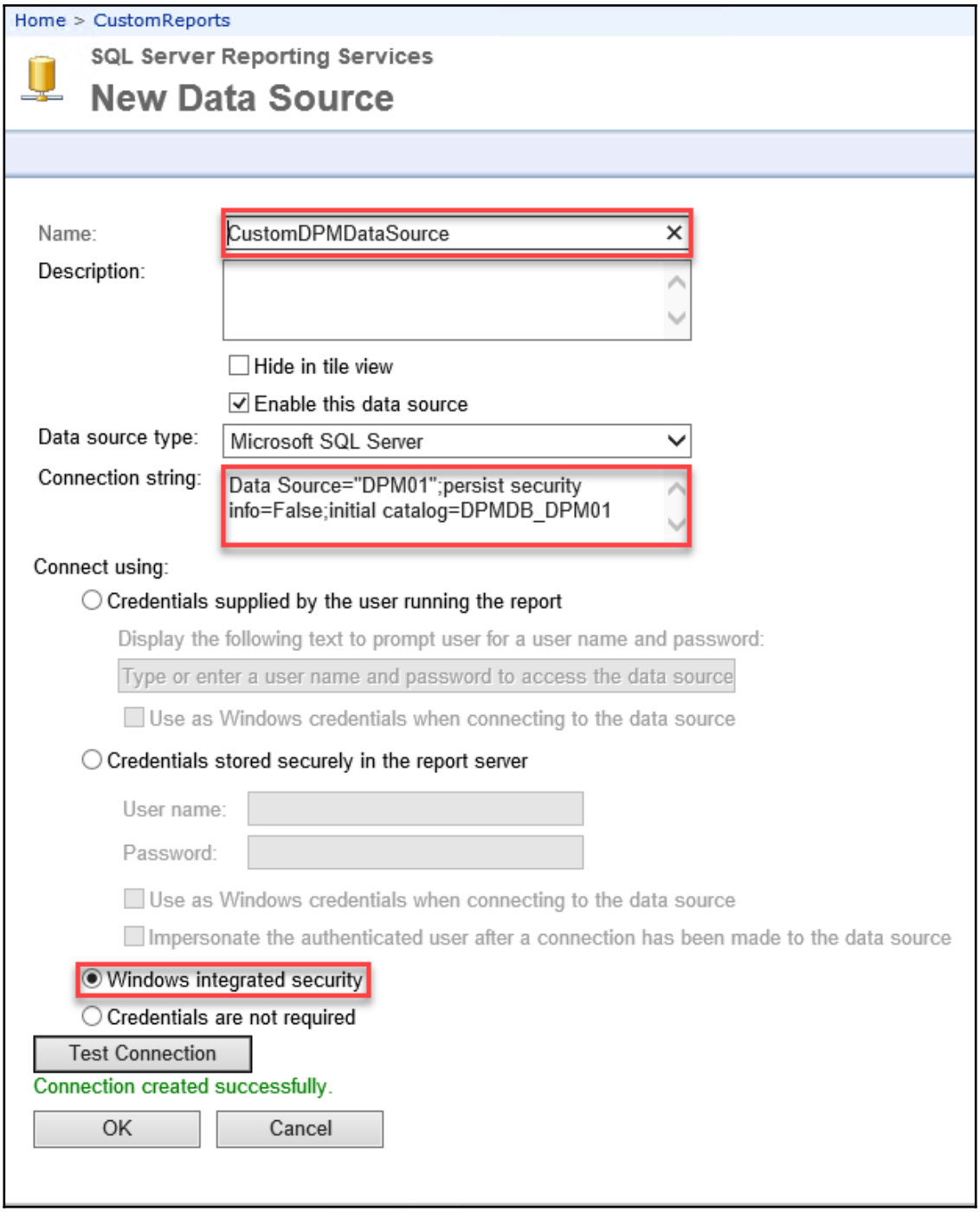
/olumes\Replica\8402d75f-afc9-415b-b6cd-b89a5523ec44\0e3f5e03-7175-4957-be83-2396481f1465\Full\MountPoints\MountPoint-FSRV01

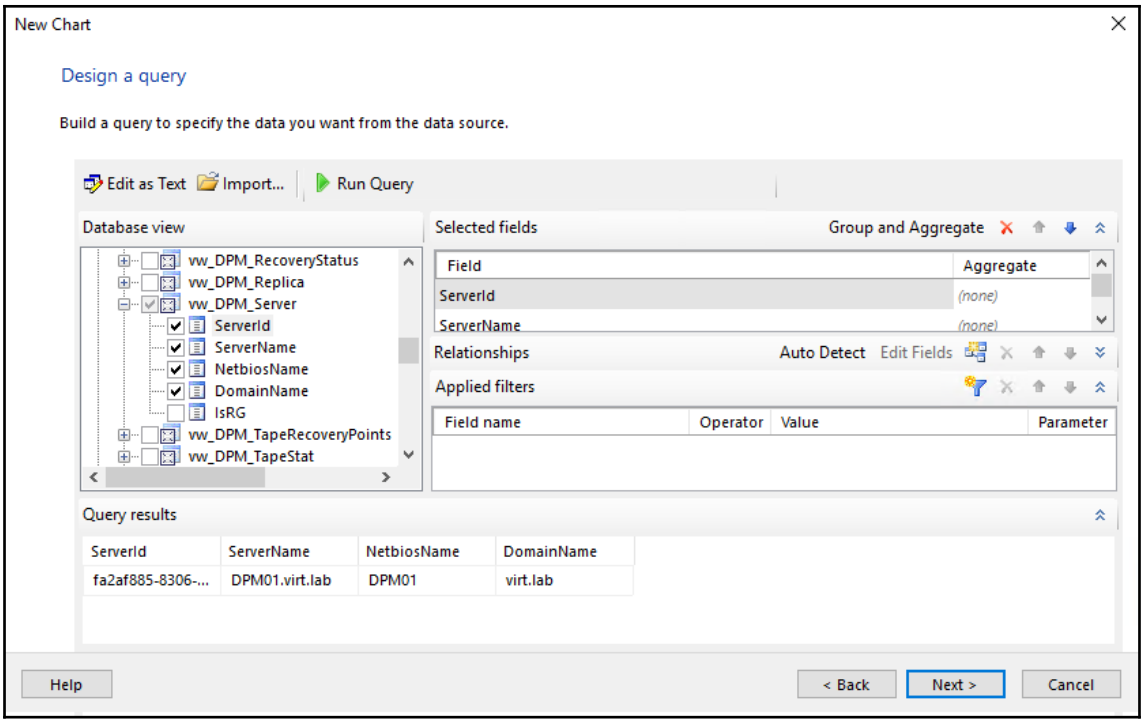
Name	Date modified	Type	Size
Sub-mountpoint	11/18/2018 1:28 PM	File folder	
BRK1000 - What's new in Microsoft Project.mp4	9/28/2018 9:33 PM	MP4 Video	217,266 KB
BRK1001 - Driving success with Project Online.mp4	9/28/2018 7:09 PM	MP4 Video	291,939 KB
BRK1025 - Preparing for IoT in IT- Microsoft's IoT Vision and Roadmap.mp4	10/5/2018 10:14 PM	MP4 Video	149,791 KB
BRK1026 - Getting started with Microsoft Azure and Azure Portal.mp4	9/28/2018 7:12 PM	MP4 Video	368,733 KB

```
CharbelNemnom.com #> Stop-DPMManualReplicaCreation -Datasource $DS
Replica volume for datasource D:\MountPoints\MountPoint-FSRV01 dismounted successfully. Run a consistency check job to s
tart scheduled backups.
CharbelNemnom.com #>
```

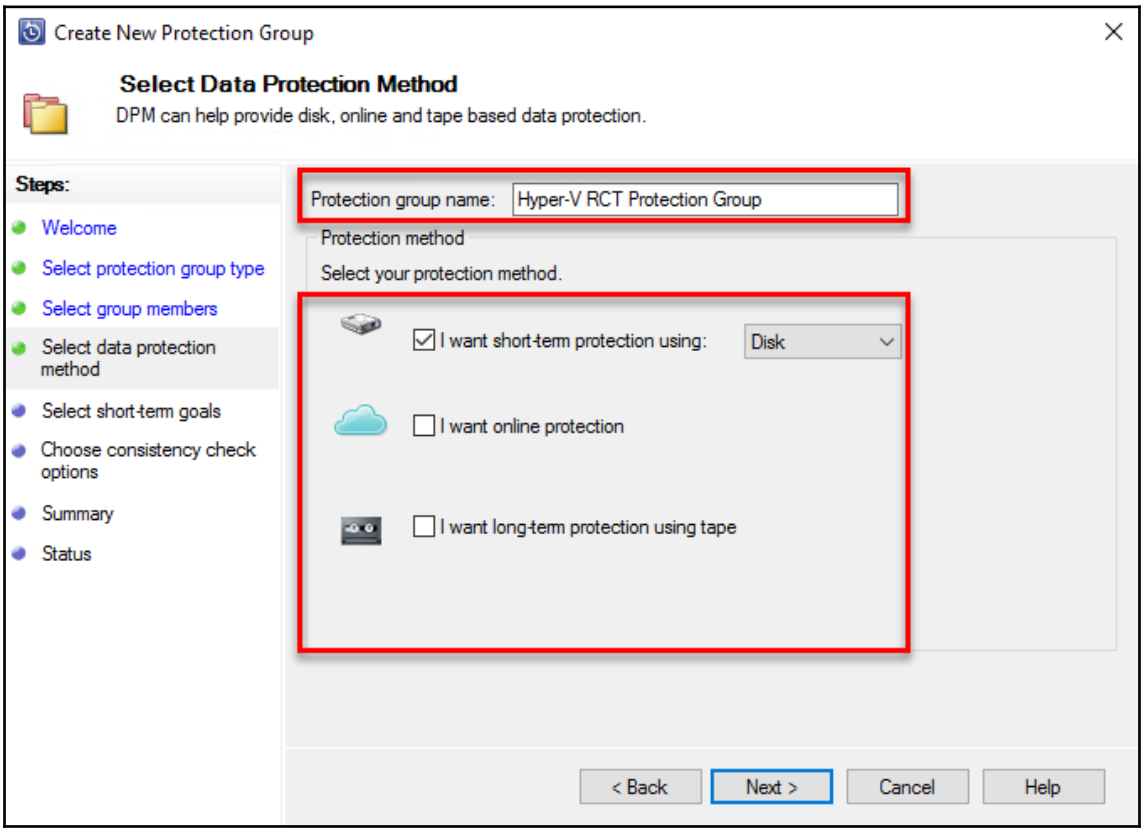

Protection Group Member
Type
Protection Status
Online Protection
Protection Group: File Server Protection Group (Total members: 4)
Computer: FSRV01.VIRT.LAB
D:\Backup
Folder
Manual replica creation pending
D:\DATA-02
Folder
Manual replica creation pending
D:\DATA-03
Folder
Manual replica creation pending
D:\MountPoints\MountPoint-FSRV01
Volume
OK
Details: D:\MountPoints\MountPoint-FSRV01
Status: OK
Replica path: Click to view details
Latest recovery point: 11/18/2018 1:38:20 PM
Oldest recovery point: 11/18/2018 1:38:20 PM
Total recovery points: 1
Storage consumed: 1.13 GB

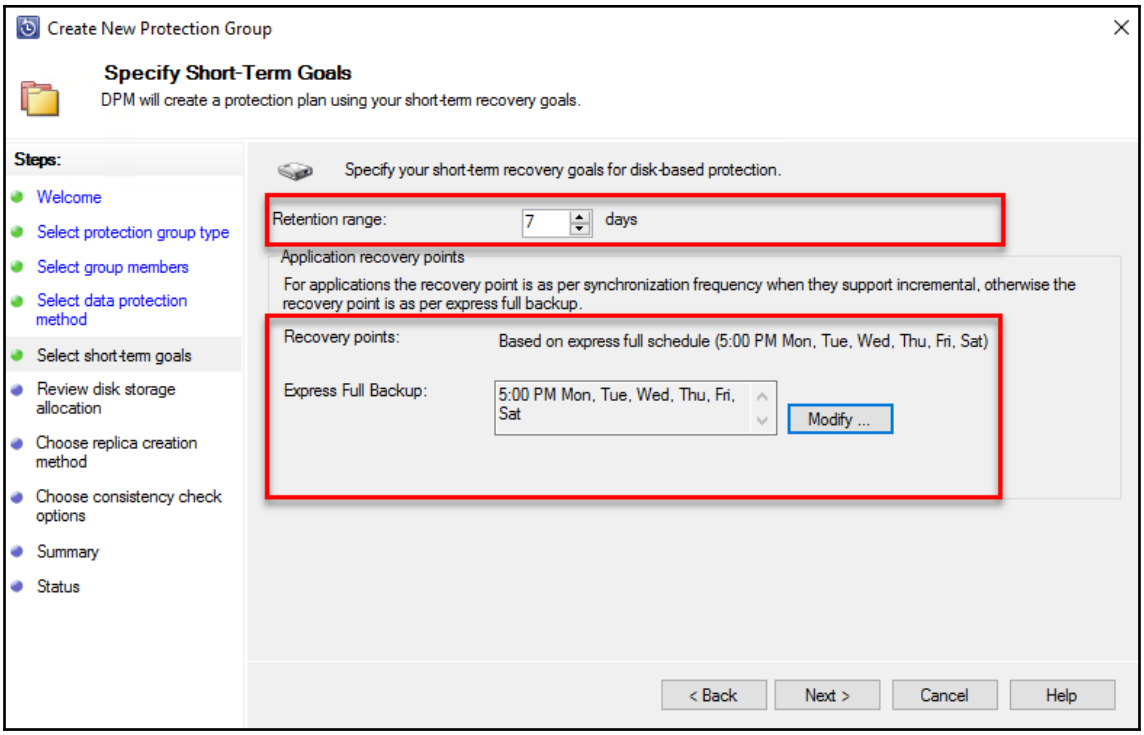

Report Manager URL
Configure a URL to access Report Manager. Click Advanced to define multiple URLs, or to specify additional parameters on the URL.
Report Manager Site Identification
Virtual Directory:
Reports
URLs:
http://DPM01:80/Reports
Advanced

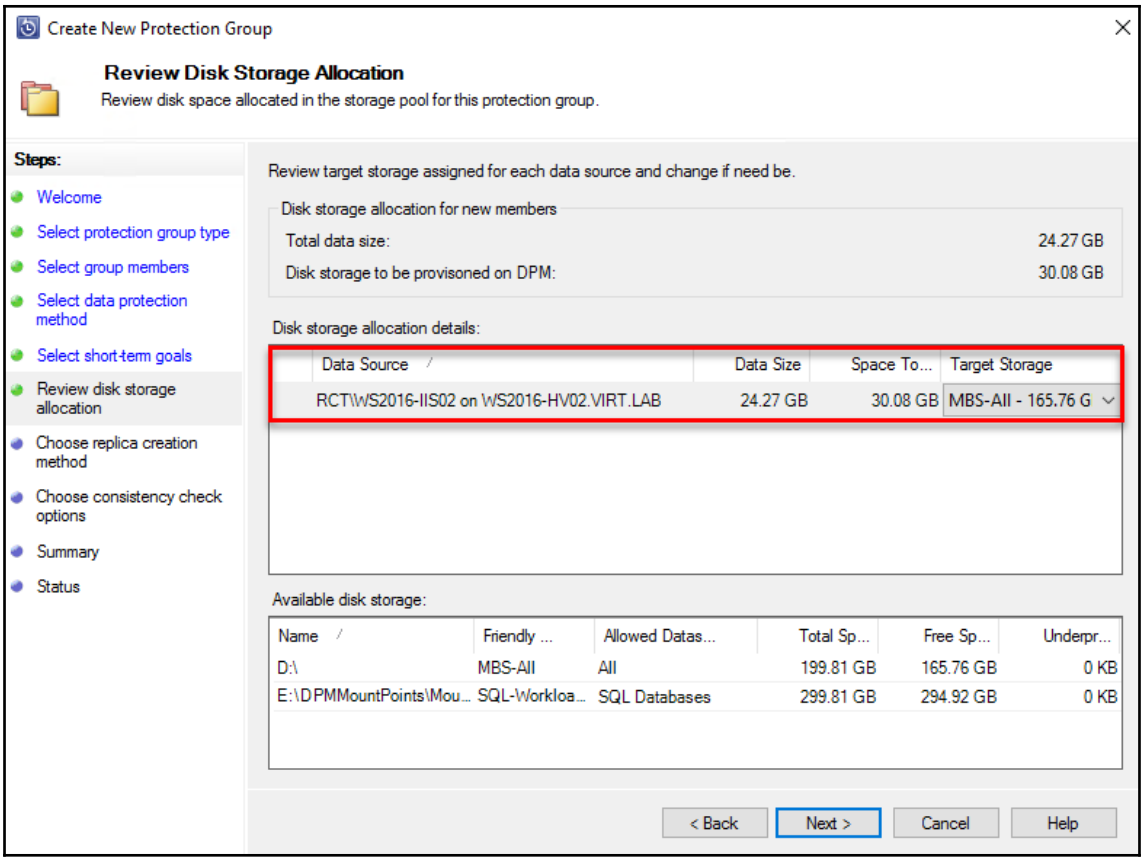

Home > CustomReports
SQL Server Reporting Services
New Data Source
Name:
CustomDPMDataSource
Description:
Hide in tile view
Enable this data source
Data source type:
Microsoft SQL Server
Connection string:
Data Source="DPM01";persist security info=False;initial catalog=DPMDB_DPM01
Connect using:
Credentials supplied by the user running the report
Display the following text to prompt user for a user name and password:
Type or enter a user name and password to access the data source
Use as Windows credentials when connecting to the data source
Credentials stored securely in the report server
User name:
Password:
Use as Windows credentials when connecting to the data source
Impersonate the authenticated user after a connection has been made to the data source
Windows integrated security
Credentials are not required
Test Connection
Connection created successfully.
OK
Cancel

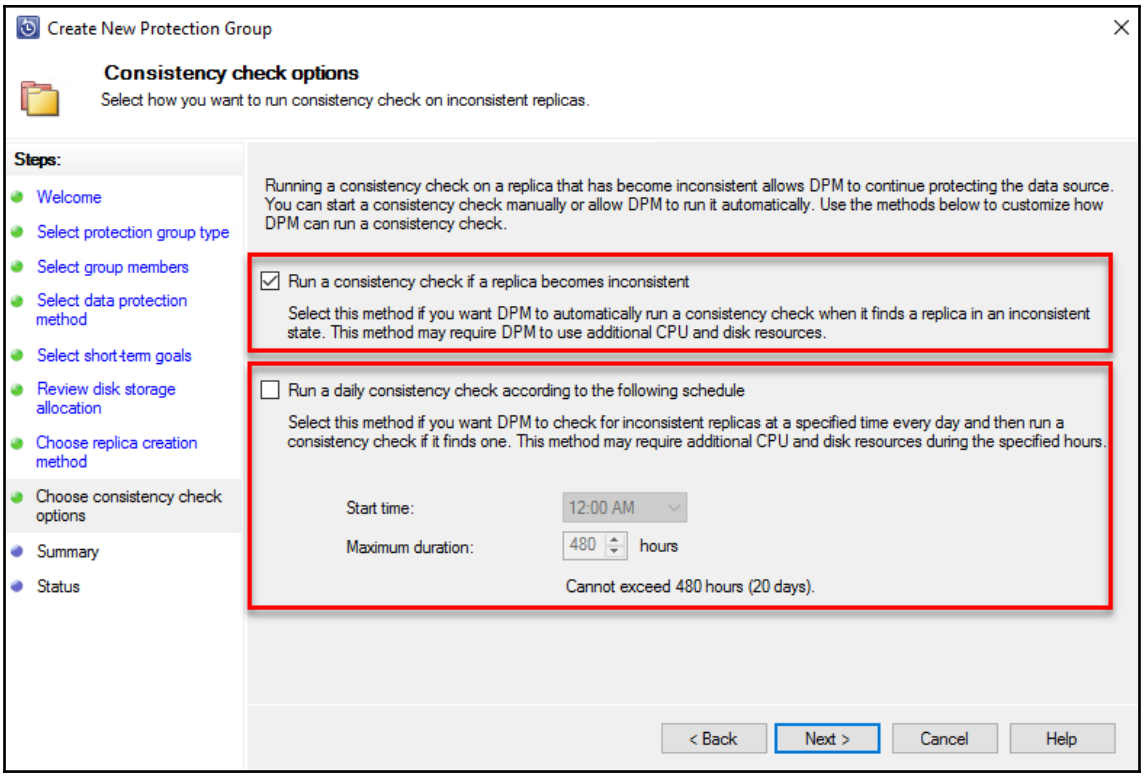

New Chart
Design a query
Build a query to specify the data you want from the data source.
Edit as Text
Import...
Run Query
Database view
vw_DPM_RecoveryStatus
vw_DPM_Replica
vw_DPM_Server
ServerId
ServerName
NetbiosName
DomainName
IsRG
vw_DPM_TapeRecoveryPoints
vw_DPM_TapeStat
Selected fields
Group and Aggregate
Field
Aggregate
ServerId
(none)
ServerName
(none)
Relationships
Auto Detect
Edit Fields
Applied filters
Field name
Operator
Value
Parameter
Query results
ServerId
ServerName
NetbiosName
DomainName
fa2af885-8306-...
DPM01.virt.lab
DPM01
virt.lab
Help
< Back
Next >
Cancel

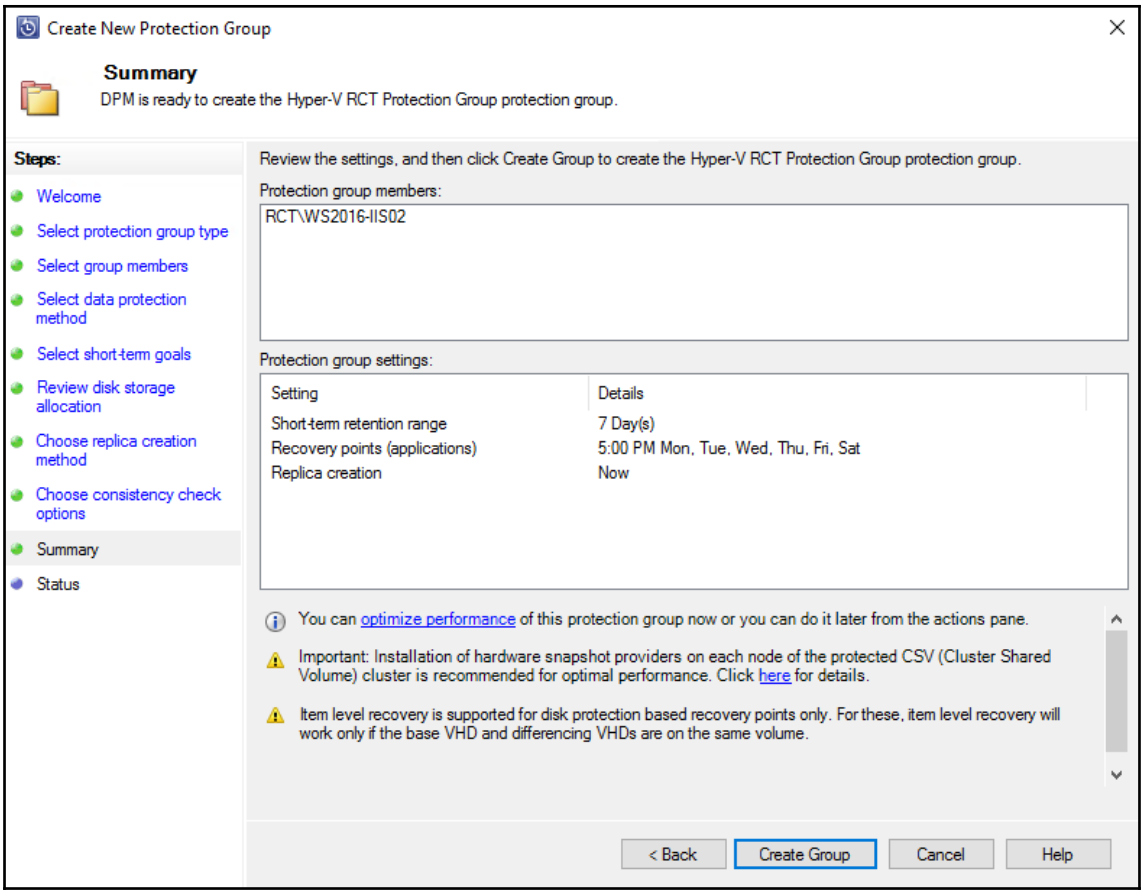
Chapter 3: Protecting Hyper-V VMs

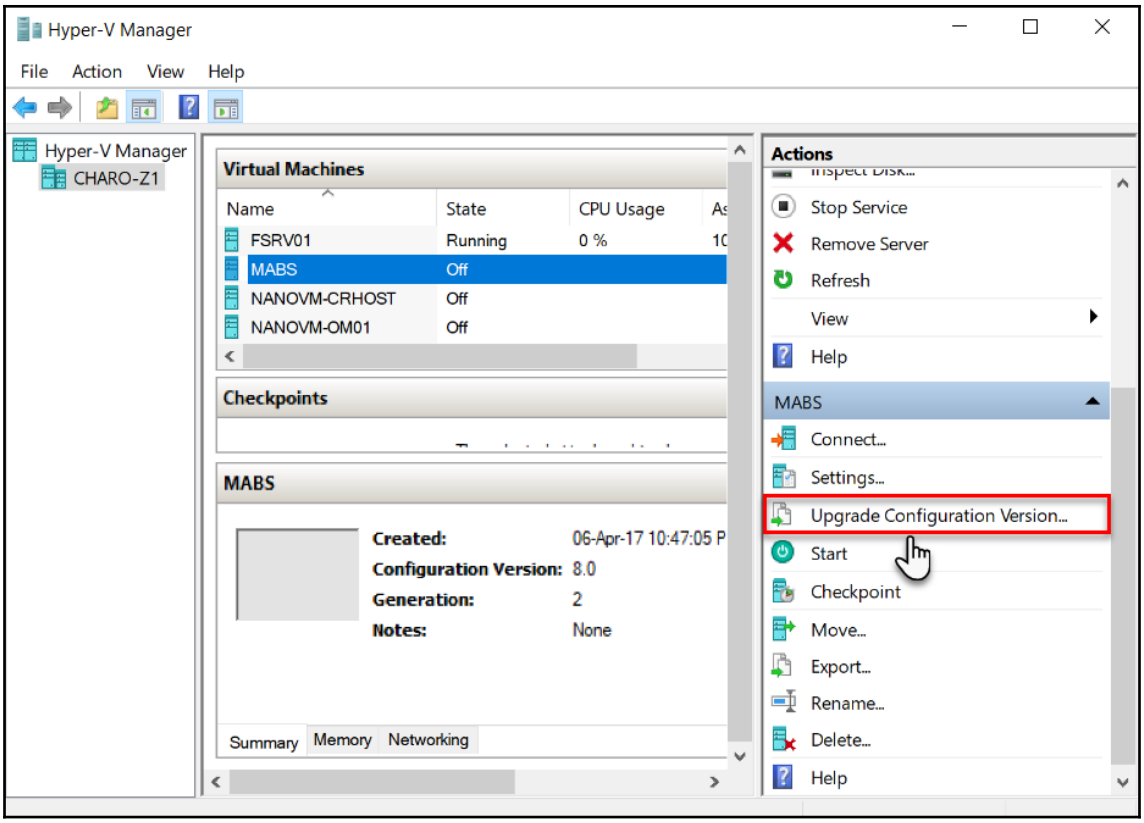


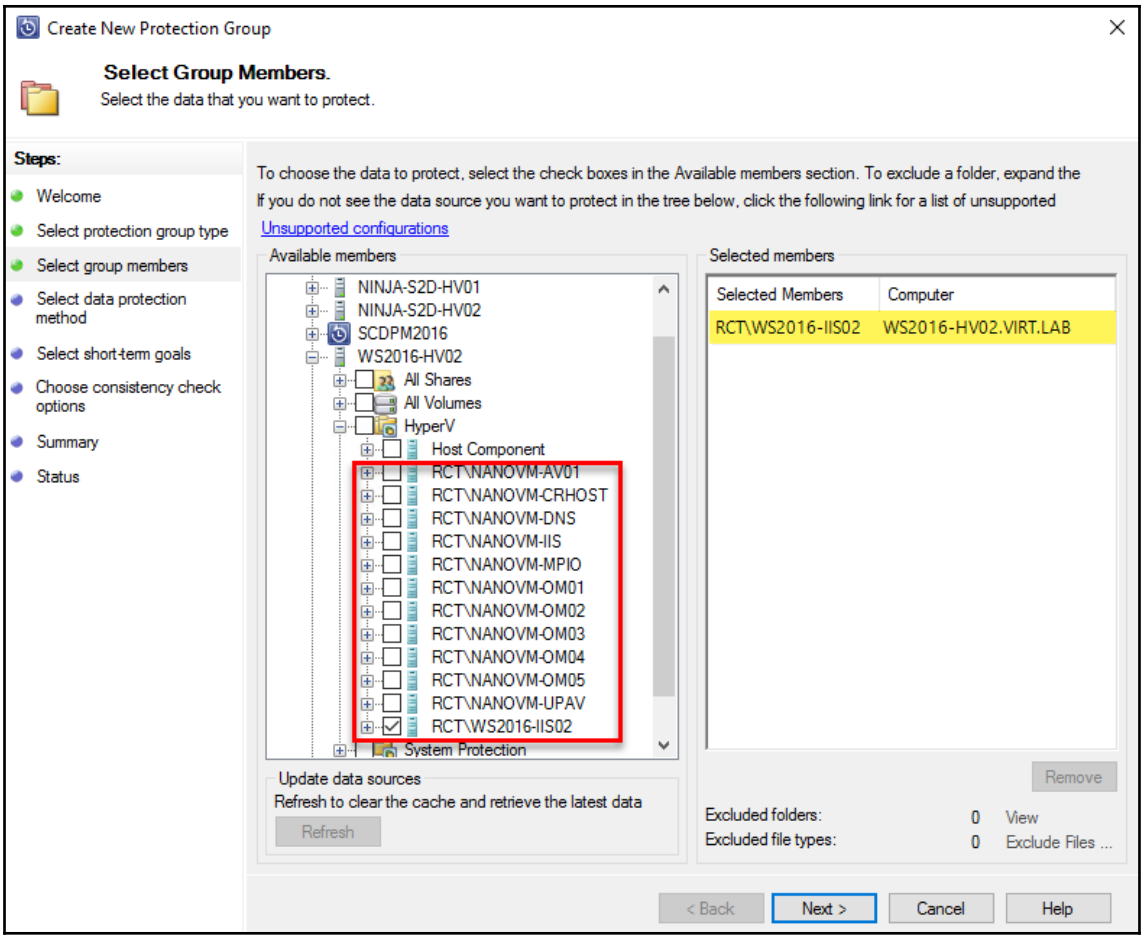

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
7
days
Application recovery points
For applications the recovery point is as per synchronization frequency when they support incremental, otherwise the recovery point is as per express full backup.
Recovery points:
Based on express full schedule (5:00 PM Mon, Tue, Wed, Thu, Fri, Sat)
Express Full Backup:
5:00 PM Mon, Tue, Wed, Thu, Fri, Sat
Modify ...
< Back
Next >
Cancel
Help

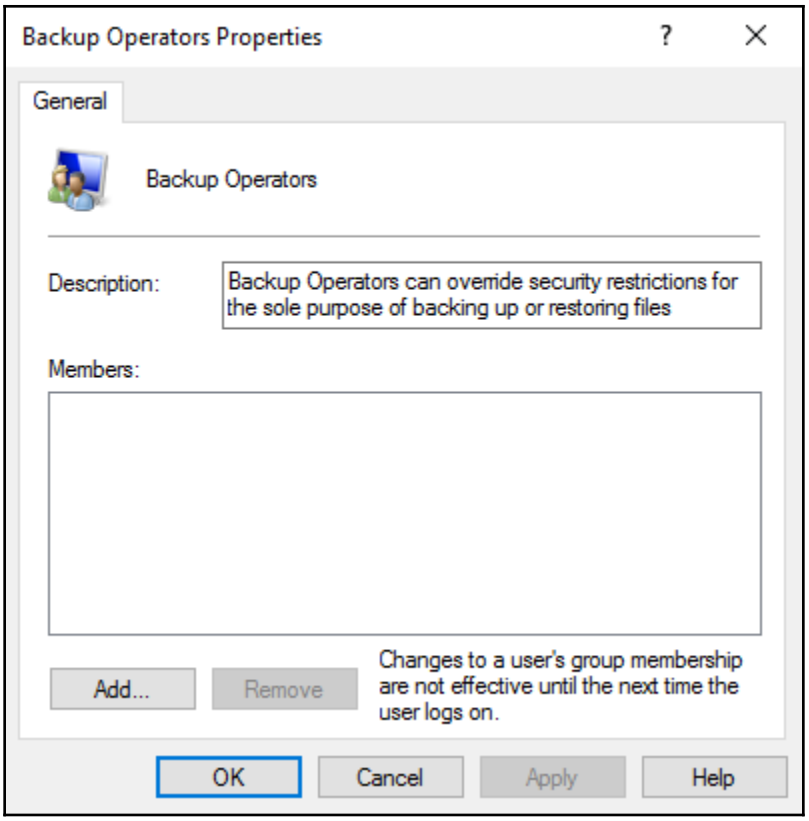

Create New Protection Group
Review Disk Storage Allocation
Review disk space allocated in the storage pool for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review target storage assigned for each data source and change if need be.
Disk storage allocation for new members
Total data size:
24.27 GB
Disk storage to be provisoned on DPM:
30.08 GB
Disk storage allocation details:
Data Source
Data Size
Space To...
Target Storage
RCT\WS2016-IIS02 on WS2016-HV02.VIRT.LAB
24.27 GB
30.08 GB
MBS-All - 165.76 G
Available disk storage:
Name
Friendly ...
Allowed Datas...
Total Sp...
Free Sp...
Underpr...
D:\
MBS-All
All
199.81 GB
165.76 GB
0 KB
E:\DPMMountPoints\Mou...
SQL-Workloa...
SQL Databases
299.81 GB
294.92 GB
0 KB
< Back
Next >
Cancel
Help

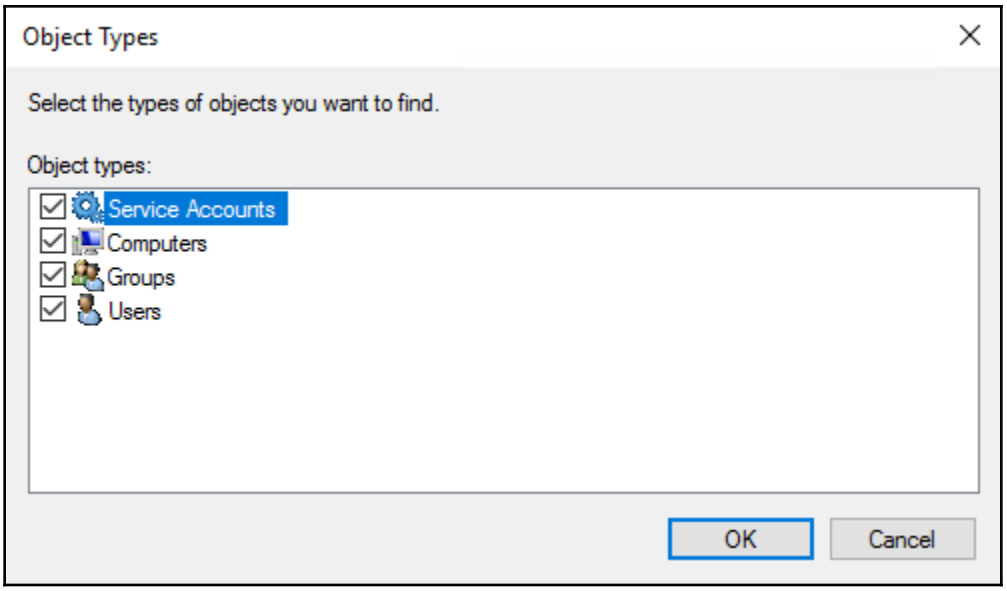

Create New Protection Group
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Running a consistency check on a replica that has become inconsistent allows DPM to continue protecting the data source. You can start a consistency check manually or allow DPM to run it automatically. Use the methods below to customize how DPM can run a consistency check.
Run a consistency check if a replica becomes inconsistent
Select this method if you want DPM to automatically run a consistency check when it finds a replica in an inconsistent state. This method may require DPM to use additional CPU and disk resources.
Run a daily consistency check according to the following schedule
Select this method if you want DPM to check for inconsistent replicas at a specified time every day and then run a consistency check if it finds one. This method may require additional CPU and disk resources during the specified hours.
Start time:
12:00 AM
Maximum duration:
480
hours
Cannot exceed 480 hours (20 days).
< Back
Next >
Cancel
Help

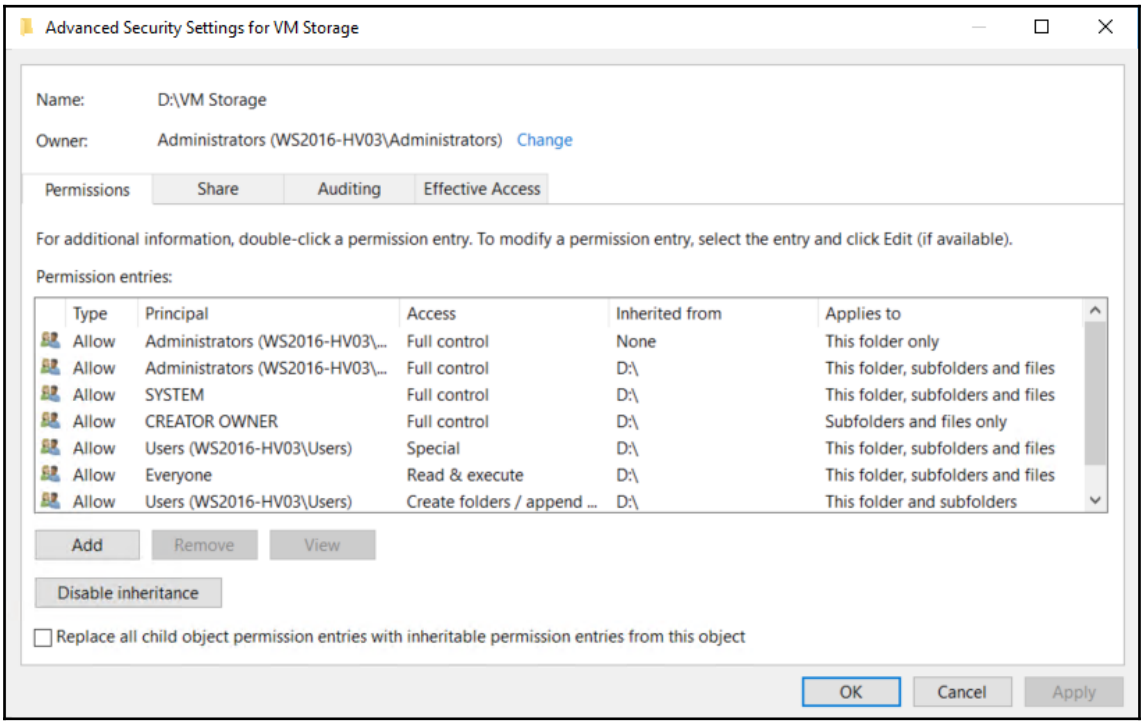

Create New Protection Group
Summary
DPM is ready to create the Hyper-V RCT Protection Group protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review the settings, and then click Create Group to create the Hyper-V RCT Protection Group protection group.
Protection group members:
RCT\WS2016-IIS02
Protection group settings:
Setting
Details
Short-term retention range
7 Day(s)
Recovery points (applications)
5:00 PM Mon, Tue, Wed, Thu, Fri, Sat
Replica creation
Now
You can optimize performance of this protection group now or you can do it later from the actions pane.
Important: Installation of hardware snapshot providers on each node of the protected CSV (Cluster Shared Volume) cluster is recommended for optimal performance. Click here for details.
Item level recovery is supported for disk protection based recovery points only. For these, item level recovery will work only if the base VHD and differencing VHDs are on the same volume.
< Back
Create Group
Cancel
Help

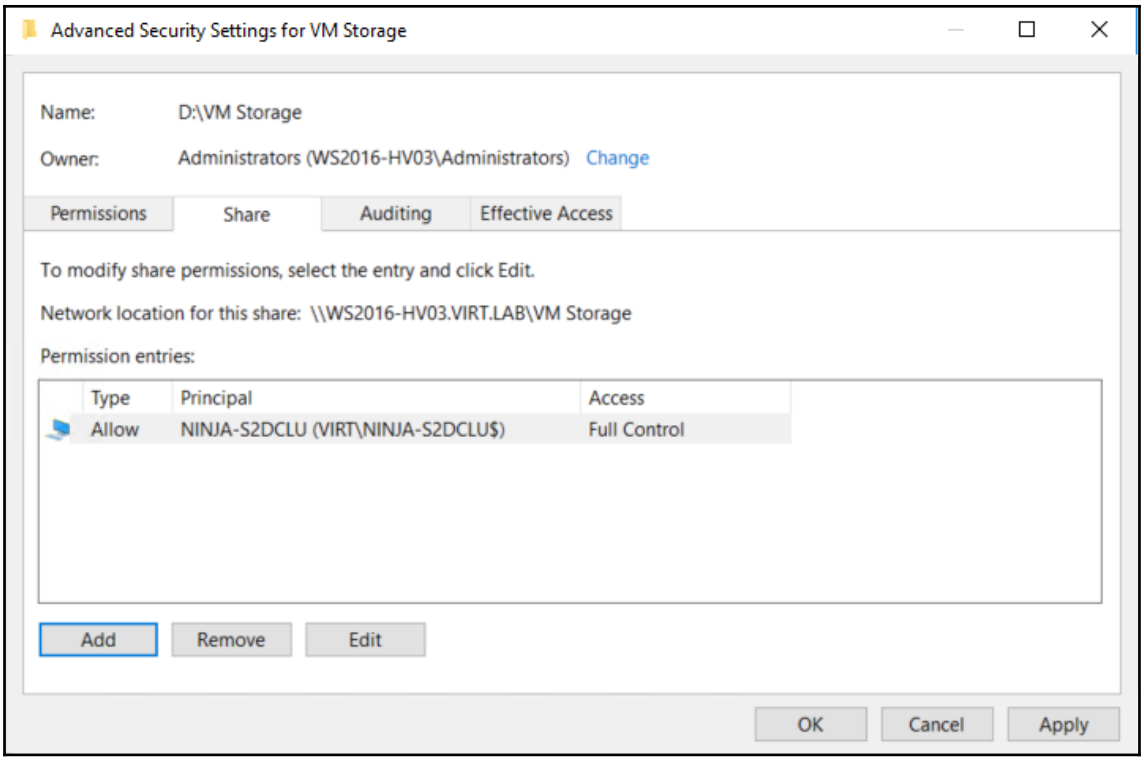

Hyper-V Manager
File Action View Help
Hyper-V Manager
CHARO-Z1
Virtual Machines
Name State CPU Usage
FSRV01 Running 0 %
MABS Off
NANOVM-CRHOST Off
NANOVM-OM01 Off
Checkpoints
MABS
Created: 06-Apr-17 10:47:05 P
Configuration Version: 8.0
Generation: 2
Notes: None
Summary Memory Networking
Actions
Stop Service
Remove Server
Refresh
View
Help
MABS
Connect...
Settings...
Upgrade Configuration Version...
Start
Checkpoint
Move...
Export...
Rename...
Delete...
Help

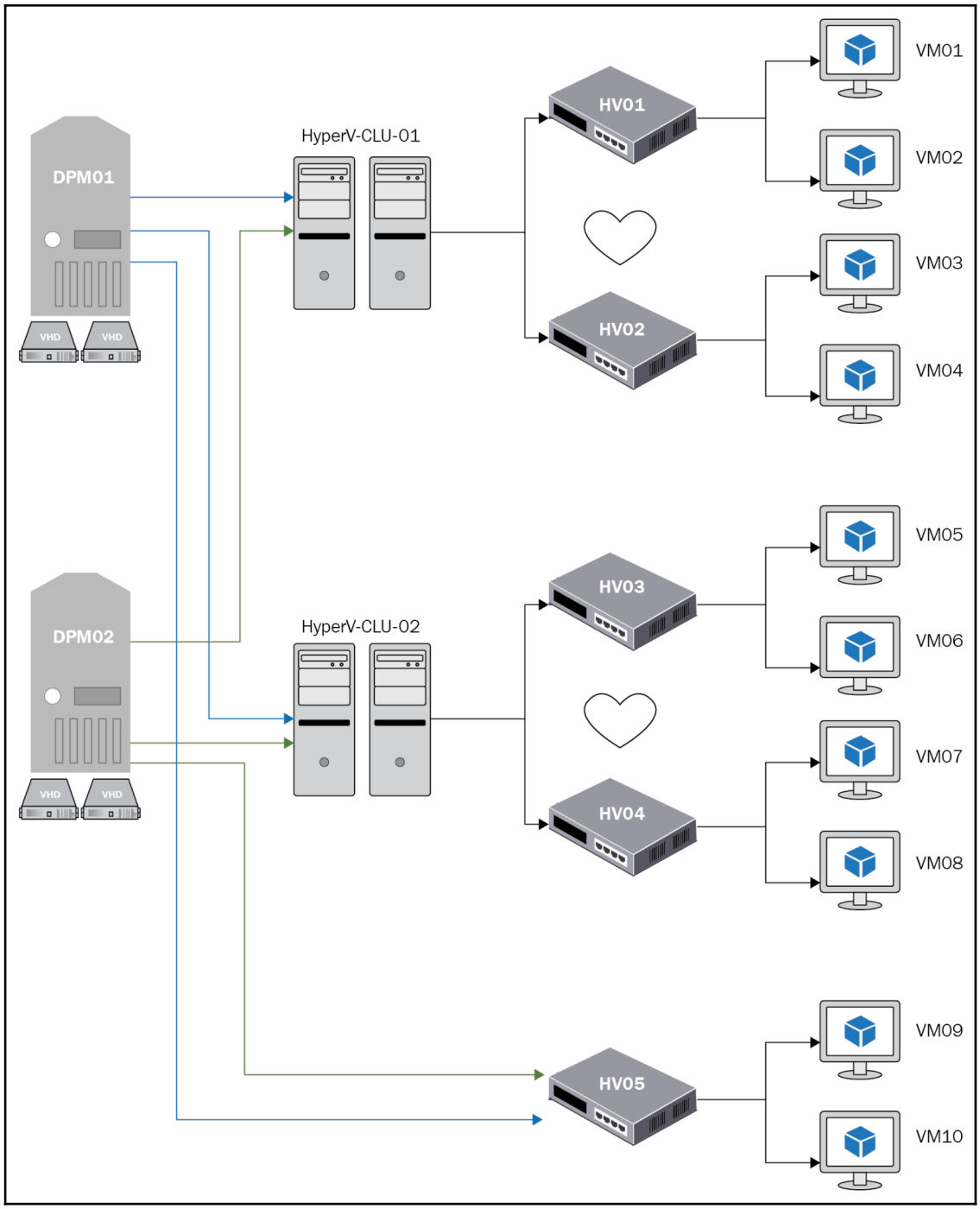

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported
Unsupported configurations
Available members
NINJA-S2D-HV01
NINJA-S2D-HV02
SCDPM2016
WS2016-HV02
All Shares
All Volumes
HyperV
Host Component
RCT\NANOVM-AV01
RCT\NANOVM-CRHOST
RCT\NANOVM-DNS
RCT\NANOVM-IIS
RCT\NANOVM-MPIO
RCT\NANOVM-OM01
RCT\NANOVM-OM02
RCT\NANOVM-OM03
RCT\NANOVM-OM04
RCT\NANOVM-OM05
RCT\NANOVM-UPAV
RCT\WS2016-IIS02
System Protection
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
RCT\WS2016-IIS02
WS2016-HV02.VIRT.LAB
Remove
Excluded folders:
0
View
Excluded file types:
0
Exclude Files ...
< Back
Next >
Cancel
Help

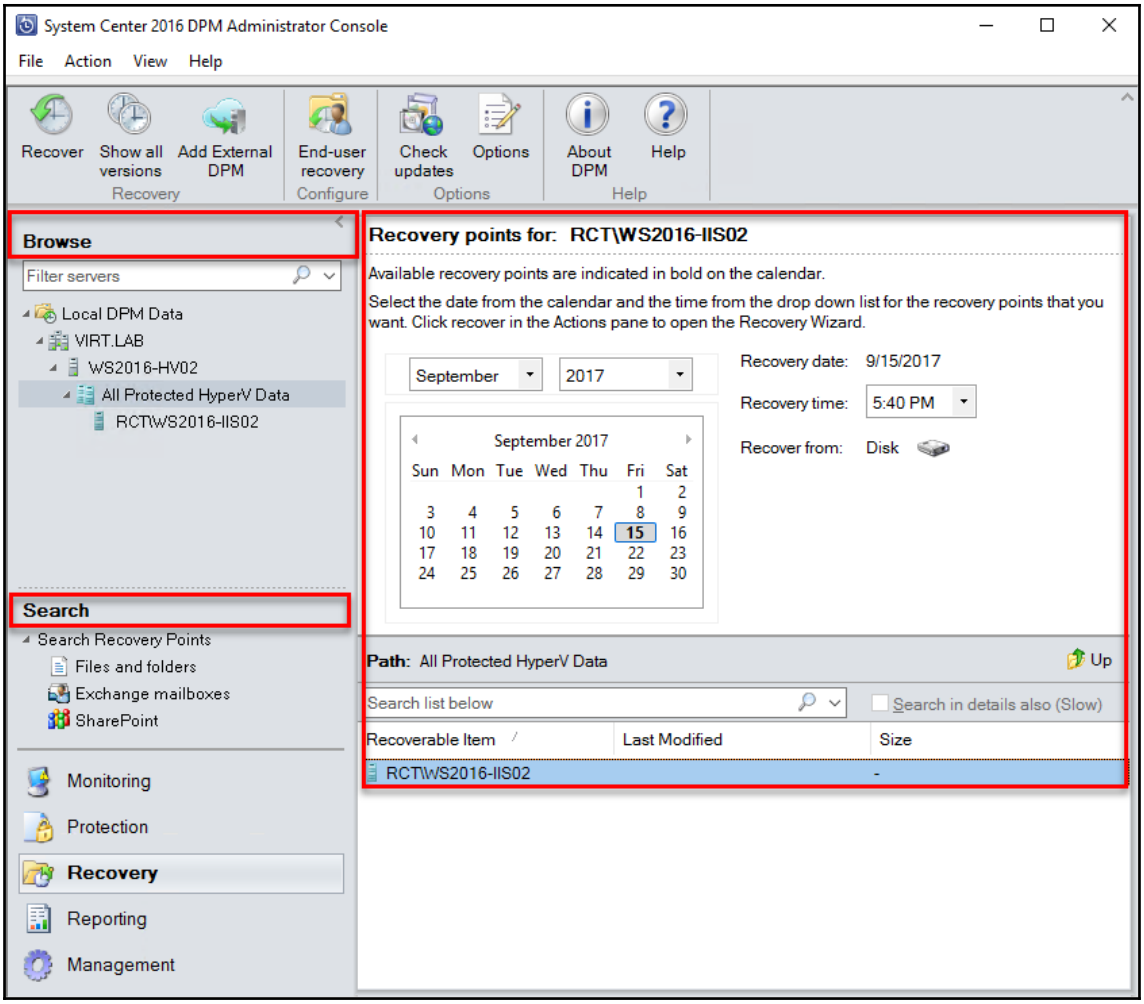

Backup Operators Properties
?
General
Backup Operators
Description:
Backup Operators can override security restrictions for the sole purpose of backing up or restoring files
Members:
Add...
Remove
Changes to a user's group membership are not effective until the next time the user logs on.
OK
Cancel
Apply
Help

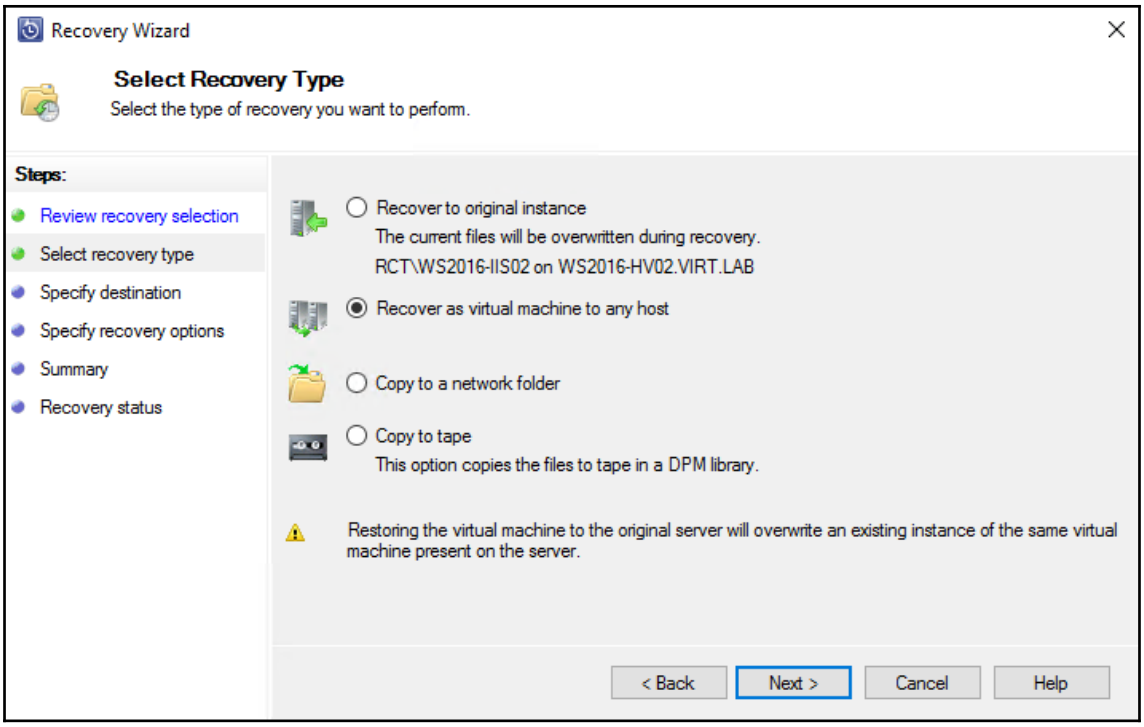

Object Types
Select the types of objects you want to find.
Object types:
Service Accounts
Computers
Groups
Users
OK
Cancel

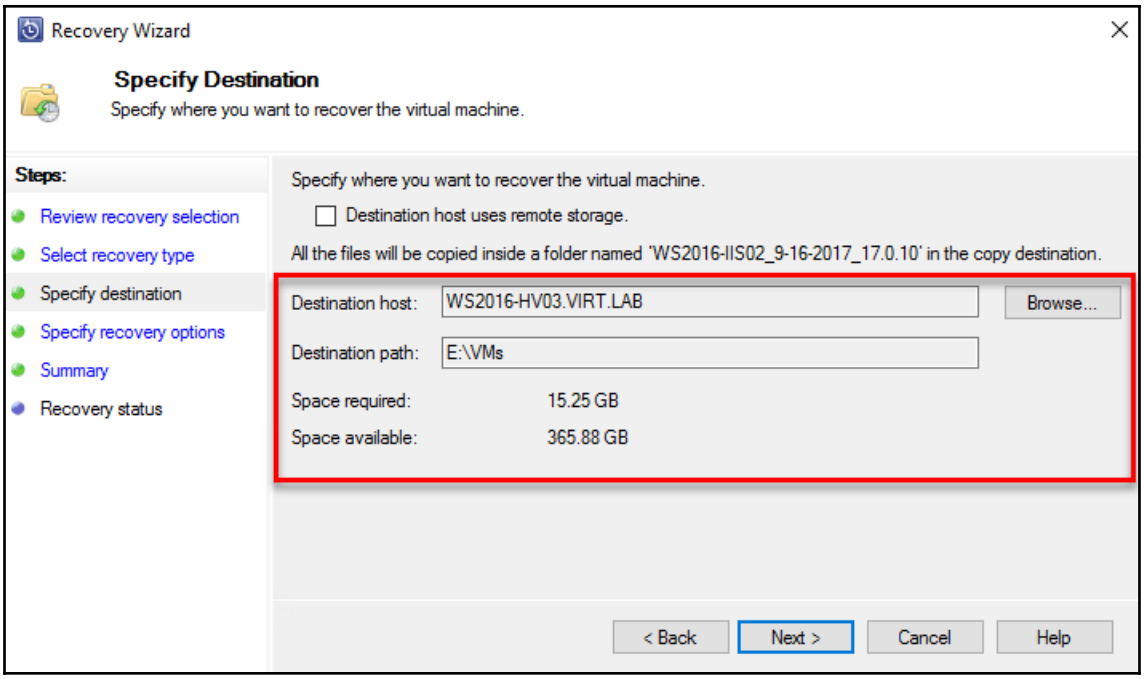

Advanced Security Settings for VM Storage
Name: D:\VM Storage
Owner: Administrators (WS2016-HV03\Administrators) Change
Permissions
Share
Auditing
Effective Access
For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).
Permission entries:
Type Principal Access Inherited from Applies to
Allow Administrators (WS2016-HV03\... Full control None This folder only
Allow Administrators (WS2016-HV03\... Full control D:\ This folder, subfolders and files
Allow SYSTEM Full control D:\ This folder, subfolders and files
Allow CREATOR OWNER Full control D:\ Subfolders and files only
Allow Users (WS2016-HV03\Users) Special D:\ This folder, subfolders and files
Allow Everyone Read & execute D:\ This folder, subfolders and files
Allow Users (WS2016-HV03\Users) Create folders / append ... D:\ This folder and subfolders
Add
Remove
View
Disable inheritance
Replace all child object permission entries with inheritable permission entries from this object
OK
Cancel
Apply

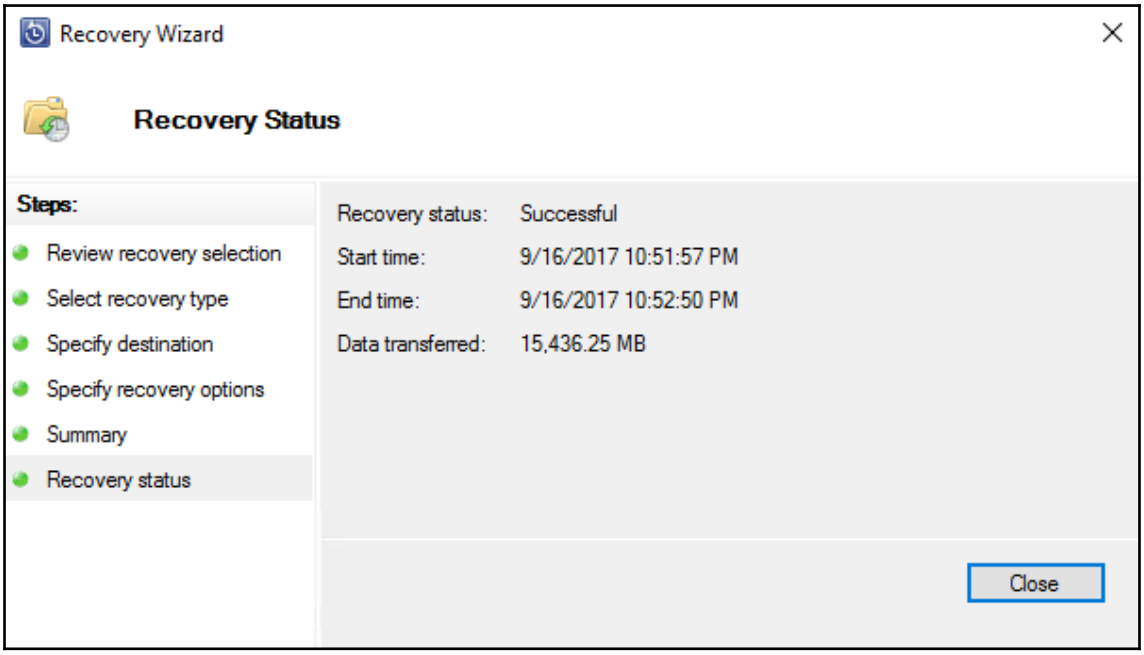

Advanced Security Settings for VM Storage
Name:
D:\VM Storage
Owner:
Administrators (WS2016-HV03\Administrators)
Change
Permissions
Share
Auditing
Effective Access
To modify share permissions, select the entry and click Edit.
Network location for this share: \\WS2016-HV03.VIRT.LAB\VM Storage
Permission entries:
Type
Principal
Access
Allow
NINJA-S2DCLU (VIRT\NINJA-S2DCLU$)
Full Control
Add
Remove
Edit
OK
Cancel
Apply

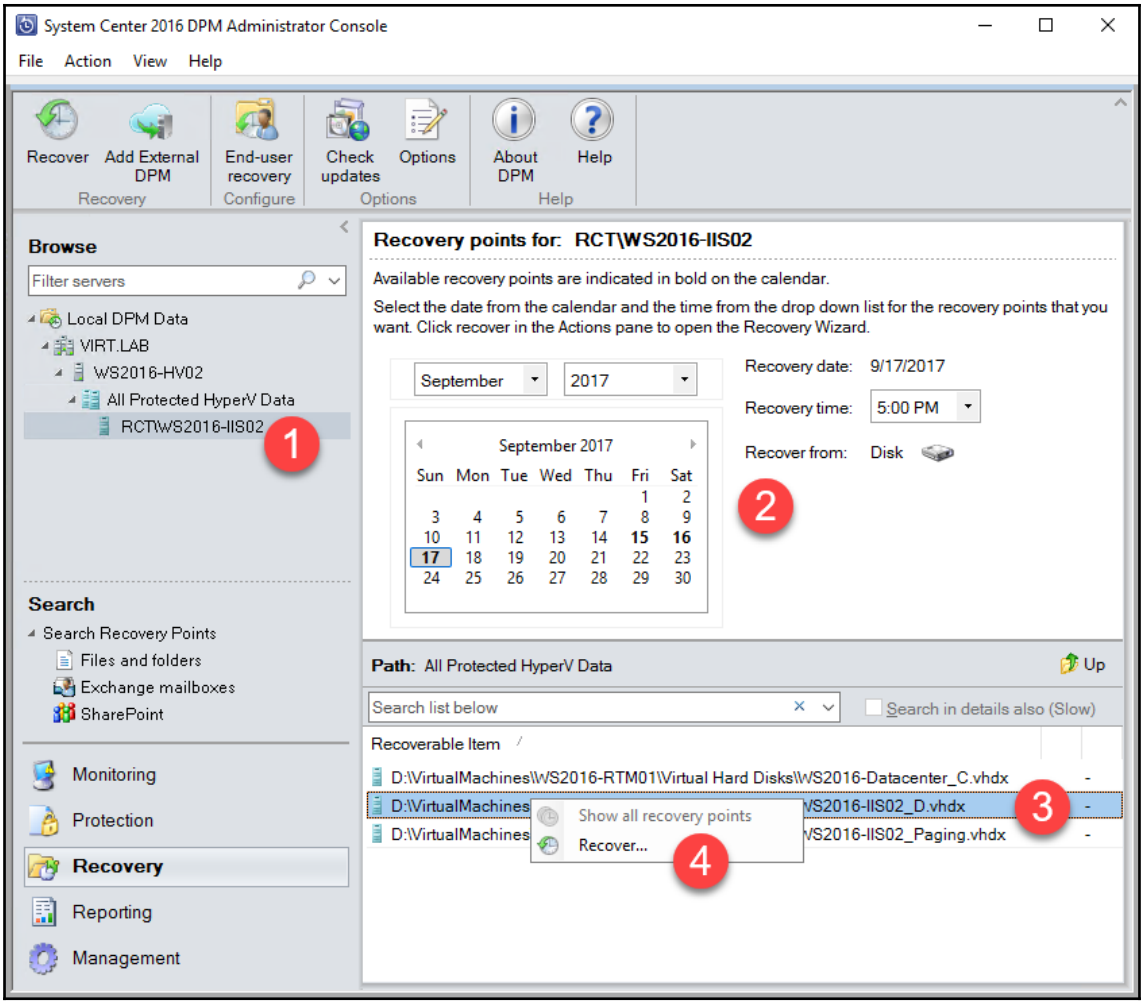

DPM01
VHD
VHD
HyperV-CLU-01
HV01
HV02
VM01
VM02
VM03
VM04
DPM02
VHD
VHD
HyperV-CLU-02
HV03
HV04
VM05
VM06
VM07
VM08
HV05
VM09
VM10

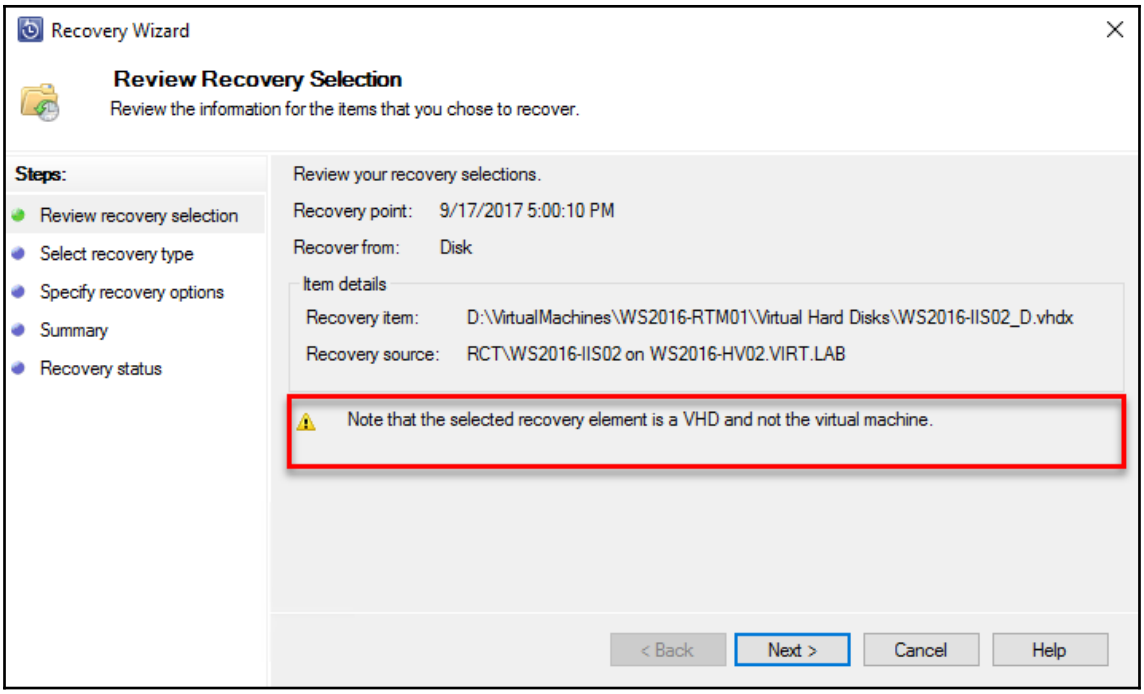

System Center 2016 DPM Administrator Console
File Action View Help
Recover
Show all versions
Add External DPM
Recovery
End-user recovery
Configure
Check updates
Options
Options
About DPM
Help
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
WS2016-HV02
All Protected HyperV Data
RCT\WS2016-IIS02
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: RCT\WS2016-IIS02
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
September
2017
September 2017
Sun Mon Tue Wed Thu Fri Sat
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
Recovery date: 9/15/2017
Recovery time: 5:40 PM
Recover from: Disk
Path: All Protected HyperV Data
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
RCT\WS2016-IIS02
-

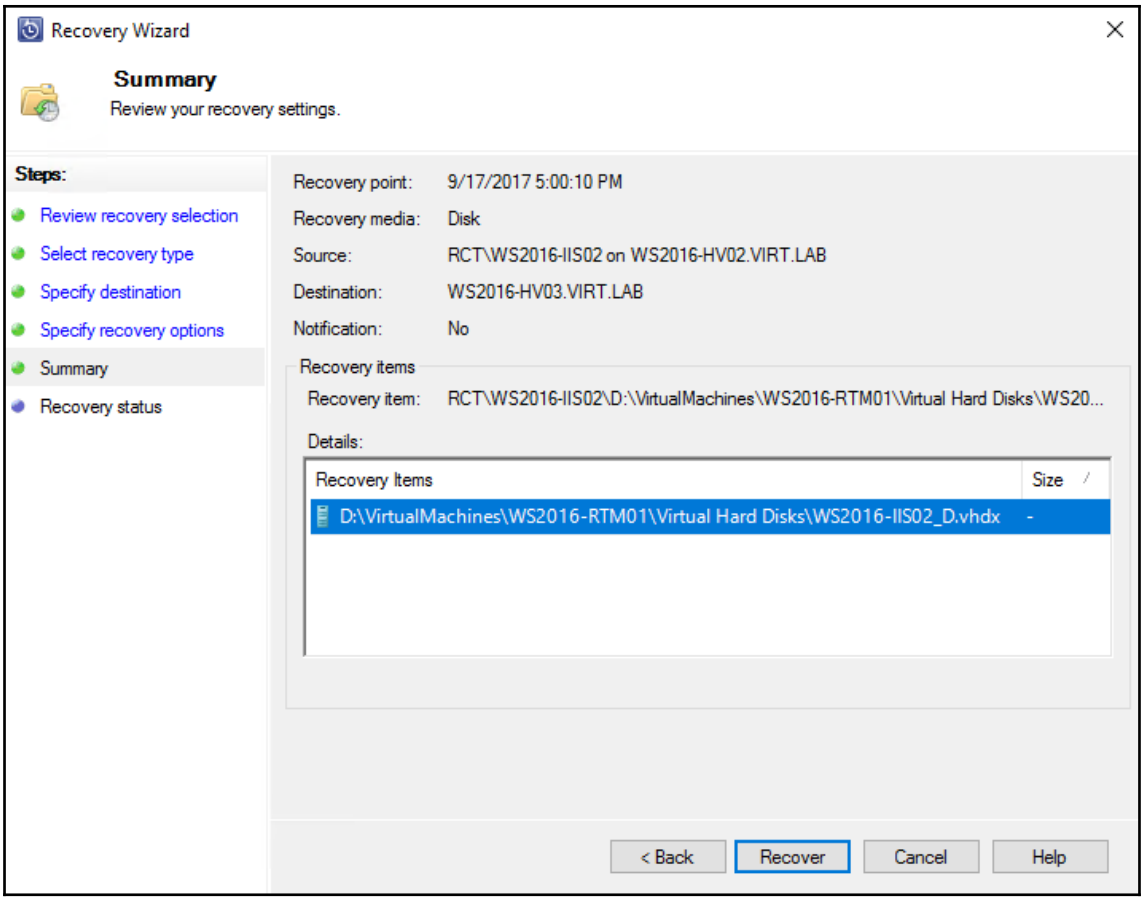

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recover to original instance
The current files will be overwritten during recovery.
RCT\WS2016-IIS02 on WS2016-HV02.VIRT.LAB
Recover as virtual machine to any host
Copy to a network folder
Copy to tape
This option copies the files to tape in a DPM library.
Restoring the virtual machine to the original server will overwrite an existing instance of the same virtual machine present on the server.
< Back
Next >
Cancel
Help

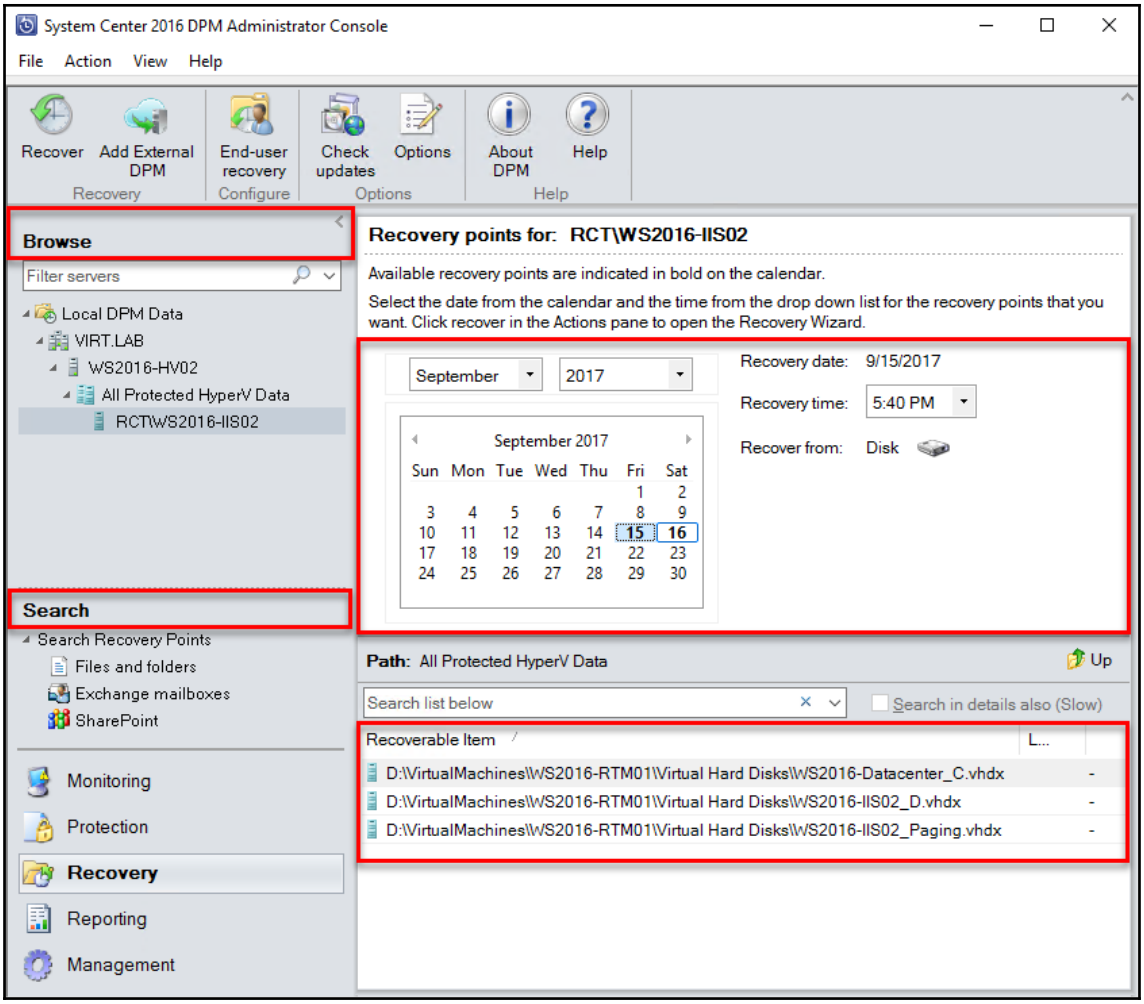

Recovery Wizard
Specify Destination
Specify where you want to recover the virtual machine.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Specify where you want to recover the virtual machine.
Destination host uses remote storage.
All the files will be copied inside a folder named 'WS2016-IIS02_9-16-2017_17.0.10' in the copy destination.
Destination host:
WS2016-HV03.VIRT.LAB
Browse...
Destination path:
E:\VMs
Space required:
15.25 GB
Space available:
365.88 GB
< Back
Next >
Cancel
Help

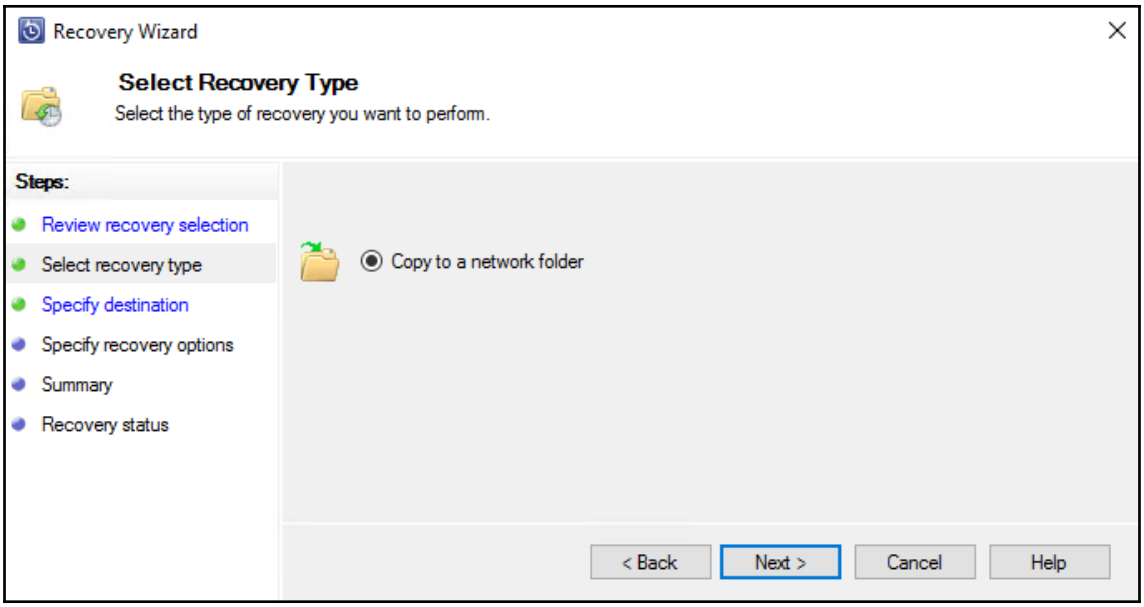

Recovery Wizard
Recovery Status
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recovery status:
Successful
Start time:
9/16/2017 10:51:57 PM
End time:
9/16/2017 10:52:50 PM
Data transferred:
15,436.25 MB
Close

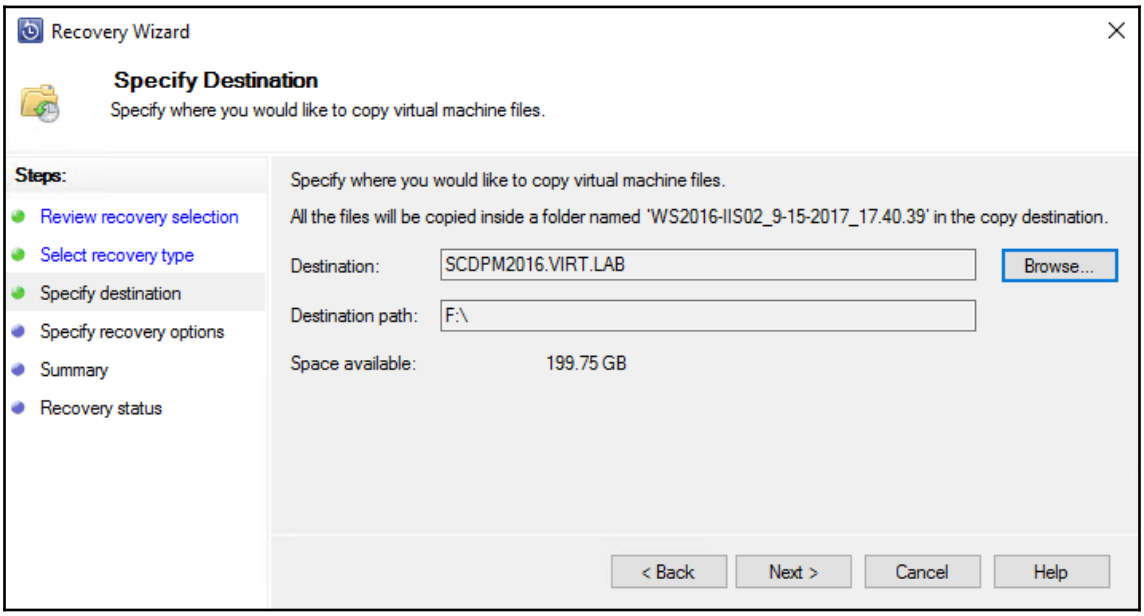

System Center 2016 DPM Administrator Console
File
Action
View
Help
Recover
Add External DPM
End-user recovery
Check updates
Options
About DPM
Help
Recovery
Configure
Options
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
WS2016-HV02
All Protected HyperV Data
RCTWS2016-IIS02
1
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: RCT\WS2016-IIS02
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
September
2017
September 2017
Sun Mon Tue Wed Thu Fri Sat
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
Recovery date: 9/17/2017
Recovery time: 5:00 PM
Recover from: Disk
2
Path: All Protected HyperV Data
Up
Search list below
Search in details also (Slow)
Recoverable Item
D:\VirtualMachines\WS2016-RTM01\Virtual Hard Disks\WS2016-Datacenter_C.vhdx
D:\VirtualMachines
WS2016-IIS02_D.vhdx
3
D:\VirtualMachines
WS2016-IIS02_Paging.vhdx
Show all recovery points
Recover...
4

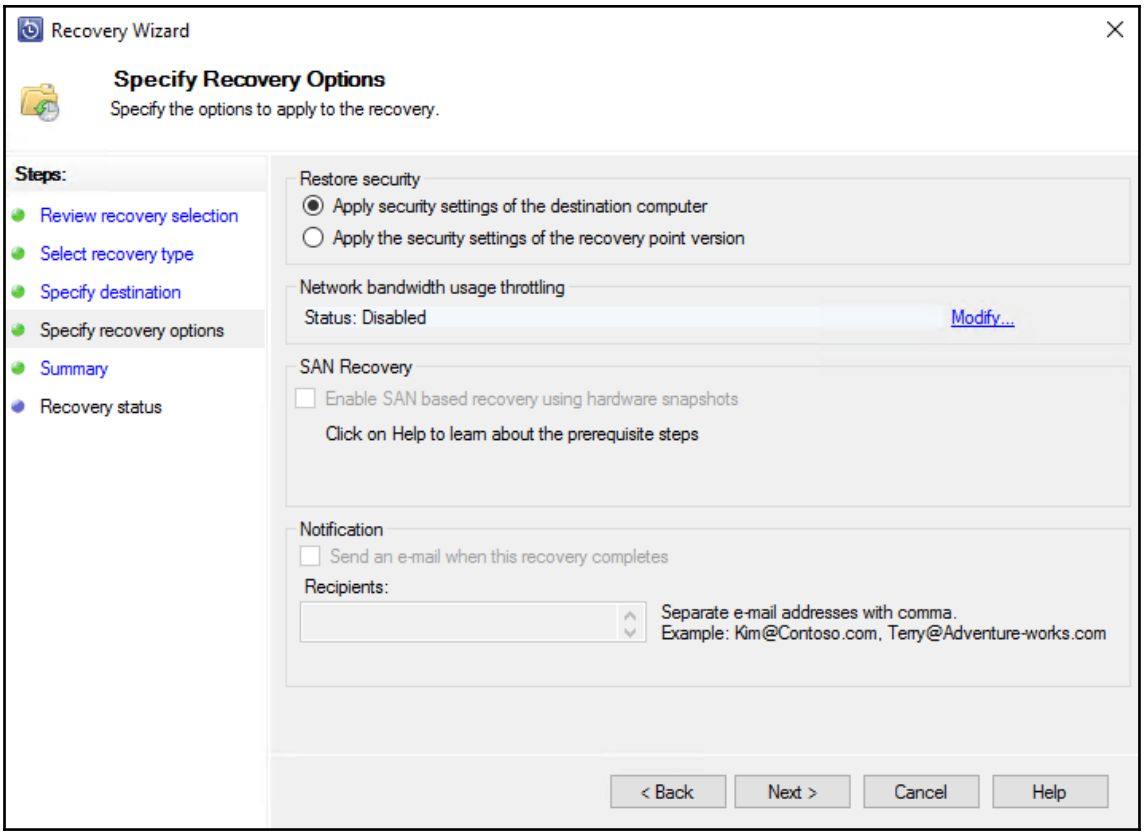

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 9/17/2017 5:00:10 PM
Recover from: Disk
Item details
Recovery item: D:\VirtualMachines\WS2016-RTM01\Virtual Hard Disks\WS2016-IIS02_D.vhdx
Recovery source: RCT\WS2016-IIS02 on WS2016-HV02.VIRT.LAB
Note that the selected recovery element is a VHD and not the virtual machine.
< Back
Next >
Cancel
Help

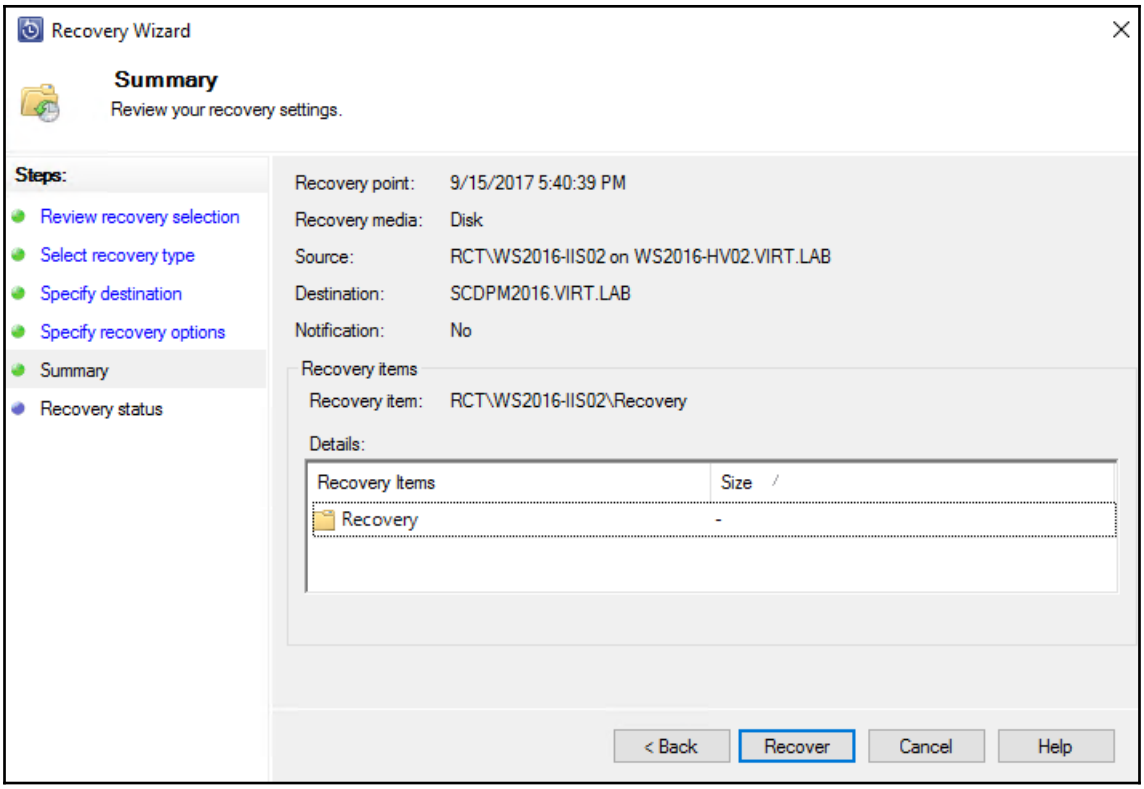

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recovery point: 9/17/2017 5:00:10 PM
Recovery media: Disk
Source: RCT\WS2016-IIS02 on WS2016-HV02.VIRT.LAB
Destination: WS2016-HV03.VIRT.LAB
Notification: No
Recovery items
Recovery item: RCT\WS2016-IIS02\D:\VirtualMachines\WS2016-RTM01\Virtual Hard Disks\WS20...
Details:
Recovery Items
Size
D:\VirtualMachines\WS2016-RTM01\Virtual Hard Disks\WS2016-IIS02_D.vhdx -
< Back
Recover
Cancel
Help

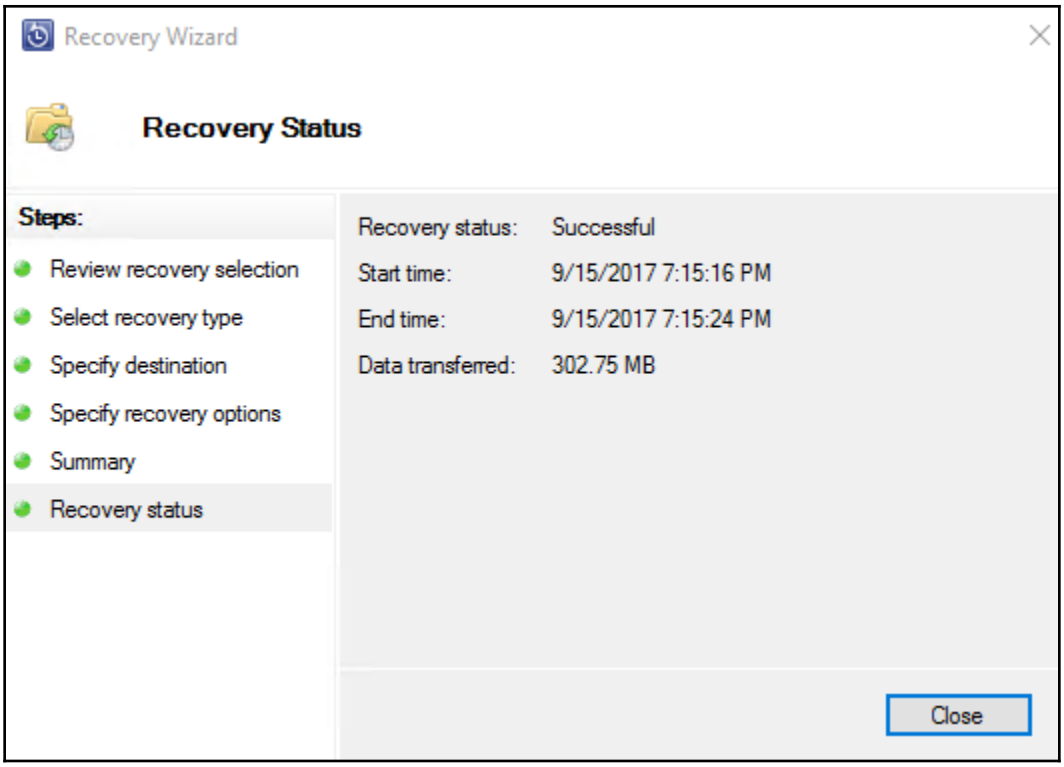

System Center 2016 DPM Administrator Console
File Action View Help
Recover
Add External DPM
End-user recovery
Check updates
Options
About DPM
Help
Recovery
Configure
Options
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
WS2016-HV02
All Protected HyperV Data
RCT\WS2016-IIS02
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: RCT\WS2016-IIS02
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
September
2017
September 2017
Sun Mon Tue Wed Thu Fri Sat
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
Recovery date: 9/15/2017
Recovery time: 5:40 PM
Recover from: Disk
Path: All Protected HyperV Data
Up
Search list below
Search in details also (Slow)
Recoverable Item
L...
D:\VirtualMachines\WS2016-RTM01\Virtual Hard Disks\WS2016-Datacenter_C.vhdx -
D:\VirtualMachines\WS2016-RTM01\Virtual Hard Disks\WS2016-IIS02_D.vhdx -
D:\VirtualMachines\WS2016-RTM01\Virtual Hard Disks\WS2016-IIS02_Paging.vhdx -


Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Copy to a network folder
< Back
Next >
Cancel
Help

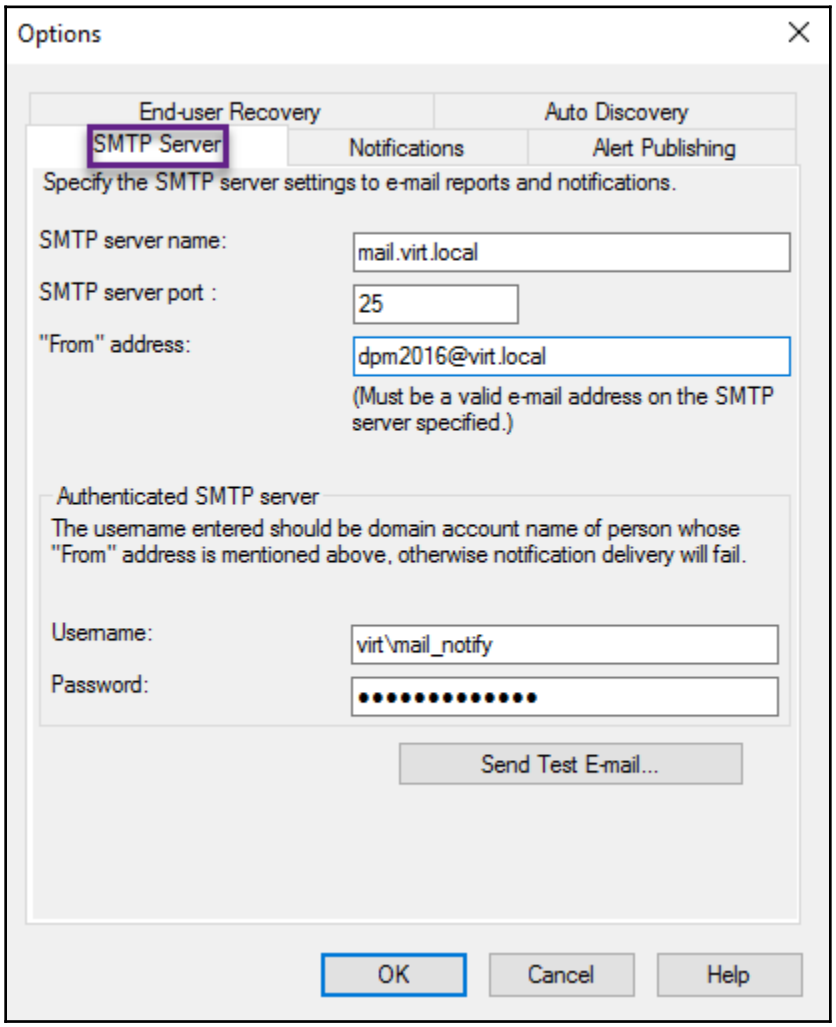

Recovery Wizard
Specify Destination
Specify where you would like to copy virtual machine files.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Specify where you would like to copy virtual machine files.
All the files will be copied inside a folder named 'WS2016-IIS02_9-15-2017_17.40.39' in the copy destination.
Destination:
SCDPM2016.VIRT.LAB
Browse...
Destination path:
F:\
Space available:
199.75 GB
< Back
Next >
Cancel
Help

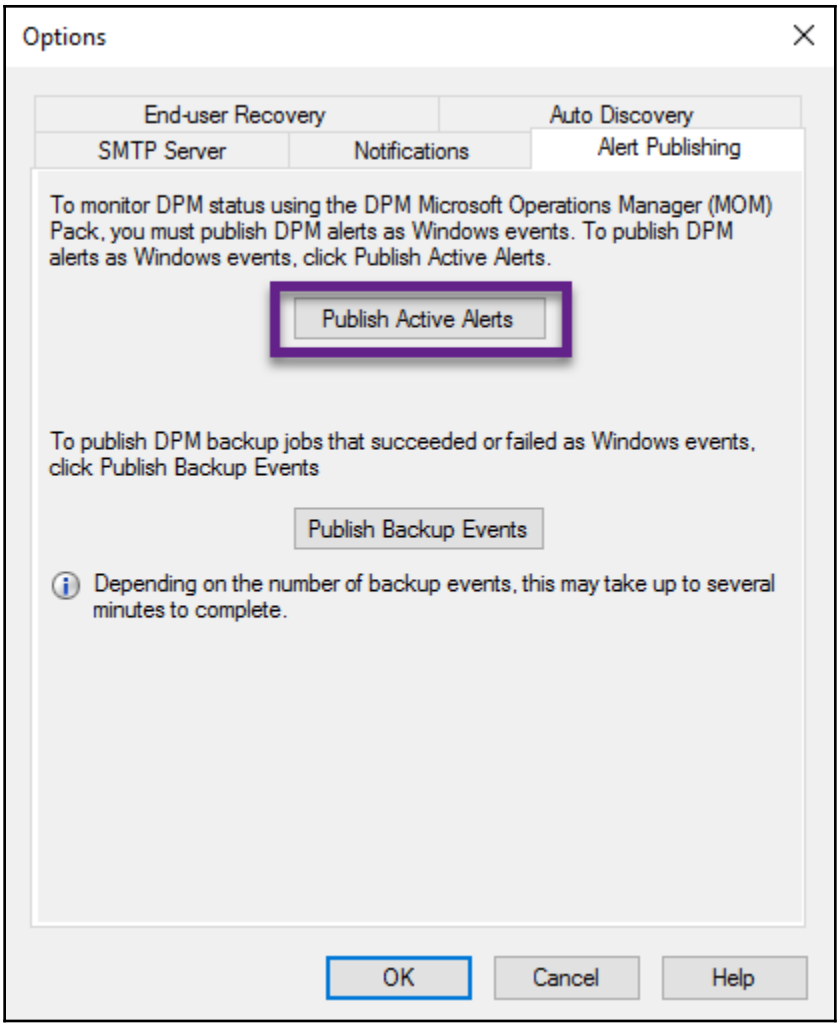

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Restore security
Apply security settings of the destination computer
Apply the security settings of the recovery point version
Network bandwidth usage throttling
Status: Disabled
Modify...
SAN Recovery
Enable SAN based recovery using hardware snapshots
Click on Help to learn about the prerequisite steps
Notification
Send an e-mail when this recovery completes
Recipients:
Separate e-mail addresses with comma.
Example: Kim@Contoso.com, Terry@Adventure-works.com
< Back
Next >
Cancel
Help

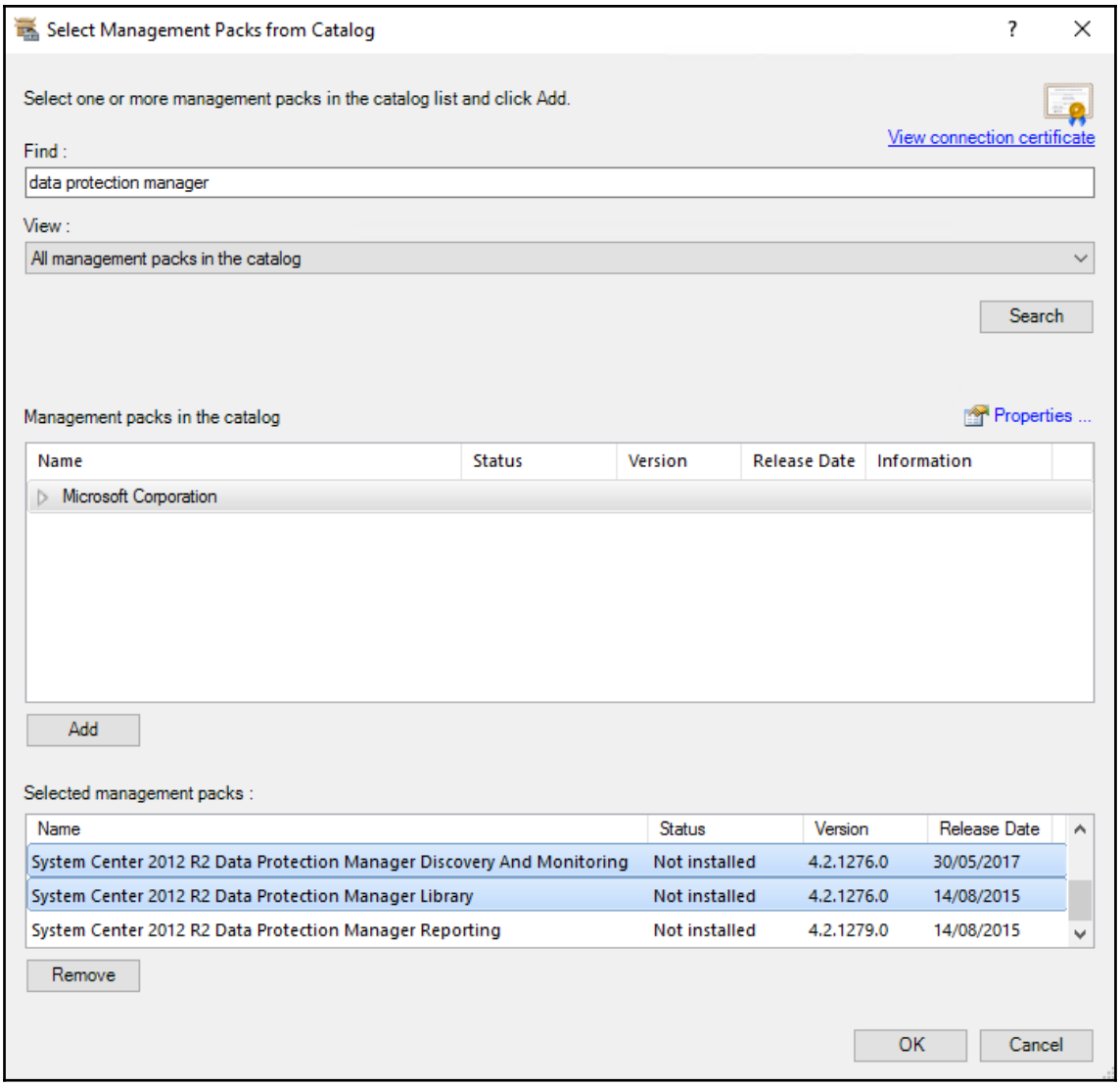

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recovery point: 9/15/2017 5:40:39 PM
Recovery media: Disk
Source: RCT\WS2016-IIS02 on WS2016-HV02.VIRT.LAB
Destination: SCDPM2016.VIRT.LAB
Notification: No
Recovery items
Recovery item: RCT\WS2016-IIS02\Recovery
Details:
Recovery Items
Size
Recovery
-
< Back
Recover
Cancel
Help

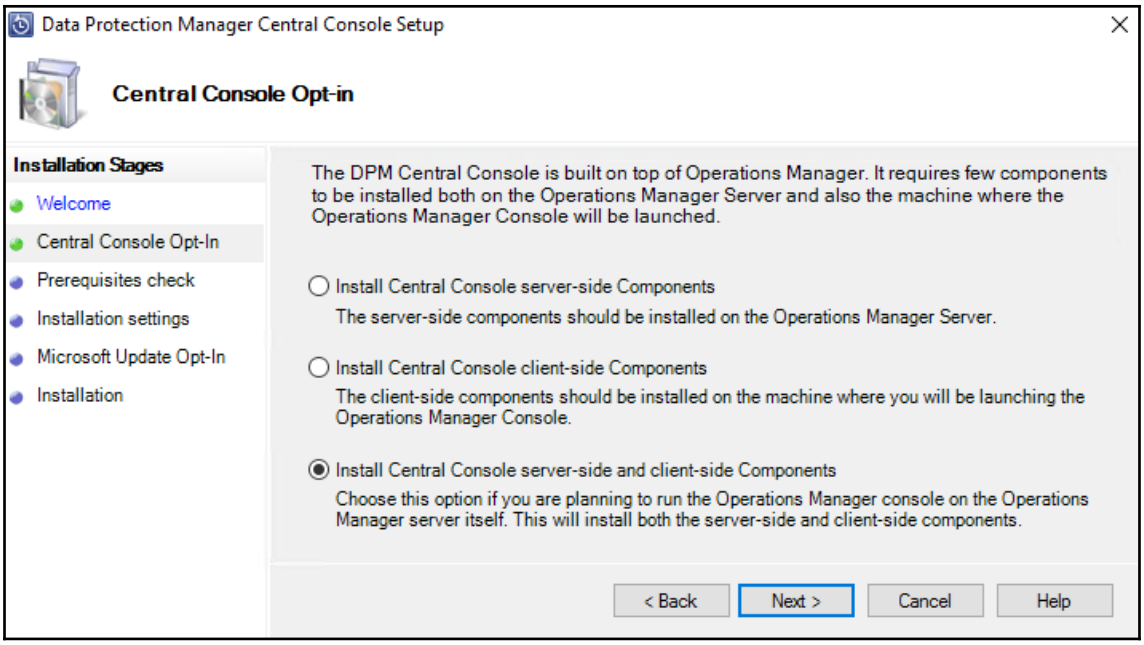

Recovery Wizard
Recovery Status
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recovery status: Successful
Start time: 9/15/2017 7:15:16 PM
End time: 9/15/2017 7:15:24 PM
Data transferred: 302.75 MB
Close

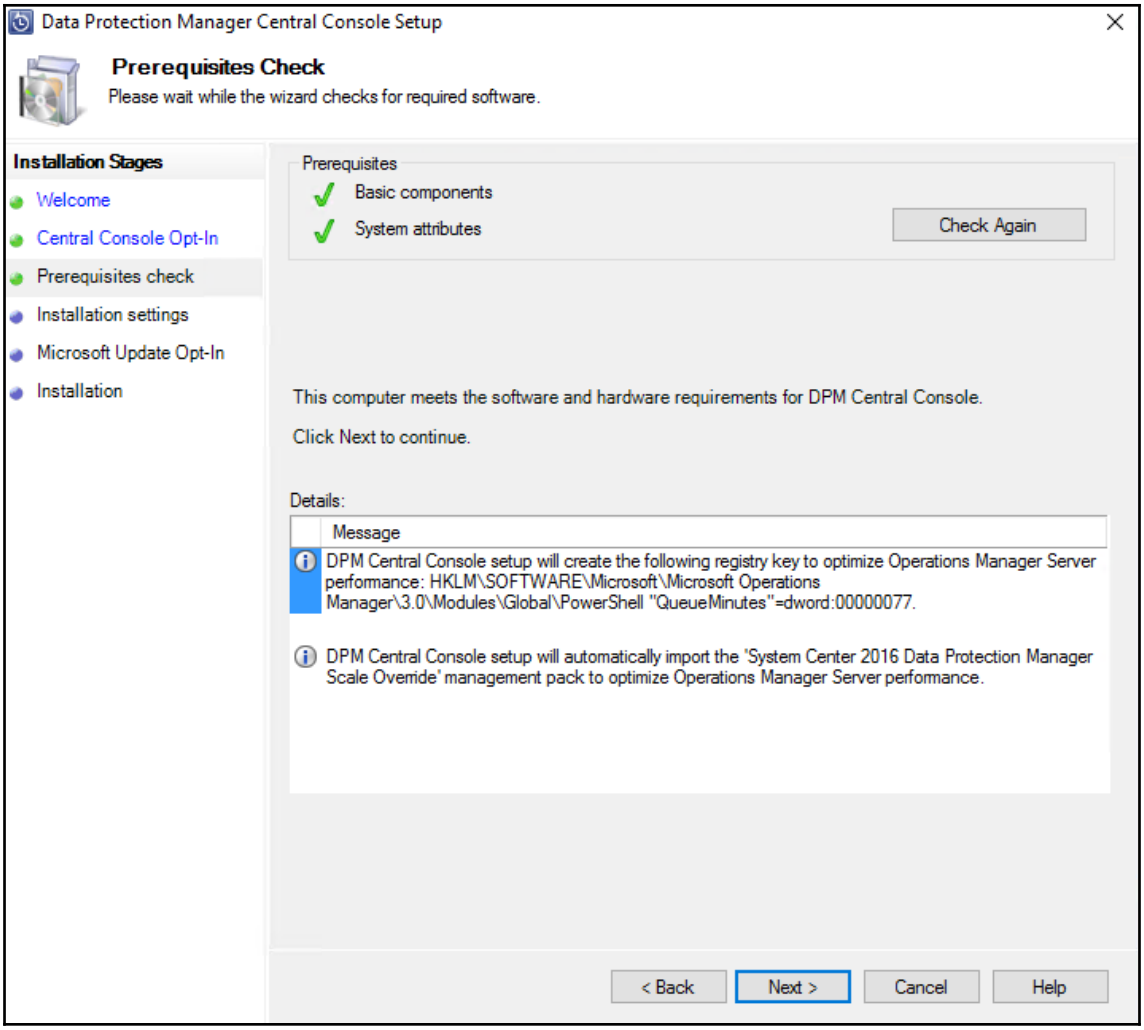
Chapter 4: Monitoring DPM and Configuring Role-Based Access

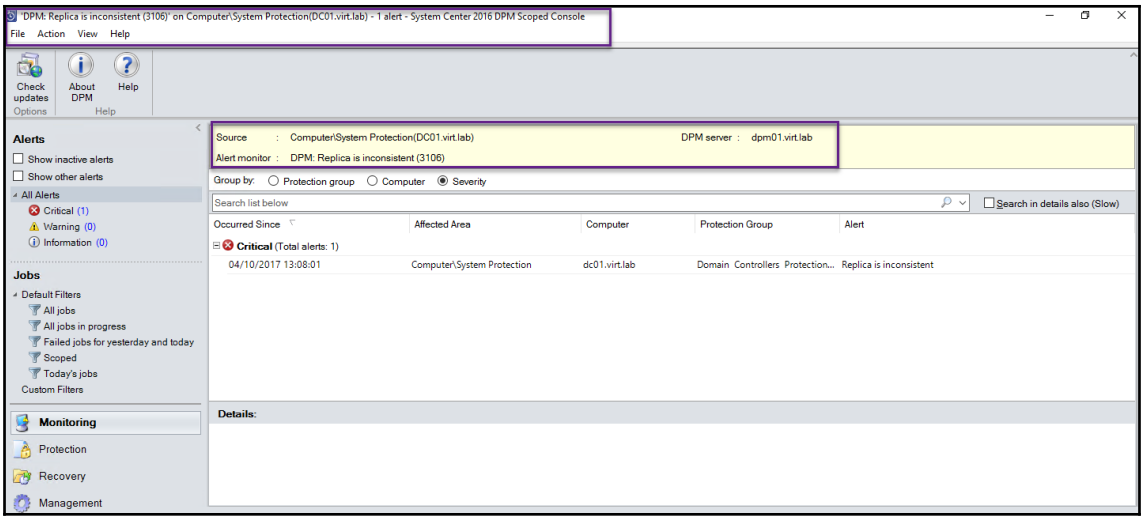


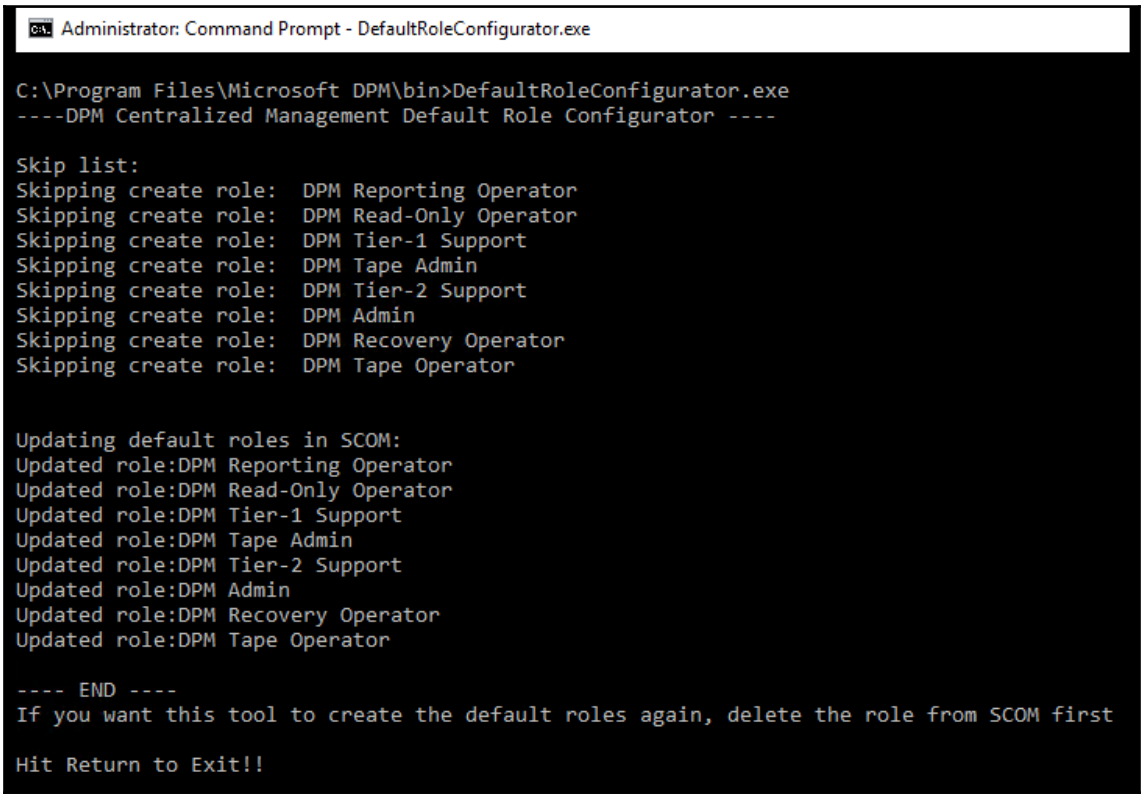

Options
End-user Recovery
Auto Discovery
SMTP Server
Notifications
Alert Publishing
To monitor DPM status using the DPM Microsoft Operations Manager (MOM) Pack, you must publish DPM alerts as Windows events. To publish DPM alerts as Windows events, click Publish Active Alerts.
Publish Active Alerts
To publish DPM backup jobs that succeeded or failed as Windows events, click Publish Backup Events
Publish Backup Events
Depending on the number of backup events, this may take up to several minutes to complete.
OK
Cancel
Help


Select Management Packs from Catalog
Select one or more management packs in the catalog list and click Add.
View connection certificate
Find :
data protection manager
View :
All management packs in the catalog
Search
Management packs in the catalog
Properties ...
Name
Status
Version
Release Date
Information
Microsoft Corporation
Add
Selected management packs :
Name
Status
Version
Release Date
System Center 2012 R2 Data Protection Manager Discovery And Monitoring
Not installed
4.2.1276.0
30/05/2017
System Center 2012 R2 Data Protection Manager Library
Not installed
4.2.1276.0
14/08/2015
System Center 2012 R2 Data Protection Manager Reporting
Not installed
4.2.1279.0
14/08/2015
Remove
OK
Cancel

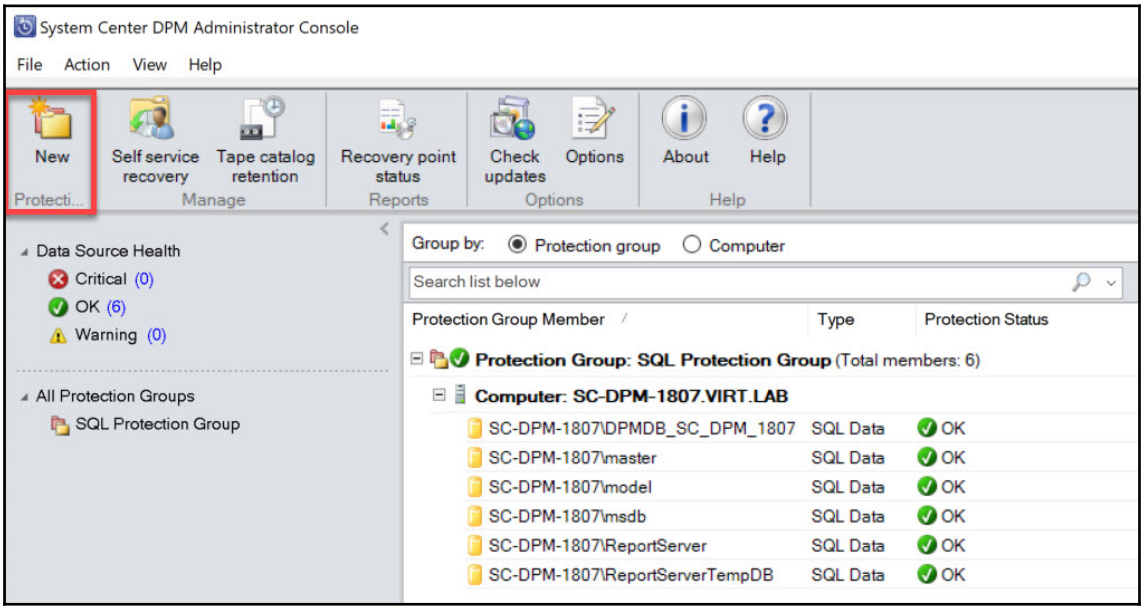

Data Protection Manager Central Console Setup
Central Console Opt-in
Installation Stages
Welcome
Central Console Opt-In
Prerequisites check
Installation settings
Microsoft Update Opt-In
Installation
The DPM Central Console is built on top of Operations Manager. It requires few components to be installed both on the Operations Manager Server and also the machine where the Operations Manager Console will be launched.
Install Central Console server-side Components
The server-side components should be installed on the Operations Manager Server.
Install Central Console client-side Components
The client-side components should be installed on the machine where you will be launching the Operations Manager Console.
Install Central Console server-side and client-side Components
Choose this option if you are planning to run the Operations Manager console on the Operations Manager server itself. This will install both the server-side and client-side components.
< Back
Next >
Cancel
Help

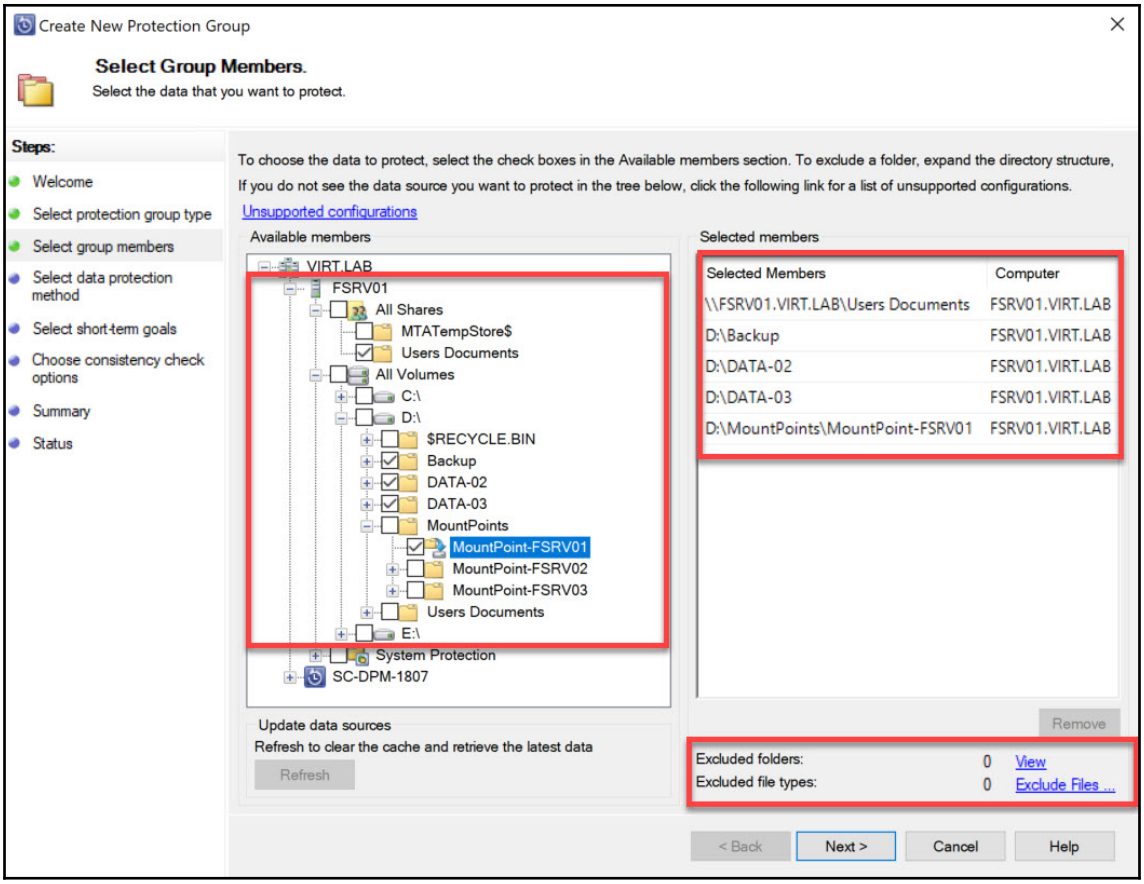

Data Protection Manager Central Console Setup
Prerequisites Check
Please wait while the wizard checks for required software.
Installation Stages
Welcome
Central Console Opt-In
Prerequisites check
Installation settings
Microsoft Update Opt-In
Installation
Prerequisites
Basic components
System attributes
Check Again
This computer meets the software and hardware requirements for DPM Central Console.
Click Next to continue.
Details:
Message
DPM Central Console setup will create the following registry key to optimize Operations Manager Server performance: HKLM\SOFTWARE\Microsoft\Microsoft Operations Manager\3.0\Modules\Global\PowerShell "QueueMinutes"=dword:00000077.
DPM Central Console setup will automatically import the 'System Center 2016 Data Protection Manager Scale Override' management pack to optimize Operations Manager Server performance.
< Back
Next >
Cancel
Help

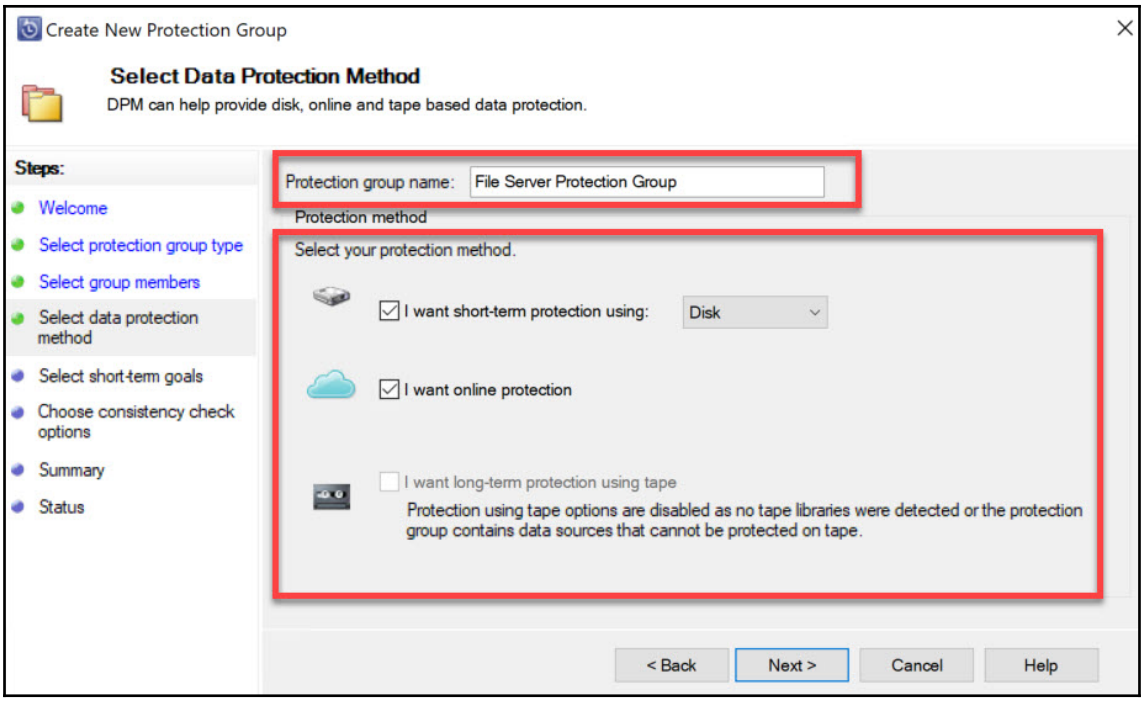

"DPM: Replica is inconsistent (3106)" on Computer\System Protection(DC01.virt.lab) - 1 alert - System Center 2016 DPM Scoped Console
File Action View Help
Check updates
About DPM
Help
Options
Help
Alerts
Show inactive alerts
Show other alerts
All Alerts
Critical (1)
Warning (0)
Information (0)
Jobs
Default Filters
All jobs
All jobs in progress
Failed jobs for yesterday and today
Scoped
Today's jobs
Custom Filters
Monitoring
Protection
Recovery
Management
Source : Computer\System Protection(DC01.virt.lab)
DPM server : dpm01.virt.lab
Alert monitor : DPM: Replica is inconsistent (3106)
Group by: Protection group Computer Severity
Search list below
Search in details also (Slow)
Occurred Since
Affected Area
Computer
Protection Group
Alert
Critical (Total alerts: 1)
04/10/2017 13:08:01
Computer\System Protection
dc01.virt.lab
Domain Controllers Protection...
Replica is inconsistent
Details:

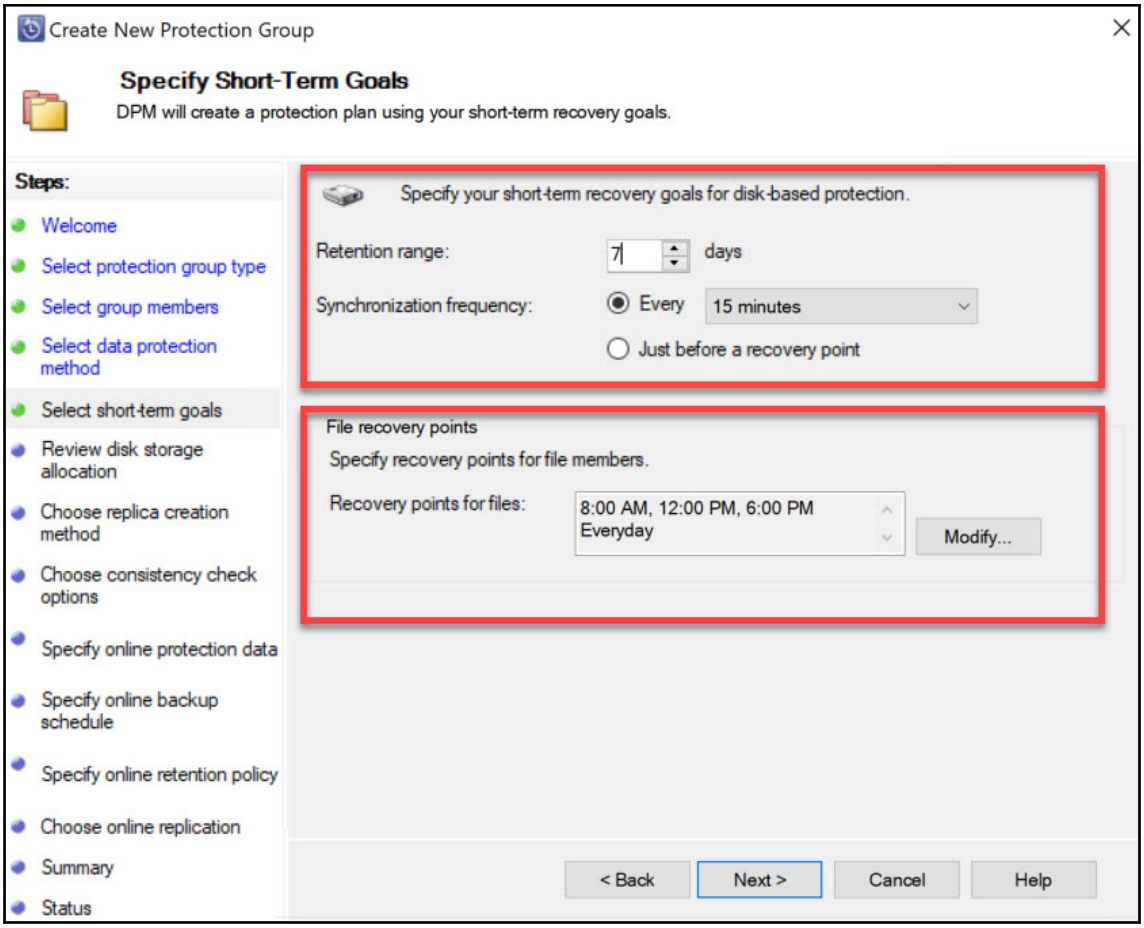

Administrator: Command Prompt - DefaultRoleConfigurator.exe
C:\Program Files\Microsoft DPM\bin>DefaultRoleConfigurator.exe
----DPM Centralized Management Default Role Configurator ----
Skip list:
Skipping create role: DPM Reporting Operator
Skipping create role: DPM Read-Only Operator
Skipping create role: DPM Tier-1 Support
Skipping create role: DPM Tape Admin
Skipping create role: DPM Tier-2 Support
Skipping create role: DPM Admin
Skipping create role: DPM Recovery Operator
Skipping create role: DPM Tape Operator
Updating default roles in SCOM:
Updated role:DPM Reporting Operator
Updated role:DPM Read-Only Operator
Updated role:DPM Tier-1 Support
Updated role:DPM Tape Admin
Updated role:DPM Tier-2 Support
Updated role:DPM Admin
Updated role:DPM Recovery Operator
Updated role:DPM Tape Operator
---- END ----
If you want this tool to create the default roles again, delete the role from SCOM first
Hit Return to Exit!!

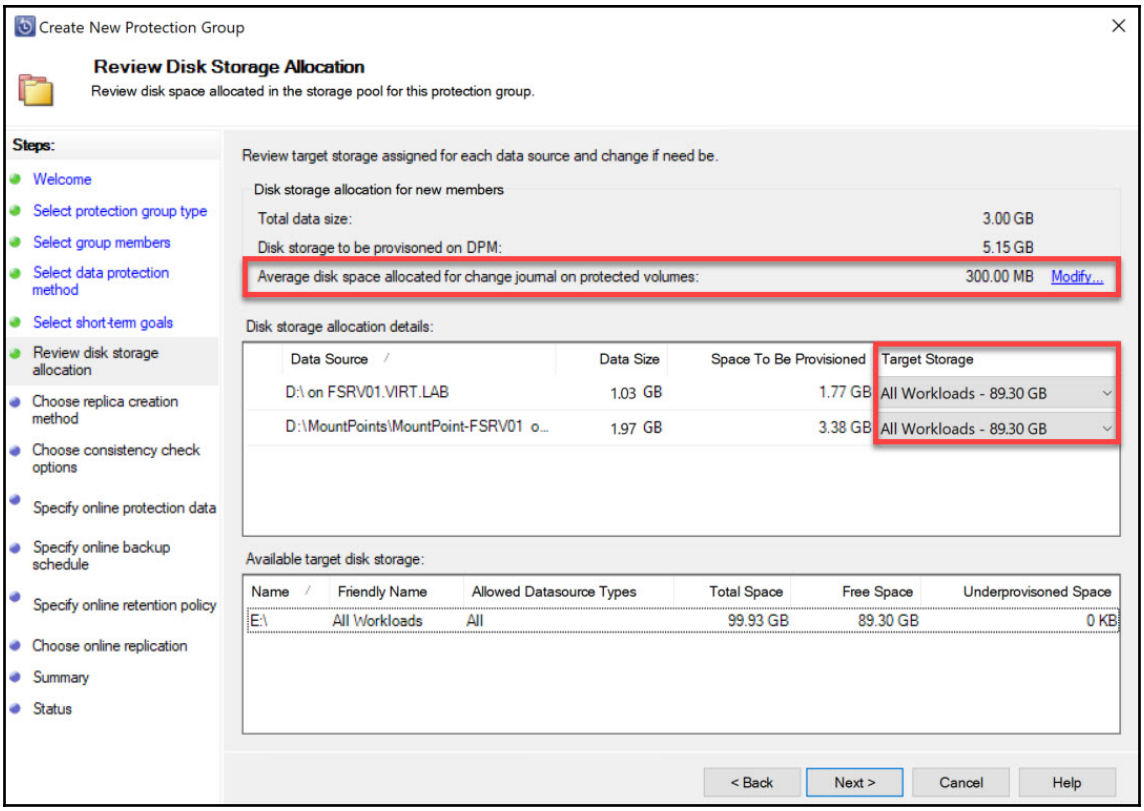
Chapter 5: Protecting Microsoft Workloads with DPM

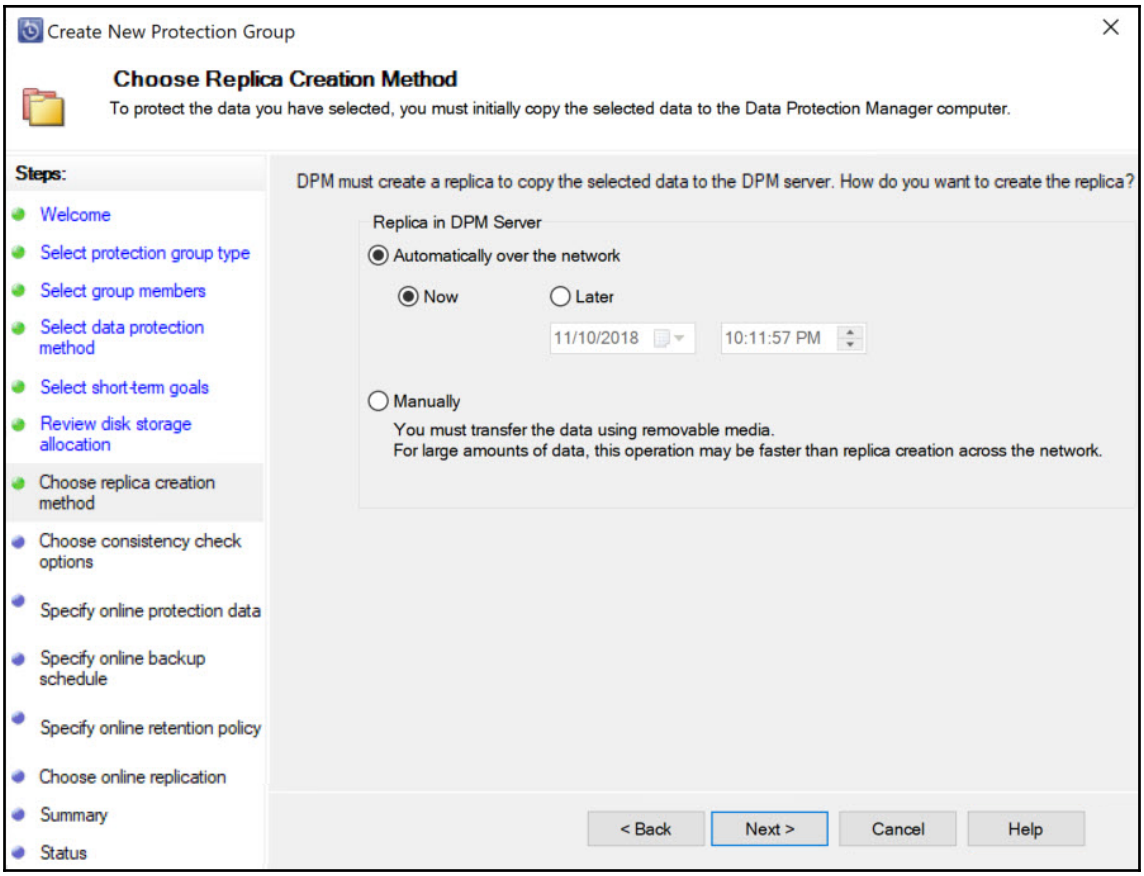


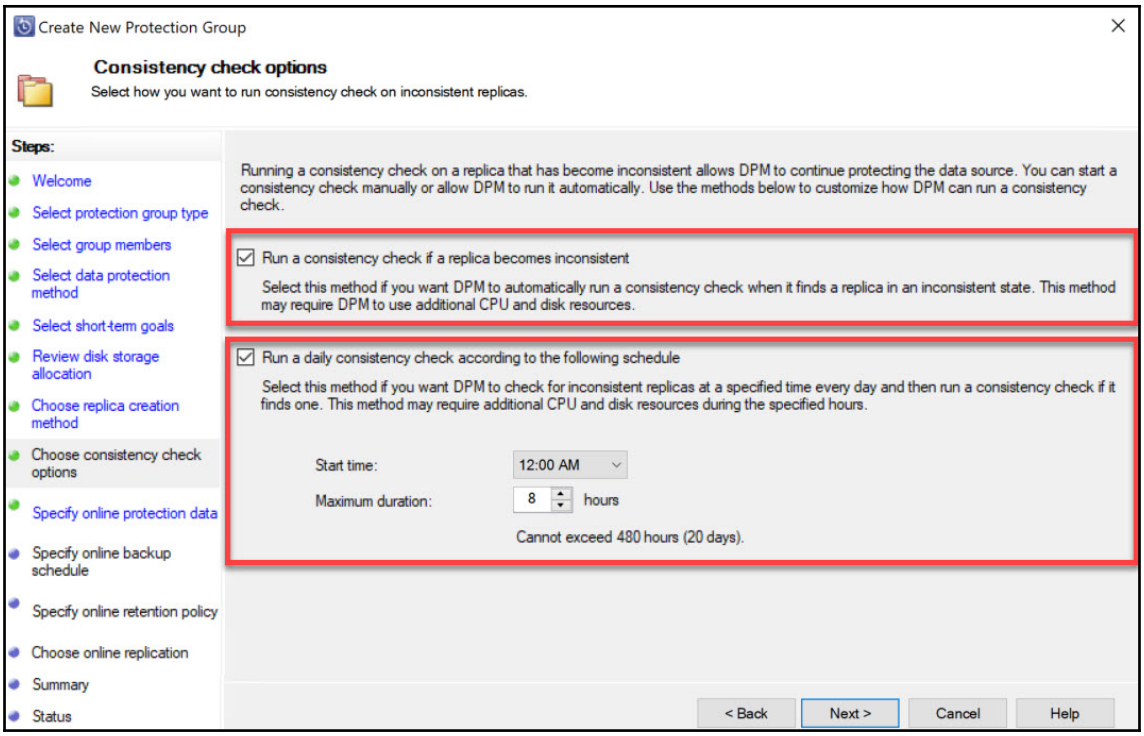

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure.
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported configurations.
Unsupported configurations
Available members
VIRT.LAB
FSRV01
All Shares
MTATempStore$
Users Documents
All Volumes
C:\
D:\
$RECYCLE.BIN
Backup
DATA-02
DATA-03
MountPoints
MountPoint-FSRV01
MountPoint-FSRV02
MountPoint-FSRV03
Users Documents
E:\
System Protection
SC-DPM-1807
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
\\FSRV01.VIRT.LAB\Users Documents
FSRV01.VIRT.LAB
D:\Backup
FSRV01.VIRT.LAB
D:\DATA-02
FSRV01.VIRT.LAB
D:\DATA-03
FSRV01.VIRT.LAB
D:\MountPoints\MountPoint-FSRV01
FSRV01.VIRT.LAB
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

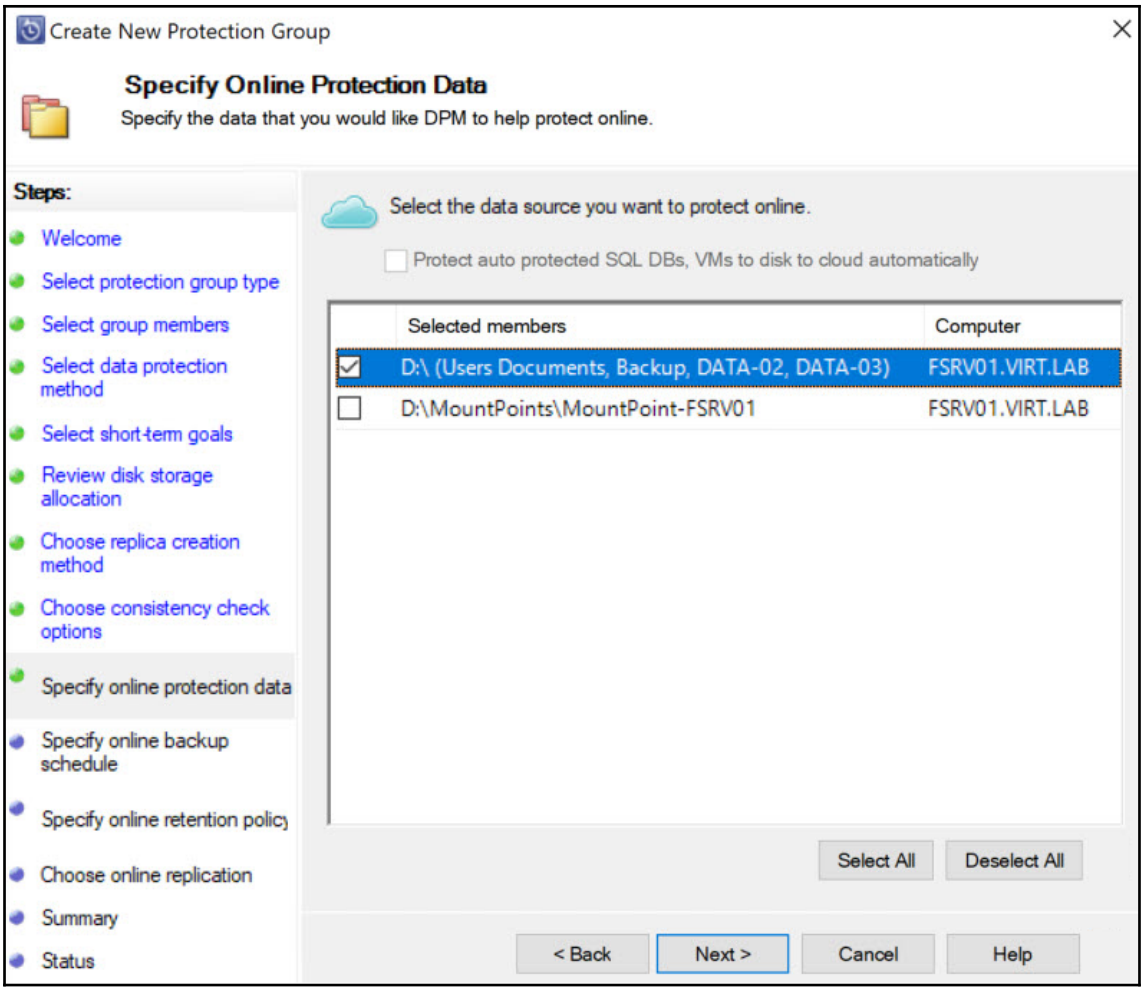

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
Protection group name:
File Server Protection Group
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
I want long-term protection using tape
Protection using tape options are disabled as no tape libraries were detected or the protection group contains data sources that cannot be protected on tape.
< Back
Next >
Cancel
Help

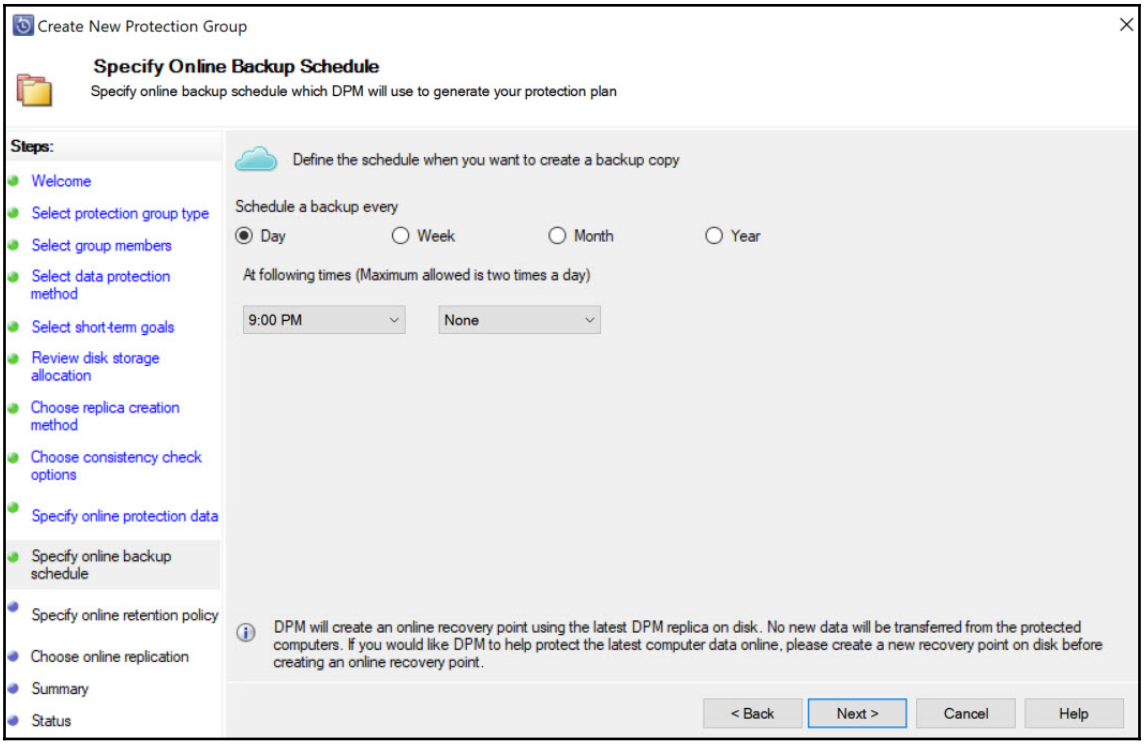

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
7
days
Synchronization frequency:
Every
15 minutes
Just before a recovery point
File recovery points
Specify recovery points for file members.
Recovery points for files:
8:00 AM, 12:00 PM, 6:00 PM
Everyday
Modify...
< Back
Next >
Cancel
Help

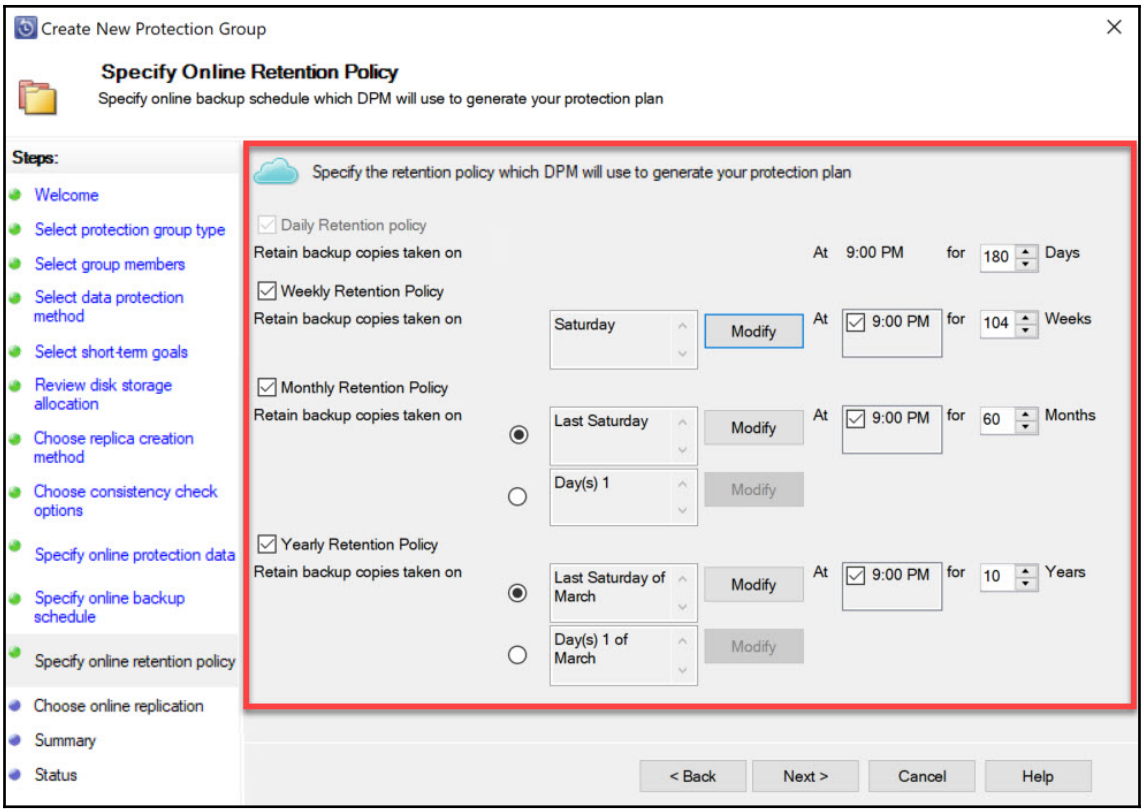

Create New Protection Group
Review Disk Storage Allocation
Review disk space allocated in the storage pool for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Review target storage assigned for each data source and change if need be.
Disk storage allocation for new members
Total data size: 3.00 GB
Disk storage to be provisoned on DPM: 5.15 GB
Average disk space allocated for change journal on protected volumes: 300.00 MB Modify...
Disk storage allocation details:
Data Source
Data Size
Space To Be Provisioned
Target Storage
D:\ on FSRV01.VIRT.LAB 1.03 GB 1.77 GB All Workloads - 89.30 GB
D:\MountPoints\MountPoint-FSRV01 o... 1.97 GB 3.38 GB All Workloads - 89.30 GB
Available target disk storage:
Name
Friendly Name
Allowed Datasource Types
Total Space
Free Space
Underprovisoned Space
E:\ All Workloads All 99.93 GB 89.30 GB 0 KB
< Back
Next >
Cancel
Help

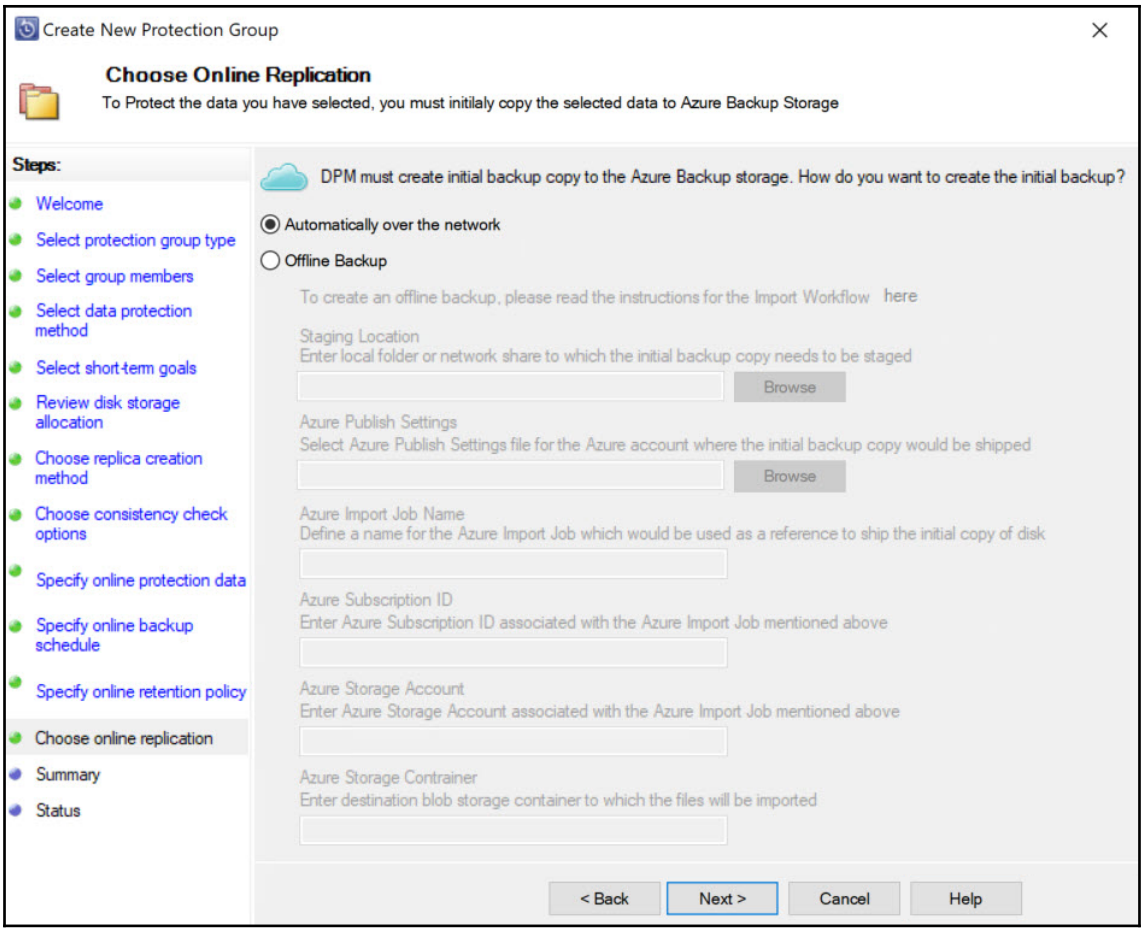

Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
DPM must create a replica to copy the selected data to the DPM server. How do you want to create the replica?
Replica in DPM Server
Automatically over the network
Now
Later
11/10/2018
10:11:57 PM
Manually
You must transfer the data using removable media.
For large amounts of data, this operation may be faster than replica creation across the network.
< Back
Next >
Cancel
Help

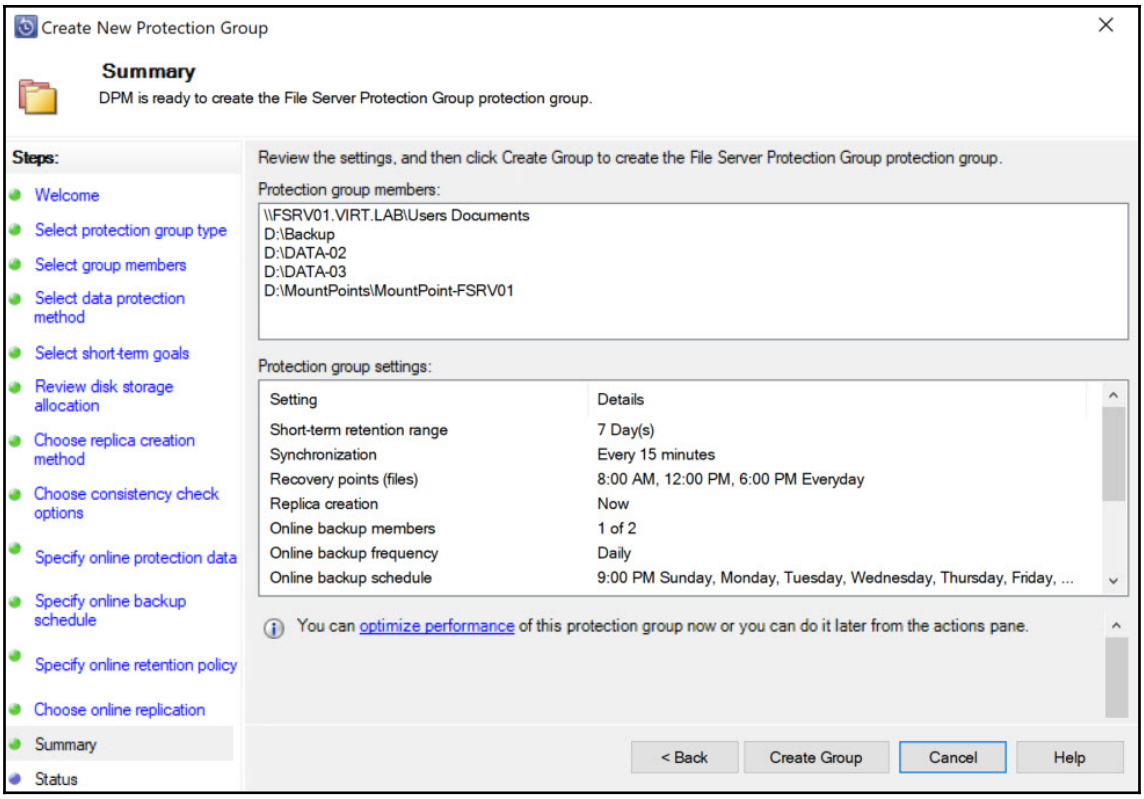

Create New Protection Group
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Running a consistency check on a replica that has become inconsistent allows DPM to continue protecting the data source. You can start a consistency check manually or allow DPM to run it automatically. Use the methods below to customize how DPM can run a consistency check.
Run a consistency check if a replica becomes inconsistent
Select this method if you want DPM to automatically run a consistency check when it finds a replica in an inconsistent state. This method may require DPM to use additional CPU and disk resources.
Run a daily consistency check according to the following schedule
Select this method if you want DPM to check for inconsistent replicas at a specified time every day and then run a consistency check if it finds one. This method may require additional CPU and disk resources during the specified hours.
Start time:
12:00 AM
Maximum duration:
8
hours
Cannot exceed 480 hours (20 days).
< Back
Next >
Cancel
Help

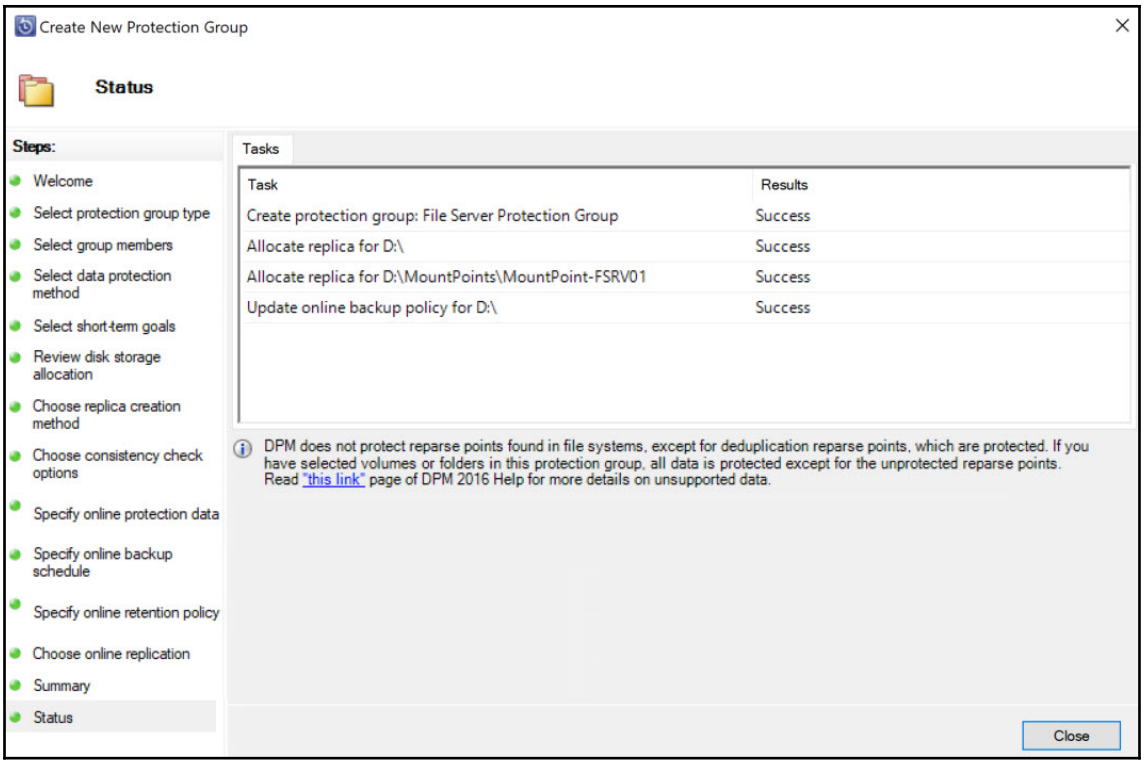

Create New Protection Group
Specify Online Protection Data
Specify the data that you would like DPM to help protect online.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Select the data source you want to protect online.
Protect auto protected SQL DBs, VMs to disk to cloud automatically
Selected members
Computer
D:\ (Users Documents, Backup, DATA-02, DATA-03)
FSRV01.VIRT.LAB
D:\MountPoints\MountPoint-FSRV01
FSRV01.VIRT.LAB
Select All
Deselect All
< Back
Next >
Cancel
Help

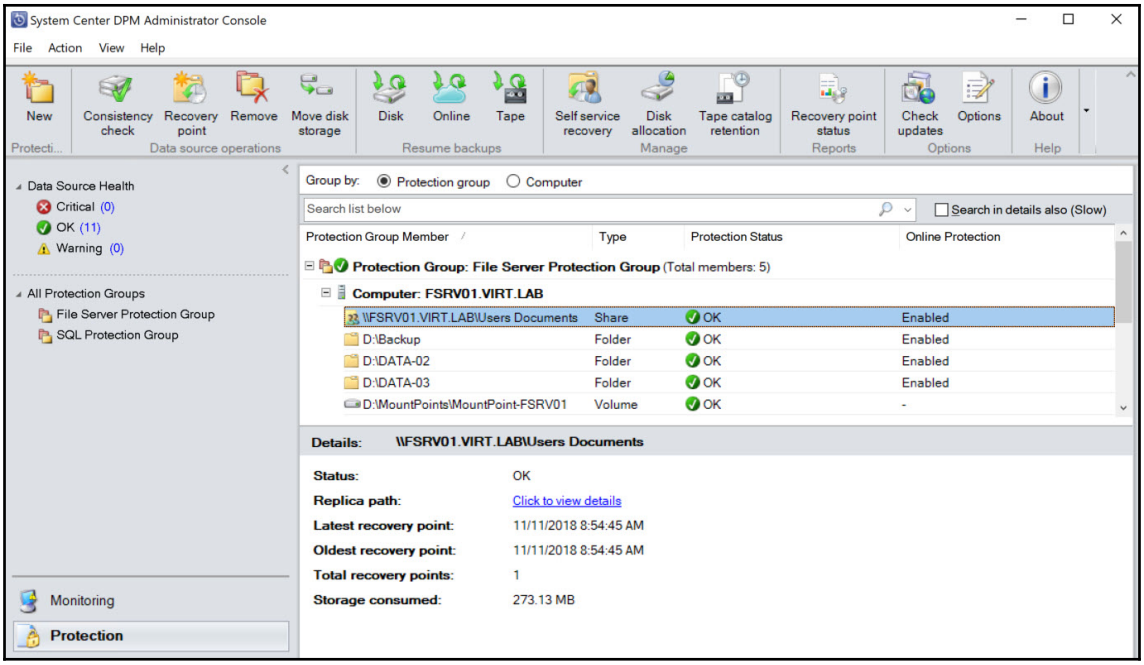

Create New Protection Group
Specify Online Backup Schedule
Specify online backup schedule which DPM will use to generate your protection plan
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Define the schedule when you want to create a backup copy
Schedule a backup every
Day
Week
Month
Year
At following times (Maximum allowed is two times a day)
9:00 PM
None
DPM will create an online recovery point using the latest DPM replica on disk. No new data will be transferred from the protected computers. If you would like DPM to help protect the latest computer data online, please create a new recovery point on disk before creating an online recovery point.
< Back
Next >
Cancel
Help

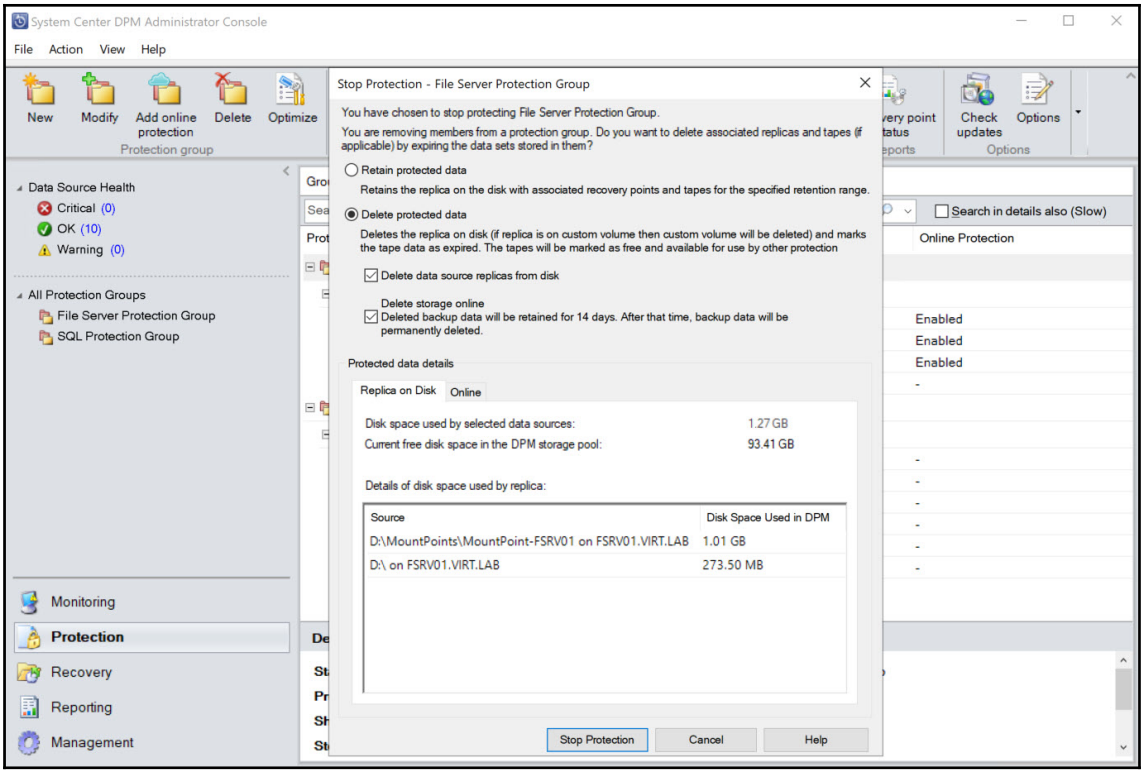

Create New Protection Group
Specify Online Retention Policy
Specify online backup schedule which DPM will use to generate your protection plan
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Specify the retention policy which DPM will use to generate your protection plan
Daily Retention policy
Retain backup copies taken on
At 9:00 PM for 180 Days
Weekly Retention Policy
Retain backup copies taken on
Saturday
Modify
At 9:00 PM for 104 Weeks
Monthly Retention Policy
Retain backup copies taken on
Last Saturday
Modify
At 9:00 PM for 60 Months
Day(s) 1
Modify
Yearly Retention Policy
Retain backup copies taken on
Last Saturday of March
Modify
At 9:00 PM for 10 Years
Day(s) 1 of March
Modify
< Back
Next >
Cancel
Help

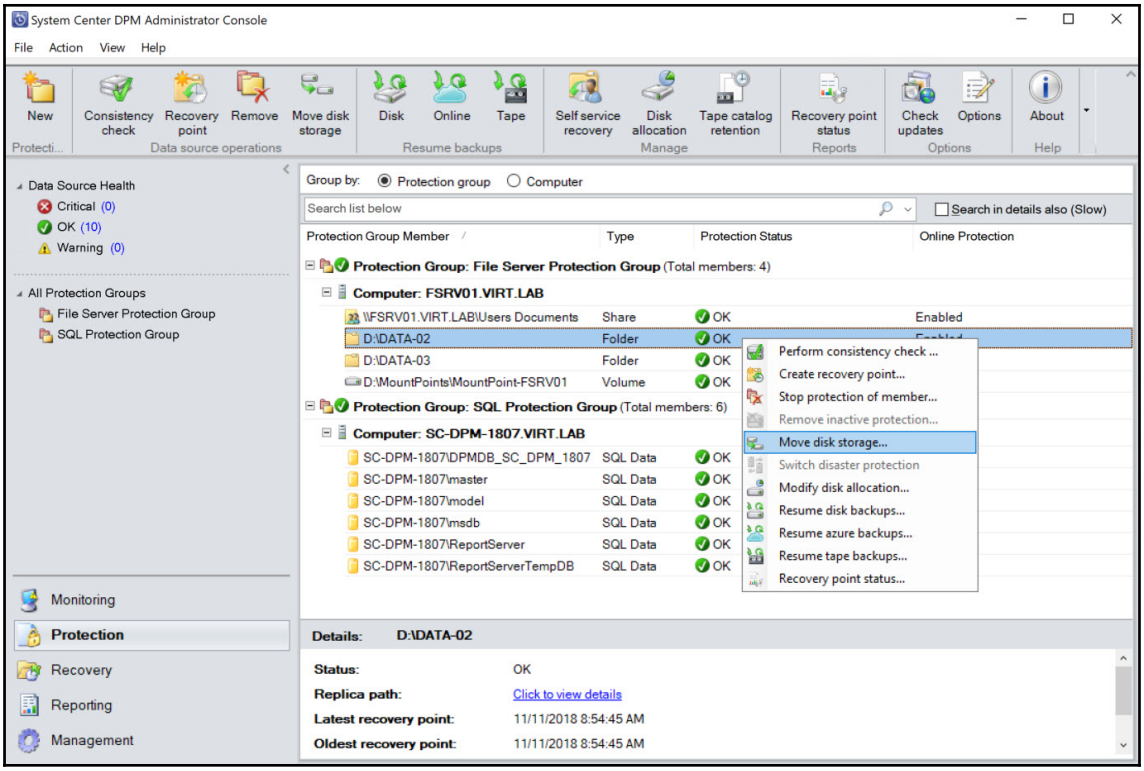

Create New Protection Group
Choose Online Replication
To Protect the data you have selected, you must initilaly copy the selected data to Azure Backup Storage
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
DPM must create initial backup copy to the Azure Backup storage. How do you want to create the initial backup?
Automatically over the network
Offline Backup
To create an offline backup, please read the instructions for the Import Workflow here
Staging Location
Enter local folder or network share to which the initial backup copy needs to be staged
Browse
Azure Publish Settings
Select Azure Publish Settings file for the Azure account where the initial backup copy would be shipped
Browse
Azure Import Job Name
Define a name for the Azure Import Job which would be used as a reference to ship the initial copy of disk
Azure Subscription ID
Enter Azure Subscription ID associated with the Azure Import Job mentioned above
Azure Storage Account
Enter Azure Storage Account associated with the Azure Import Job mentioned above
Azure Storage Contrainer
Enter destination blob storage container to which the files will be imported
< Back
Next >
Cancel
Help

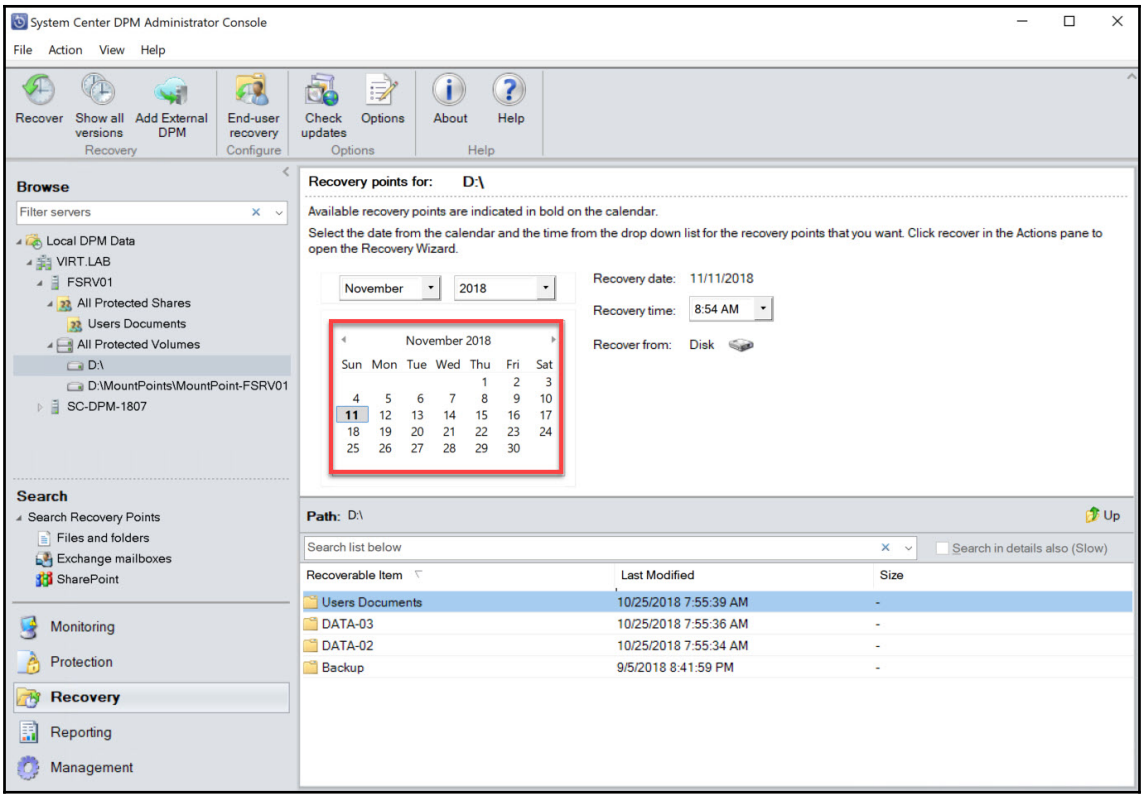

Create New Protection Group
Summary
DPM is ready to create the File Server Protection Group protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Review the settings, and then click Create Group to create the File Server Protection Group protection group.
Protection group members:
\\FSRV01.VIRT.LAB\Users Documents
D:\Backup
D:\DATA-02
D:\DATA-03
D:\MountPoints\MountPoint-FSRV01
Protection group settings:
Setting
Details
Short-term retention range
7 Day(s)
Synchronization
Every 15 minutes
Recovery points (files)
8:00 AM, 12:00 PM, 6:00 PM Everyday
Replica creation
Now
Online backup members
1 of 2
Online backup frequency
Daily
Online backup schedule
9:00 PM Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, ...
You can optimize performance of this protection group now or you can do it later from the actions pane.
< Back
Create Group
Cancel
Help

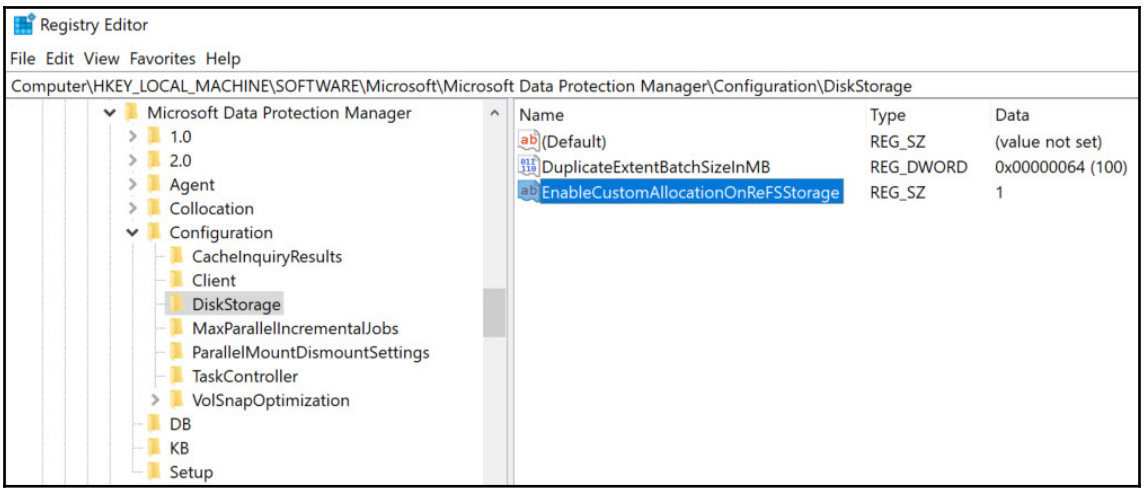

Create New Protection Group
Status
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Tasks
Task
Results
Create protection group: File Server Protection Group
Success
Allocate replica for D:\
Success
Allocate replica for D:\MountPoints\MountPoint-FSRV01
Success
Update online backup policy for D:\
Success
DPM does not protect reparse points found in file systems, except for deduplication reparse points, which are protected. If you have selected volumes or folders in this protection group, all data is protected except for the unprotected reparse points.
Read "this link" page of DPM 2016 Help for more details on unsupported data.
Close

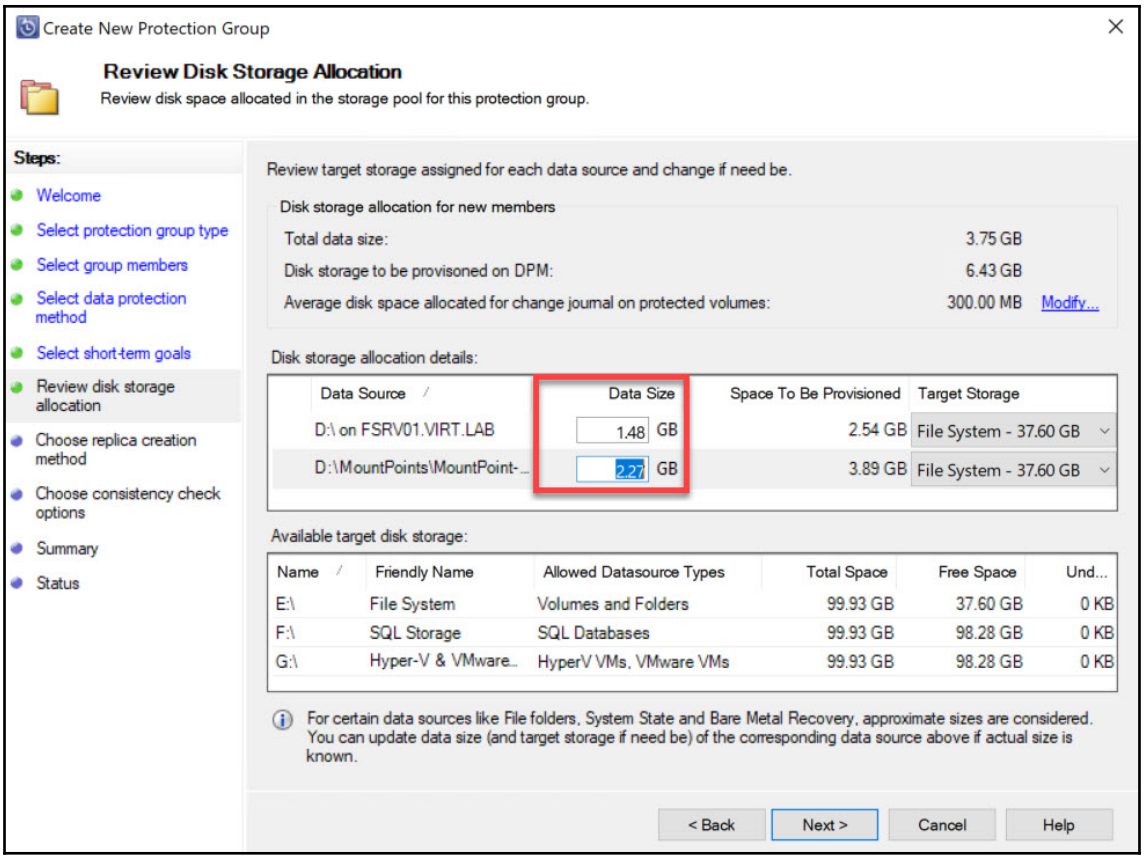

System Center DPM Administrator Console
File Action View Help
New
Consistency check
Recovery point
Remove
Move disk storage
Disk
Online
Tape
Self service recovery
Disk allocation
Tape catalog retention
Recovery point status
Check updates
Options
About
Protecti...
Data source operations
Resume backups
Manage
Reports
Options
Help
Data Source Health
Critical (0)
OK (11)
Warning (0)
All Protection Groups
File Server Protection Group
SQL Protection Group
Monitoring
Protection
Group by: Protection group Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: File Server Protection Group (Total members: 5)
Computer: FSRV01.VIRT.LAB
\\FSRV01.VIRT.LAB\Users Documents Share OK Enabled
D:\Backup Folder OK Enabled
D:\DATA-02 Folder OK Enabled
D:\DATA-03 Folder OK Enabled
D:\MountPoints\MountPoint-FSRV01 Volume OK -
Details: \\FSRV01.VIRT.LAB\Users Documents
Status: OK
Replica path: Click to view details
Latest recovery point: 11/11/2018 8:54:45 AM
Oldest recovery point: 11/11/2018 8:54:45 AM
Total recovery points: 1
Storage consumed: 273.13 MB

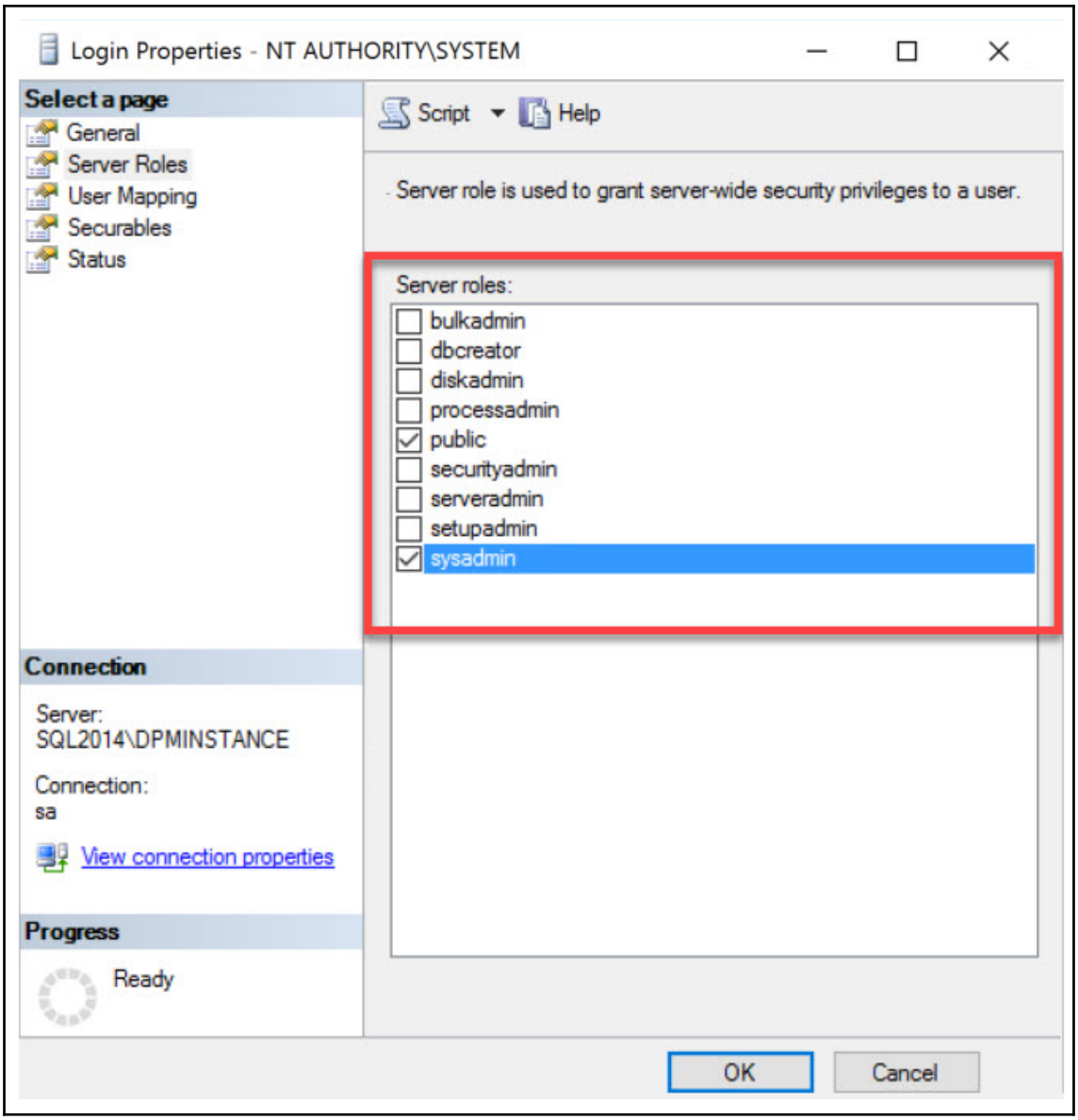

System Center DPM Administrator Console
File Action View Help
New
Modify
Add online protection
Delete
Optimize
Protection group
Check updates
Options
Options
Data Source Health
Critical (0)
OK (10)
Warning (0)
All Protection Groups
File Server Protection Group
SQL Protection Group
Monitoring
Protection
Recovery
Reporting
Management
Search in details also (Slow)
Online Protection
Enabled
Enabled
Enabled
Stop Protection - File Server Protection Group
You have chosen to stop protecting File Server Protection Group.
You are removing members from a protection group. Do you want to delete associated replicas and tapes (if applicable) by expiring the data sets stored in them?
Retain protected data
Retains the replica on the disk with associated recovery points and tapes for the specified retention range.
Delete protected data
Deletes the replica on disk (if replica is on custom volume then custom volume will be deleted) and marks the tape data as expired. The tapes will be marked as free and available for use by other protection
Delete data source replicas from disk
Delete storage online
Deleted backup data will be retained for 14 days. After that time, backup data will be permanently deleted.
Protected data details
Replica on Disk
Online
Disk space used by selected data sources: 1.27 GB
Current free disk space in the DPM storage pool: 93.41 GB
Details of disk space used by replica:
Source
Disk Space Used in DPM
D:\MountPoints\MountPoint-FSRV01 on FSRV01.VIRT.LAB
1.01 GB
D:\ on FSRV01.VIRT.LAB
273.50 MB
Stop Protection
Cancel
Help

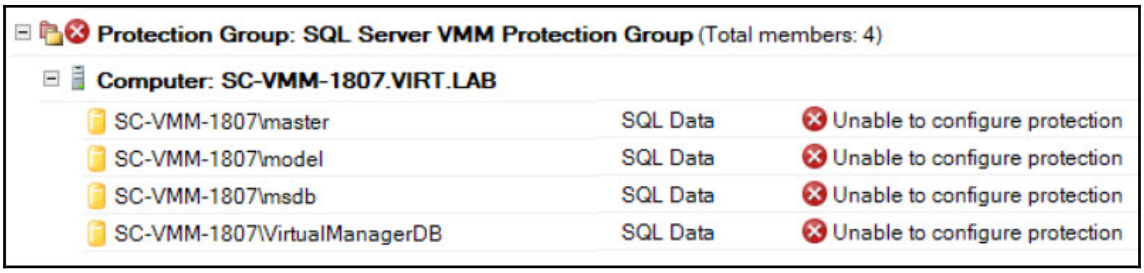

System Center DPM Administrator Console
File
Action
View
Help
New
Consistency check
Recovery point
Remove
Move disk storage
Disk
Online
Tape
Self service recovery
Disk allocation
Tape catalog retention
Recovery point status
Check updates
Options
About
Protecti...
Data source operations
Resume backups
Manage
Reports
Options
Help
Data Source Health
Critical (0)
OK (10)
Warning (0)
All Protection Groups
File Server Protection Group
SQL Protection Group
Monitoring
Protection
Recovery
Reporting
Management
Group by:
Protection group
Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: File Server Protection Group (Total members: 4)
Computer: FSRV01.VIRT.LAB
\\FSRV01.VIRT.LAB\Users Documents
Share
OK
Enabled
D:\DATA-02
Folder
OK
D:\DATA-03
Folder
OK
D:\MountPoints\MountPoint-FSRV01
Volume
OK
Protection Group: SQL Protection Group (Total members: 6)
Computer: SC-DPM-1807.VIRT.LAB
SC-DPM-1807\DPMDB_SC_DPM_1807
SQL Data
OK
SC-DPM-1807\master
SQL Data
OK
SC-DPM-1807\model
SQL Data
OK
SC-DPM-1807\msdb
SQL Data
OK
SC-DPM-1807\ReportServer
SQL Data
OK
SC-DPM-1807\ReportServerTempDB
SQL Data
OK
Perform consistency check ...
Create recovery point...
Stop protection of member...
Remove inactive protection...
Move disk storage...
Switch disaster protection
Modify disk allocation...
Resume disk backups...
Resume azure backups...
Resume tape backups...
Recovery point status...
Details:
D:\DATA-02
Status:
OK
Replica path:
Click to view details
Latest recovery point:
11/11/2018 8:54:45 AM
Oldest recovery point:
11/11/2018 8:54:45 AM

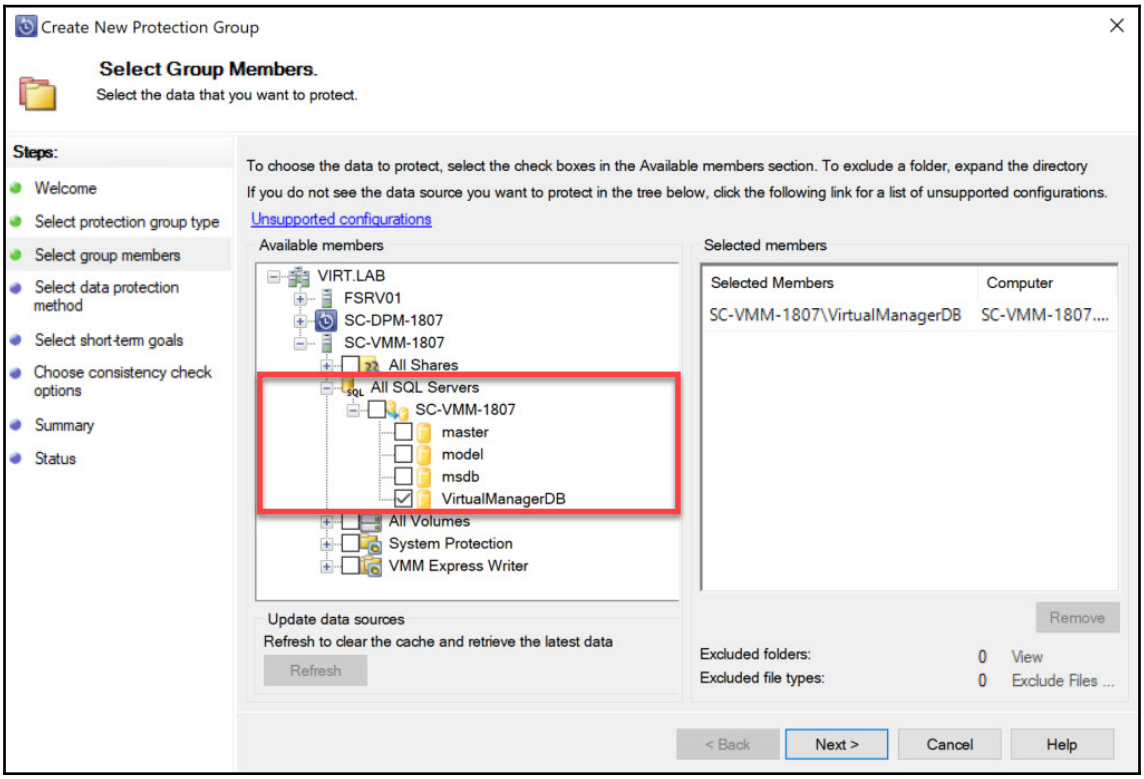

System Center DPM Administrator Console
File Action View Help
Recover
Show all versions
Add External DPM
Recovery
End-user recovery
Configure
Check updates
Options
Options
About
Help
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
FSRV01
All Protected Shares
Users Documents
All Protected Volumes
D:\
D:\MountPoints\MountPoint-FSRV01
SC-DPM-1807
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: D:\
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
November
2018
November 2018
Sun Mon Tue Wed Thu Fri Sat
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
Recovery date: 11/11/2018
Recovery time: 8:54 AM
Recover from: Disk
Path: D:\
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
Users Documents 10/25/2018 7:55:39 AM -
DATA-03 10/25/2018 7:55:36 AM -
DATA-02 10/25/2018 7:55:34 AM -
Backup 9/5/2018 8:41:59 PM -

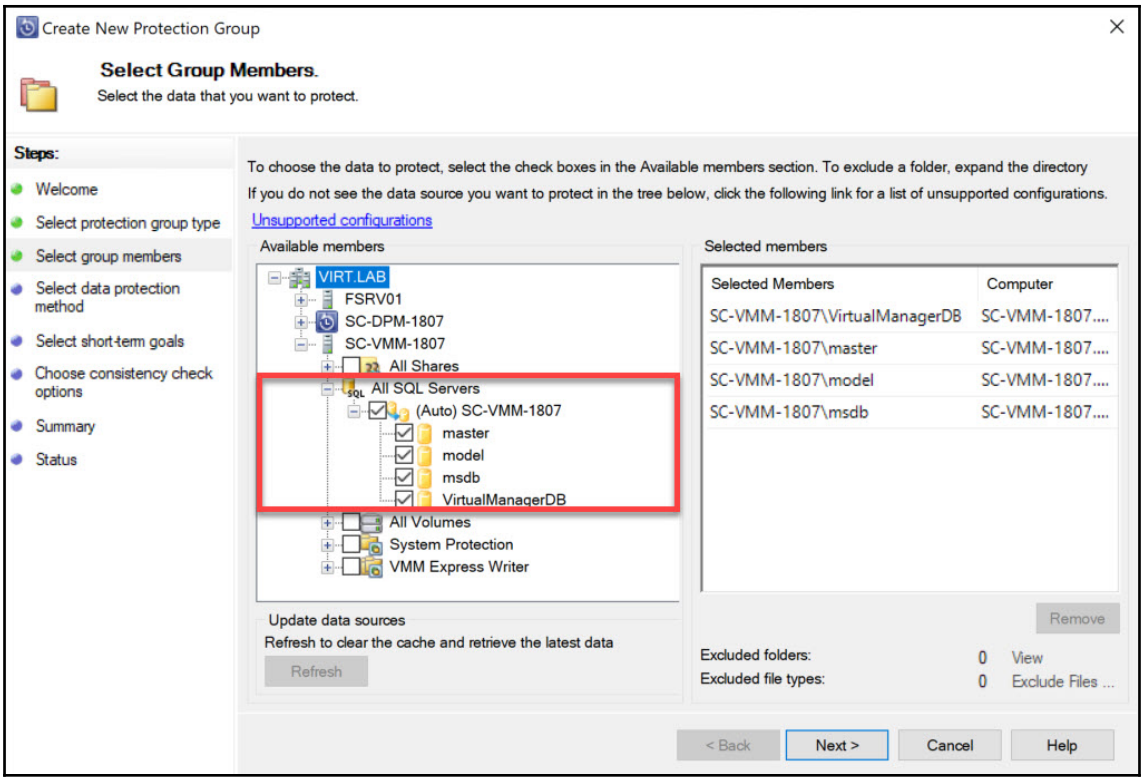

Registry Editor
File Edit View Favorites Help
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft Data Protection Manager\Configuration\DiskStorage
Microsoft Data Protection Manager
1.0
2.0
Agent
Collocation
Configuration
CacheInquiryResults
Client
DiskStorage
MaxParallelIncrementalJobs
ParallelMountDismountSettings
TaskController
VolSnapOptimization
DB
KB
Setup
Name
Type
Data
(Default) REG_SZ (value not set)
DuplicateExtentBatchSizeInMB REG_DWORD 0x00000064 (100)
EnableCustomAllocationOnReFSStorage REG_SZ 1

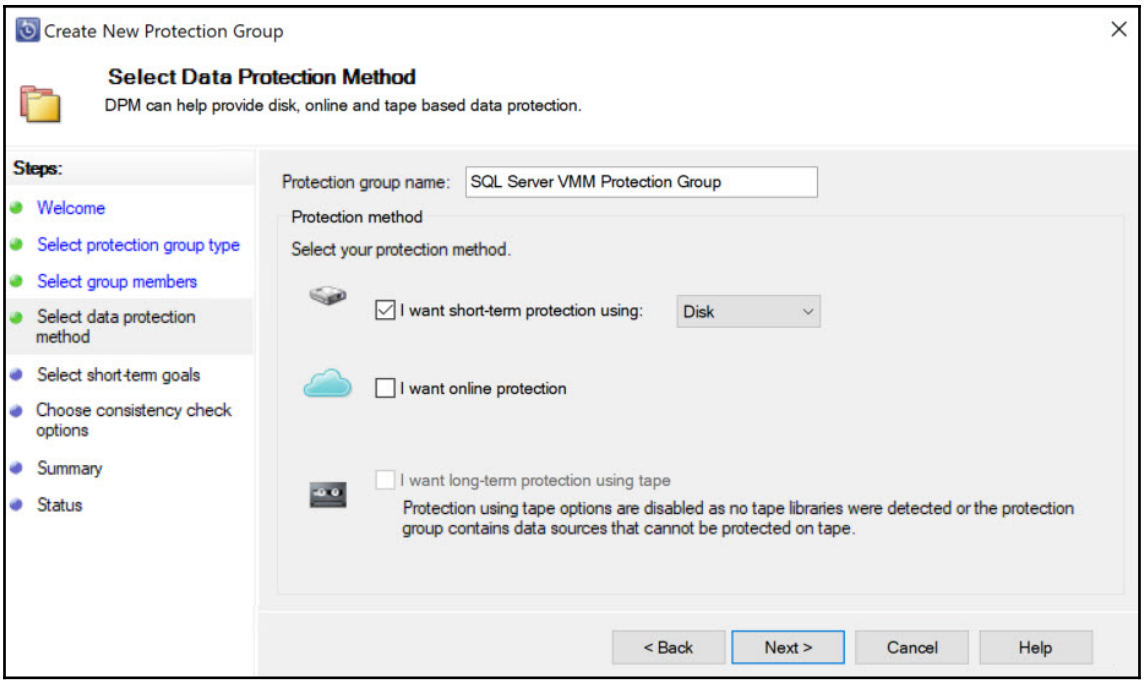

Create New Protection Group
Review Disk Storage Allocation
Review disk space allocated in the storage pool for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review target storage assigned for each data source and change if need be.
Disk storage allocation for new members
Total data size: 3.75 GB
Disk storage to be provisoned on DPM: 6.43 GB
Average disk space allocated for change journal on protected volumes: 300.00 MB Modify...
Disk storage allocation details:
Data Source
Data Size
Space To Be Provisioned
Target Storage
D:\ on FSRV01.VIRT.LAB 1.48 GB 2.54 GB File System - 37.60 GB
D:\MountPoints\MountPoint-... 2.27 GB 3.89 GB File System - 37.60 GB
Available target disk storage:
Name
Friendly Name
Allowed Datasource Types
Total Space
Free Space
Und...
E:\ File System Volumes and Folders 99.93 GB 37.60 GB 0 KB
F:\ SQL Storage SQL Databases 99.93 GB 98.28 GB 0 KB
G:\ Hyper-V & VMware... HyperV VMs, VMware VMs 99.93 GB 98.28 GB 0 KB
For certain data sources like File folders, System State and Bare Metal Recovery, approximate sizes are considered. You can update data size (and target storage if need be) of the corresponding data source above if actual size is known.
< Back
Next >
Cancel
Help

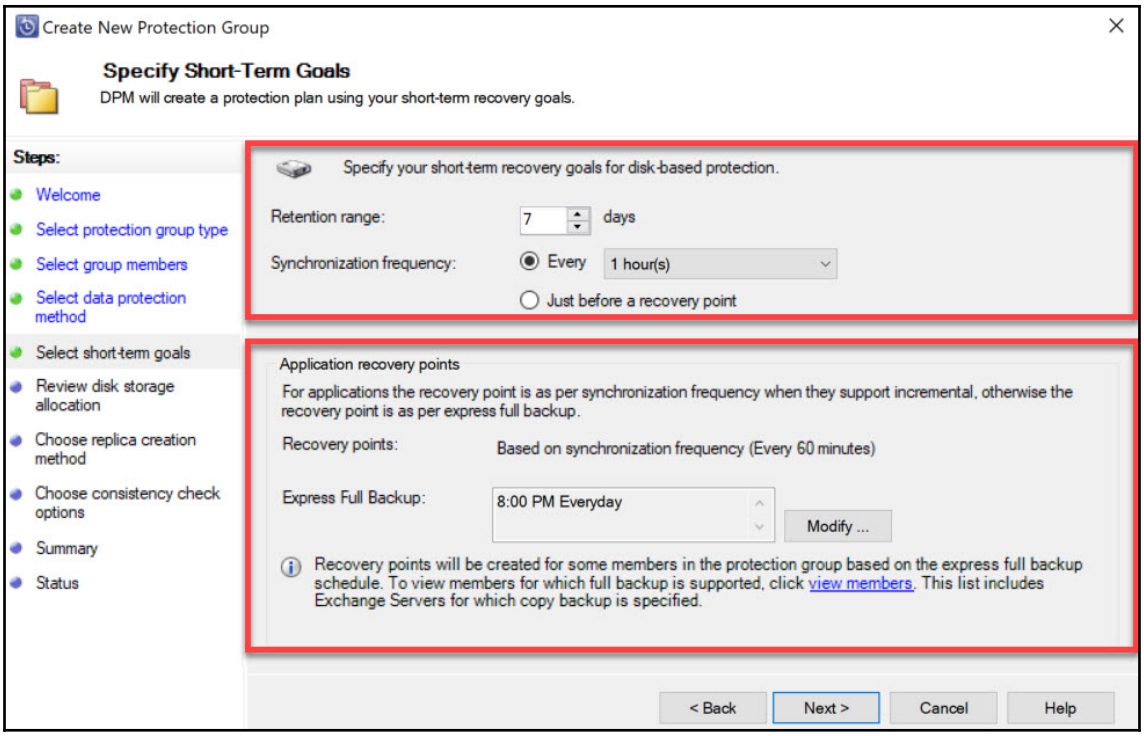

Login Properties - NT AUTHORITY\SYSTEM
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Server role is used to grant server-wide security privileges to a user.
Server roles:
bulkadmin
dbcreator
diskadmin
processadmin
public
securityadmin
serveradmin
setupadmin
sysadmin
Connection
Server:
SQL2014\DPMINSTANCE
Connection:
sa
View connection properties
Progress
Ready
OK
Cancel

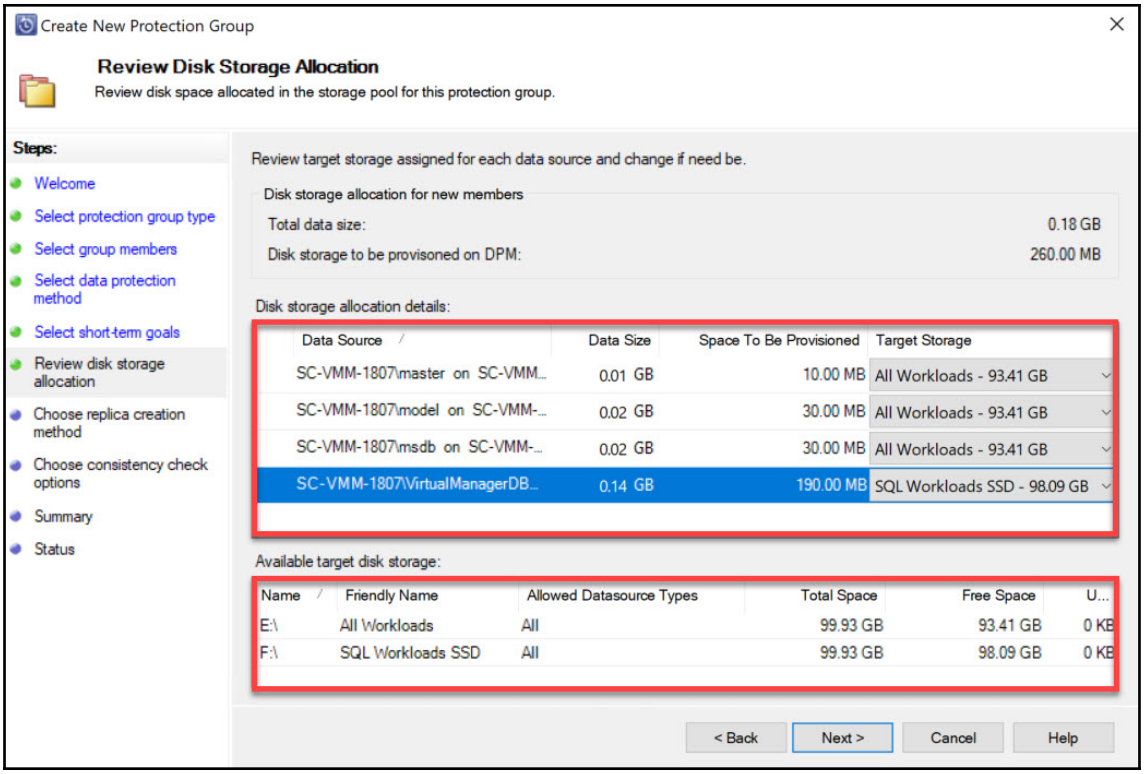

Protection Group: SQL Server VMM Protection Group (Total members: 4)
Computer: SC-VMM-1807.VIRT.LAB
SC-VMM-1807\master
SQL Data
Unable to configure protection
SC-VMM-1807\model
SQL Data
Unable to configure protection
SC-VMM-1807\msdb
SQL Data
Unable to configure protection
SC-VMM-1807\VirtualManagerDB
SQL Data
Unable to configure protection

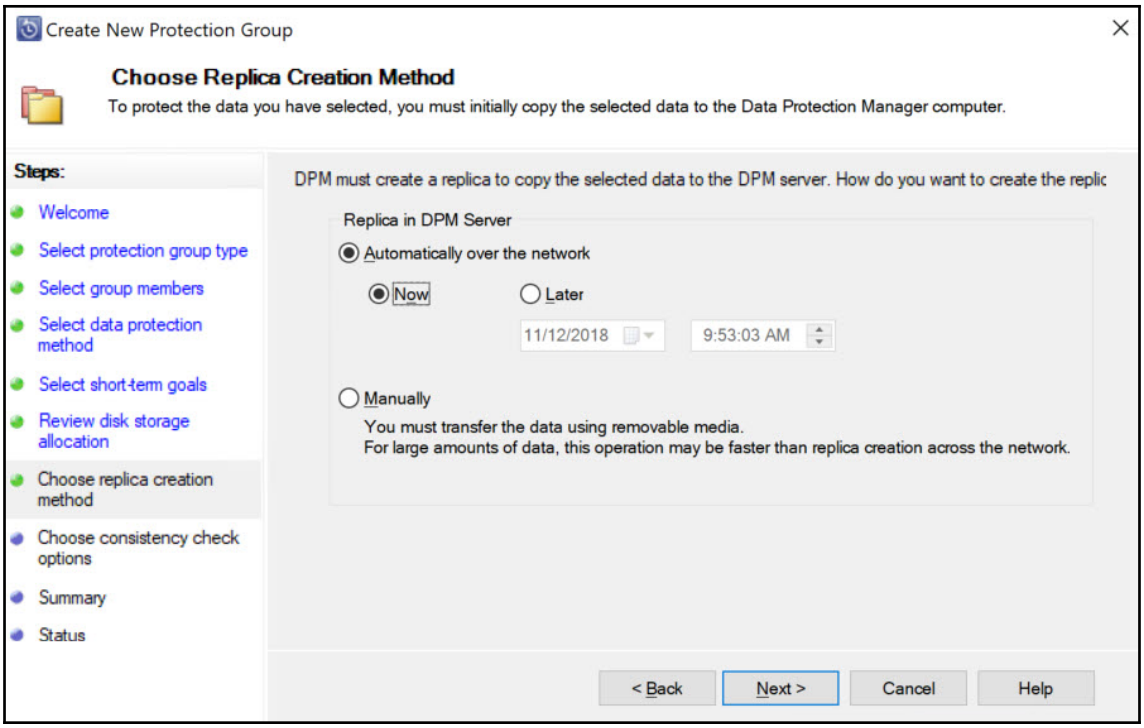

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported configurations.
Unsupported configurations
Available members
VIRT.LAB
FSRV01
SC-DPM-1807
SC-VMM-1807
All Shares
All SQL Servers
SC-VMM-1807
master
model
msdb
VirtualManagerDB
All Volumes
System Protection
VMM Express Writer
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
SC-VMM-1807\VirtualManagerDB
SC-VMM-1807....
Remove
Excluded folders:
0
View
Excluded file types:
0
Exclude Files ...
< Back
Next >
Cancel
Help

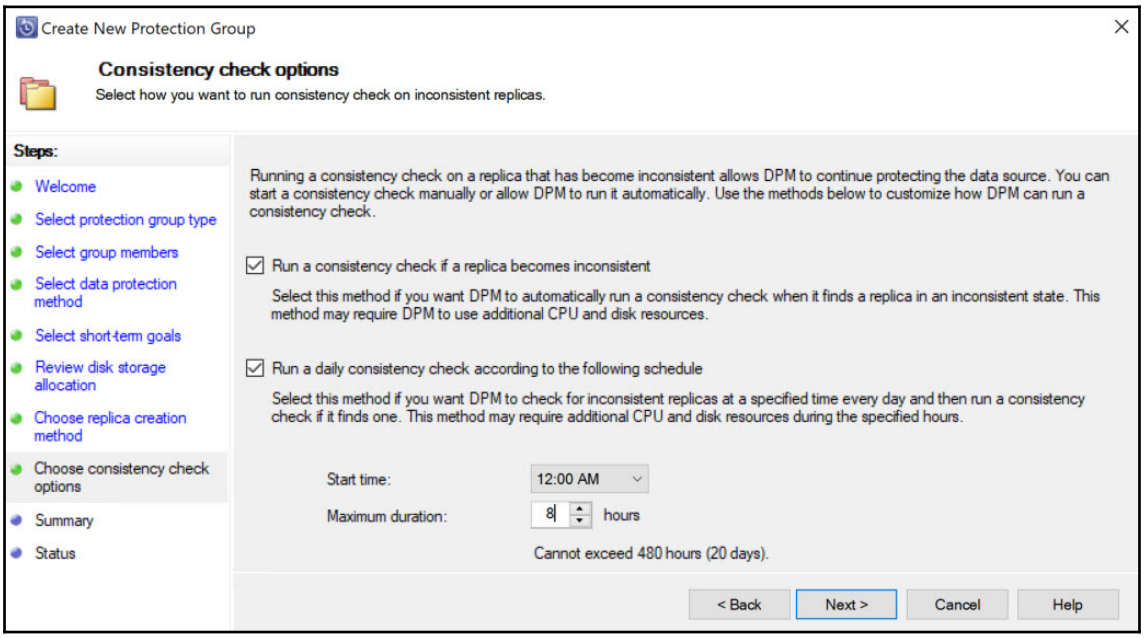

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported configurations.
Unsupported configurations
Available members
VIRT.LAB
FSRV01
SC-DPM-1807
SC-VMM-1807
All Shares
All SQL Servers
(Auto) SC-VMM-1807
master
model
msdb
VirtualManagerDB
All Volumes
System Protection
VMM Express Writer
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
SC-VMM-1807\VirtualManagerDB
SC-VMM-1807....
SC-VMM-1807\master
SC-VMM-1807....
SC-VMM-1807\model
SC-VMM-1807....
SC-VMM-1807\msdb
SC-VMM-1807....
Remove
Excluded folders:
0
View
Excluded file types:
0
Exclude Files ...
< Back
Next >
Cancel
Help

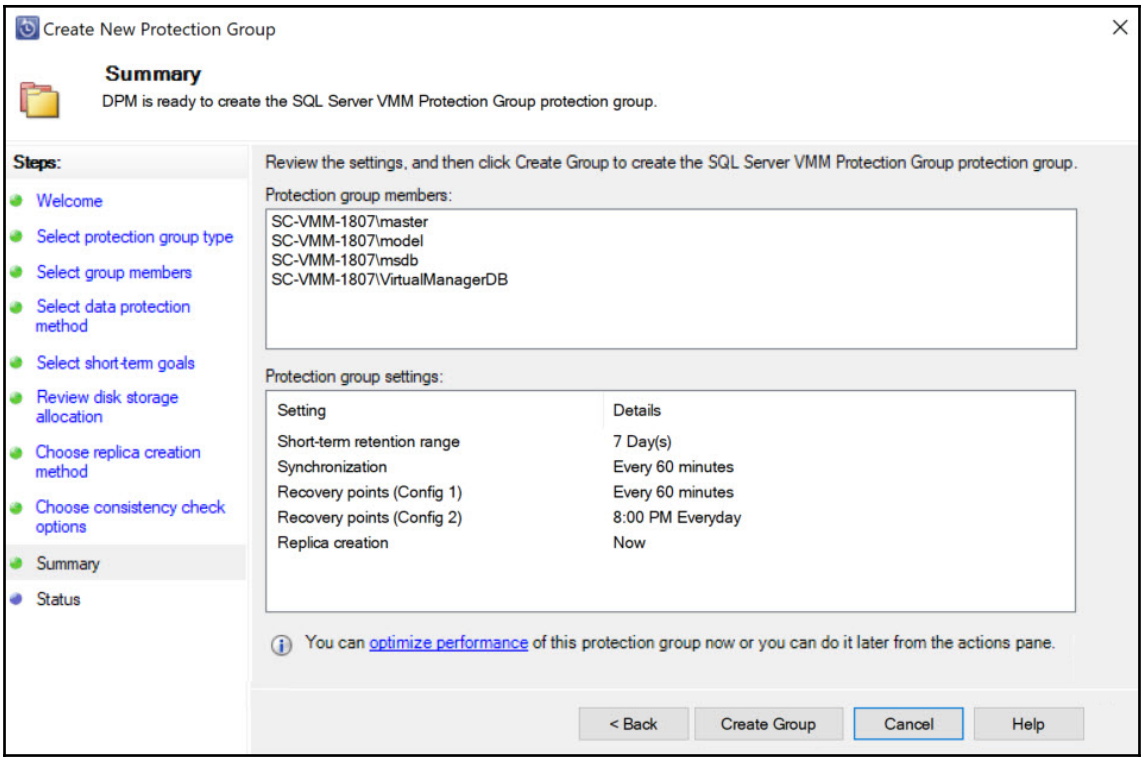

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
Protection group name:
SQL Server VMM Protection Group
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
I want long-term protection using tape
Protection using tape options are disabled as no tape libraries were detected or the protection group contains data sources that cannot be protected on tape.
< Back
Next >
Cancel
Help

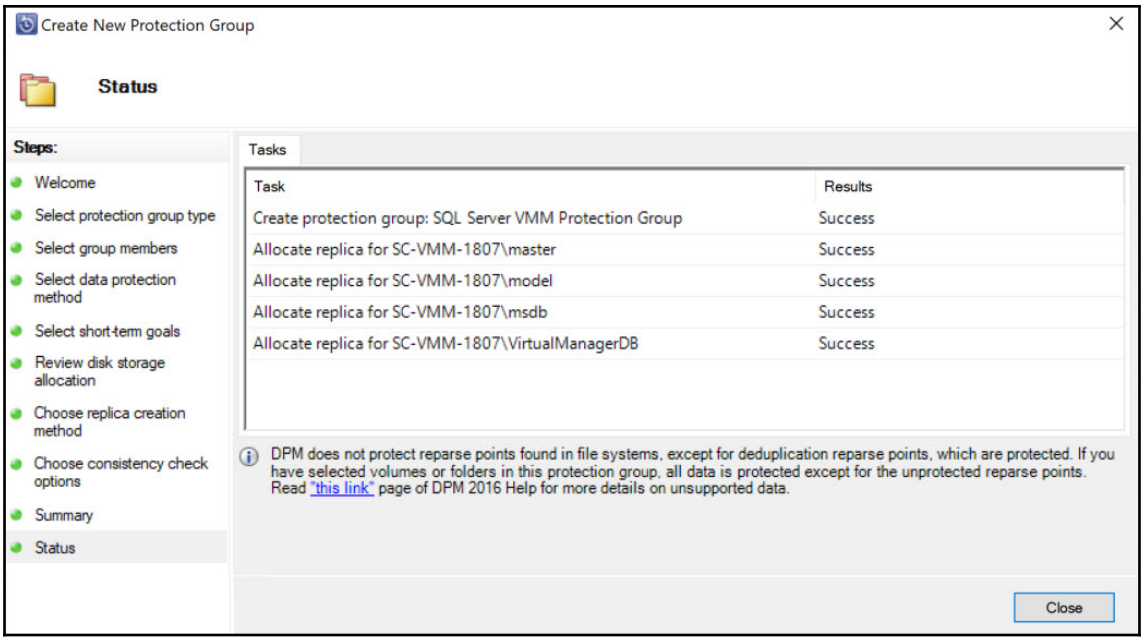

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
7
days
Synchronization frequency:
Every
1 hour(s)
Just before a recovery point
Application recovery points
For applications the recovery point is as per synchronization frequency when they support incremental, otherwise the recovery point is as per express full backup.
Recovery points:
Based on synchronization frequency (Every 60 minutes)
Express Full Backup:
8:00 PM Everyday
Modify ...
Recovery points will be created for some members in the protection group based on the express full backup schedule. To view members for which full backup is supported, click view members. This list includes Exchange Servers for which copy backup is specified.
< Back
Next >
Cancel
Help

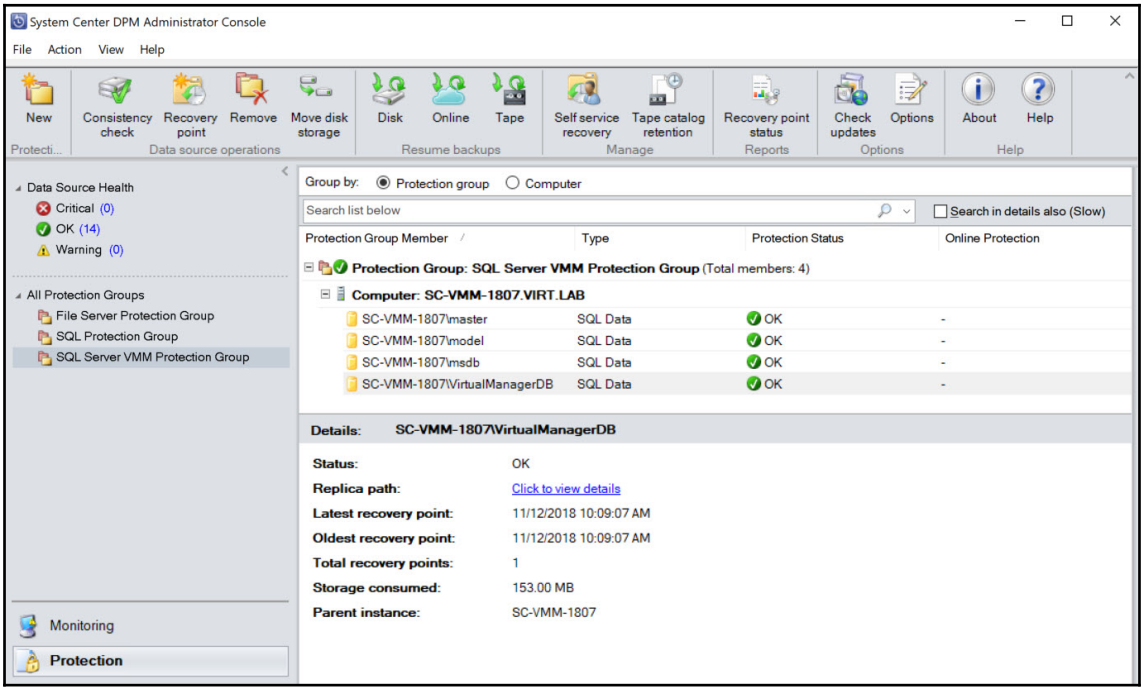

Create New Protection Group
Review Disk Storage Allocation
Review disk space allocated in the storage pool for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review target storage assigned for each data source and change if need be.
Disk storage allocation for new members
Total data size: 0.18 GB
Disk storage to be provisoned on DPM: 260.00 MB
Disk storage allocation details:
Data Source
Data Size
Space To Be Provisioned
Target Storage
SC-VMM-1807\master on SC-VMM... 0.01 GB 10.00 MB All Workloads - 93.41 GB
SC-VMM-1807\model on SC-VMM-... 0.02 GB 30.00 MB All Workloads - 93.41 GB
SC-VMM-1807\msdb on SC-VMM-... 0.02 GB 30.00 MB All Workloads - 93.41 GB
SC-VMM-1807\VirtualManagerDB... 0.14 GB 190.00 MB SQL Workloads SSD - 98.09 GB
Available target disk storage:
Name
Friendly Name
Allowed Datasource Types
Total Space
Free Space
U...
E:\ All Workloads All 99.93 GB 93.41 GB 0 KB
F:\ SQL Workloads SSD All 99.93 GB 98.09 GB 0 KB
< Back
Next >
Cancel
Help

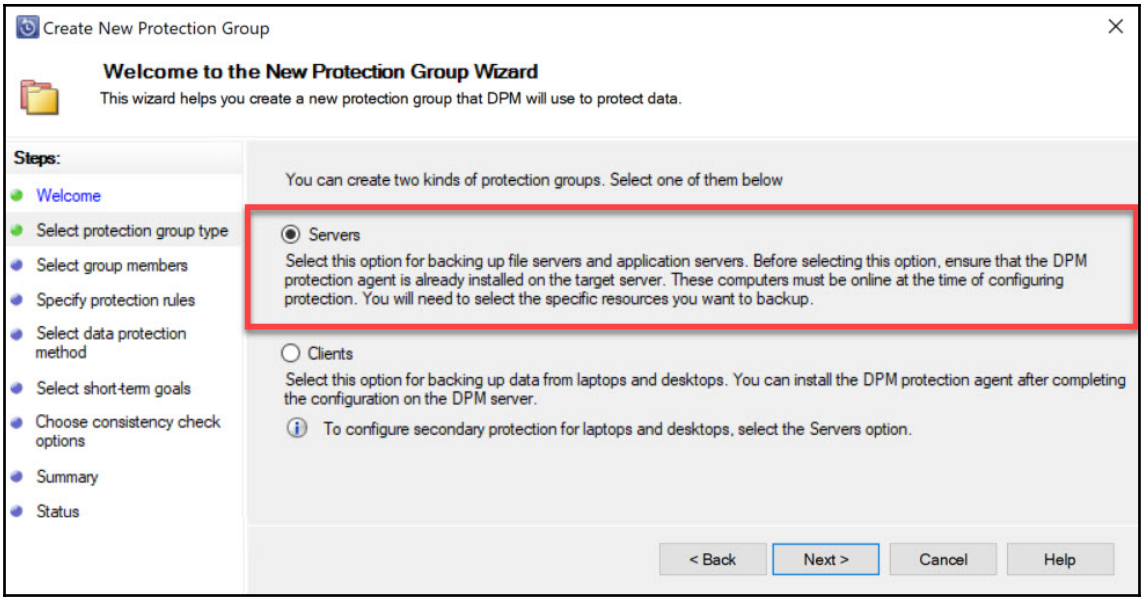

Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
DPM must create a replica to copy the selected data to the DPM server. How do you want to create the replic
Replica in DPM Server
Automatically over the network
Now
Later
11/12/2018
9:53:03 AM
Manually
You must transfer the data using removable media.
For large amounts of data, this operation may be faster than replica creation across the network.
< Back
Next >
Cancel
Help

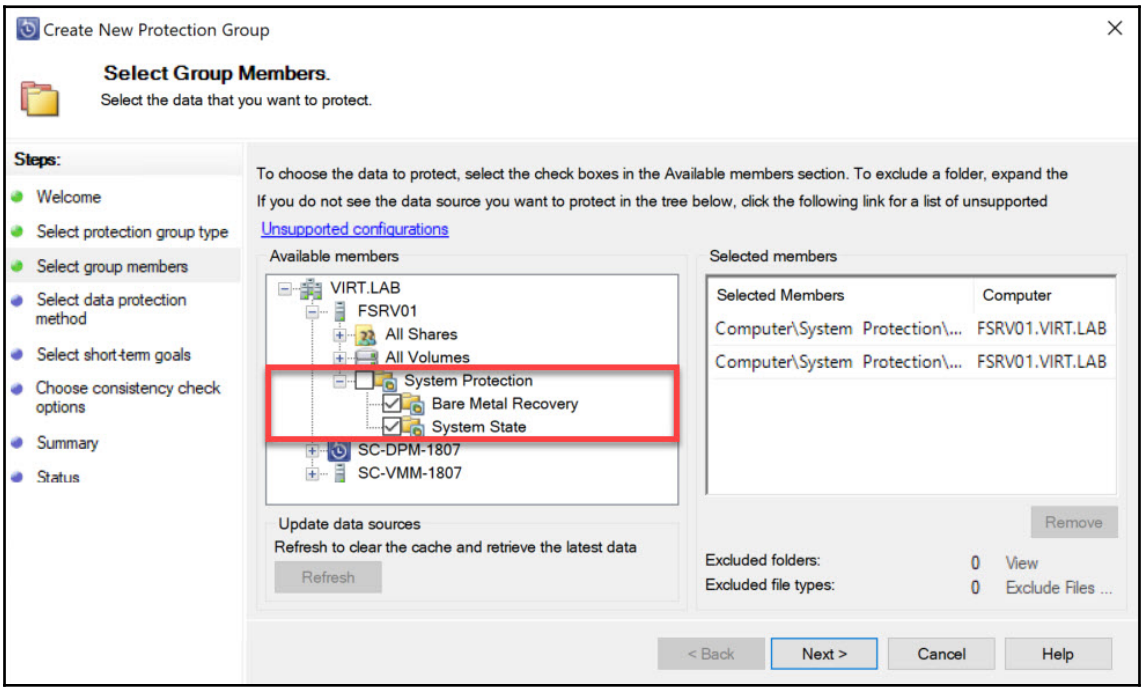

Create New Protection Group
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Running a consistency check on a replica that has become inconsistent allows DPM to continue protecting the data source. You can start a consistency check manually or allow DPM to run it automatically. Use the methods below to customize how DPM can run a consistency check.
Run a consistency check if a replica becomes inconsistent
Select this method if you want DPM to automatically run a consistency check when it finds a replica in an inconsistent state. This method may require DPM to use additional CPU and disk resources.
Run a daily consistency check according to the following schedule
Select this method if you want DPM to check for inconsistent replicas at a specified time every day and then run a consistency check if it finds one. This method may require additional CPU and disk resources during the specified hours.
Start time:
12:00 AM
Maximum duration:
8
hours
Cannot exceed 480 hours (20 days).
< Back
Next >
Cancel
Help

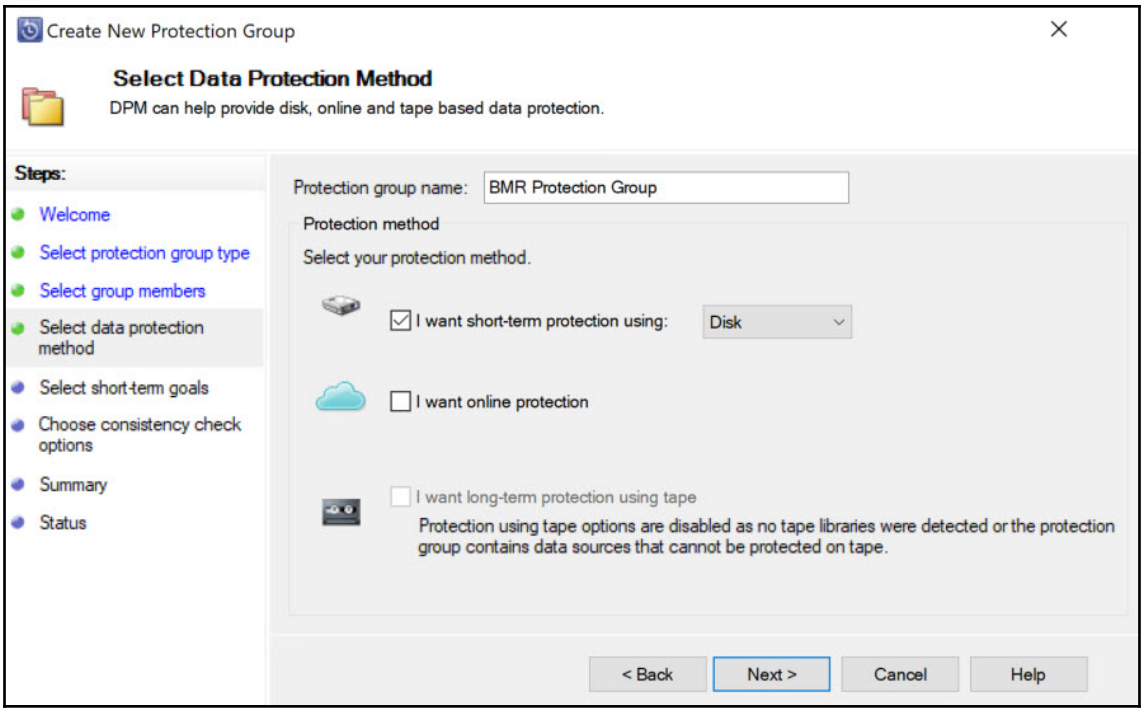

Create New Protection Group
Summary
DPM is ready to create the SQL Server VMM Protection Group protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review the settings, and then click Create Group to create the SQL Server VMM Protection Group protection group.
Protection group members:
SC-VMM-1807\master
SC-VMM-1807\model
SC-VMM-1807\msdb
SC-VMM-1807\VirtualManagerDB
Protection group settings:
Setting
Details
Short-term retention range
7 Day(s)
Synchronization
Every 60 minutes
Recovery points (Config 1)
Every 60 minutes
Recovery points (Config 2)
8:00 PM Everyday
Replica creation
Now
You can optimize performance of this protection group now or you can do it later from the actions pane.
< Back
Create Group
Cancel
Help

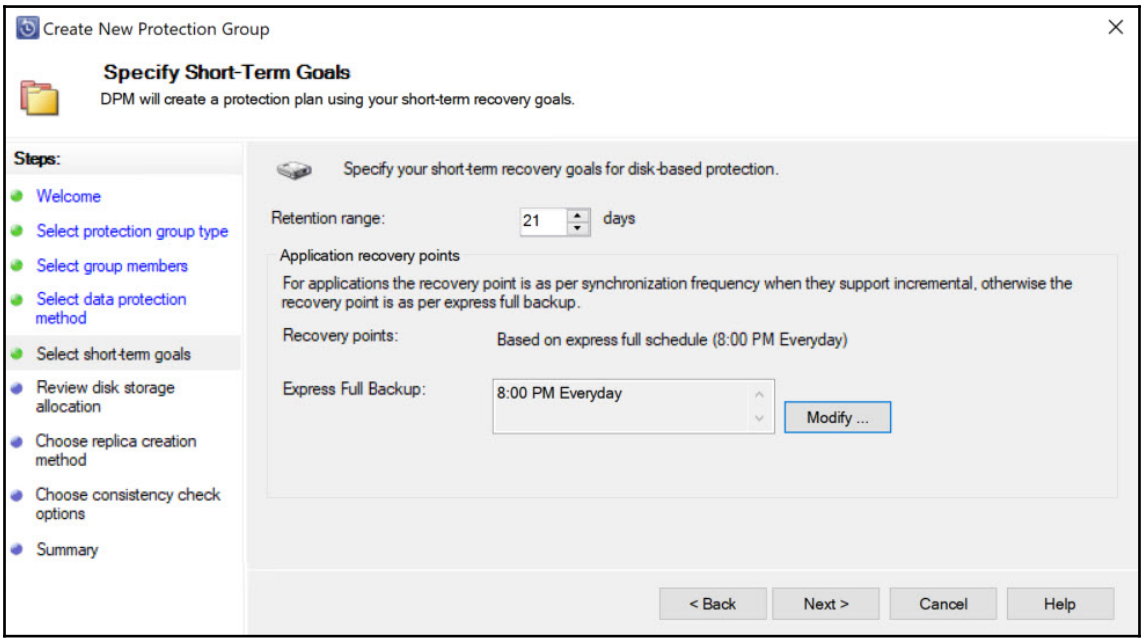

Create New Protection Group
Status
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Tasks
Task
Results
Create protection group: SQL Server VMM Protection Group
Success
Allocate replica for SC-VMM-1807\master
Success
Allocate replica for SC-VMM-1807\model
Success
Allocate replica for SC-VMM-1807\msdb
Success
Allocate replica for SC-VMM-1807\VirtualManagerDB
Success
DPM does not protect reparse points found in file systems, except for deduplication reparse points, which are protected. If you have selected volumes or folders in this protection group, all data is protected except for the unprotected reparse points. Read "this link" page of DPM 2016 Help for more details on unsupported data.
Close

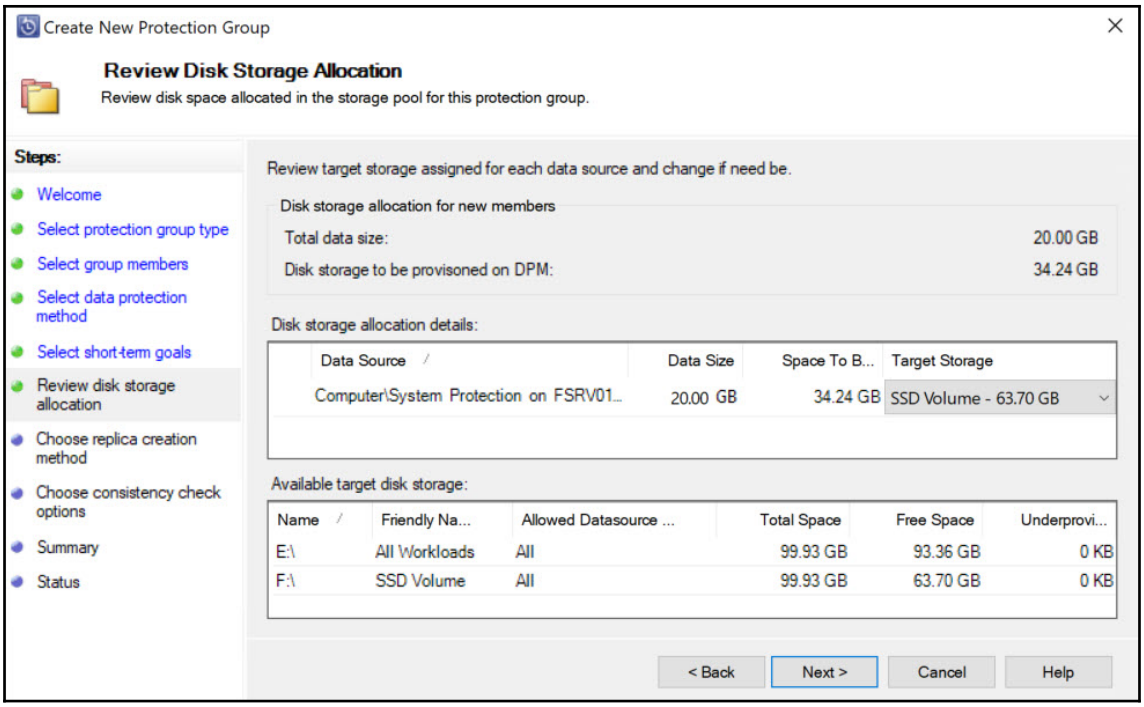

System Center DPM Administrator Console
File
Action
View
Help
New
Consistency check
Recovery point
Remove
Move disk storage
Disk
Online
Tape
Self service recovery
Tape catalog retention
Recovery point status
Check updates
Options
About
Help
Data source operations
Resume backups
Manage
Reports
Options
Help
Data Source Health
Critical (0)
OK (14)
Warning (0)
All Protection Groups
File Server Protection Group
SQL Protection Group
SQL Server VMM Protection Group
Monitoring
Protection
Group by:
Protection group
Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: SQL Server VMM Protection Group (Total members: 4)
Computer: SC-VMM-1807.VIRT.LAB
SC-VMM-1807\master
SQL Data
OK
SC-VMM-1807\model
SQL Data
OK
SC-VMM-1807\msdb
SQL Data
OK
SC-VMM-1807\VirtualManagerDB
SQL Data
OK
Details:
SC-VMM-1807\VirtualManagerDB
Status:
OK
Replica path:
Click to view details
Latest recovery point:
11/12/2018 10:09:07 AM
Oldest recovery point:
11/12/2018 10:09:07 AM
Total recovery points:
1
Storage consumed:
153.00 MB
Parent instance:
SC-VMM-1807

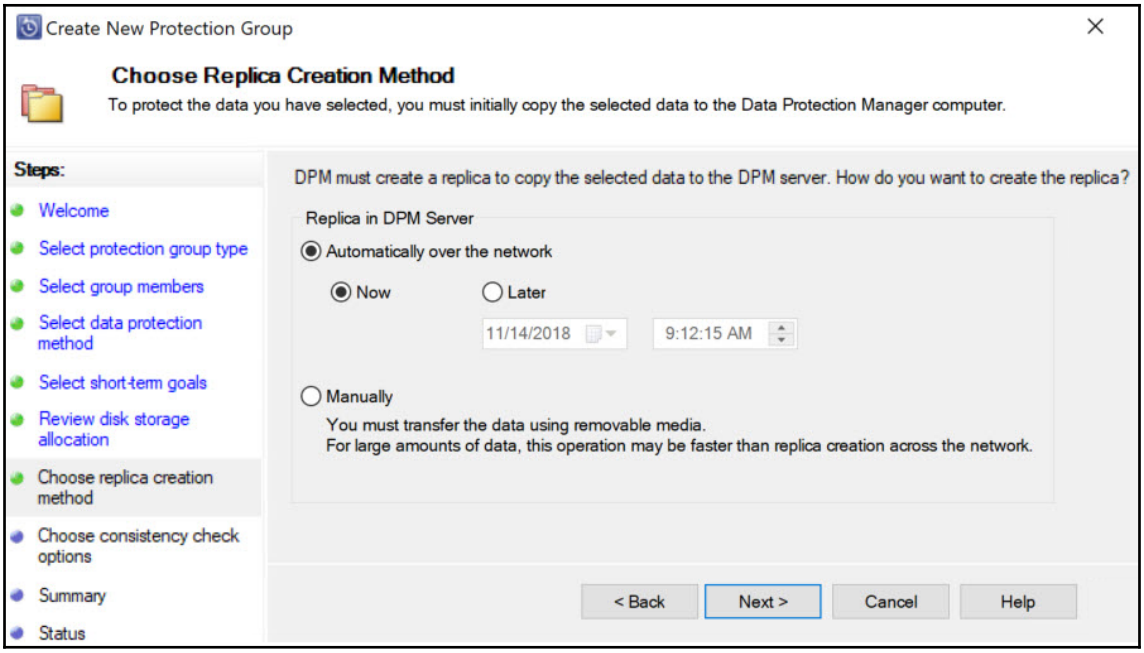

Create New Protection Group
Welcome to the New Protection Group Wizard
This wizard helps you create a new protection group that DPM will use to protect data.
Steps:
Welcome
Select protection group type
Select group members
Specify protection rules
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
You can create two kinds of protection groups. Select one of them below
Servers
Select this option for backing up file servers and application servers. Before selecting this option, ensure that the DPM protection agent is already installed on the target server. These computers must be online at the time of configuring protection. You will need to select the specific resources you want to backup.
Clients
Select this option for backing up data from laptops and desktops. You can install the DPM protection agent after completing the configuration on the DPM server.
To configure secondary protection for laptops and desktops, select the Servers option.
< Back
Next >
Cancel
Help

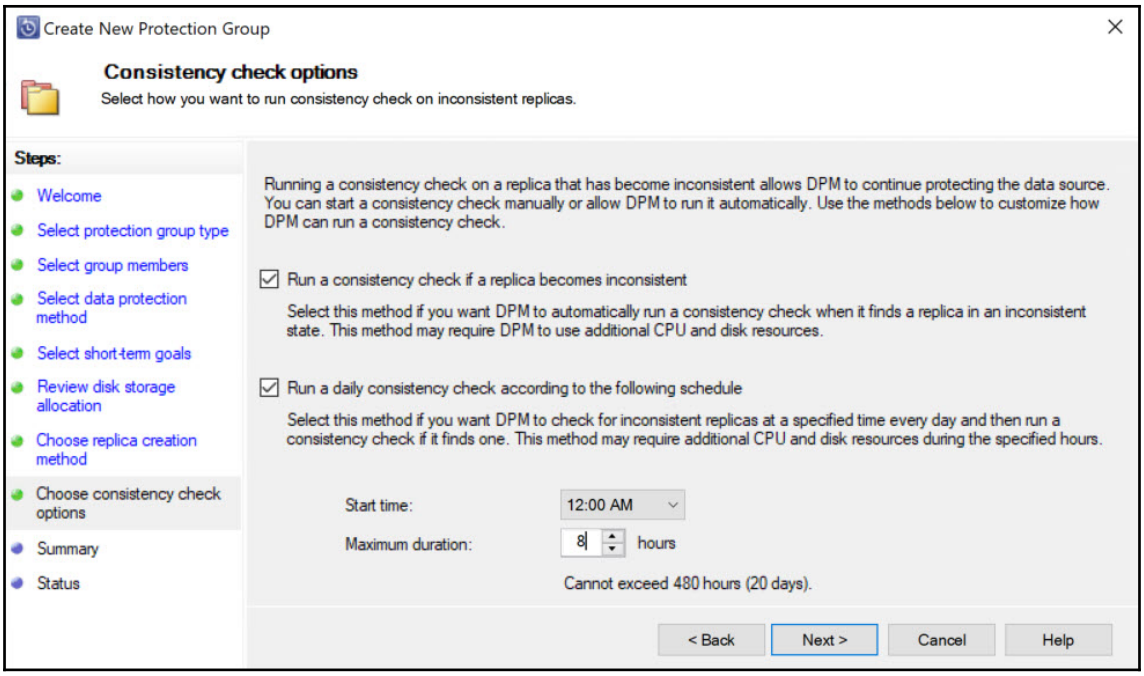

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported
Unsupported configurations
Available members
VIRT.LAB
FSRV01
All Shares
All Volumes
System Protection
Bare Metal Recovery
System State
SC-DPM-1807
SC-VMM-1807
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
Computer\System Protection\... FSRV01.VIRT.LAB
Computer\System Protection\... FSRV01.VIRT.LAB
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

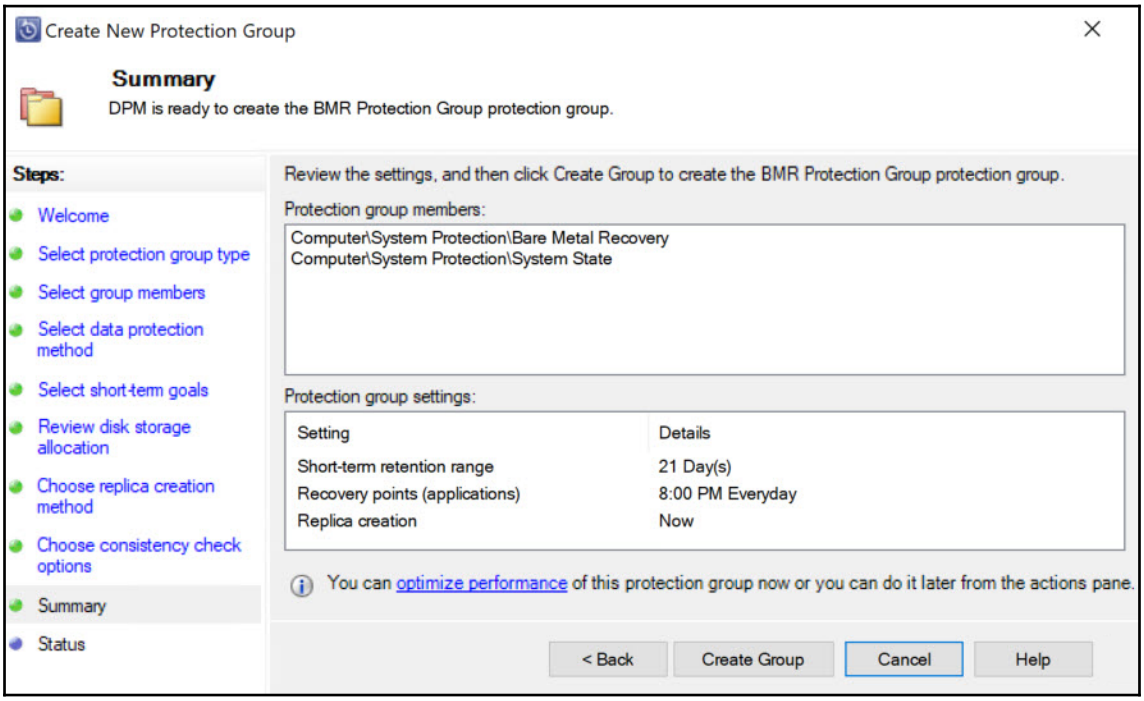

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
Protection group name:
BMR Protection Group
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
I want long-term protection using tape
Protection using tape options are disabled as no tape libraries were detected or the protection group contains data sources that cannot be protected on tape.
< Back
Next >
Cancel
Help

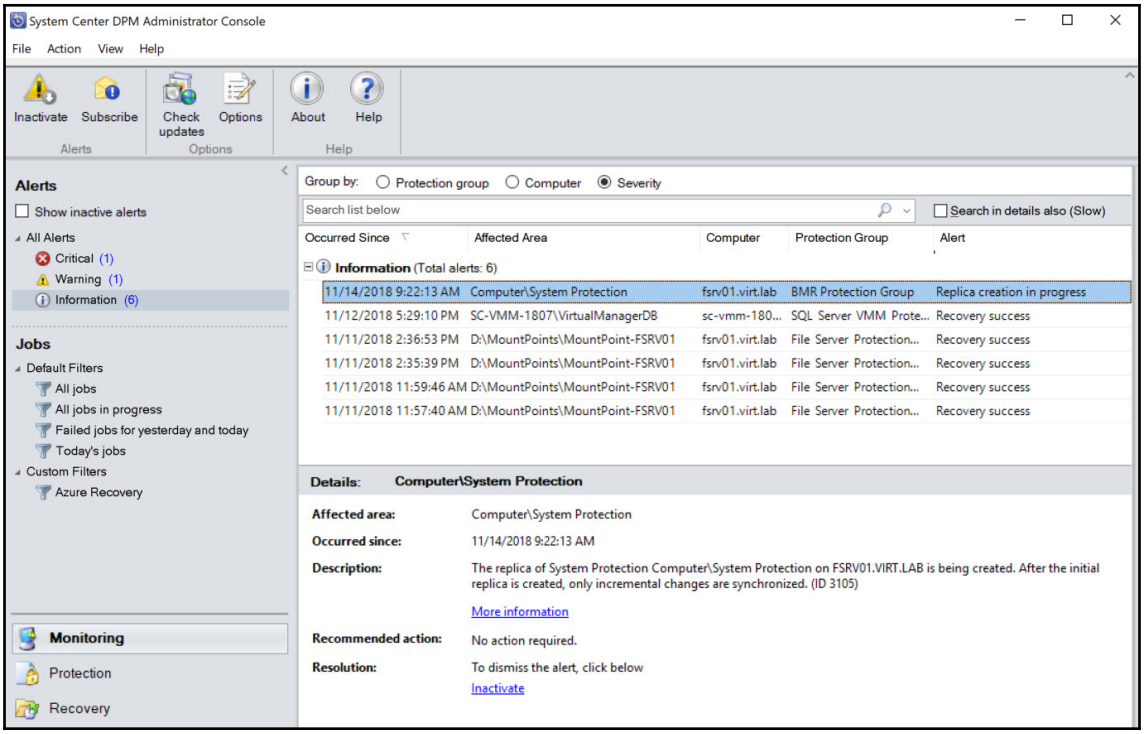

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Specify your short-term recovery goals for disk-based protection.
Retention range:
21
days
Application recovery points
For applications the recovery point is as per synchronization frequency when they support incremental, otherwise the recovery point is as per express full backup.
Recovery points:
Based on express full schedule (8:00 PM Everyday)
Express Full Backup:
8:00 PM Everyday
Modify ...
< Back
Next >
Cancel
Help

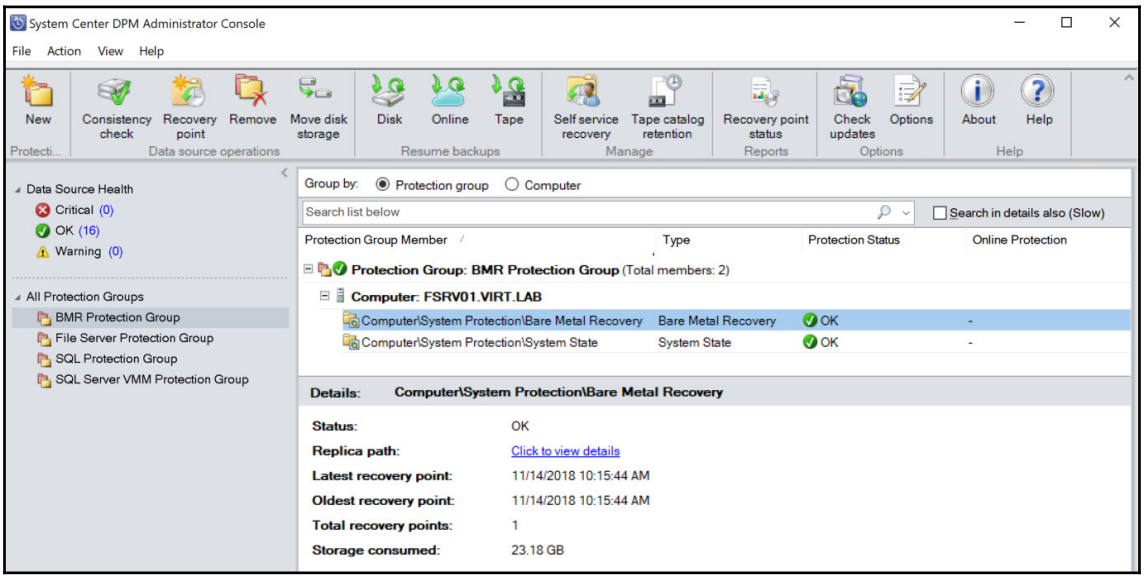

Create New Protection Group
Review Disk Storage Allocation
Review disk space allocated in the storage pool for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review target storage assigned for each data source and change if need be.
Disk storage allocation for new members
Total data size: 20.00 GB
Disk storage to be provisoned on DPM: 34.24 GB
Disk storage allocation details:
Data Source
Data Size
Space To B...
Target Storage
Computer\System Protection on FSRV01...
20.00 GB
34.24 GB
SSD Volume - 63.70 GB
Available target disk storage:
Name
Friendly Na...
Allowed Datasource ...
Total Space
Free Space
Underprovi...
E:\ All Workloads All 99.93 GB 93.36 GB 0 KB
F:\ SSD Volume All 99.93 GB 63.70 GB 0 KB
< Back
Next >
Cancel
Help


Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
DPM must create a replica to copy the selected data to the DPM server. How do you want to create the replica?
Replica in DPM Server
Automatically over the network
Now
Later
11/14/2018
9:12:15 AM
Manually
You must transfer the data using removable media.
For large amounts of data, this operation may be faster than replica creation across the network.
< Back
Next >
Cancel
Help


Create New Protection Group
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Running a consistency check on a replica that has become inconsistent allows DPM to continue protecting the data source. You can start a consistency check manually or allow DPM to run it automatically. Use the methods below to customize how DPM can run a consistency check.
Run a consistency check if a replica becomes inconsistent
Select this method if you want DPM to automatically run a consistency check when it finds a replica in an inconsistent state. This method may require DPM to use additional CPU and disk resources.
Run a daily consistency check according to the following schedule
Select this method if you want DPM to check for inconsistent replicas at a specified time every day and then run a consistency check if it finds one. This method may require additional CPU and disk resources during the specified hours.
Start time:
12:00 AM
Maximum duration:
8
hours
Cannot exceed 480 hours (20 days).
< Back
Next >
Cancel
Help

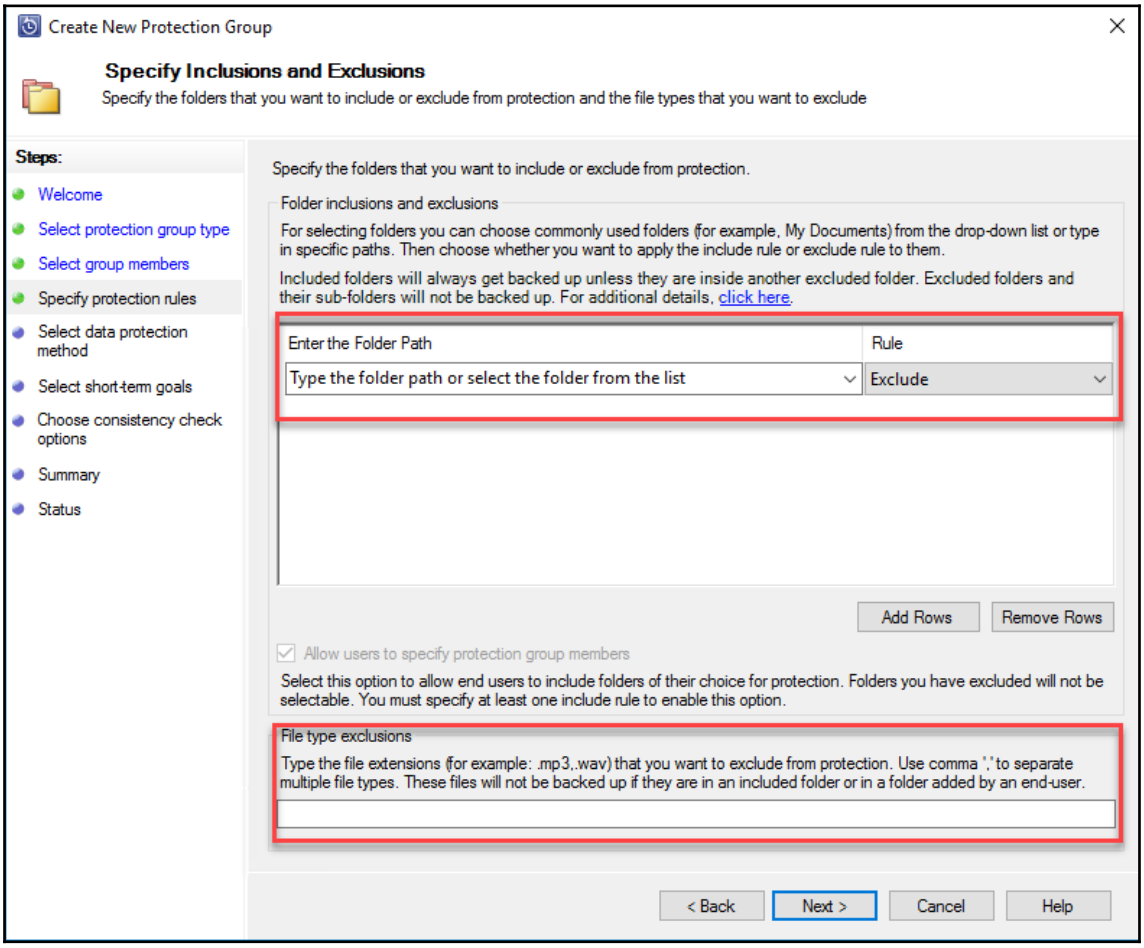

Create New Protection Group
Summary
DPM is ready to create the BMR Protection Group protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review the settings, and then click Create Group to create the BMR Protection Group protection group.
Protection group members:
Computer\System Protection\Bare Metal Recovery
Computer\System Protection\System State
Protection group settings:
Setting
Details
Short-term retention range
21 Day(s)
Recovery points (applications)
8:00 PM Everyday
Replica creation
Now
You can optimize performance of this protection group now or you can do it later from the actions pane.
< Back
Create Group
Cancel
Help

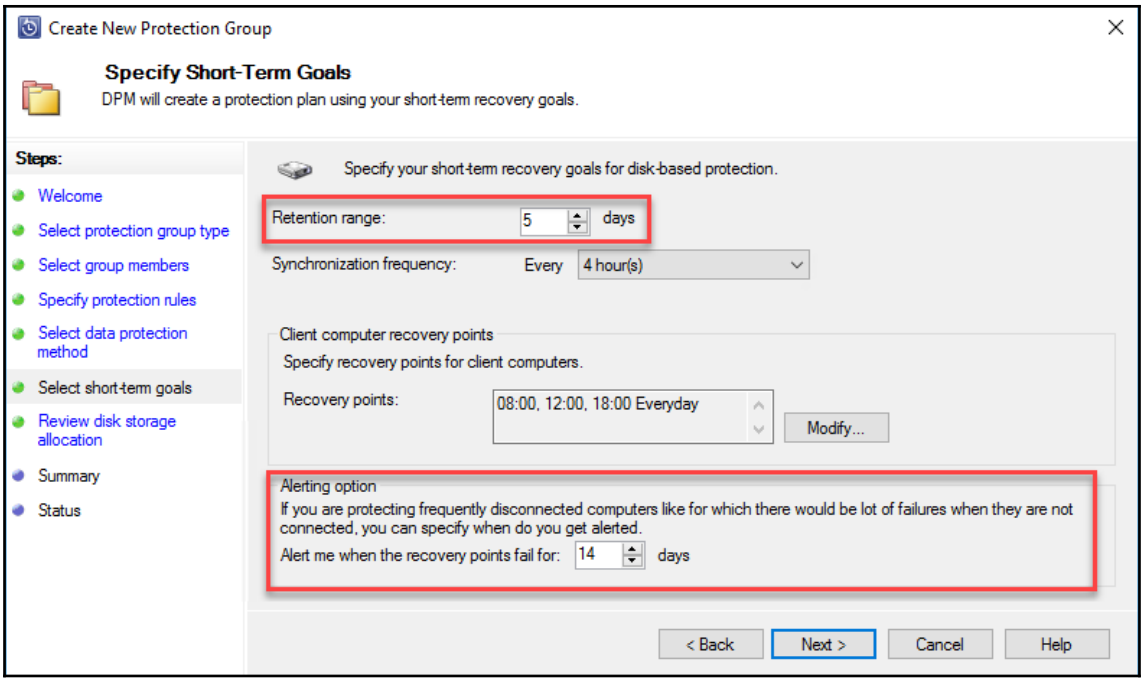

System Center DPM Administrator Console
File Action View Help
Inactivate Subscribe Check updates Options About Help
Alerts Options Help
Alerts
Show inactive alerts
All Alerts
Critical (1)
Warning (1)
Information (6)
Jobs
Default Filters
All jobs
All jobs in progress
Failed jobs for yesterday and today
Today's jobs
Custom Filters
Azure Recovery
Monitoring
Protection
Recovery
Group by: Protection group Computer Severity
Search list below
Search in details also (Slow)
Occurred Since Affected Area Computer Protection Group Alert
Information (Total alerts: 6)
11/14/2018 9:22:13 AM Computer\System Protection fsrv01.virt.lab BMR Protection Group Replica creation in progress
11/12/2018 5:29:10 PM SC-VMM-1807\VirtualManagerDB sc-vmm-180... SQL Server VMM Prote... Recovery success
11/11/2018 2:36:53 PM D:\MountPoints\MountPoint-FSRV01 fsrv01.virt.lab File Server Protection... Recovery success
11/11/2018 2:35:39 PM D:\MountPoints\MountPoint-FSRV01 fsrv01.virt.lab File Server Protection... Recovery success
11/11/2018 11:59:46 AM D:\MountPoints\MountPoint-FSRV01 fsrv01.virt.lab File Server Protection... Recovery success
11/11/2018 11:57:40 AM D:\MountPoints\MountPoint-FSRV01 fsrv01.virt.lab File Server Protection... Recovery success
Details: Computer\System Protection
Affected area: Computer\System Protection
Occurred since: 11/14/2018 9:22:13 AM
Description: The replica of System Protection Computer\System Protection on FSRV01.VIRT.LAB is being created. After the initial replica is created, only incremental changes are synchronized. (ID 3105)
More information
Recommended action: No action required.
Resolution: To dismiss the alert, click below
Inactivate

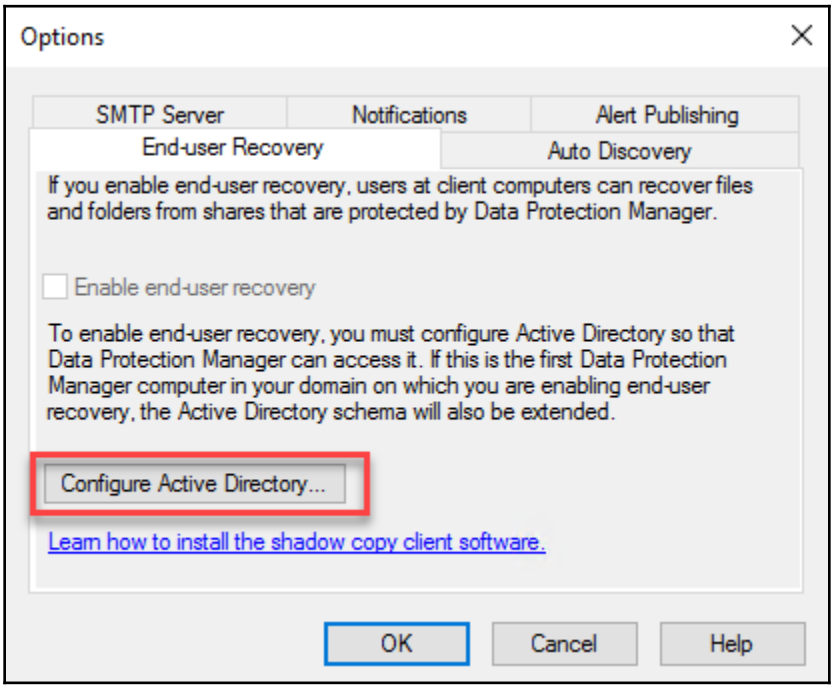

System Center DPM Administrator Console
File Action View Help
New Consistency check Recovery point Remove Move disk storage Disk Online Tape Self service recovery Tape catalog retention Recovery point status Check updates Options About Help
Protecti... Data source operations Resume backups Manage Reports Options Help
Data Source Health
Critical (0)
OK (16)
Warning (0)
All Protection Groups
BMR Protection Group
File Server Protection Group
SQL Protection Group
SQL Server VMM Protection Group
Group by: Protection group Computer
Search list below
Search in details also (Slow)
Protection Group Member Type Protection Status Online Protection
Protection Group: BMR Protection Group (Total members: 2)
Computer: FSRV01.VIRT.LAB
Computer\System Protection\Bare Metal Recovery Bare Metal Recovery OK -
Computer\System Protection\System State System State OK -
Details: Computer\System Protection\Bare Metal Recovery
Status: OK
Replica path: Click to view details
Latest recovery point: 11/14/2018 10:15:44 AM
Oldest recovery point: 11/14/2018 10:15:44 AM
Total recovery points: 1
Storage consumed: 23.18 GB

<Size>1024</Size>
<UseDRWithCC>true</UseDRWithCC>
- <DatasourceCapabilities ExtendedCapabilityFlags="0" WaitForDatasourceServerTypeLock="false"
DisplayTypeField="Disconnected Client" DisplayNameField="ComponentName"
SupportedBackupType="Full">
<DatasourceInfo xmlns="http://schemas.microsoft.com/2003/dls/DatasourceCapability.xsd"
ValidateComponentFlags="15" Version="01.00.0000.00" WriterId="7b2e4c3d-876f-4535-b5c9-
b344d4f05120"/>
<OverlappedOperations
xmlns="http://schemas.microsoft.com/2003/dls/DatasourceCapability.xsd"
BackupRecovery="false" Recovery="false" Backup="0"/>
</DatasourceCapabilities>
</DatasourceConfig>
- <DatasourceConfig>
<WriterId>8c3d00f9-3ce9-4563-b373-19837bc2835e</WriterId>
<Version>01.00.0000.00</Version>
<VssWriterInvolved>false</VssWriterInvolved>
<LogicalPath>Computer</LogicalPath>
<ComponentName>System Protection</ComponentName>
<FilesToProtect>E:\WindowsImageBackup*</FilesToProtect>
<Size>51200</Size>
<UseDRWithCC>true</UseDRWithCC>
- <DatasourceCapabilities ExtendedCapabilityFlags="0" WaitForDatasourceServerTypeLock="false"
DisplayTypeField="System Protection" DisplayNameField="ComponentName"
SupportedBackupType="Full">
<DatasourceInfo xmlns="http://schemas.microsoft.com/2003/dls/DatasourceCapability.xsd"
ValidateComponentFlags="15" Version="01.00.0000.00" WriterId="8c3d00f9-3ce9-4563-b373-
19837bc2835e"/>
<OverlappedOperations
xmlns="http://schemas.microsoft.com/2003/dls/DatasourceCapability.xsd"
BackupRecovery="false" Recovery="false" Backup="0"/>
</DatasourceCapabilities>
</DatasourceConfig>

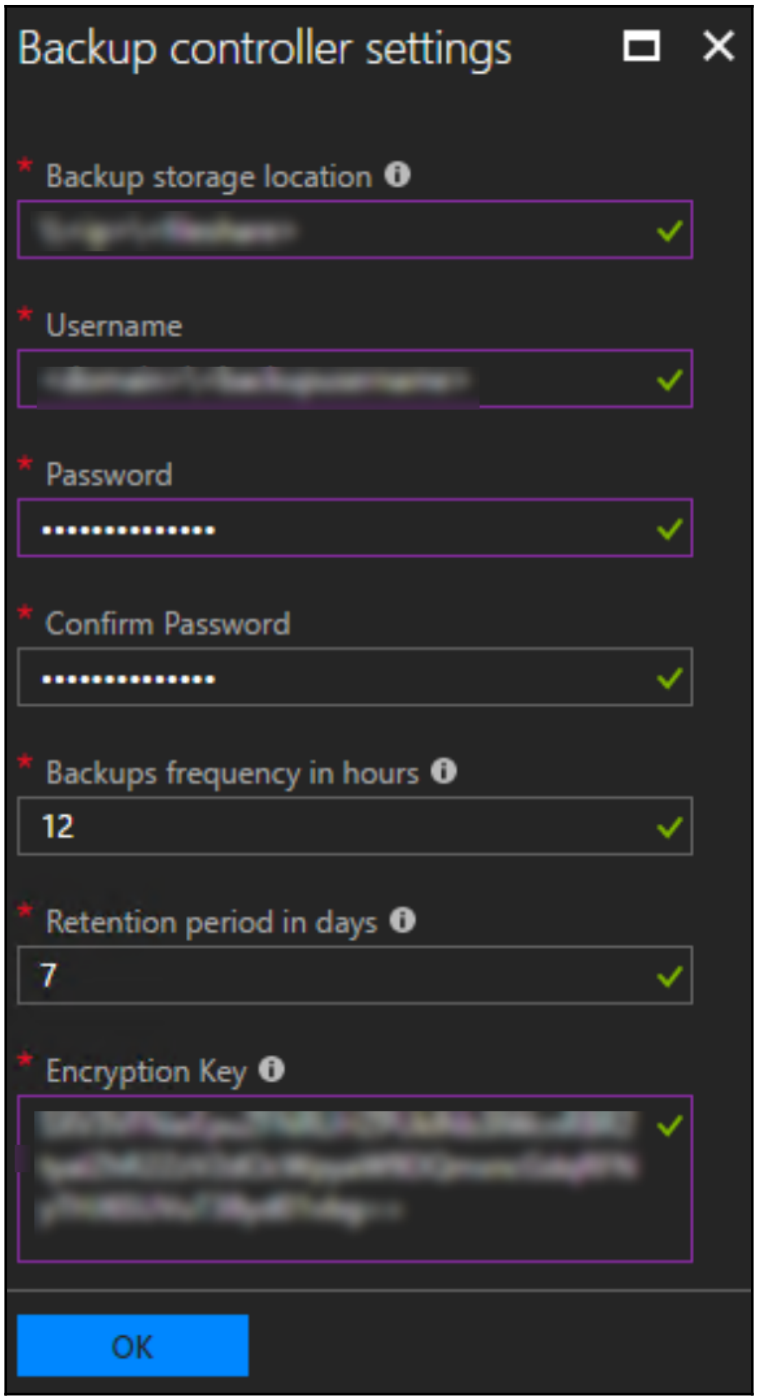
Chapter 6: Securing Windows Client with DPM

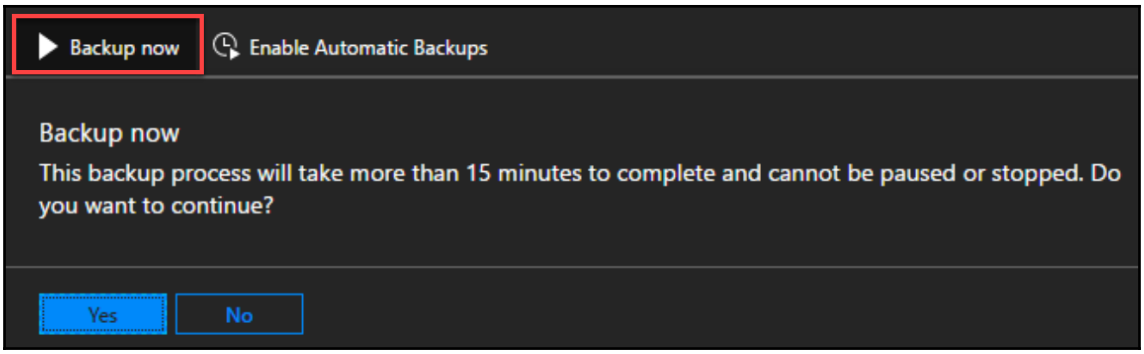


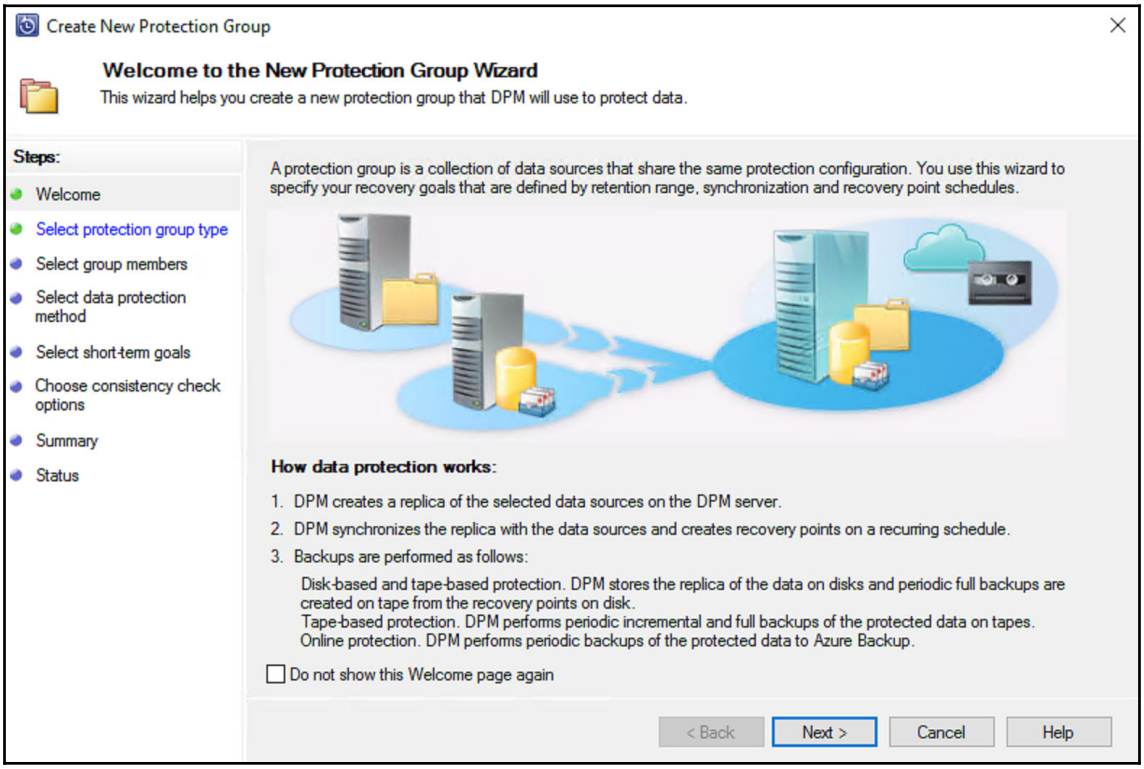

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Specify protection rules
Select data protection method
Select short-term goals
Review disk storage allocation
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
5
days
Synchronization frequency:
Every
4 hour(s)
Client computer recovery points
Specify recovery points for client computers.
Recovery points:
08:00, 12:00, 18:00 Everyday
Modify...
Alerting option
If you are protecting frequently disconnected computers like for which there would be lot of failures when they are not connected, you can specify when do you get alerted.
Alert me when the recovery points fail for:
14
days
< Back
Next >
Cancel
Help

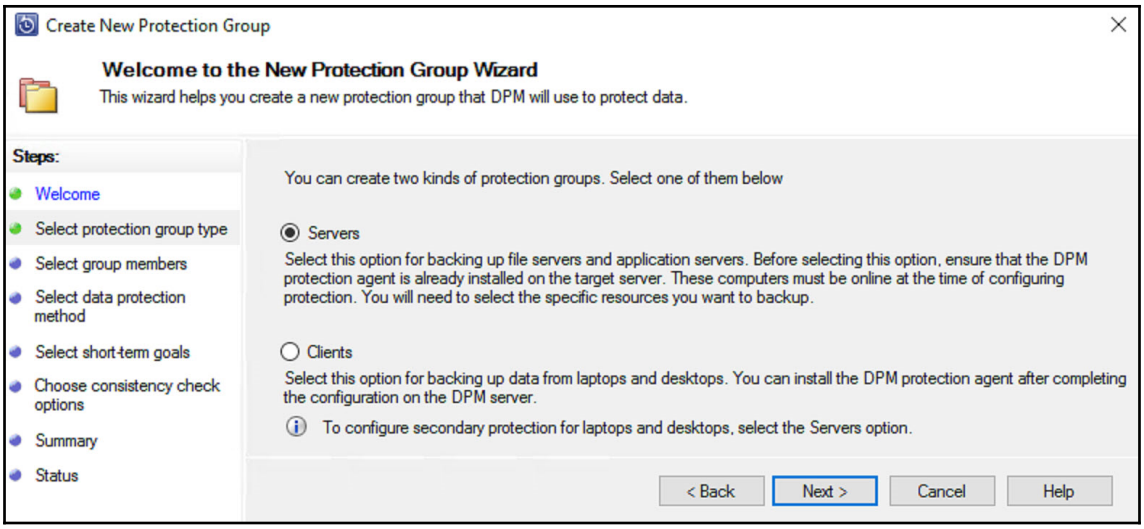

Options
SMTP Server
Notifications
Alert Publishing
End-user Recovery
Auto Discovery
If you enable end-user recovery, users at client computers can recover files and folders from shares that are protected by Data Protection Manager.
Enable end-user recovery
To enable end-user recovery, you must configure Active Directory so that Data Protection Manager can access it. If this is the first Data Protection Manager computer in your domain on which you are enabling end-user recovery, the Active Directory schema will also be extended.
Configure Active Directory...
Learn how to install the shadow copy client software.
OK
Cancel
Help

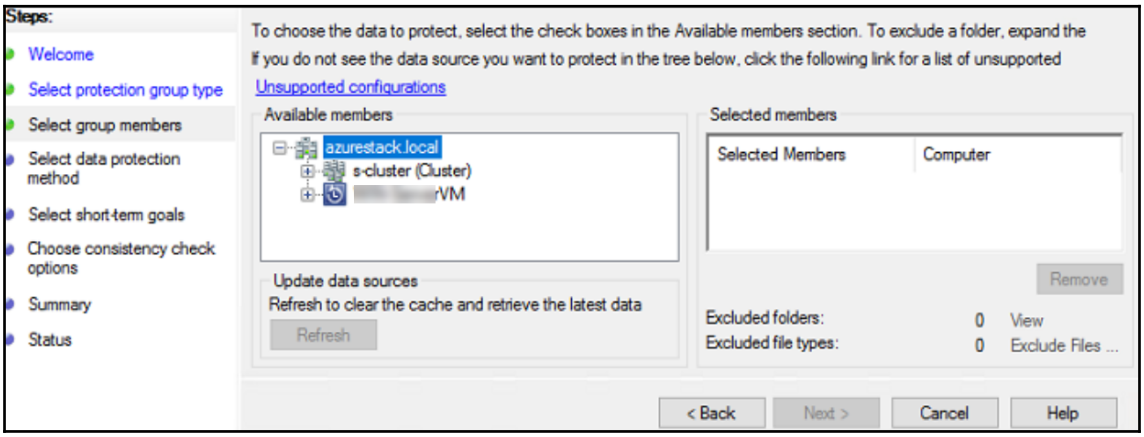
Chapter 7: Protecting Microsoft Azure Stack with DPM


Backup controller settings
* Backup storage location
* Username
* Password
* Confirm Password
* Backups frequency in hours
12
* Retention period in days
7
* Encryption Key
OK

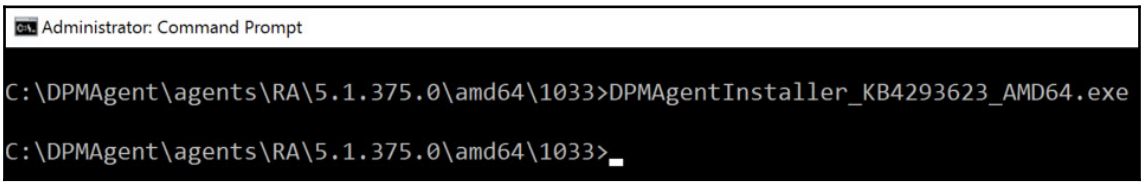

Backup now
Enable Automatic Backups
Backup now
This backup process will take more than 15 minutes to complete and cannot be paused or stopped. Do you want to continue?
Yes
No


Create New Protection Group
Welcome to the New Protection Group Wizard
This wizard helps you create a new protection group that DPM will use to protect data.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
A protection group is a collection of data sources that share the same protection configuration. You use this wizard to specify your recovery goals that are defined by retention range, synchronization and recovery point schedules.
How data protection works:
1. DPM creates a replica of the selected data sources on the DPM server.
2. DPM synchronizes the replica with the data sources and creates recovery points on a recurring schedule.
3. Backups are performed as follows:
Disk-based and tape-based protection. DPM stores the replica of the data on disks and periodic full backups are created on tape from the recovery points on disk.
Tape-based protection. DPM performs periodic incremental and full backups of the protected data on tapes.
Online protection. DPM performs periodic backups of the protected data to Azure Backup.
Do not show this Welcome page again
< Back
Next >
Cancel
Help

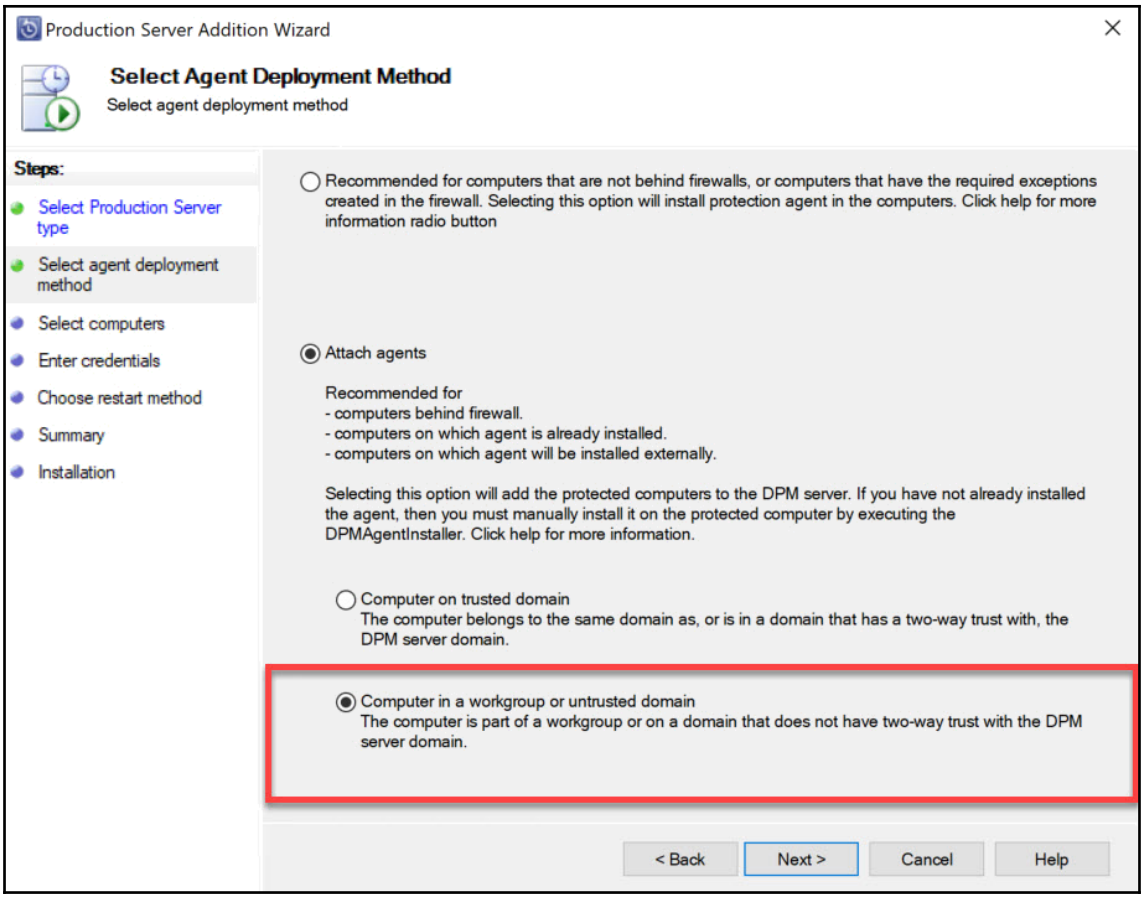

Create New Protection Group
Welcome to the New Protection Group Wizard
This wizard helps you create a new protection group that DPM will use to protect data.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
You can create two kinds of protection groups. Select one of them below
Servers
Select this option for backing up file servers and application servers. Before selecting this option, ensure that the DPM protection agent is already installed on the target server. These computers must be online at the time of configuring protection. You will need to select the specific resources you want to backup.
Clients
Select this option for backing up data from laptops and desktops. You can install the DPM protection agent after completing the configuration on the DPM server.
To configure secondary protection for laptops and desktops, select the Servers option.
< Back
Next >
Cancel
Help

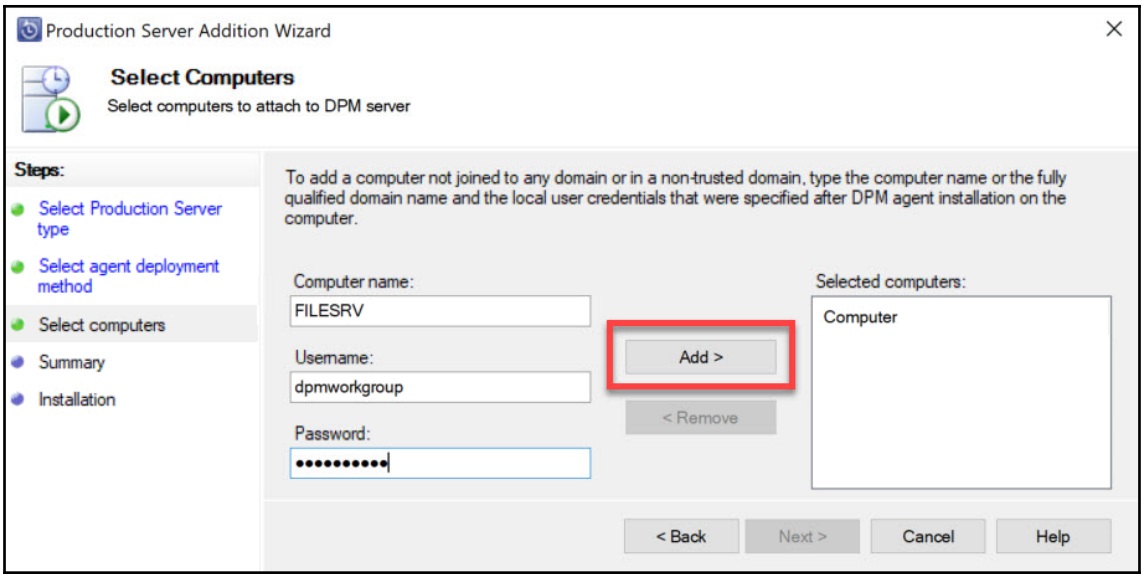

Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported
Unsupported configurations
Available members
azurestack.local
s-cluster (Cluster)
VM
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

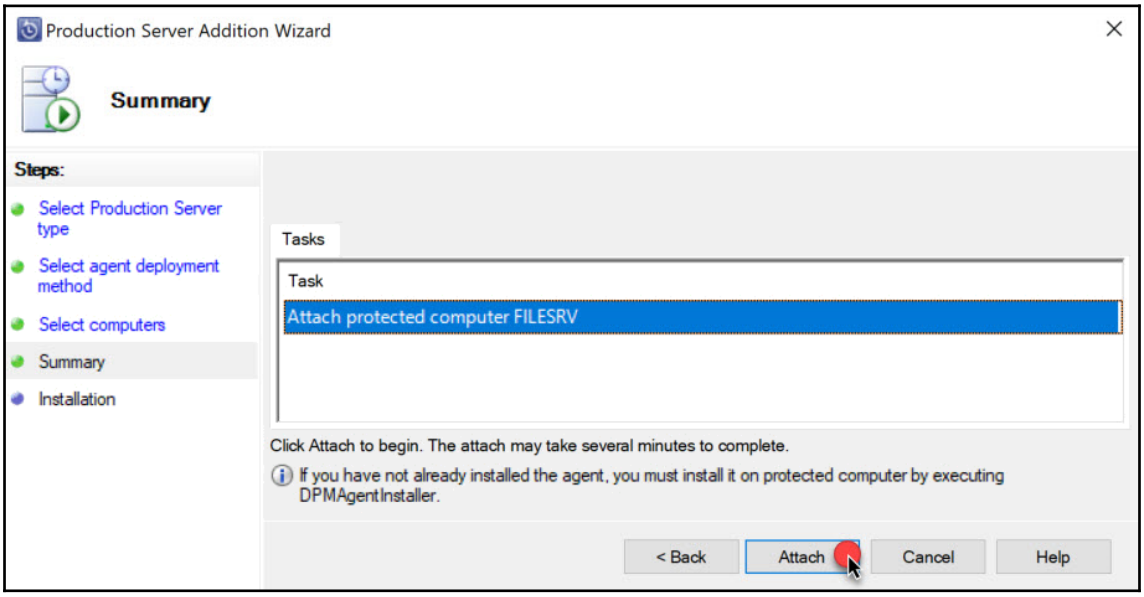
Chapter 8: Protecting Workgroups and Untrusted Domains

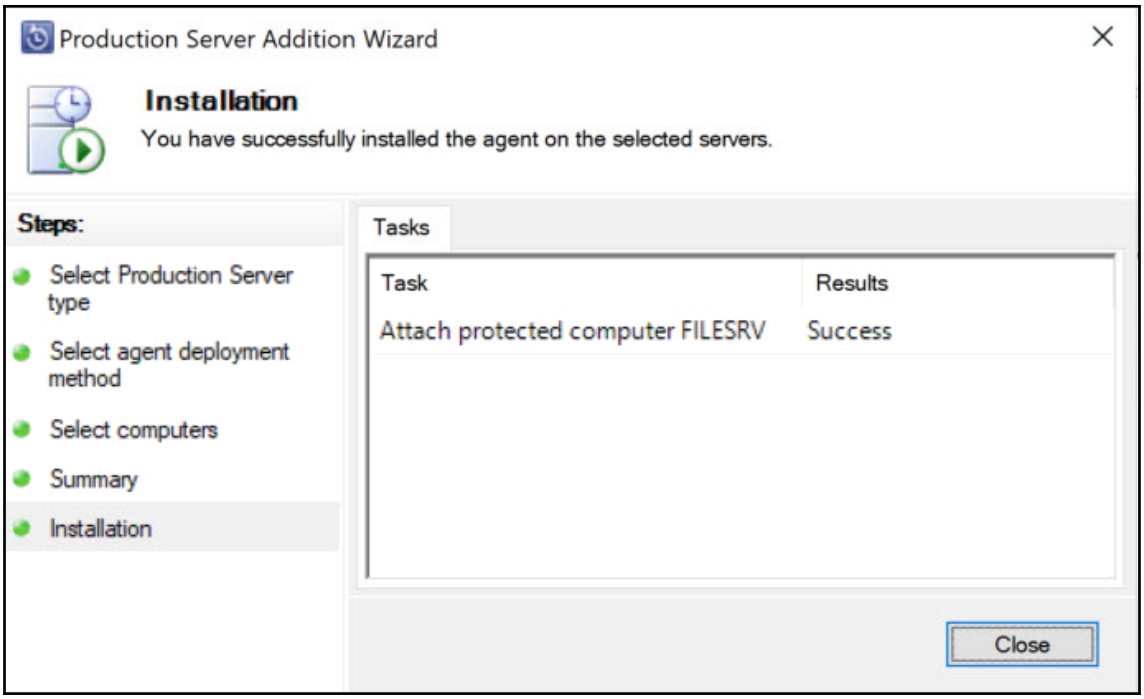


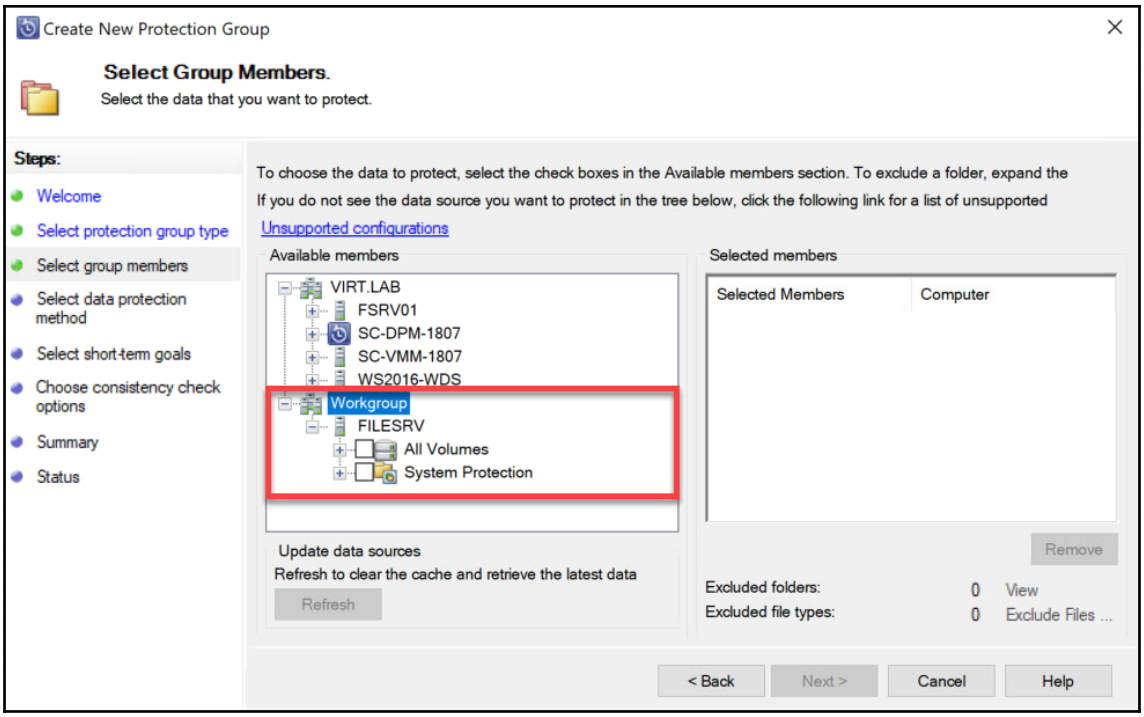

```
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>SetDpmServer.exe -DPMServerName SC-DPM-18
07 -isNonDomainServer -Username dpmworkgroup
Make sure that this computer is not part of a perimeter network. DPM does not support protection of
computers on a perimeter network.
Enter the password for 'dpmworkgroup' to connect to 'SC-DPM-1807':
Retype the password to confirm:
Enter the password for 'dpmworkgroup' to connect to 'SC-DPM-1807':
Configuring dpm server settings and firewall settings for dpm server =[SC-DPM-1807]

The following firewall exceptions has been added:
        - Exception for DPMRA.exe in all profiles.
        - Exception for Windows Management Instrumentation service.
        - Exception for DCOM communication on port 135 (TCP and UDP) in all profiles.
Configuration completed successfully!!!
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>
```

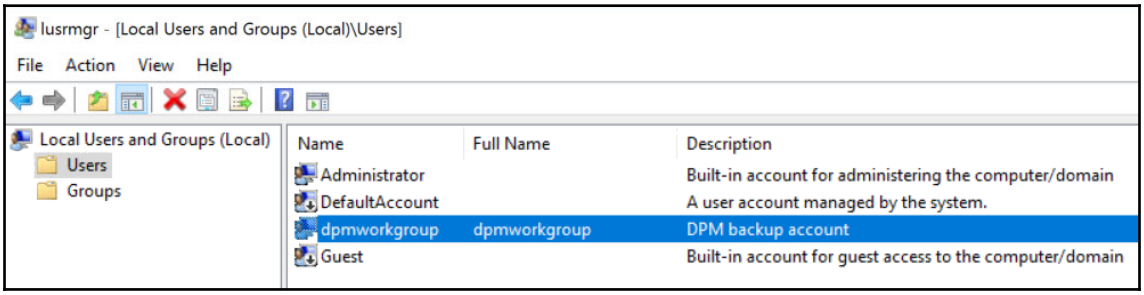

Production Server Addition Wizard
Select Agent Deployment Method
Select agent deployment method
Steps:
Select Production Server type
Select agent deployment method
Select computers
Enter credentials
Choose restart method
Summary
Installation
Recommended for computers that are not behind firewalls, or computers that have the required exceptions created in the firewall. Selecting this option will install protection agent in the computers. Click help for more information radio button
Attach agents
Recommended for
- computers behind firewall.
- computers on which agent is already installed.
- computers on which agent will be installed externally.
Selecting this option will add the protected computers to the DPM server. If you have not already installed the agent, then you must manually install it on the protected computer by executing the DPMAgentInstaller. Click help for more information.
Computer on trusted domain
The computer belongs to the same domain as, or is in a domain that has a two-way trust with, the DPM server domain.
Computer in a workgroup or untrusted domain
The computer is part of a workgroup or on a domain that does not have two-way trust with the DPM server domain.
< Back
Next >
Cancel
Help

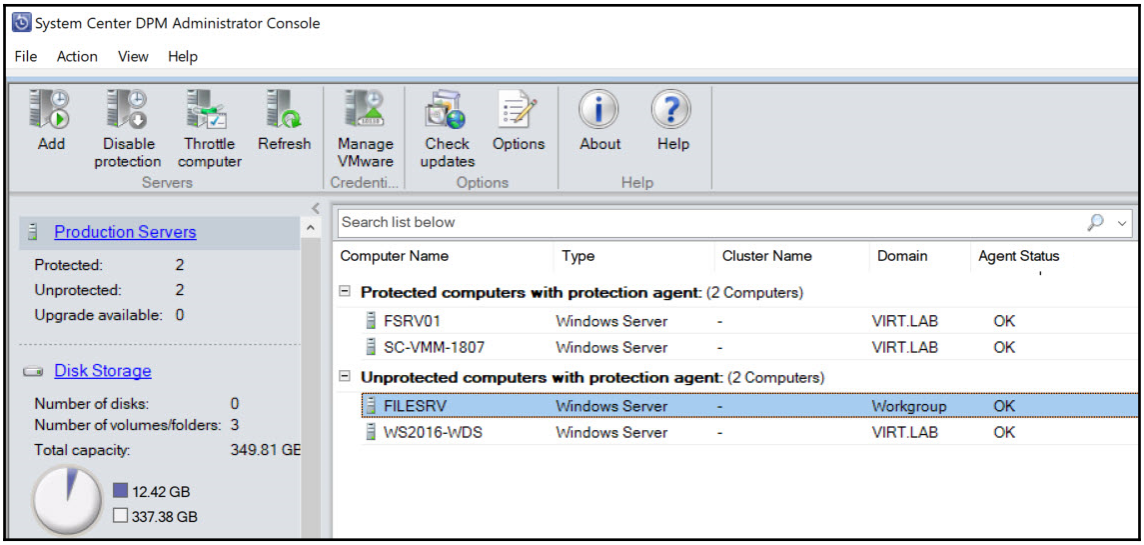

Production Server Addition Wizard
Select Computers
Select computers to attach to DPM server
Steps:
Select Production Server type
Select agent deployment method
Select computers
Summary
Installation
To add a computer not joined to any domain or in a non-trusted domain, type the computer name or the fully qualified domain name and the local user credentials that were specified after DPM agent installation on the computer.
Computer name:
FILESRV
Username:
dpmworkgroup
Password:
Add >
< Remove
Selected computers:
Computer
< Back
Next >
Cancel
Help

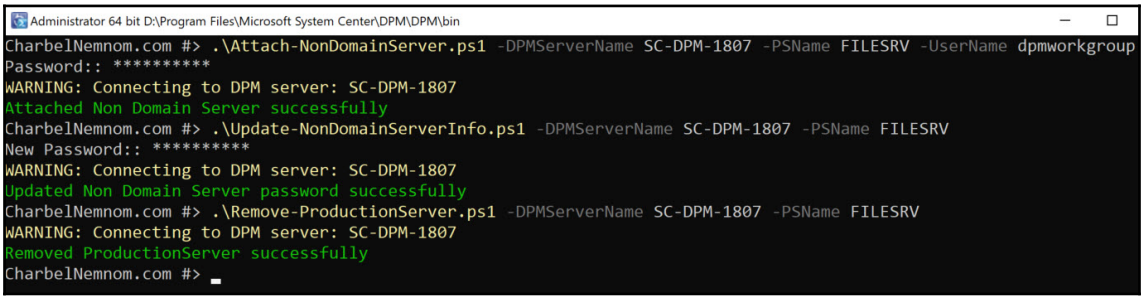

Production Server Addition Wizard
Summary
Steps:
Select Production Server type
Select agent deployment method
Select computers
Summary
Installation
Tasks
Task
Attach protected computer FILESRV
Click Attach to begin. The attach may take several minutes to complete.
If you have not already installed the agent, you must install it on protected computer by executing DPMAgentInstaller.
< Back
Attach
Cancel
Help

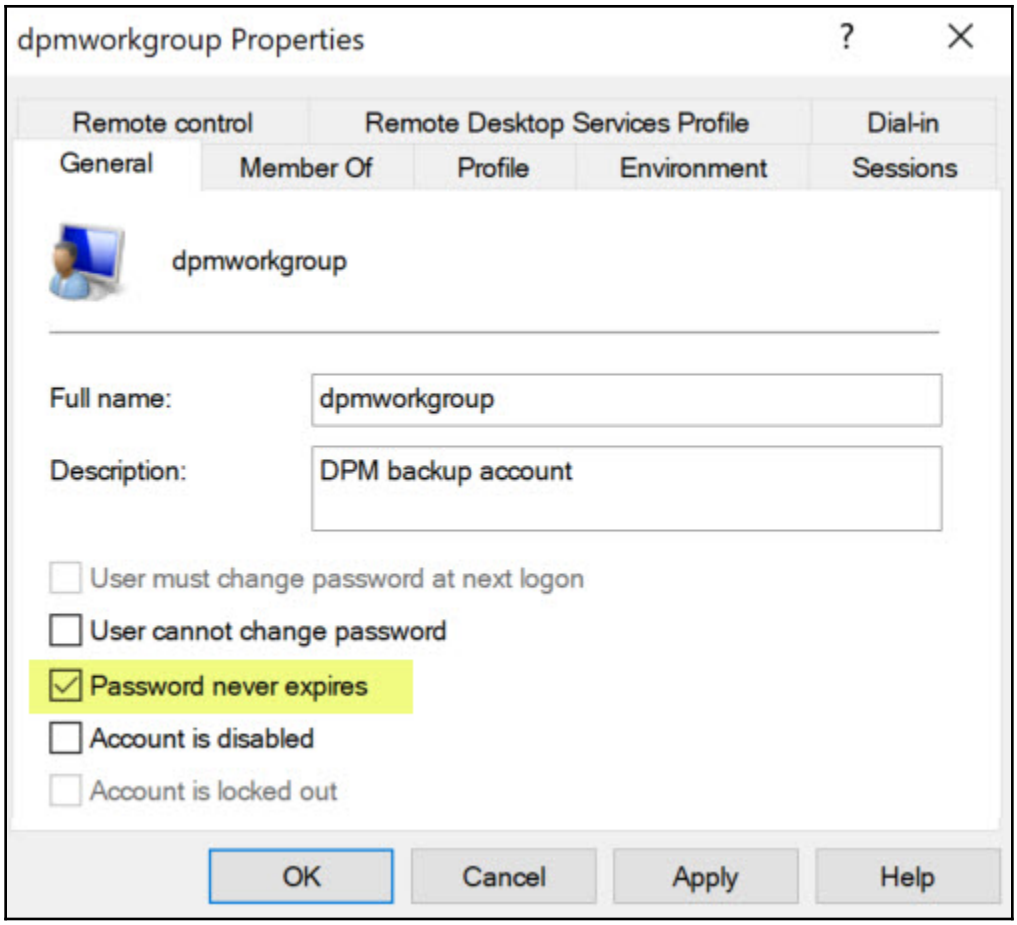

Production Server Addition Wizard
Installation
You have successfully installed the agent on the selected servers.
Steps:
Select Production Server type
Select agent deployment method
Select computers
Summary
Installation
Tasks
Task
Results
Attach protected computer FILESRV
Success
Close

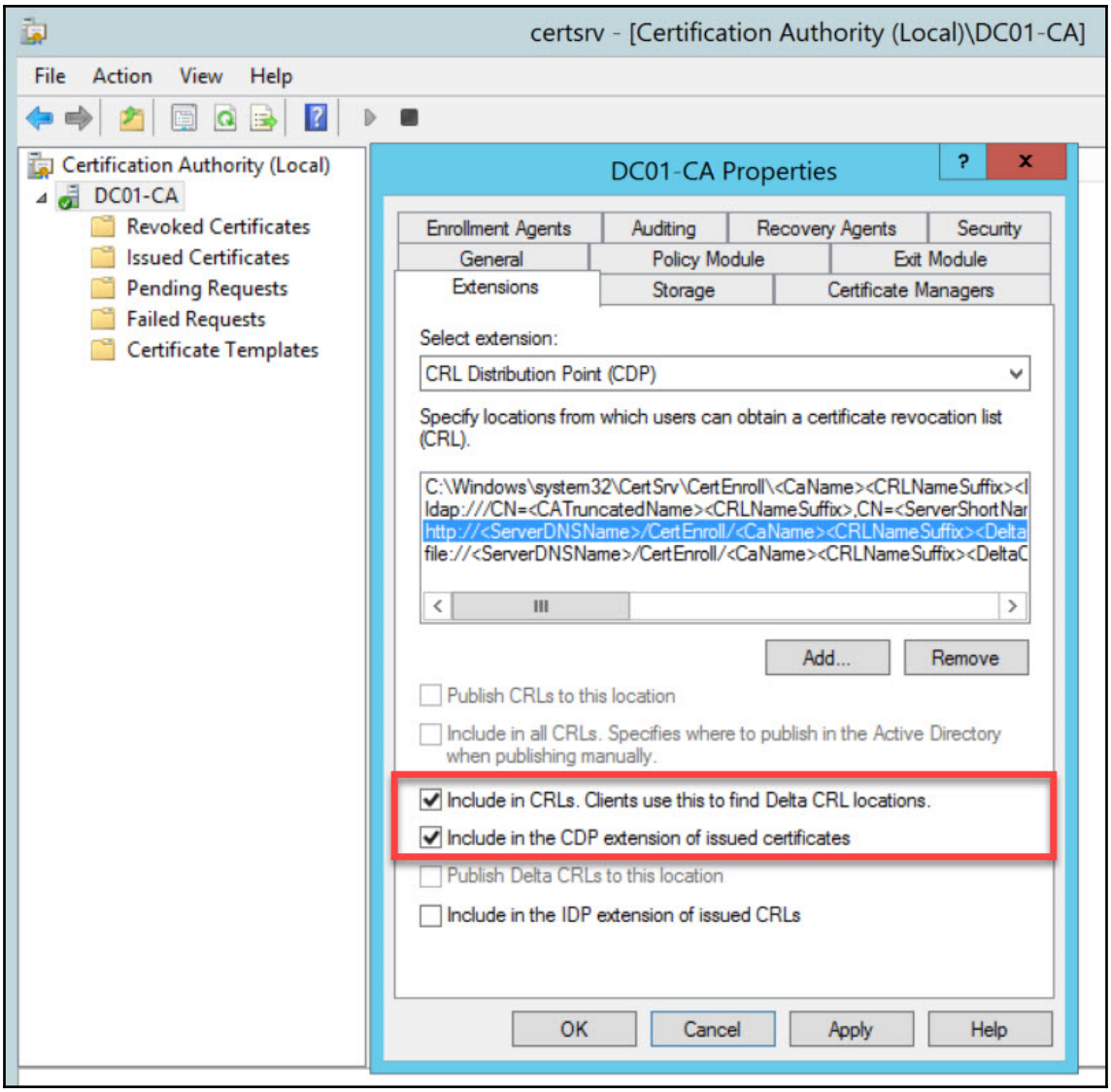

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported
Unsupported configurations
Available members
VIRT.LAB
FSRV01
SC-DPM-1807
SC-VMM-1807
WS2016-WDS
Workgroup
FILESRV
All Volumes
System Protection
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

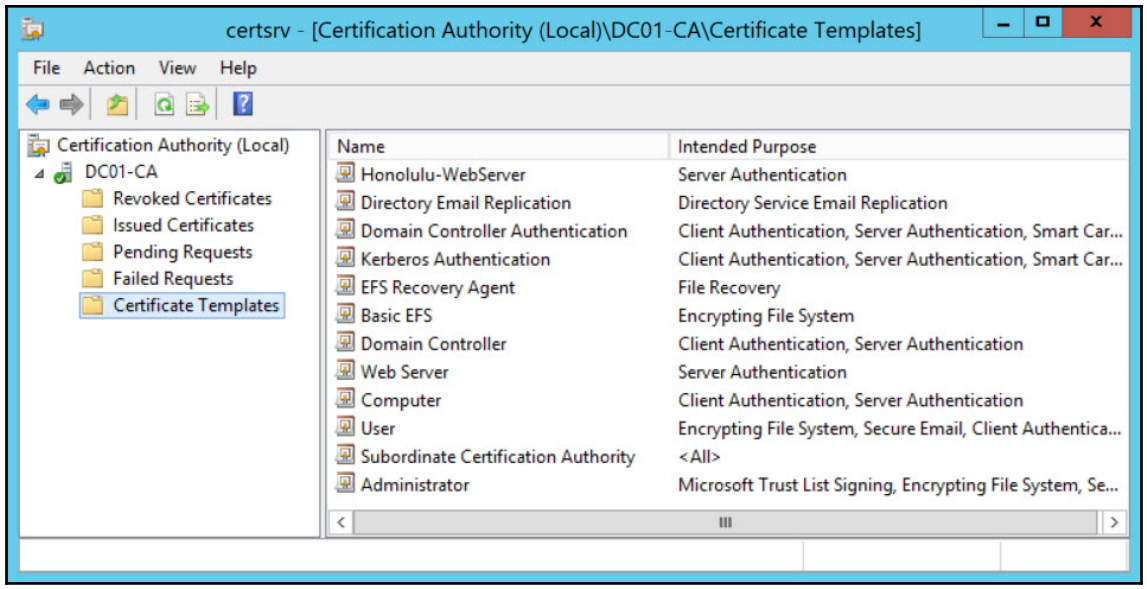

lusrmgr - [Local Users and Groups (Local)\Users]
File Action View Help
Local Users and Groups (Local)
Users
Groups
Name
Full Name
Description
Administrator
Built-in account for administering the computer/domain
DefaultAccount
A user account managed by the system.
dpmworkgroup
dpmworkgroup
DPM backup account
Guest
Built-in account for guest access to the computer/domain

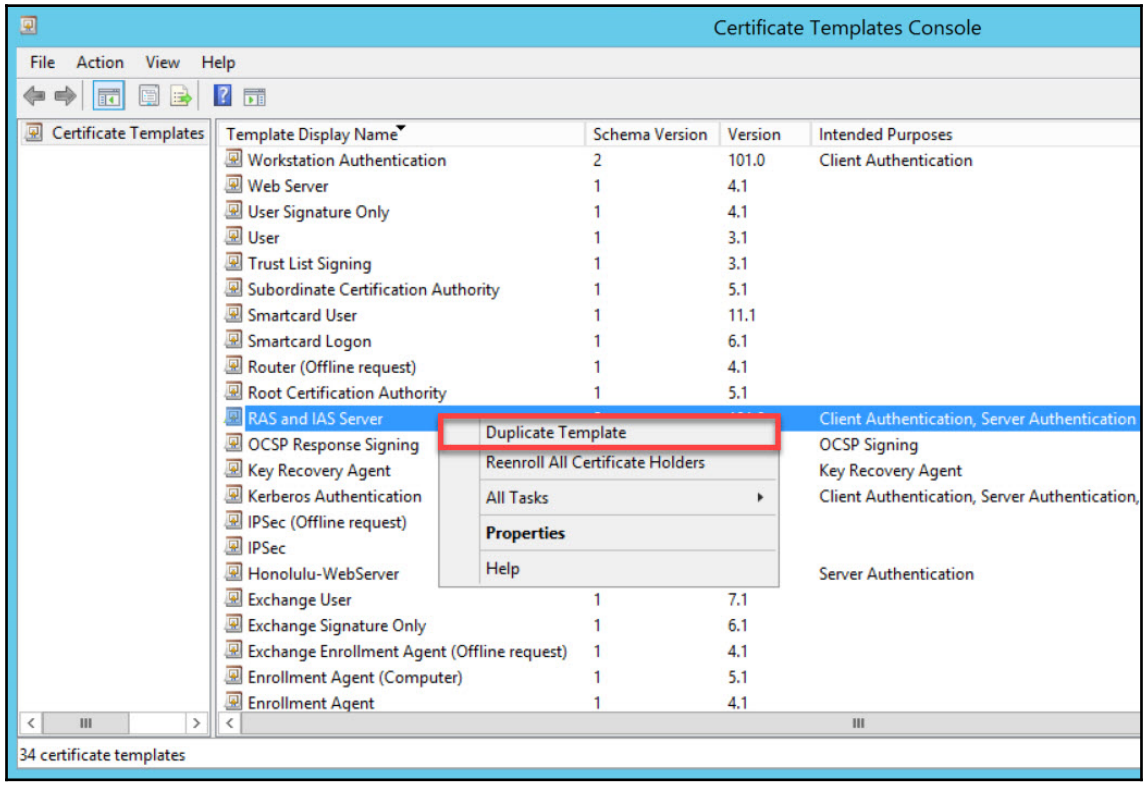

System Center DPM Administrator Console
File Action View Help
Add
Disable protection
Throttle computer
Refresh
Manage VMware
Check updates
Options
About
Help
Servers
Credenti...
Options
Help
Production Servers
Protected: 2
Unprotected: 2
Upgrade available: 0
Disk Storage
Number of disks: 0
Number of volumes/folders: 3
Total capacity: 349.81 GE
12.42 GB
337.38 GB
Search list below
Computer Name
Type
Cluster Name
Domain
Agent Status
Protected computers with protection agent: (2 Computers)
FSRV01 Windows Server - VIRT.LAB OK
SC-VMM-1807 Windows Server - VIRT.LAB OK
Unprotected computers with protection agent: (2 Computers)
FILESRV Windows Server - Workgroup OK
WS2016-WDS Windows Server - VIRT.LAB OK

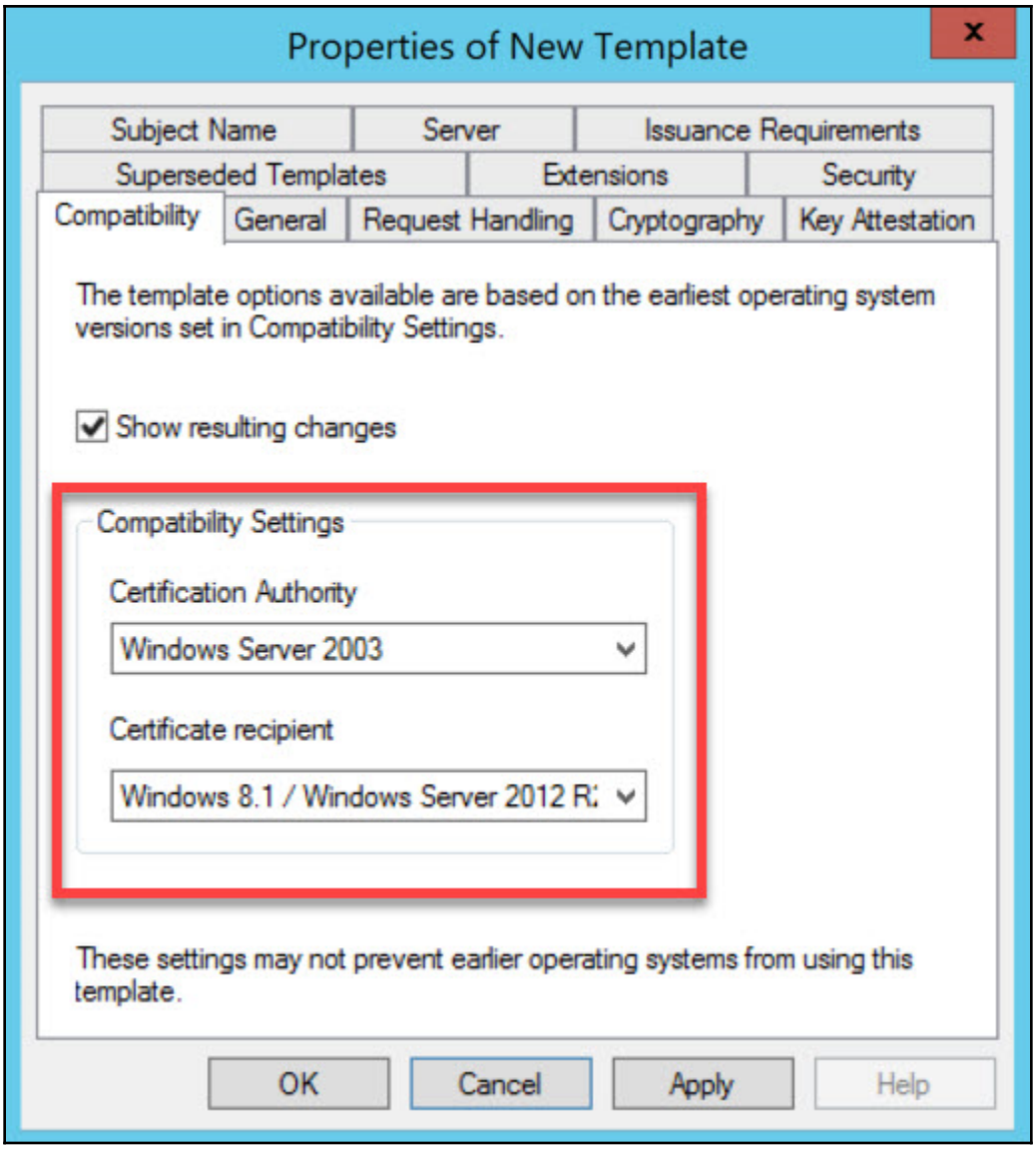

Administrator 64 bit D:\Program Files\Microsoft System Center\DPM\DPM\bin
CharbelNemnom.com #> .\Attach-NonDomainServer.ps1 -DPMServerName SC-DPM-1807 -PSName FILESRV -UserName dpmworkgroup
Password:: **********
WARNING: Connecting to DPM server: SC-DPM-1807
Attached Non Domain Server successfully
CharbelNemnom.com #> .\Update-NonDomainServerInfo.ps1 -DPMServerName SC-DPM-1807 -PSName FILESRV
New Password:: **********
WARNING: Connecting to DPM server: SC-DPM-1807
Updated Non Domain Server password successfully
CharbelNemnom.com #> .\Remove-ProductionServer.ps1 -DPMServerName SC-DPM-1807 -PSName FILESRV
WARNING: Connecting to DPM server: SC-DPM-1807
Removed ProductionServer successfully
CharbelNemnom.com #>

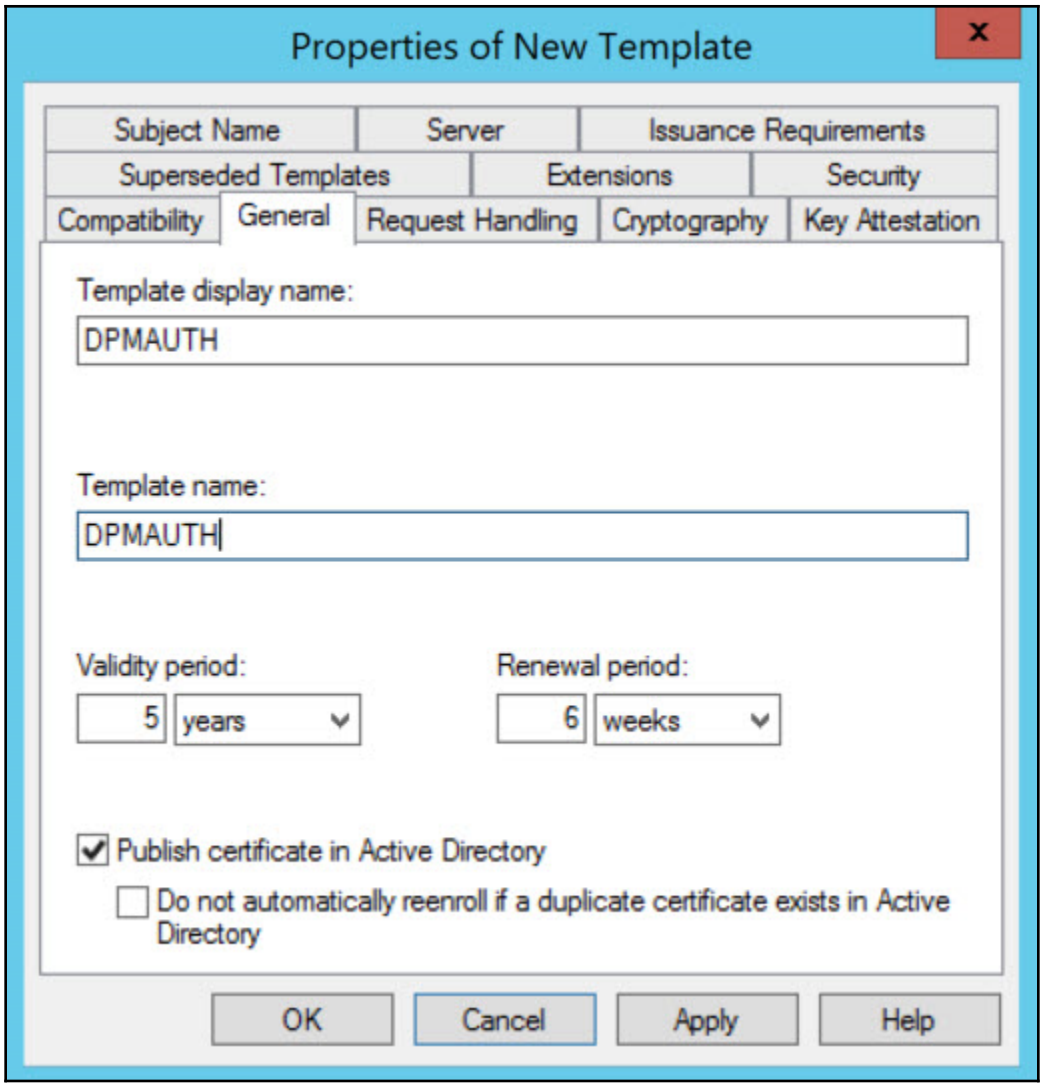

dpmworkgroup Properties
Remote control
Remote Desktop Services Profile
Dial-in
General
Member Of
Profile
Environment
Sessions
dpmworkgroup
Full name:
dpmworkgroup
Description:
DPM backup account
User must change password at next logon
User cannot change password
Password never expires
Account is disabled
Account is locked out
OK
Cancel
Apply
Help

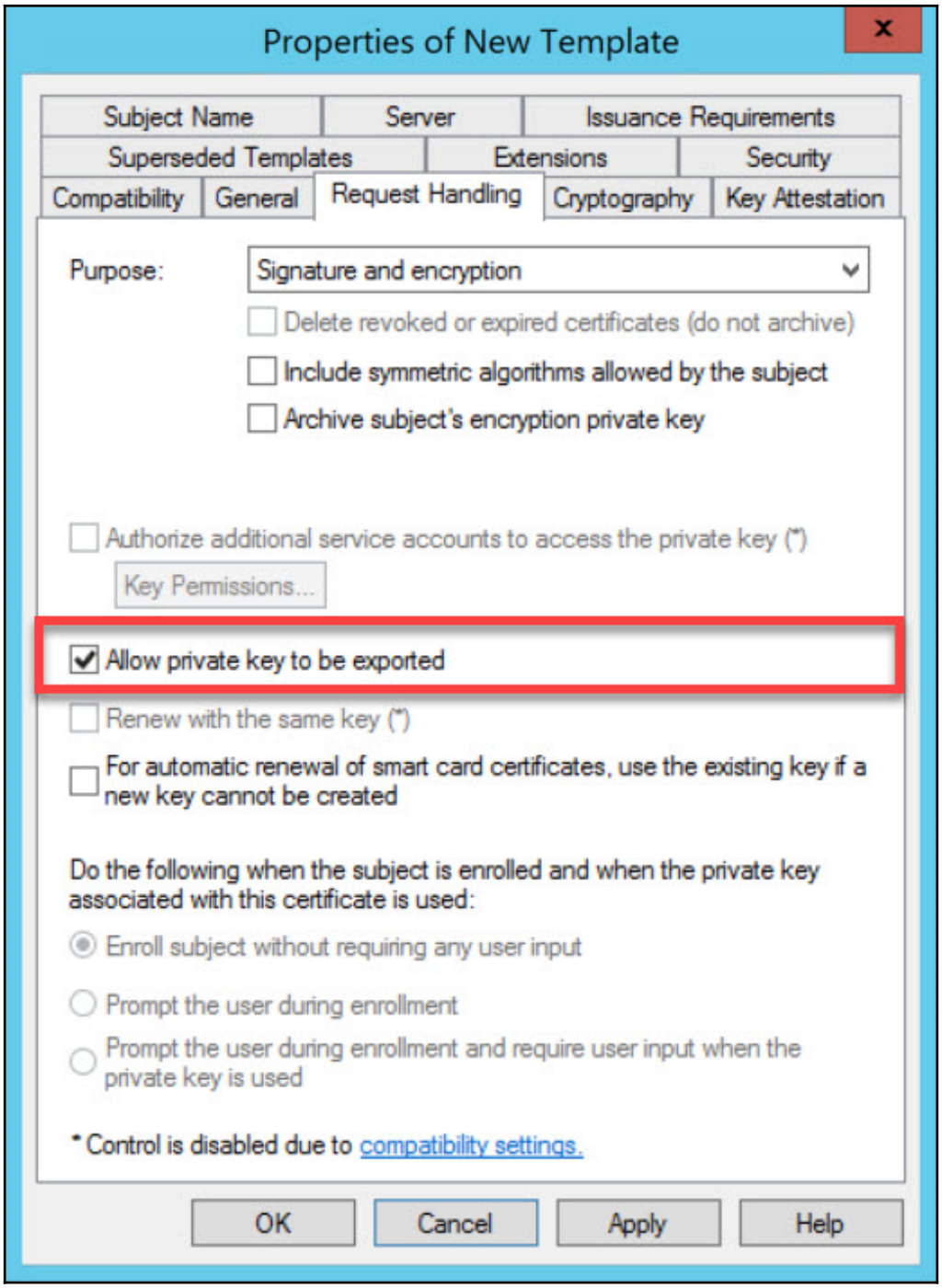

certsrv - [Certification Authority (Local)\DC01-CA]
File Action View Help
Certification Authority (Local)
DC01-CA
Revoked Certificates
Issued Certificates
Pending Requests
Failed Requests
Certificate Templates
DC01-CA Properties
Enrollment Agents
Auditing
Recovery Agents
Security
General
Policy Module
Exit Module
Extensions
Storage
Certificate Managers
Select extension:
CRL Distribution Point (CDP)
Specify locations from which users can obtain a certificate revocation list (CRL).
C:\Windows\system32\CertSrv\CertEnroll\<CaName><CRLNameSuffix><I
ldap:///CN=<CATruncatedName><CRLNameSuffix>,CN=<ServerShortNar
http://<ServerDNSName>/CertEnroll/<CaName><CRLNameSuffix><Delta
file://<ServerDNSName>/CertEnroll/<CaName><CRLNameSuffix><DeltaC
Add...
Remove
Publish CRLs to this location
Include in all CRLs. Specifies where to publish in the Active Directory when publishing manually.
Include in CRLs. Clients use this to find Delta CRL locations.
Include in the CDP extension of issued certificates
Publish Delta CRLs to this location
Include in the IDP extension of issued CRLs
OK
Cancel
Apply
Help

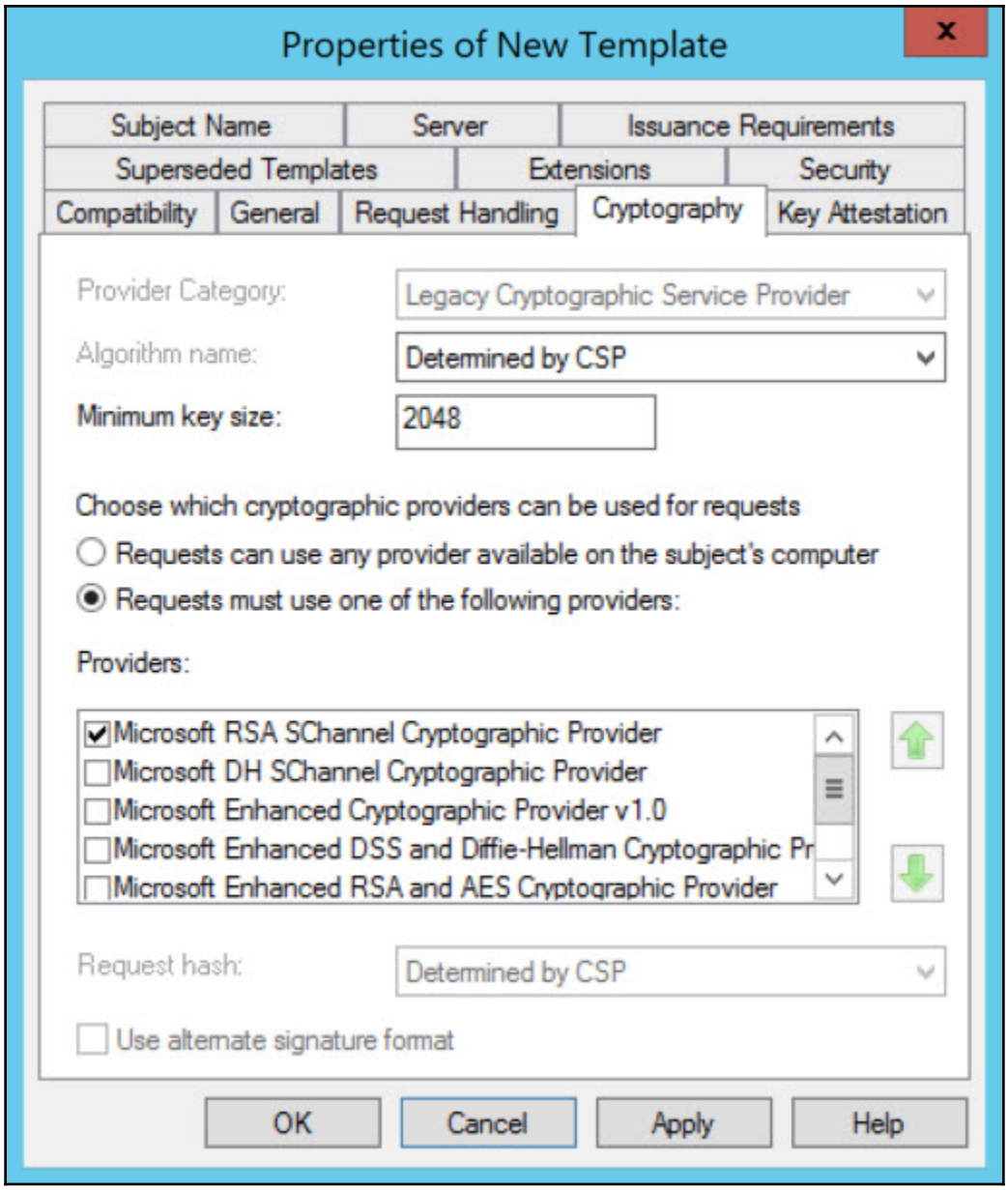

certsrv - [Certification Authority (Local)\DC01-CA\Certificate Templates]
File Action View Help
Certification Authority (Local)
DC01-CA
Revoked Certificates
Issued Certificates
Pending Requests
Failed Requests
Certificate Templates
Name
Intended Purpose
Honolulu-WebServer
Server Authentication
Directory Email Replication
Directory Service Email Replication
Domain Controller Authentication
Client Authentication, Server Authentication, Smart Car...
Kerberos Authentication
Client Authentication, Server Authentication, Smart Car...
EFS Recovery Agent
File Recovery
Basic EFS
Encrypting File System
Domain Controller
Client Authentication, Server Authentication
Web Server
Server Authentication
Computer
Client Authentication, Server Authentication
User
Encrypting File System, Secure Email, Client Authentica...
Subordinate Certification Authority
<All>
Administrator
Microsoft Trust List Signing, Encrypting File System, Se...

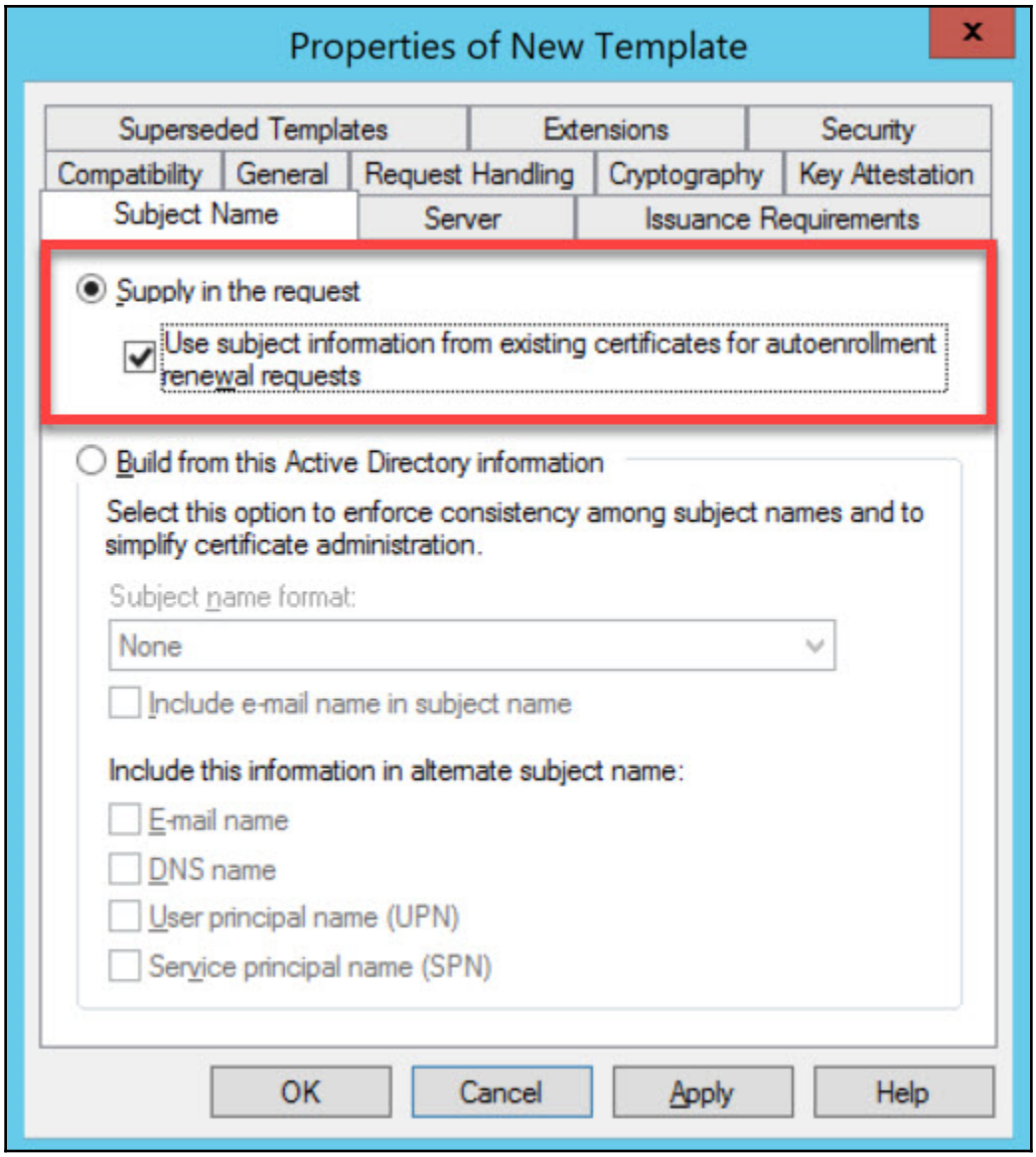

Certificate Templates Console
File Action View Help
Certificate Templates
Template Display Name
Schema Version
Version
Intended Purposes
Workstation Authentication
2
101.0
Client Authentication
Web Server
1
4.1
User Signature Only
1
4.1
User
1
3.1
Trust List Signing
1
3.1
Subordinate Certification Authority
1
5.1
Smartcard User
1
11.1
Smartcard Logon
1
6.1
Router (Offline request)
1
4.1
Root Certification Authority
1
5.1
RAS and IAS Server
Client Authentication, Server Authentication
OCSP Response Signing
OCSP Signing
Key Recovery Agent
Key Recovery Agent
Kerberos Authentication
Client Authentication, Server Authentication,
IPSec (Offline request)
IPSec
Honolulu-WebServer
Server Authentication
Exchange User
1
7.1
Exchange Signature Only
1
6.1
Exchange Enrollment Agent (Offline request)
1
4.1
Enrollment Agent (Computer)
1
5.1
Enrollment Agent
1
4.1
Duplicate Template
Reenroll All Certificate Holders
All Tasks
Properties
Help
34 certificate templates

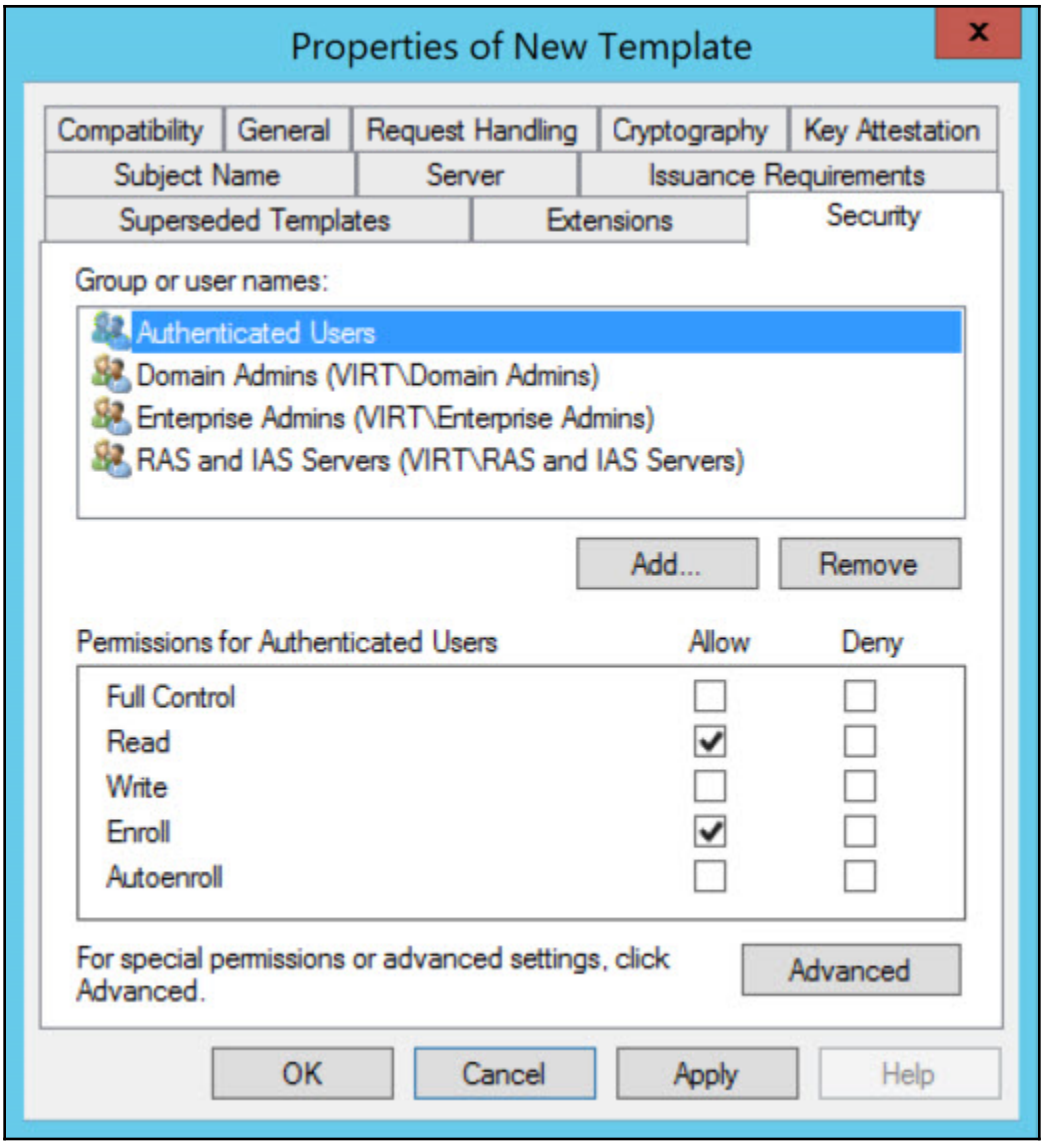

Properties of New Template
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
The template options available are based on the earliest operating system versions set in Compatibility Settings.
Show resulting changes
Compatibility Settings
Certification Authority
Windows Server 2003
Certificate recipient
Windows 8.1 / Windows Server 2012 R
These settings may not prevent earlier operating systems from using this template.
OK
Cancel
Apply
Help

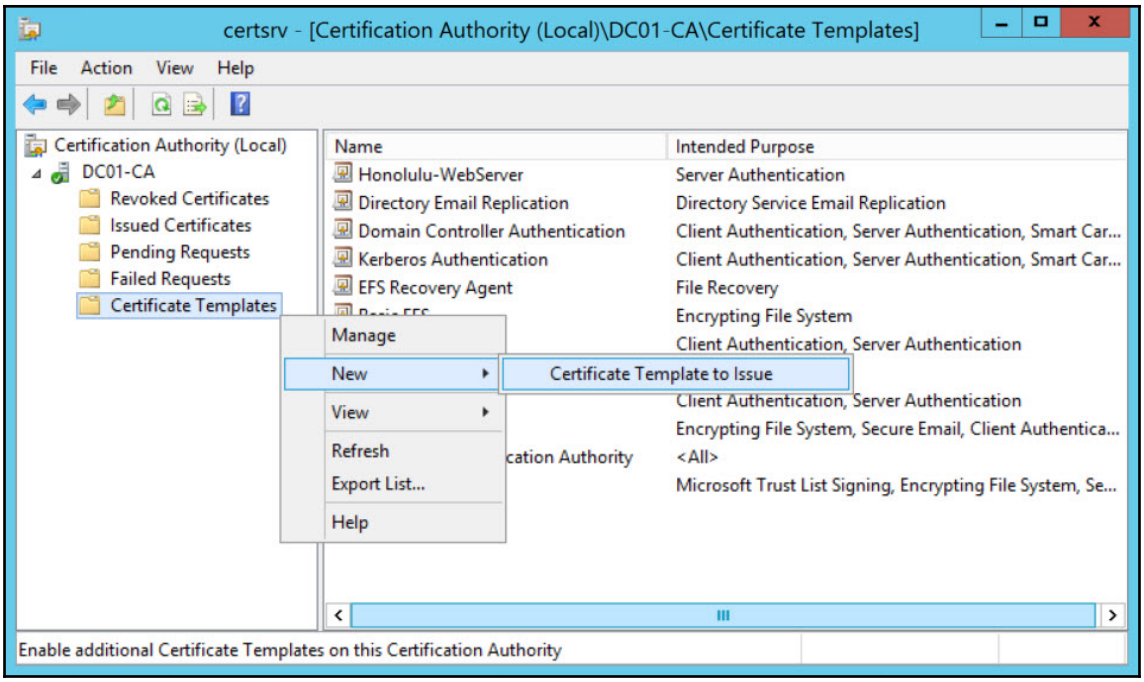

Properties of New Template
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
Template display name:
DPMAUTH
Template name:
DPMAUTH
Validity period:
5
years
Renewal period:
6
weeks
Publish certificate in Active Directory
Do not automatically reenroll if a duplicate certificate exists in Active Directory
OK
Cancel
Apply
Help

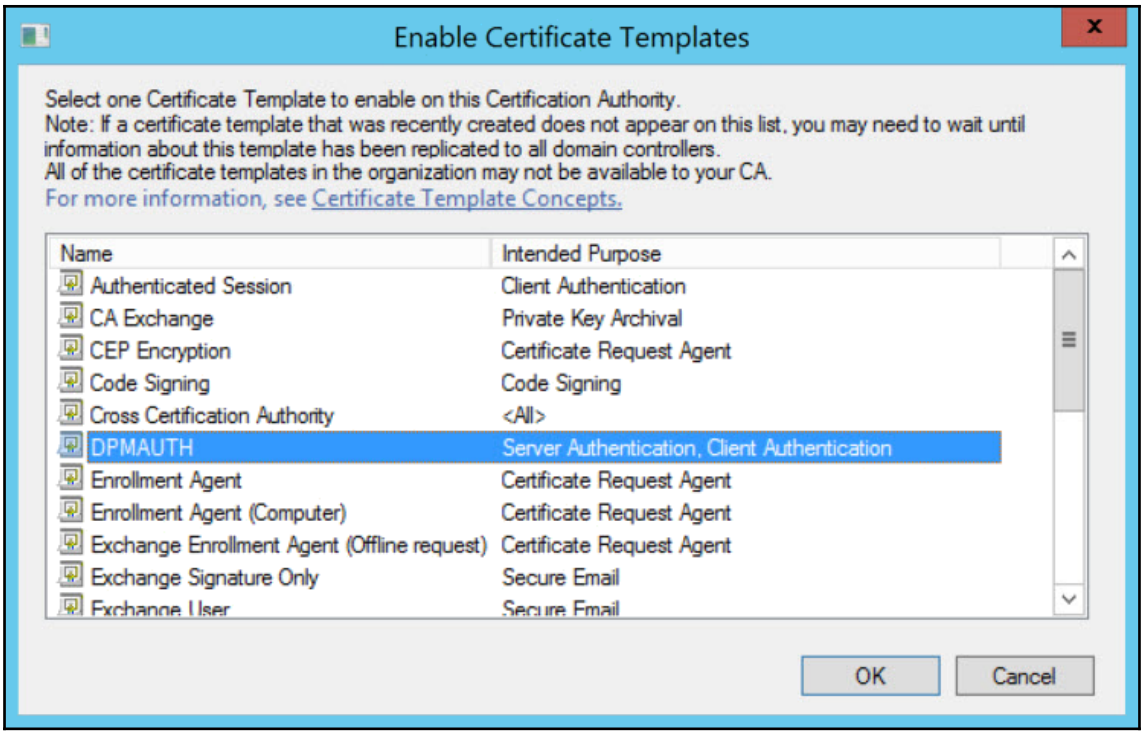

Properties of New Template
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
Purpose:
Signature and encryption
Delete revoked or expired certificates (do not archive)
Include symmetric algorithms allowed by the subject
Archive subject's encryption private key
Authorize additional service accounts to access the private key (*)
Key Permissions...
Allow private key to be exported
Renew with the same key (*)
For automatic renewal of smart card certificates, use the existing key if a new key cannot be created
Do the following when the subject is enrolled and when the private key associated with this certificate is used:
Enroll subject without requiring any user input
Prompt the user during enrollment
Prompt the user during enrollment and require user input when the private key is used
* Control is disabled due to compatibility settings.
OK
Cancel
Apply
Help

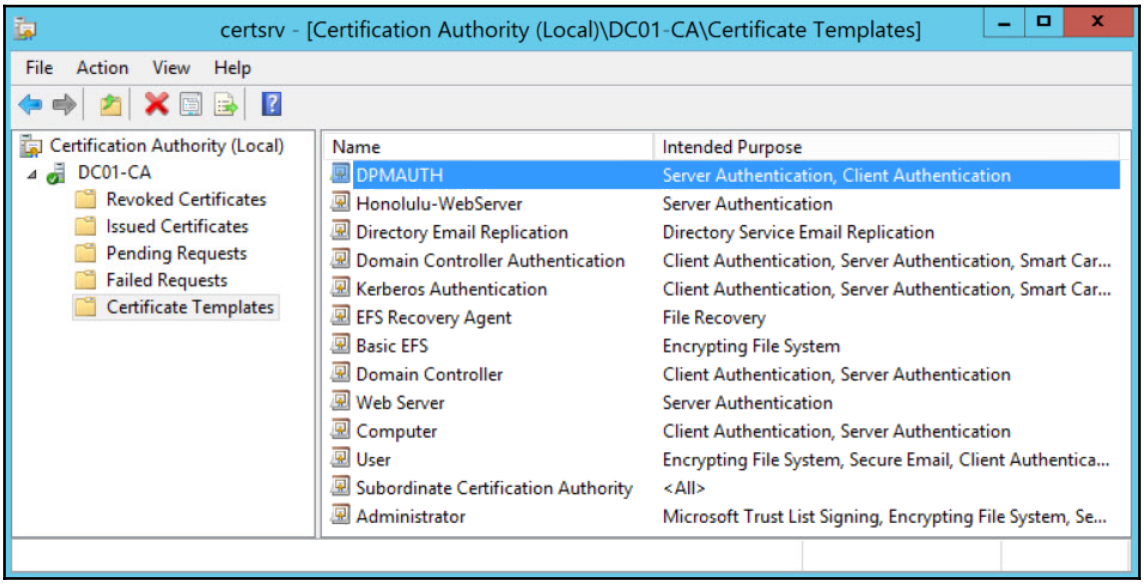

Properties of New Template
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
Provider Category:
Legacy Cryptographic Service Provider
Algorithm name:
Determined by CSP
Minimum key size:
2048
Choose which cryptographic providers can be used for requests
Requests can use any provider available on the subject's computer
Requests must use one of the following providers:
Providers:
Microsoft RSA SChannel Cryptographic Provider
Microsoft DH SChannel Cryptographic Provider
Microsoft Enhanced Cryptographic Provider v1.0
Microsoft Enhanced DSS and Diffie-Hellman Cryptographic Pr
Microsoft Enhanced RSA and AES Cryptographic Provider
Request hash:
Determined by CSP
Use alternate signature format
OK
Cancel
Apply
Help

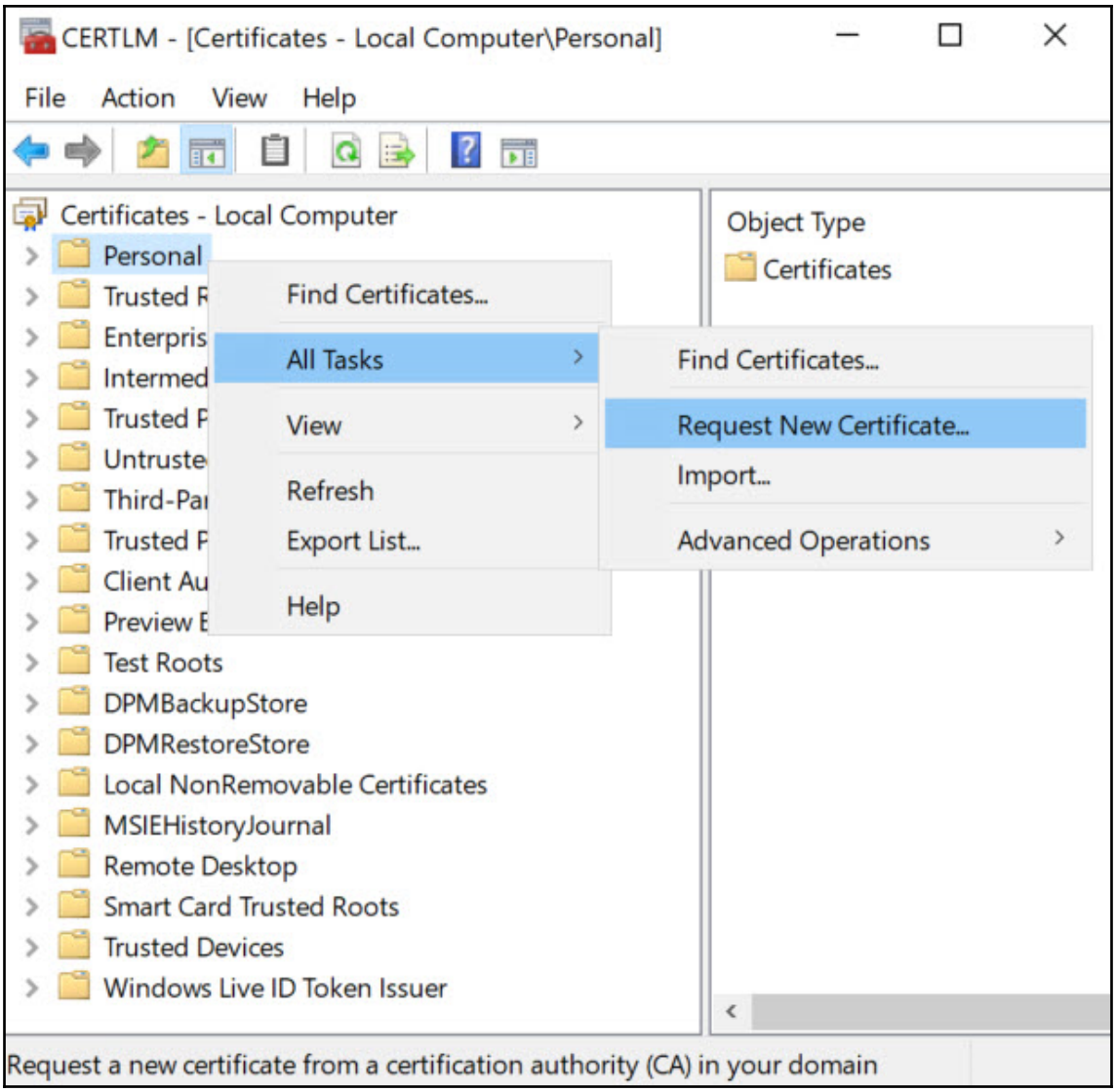

Properties of New Template
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
Subject Name
Server
Issuance Requirements
Supply in the request
Use subject information from existing certificates for autoenrollment renewal requests
Build from this Active Directory information
Select this option to enforce consistency among subject names and to simplify certificate administration.
Subject name format:
None
Include e-mail name in subject name
Include this information in alternate subject name:
E-mail name
DNS name
User principal name (UPN)
Service principal name (SPN)
OK
Cancel
Apply
Help

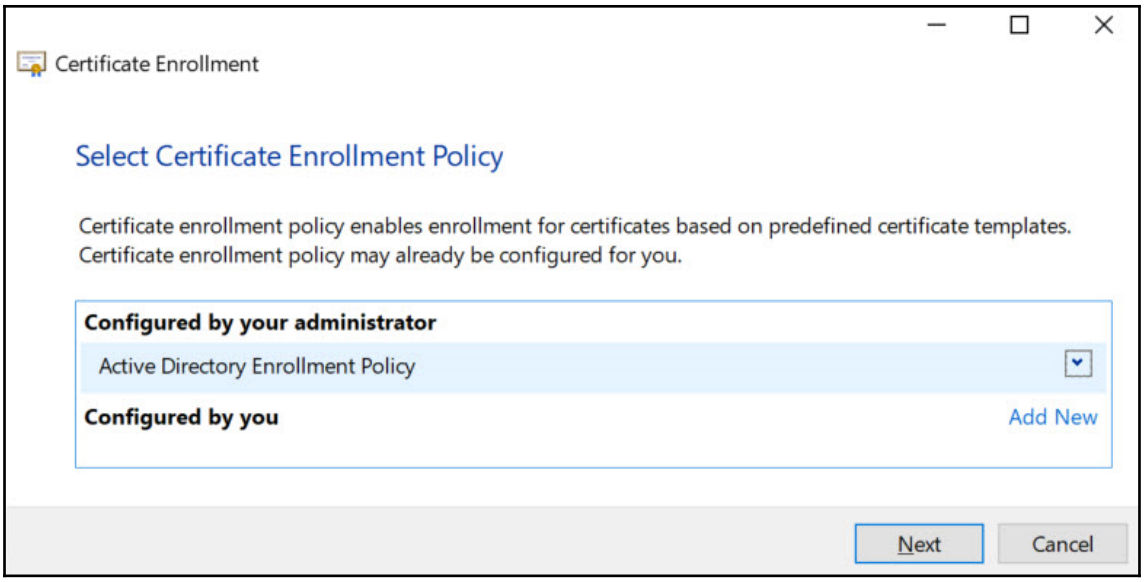

Properties of New Template
Compatibility
General
Request Handling
Cryptography
Key Attestation
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Group or user names:
Authenticated Users
Domain Admins (VIRT\Domain Admins)
Enterprise Admins (VIRT\Enterprise Admins)
RAS and IAS Servers (VIRT\RAS and IAS Servers)
Add...
Remove
Permissions for Authenticated Users
Allow
Deny
Full Control
Read
Write
Enroll
Autoenroll
For special permissions or advanced settings, click Advanced.
Advanced
OK
Cancel
Apply
Help

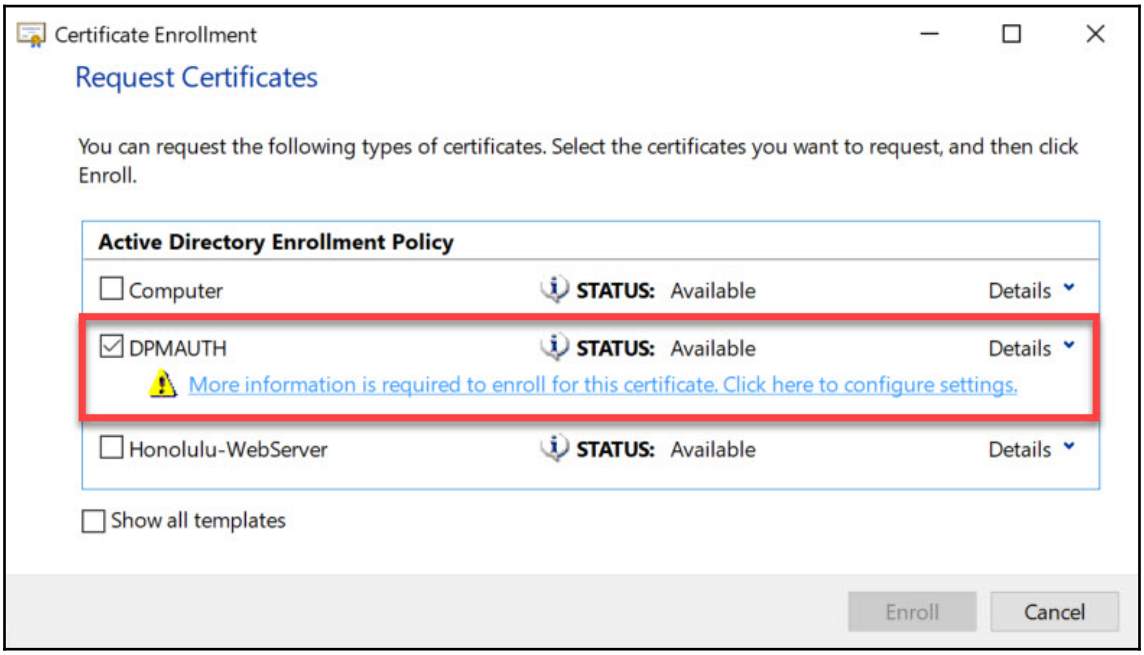

certsrv - [Certification Authority (Local)\DC01-CA\Certificate Templates]
File
Action
View
Help
Certification Authority (Local)
DC01-CA
Revoked Certificates
Issued Certificates
Pending Requests
Failed Requests
Certificate Templates
Name
Intended Purpose
Honolulu-WebServer
Server Authentication
Directory Email Replication
Directory Service Email Replication
Domain Controller Authentication
Client Authentication, Server Authentication, Smart Car...
Kerberos Authentication
Client Authentication, Server Authentication, Smart Car...
EFS Recovery Agent
File Recovery
Encrypting File System
Client Authentication, Server Authentication
Client Authentication, Server Authentication
Encrypting File System, Secure Email, Client Authentica...
<All>
Microsoft Trust List Signing, Encrypting File System, Se...
Manage
New
Certificate Template to Issue
View
Refresh
Export List...
Help
Enable additional Certificate Templates on this Certification Authority

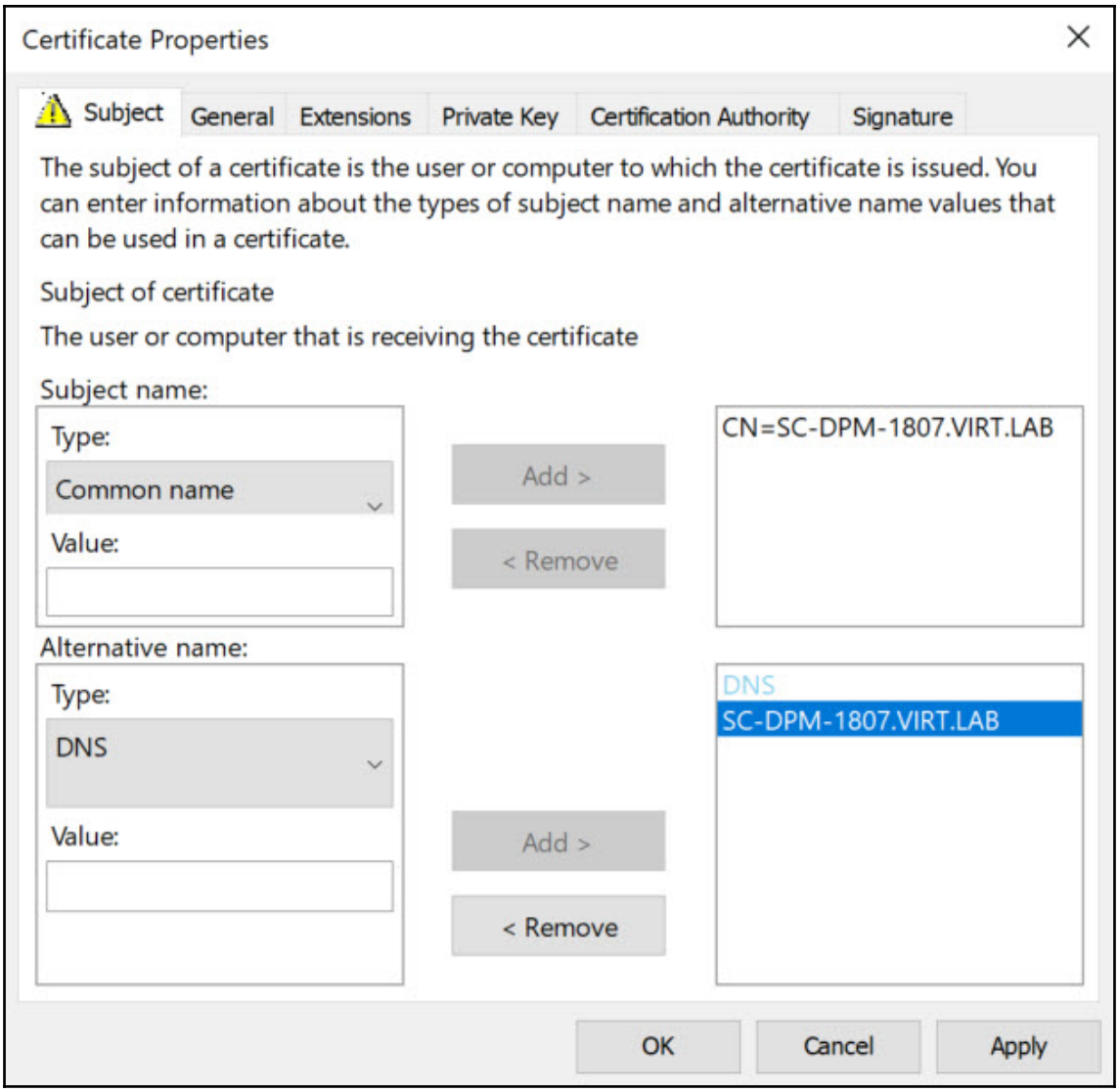

Enable Certificate Templates
Select one Certificate Template to enable on this Certification Authority.
Note: If a certificate template that was recently created does not appear on this list, you may need to wait until information about this template has been replicated to all domain controllers.
All of the certificate templates in the organization may not be available to your CA.
For more information, see Certificate Template Concepts.
Name
Intended Purpose
Authenticated Session
Client Authentication
CA Exchange
Private Key Archival
CEP Encryption
Certificate Request Agent
Code Signing
Code Signing
Cross Certification Authority
<All>
DPMAUTH
Server Authentication, Client Authentication
Enrollment Agent
Certificate Request Agent
Enrollment Agent (Computer)
Certificate Request Agent
Exchange Enrollment Agent (Offline request)
Certificate Request Agent
Exchange Signature Only
Secure Email
Exchange User
Secure Email
OK
Cancel

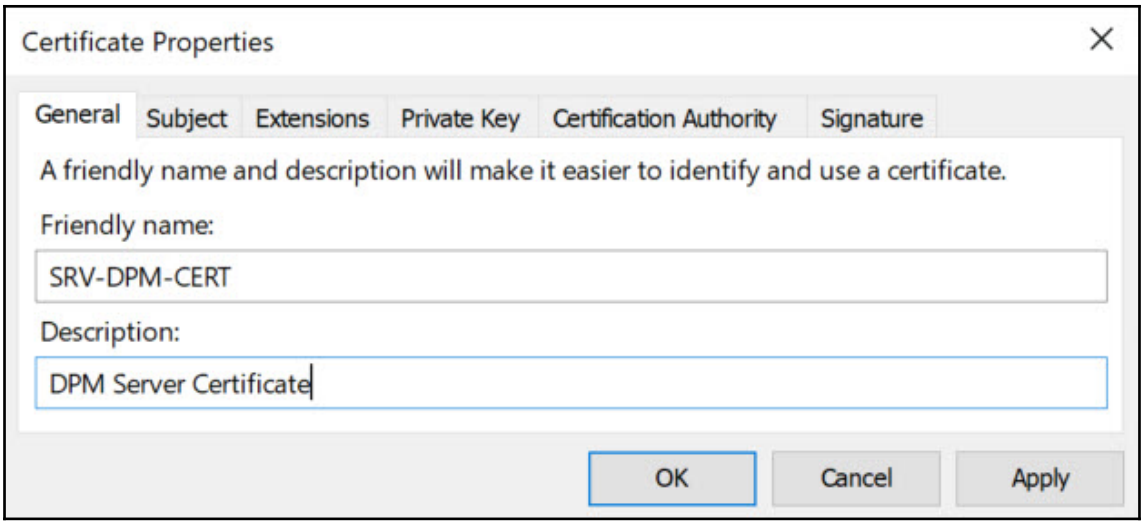

certsrv - [Certification Authority (Local)\DC01-CA\Certificate Templates]
File
Action
View
Help
Certification Authority (Local)
DC01-CA
Revoked Certificates
Issued Certificates
Pending Requests
Failed Requests
Certificate Templates
Name
Intended Purpose
DPMAUTH
Server Authentication, Client Authentication
Honolulu-WebServer
Server Authentication
Directory Email Replication
Directory Service Email Replication
Domain Controller Authentication
Client Authentication, Server Authentication, Smart Car...
Kerberos Authentication
Client Authentication, Server Authentication, Smart Car...
EFS Recovery Agent
File Recovery
Basic EFS
Encrypting File System
Domain Controller
Client Authentication, Server Authentication
Web Server
Server Authentication
Computer
Client Authentication, Server Authentication
User
Encrypting File System, Secure Email, Client Authentica...
Subordinate Certification Authority
<All>
Administrator
Microsoft Trust List Signing, Encrypting File System, Se...

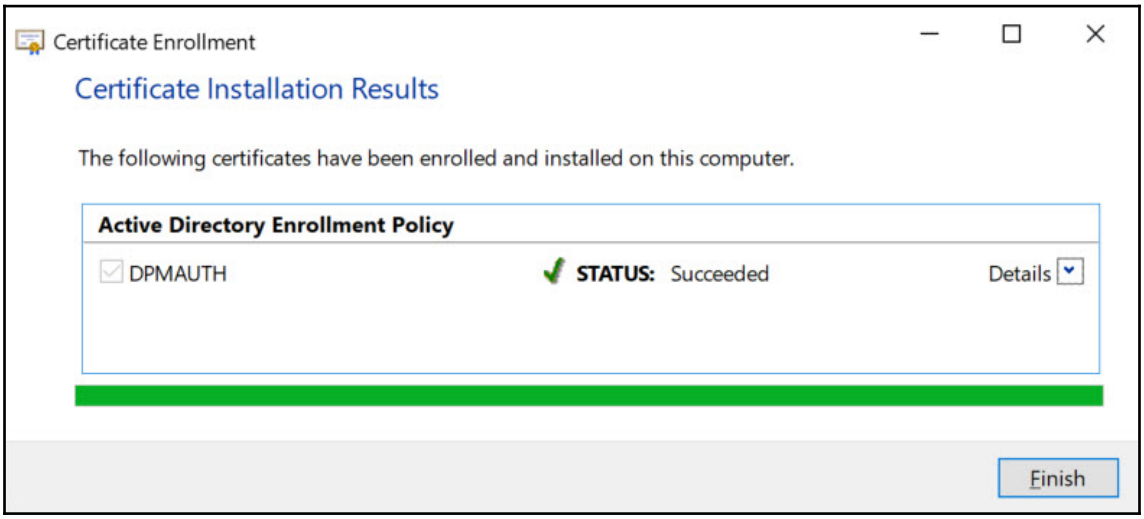

CERTLM - [Certificates - Local Computer\Personal]
File
Action
View
Help
Certificates - Local Computer
Personal
Trusted R
Enterpris
Intermed
Trusted P
Untruste
Third-Pa
Trusted P
Client Au
Preview E
Test Roots
DPMBackupStore
DPMRestoreStore
Local NonRemovable Certificates
MSIEHistoryJournal
Remote Desktop
Smart Card Trusted Roots
Trusted Devices
Windows Live ID Token Issuer
Find Certificates...
All Tasks
View
Refresh
Export List...
Help
Find Certificates...
Request New Certificate...
Import...
Advanced Operations
Object Type
Certificates
Request a new certificate from a certification authority (CA) in your domain

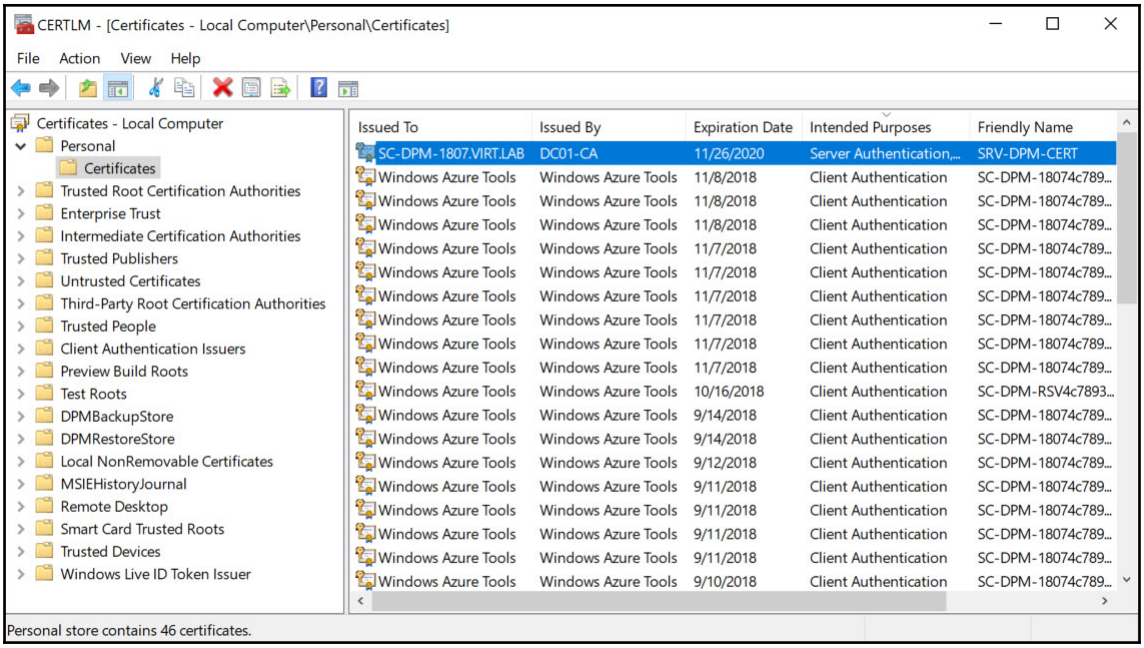

Certificate Enrollment
Select Certificate Enrollment Policy
Certificate enrollment policy enables enrollment for certificates based on predefined certificate templates.
Certificate enrollment policy may already be configured for you.
Configured by your administrator
Active Directory Enrollment Policy
Configured by you
Add New
Next
Cancel

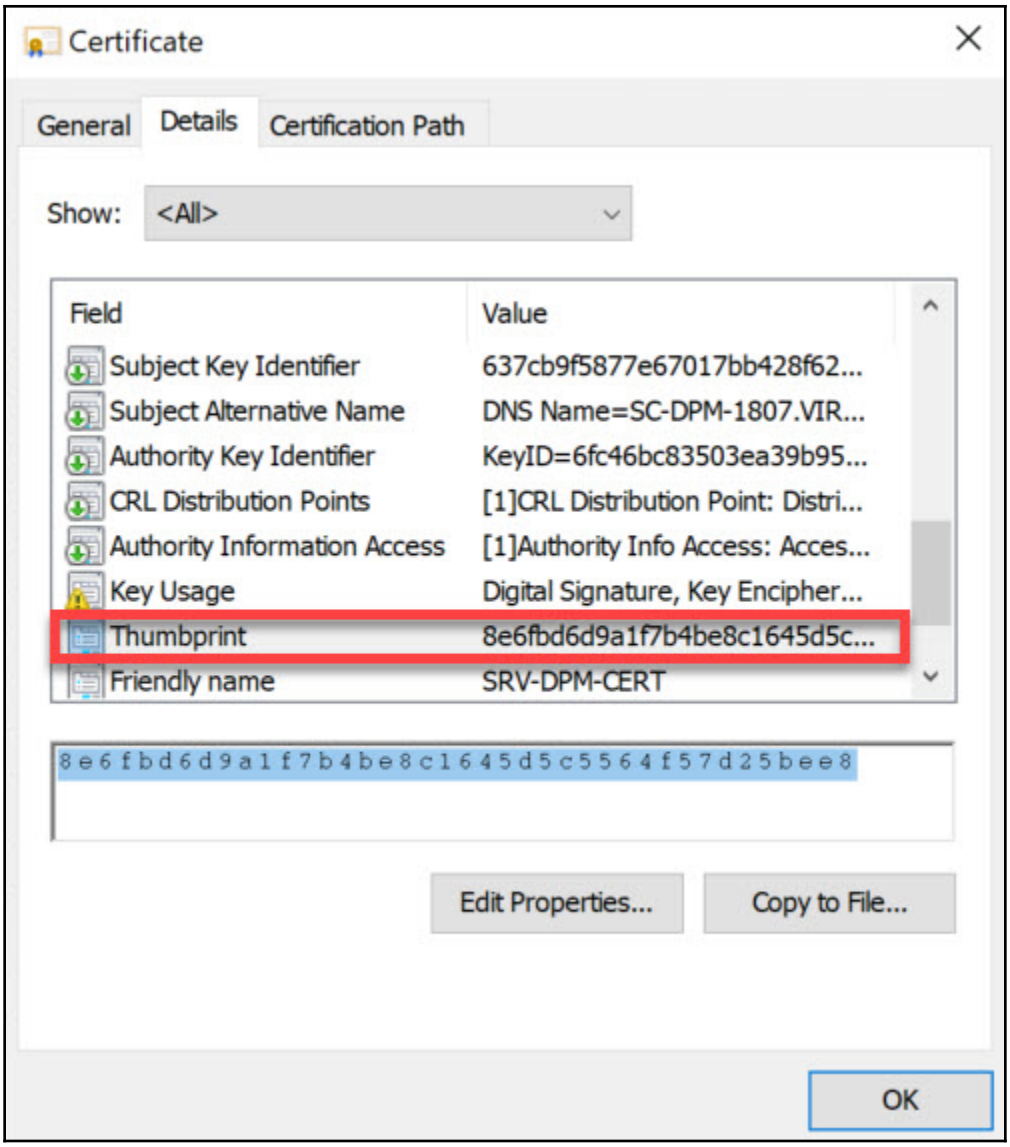

Certificate Enrollment
Request Certificates
You can request the following types of certificates. Select the certificates you want to request, and then click Enroll.
Active Directory Enrollment Policy
Computer
STATUS: Available
Details
DPMAUTH
STATUS: Available
Details
More information is required to enroll for this certificate. Click here to configure settings.
Honolulu-WebServer
STATUS: Available
Details
Show all templates
Enroll
Cancel


Certificate Properties
Subject
General
Extensions
Private Key
Certification Authority
Signature
The subject of a certificate is the user or computer to which the certificate is issued. You can enter information about the types of subject name and alternative name values that can be used in a certificate.
Subject of certificate
The user or computer that is receiving the certificate
Subject name:
Type:
Common name
Value:
Add >
< Remove
CN=SC-DPM-1807.VIRT.LAB
Alternative name:
Type:
DNS
Value:
Add >
< Remove
DNS
SC-DPM-1807.VIRT.LAB
OK
Cancel
Apply


Certificate Properties
General
Subject
Extensions
Private Key
Certification Authority
Signature
A friendly name and description will make it easier to identify and use a certificate.
Friendly name:
SRV-DPM-CERT
Description:
DPM Server Certificate
OK
Cancel
Apply

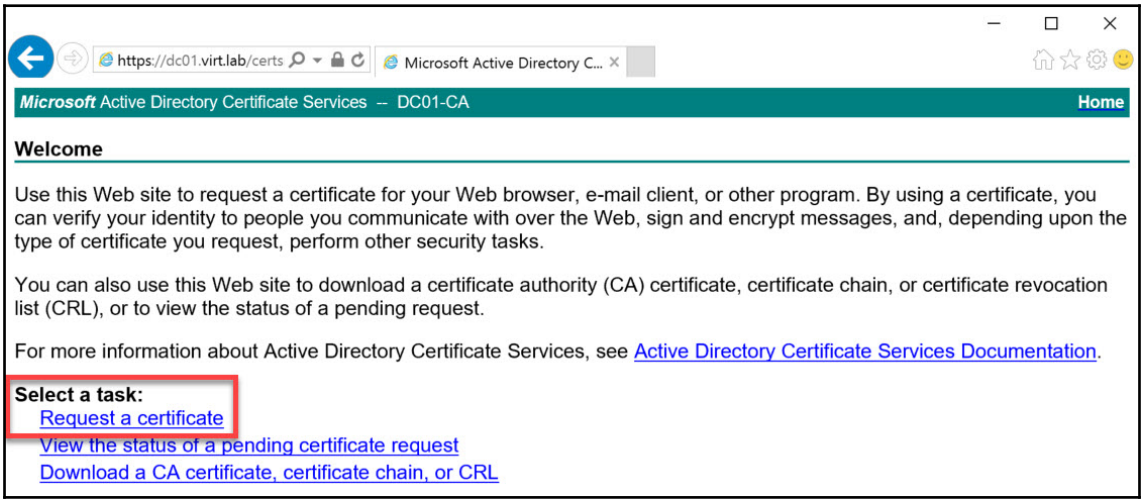

Certificate Enrollment
Certificate Installation Results
The following certificates have been enrolled and installed on this computer.
Active Directory Enrollment Policy
DPMAUTH
STATUS: Succeeded
Details
Finish

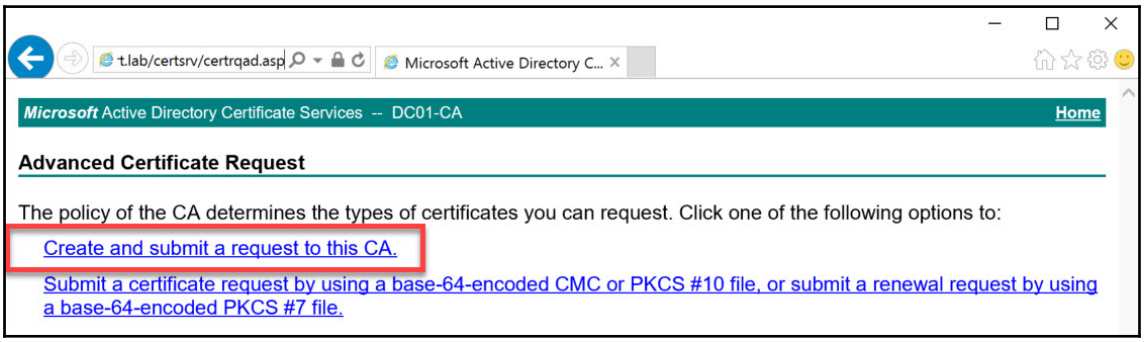

CERTLM - [Certificates - Local Computer\Personal\Certificates]
File Action View Help
Certificates - Local Computer
Personal
Certificates
Trusted Root Certification Authorities
Enterprise Trust
Intermediate Certification Authorities
Trusted Publishers
Untrusted Certificates
Third-Party Root Certification Authorities
Trusted People
Client Authentication Issuers
Preview Build Roots
Test Roots
DPMBackupStore
DPMRestoreStore
Local NonRemovable Certificates
MSIEHistoryJournal
Remote Desktop
Smart Card Trusted Roots
Trusted Devices
Windows Live ID Token Issuer
Issued To | Issued By | Expiration Date | Intended Purposes | Friendly Name
SC-DPM-1807.VIRT.LAB | DC01-CA | 11/26/2020 | Server Authentication,... | SRV-DPM-CERT
Windows Azure Tools | Windows Azure Tools | 11/8/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/8/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/8/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/7/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/7/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/7/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/7/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/7/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 11/7/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 10/16/2018 | Client Authentication | SC-DPM-RSV4c7893...
Windows Azure Tools | Windows Azure Tools | 9/14/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 9/14/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 9/12/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 9/11/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 9/11/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 9/11/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 9/11/2018 | Client Authentication | SC-DPM-18074c789...
Windows Azure Tools | Windows Azure Tools | 9/10/2018 | Client Authentication | SC-DPM-18074c789...
Personal store contains 46 certificates.

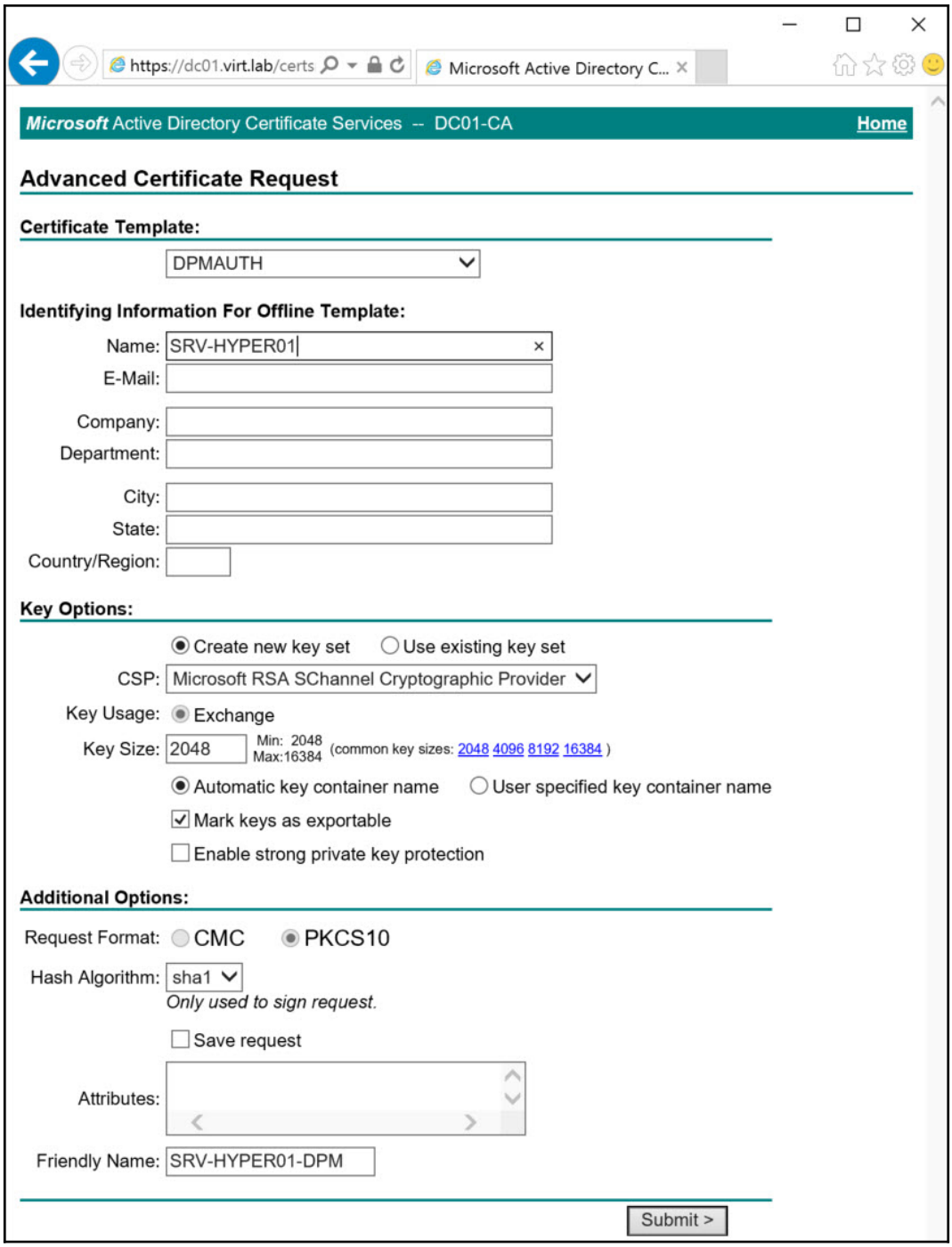

Certificate
General
Details
Certification Path
Show:
<All>
Field
Value
Subject Key Identifier
637cb9f5877e67017bb428f62...
Subject Alternative Name
DNS Name=SC-DPM-1807.VIR...
Authority Key Identifier
KeyID=6fc46bc83503ea39b95...
CRL Distribution Points
[1]CRL Distribution Point: Distri...
Authority Information Access
[1]Authority Info Access: Acces...
Key Usage
Digital Signature, Key Encipher...
Thumbprint
8e6fbd6d9a1f7b4be8c1645d5c...
Friendly name
SRV-DPM-CERT
8e6fbd6d9a1f7b4be8c1645d5c5564f57d25bee8
Edit Properties...
Copy to File...
OK

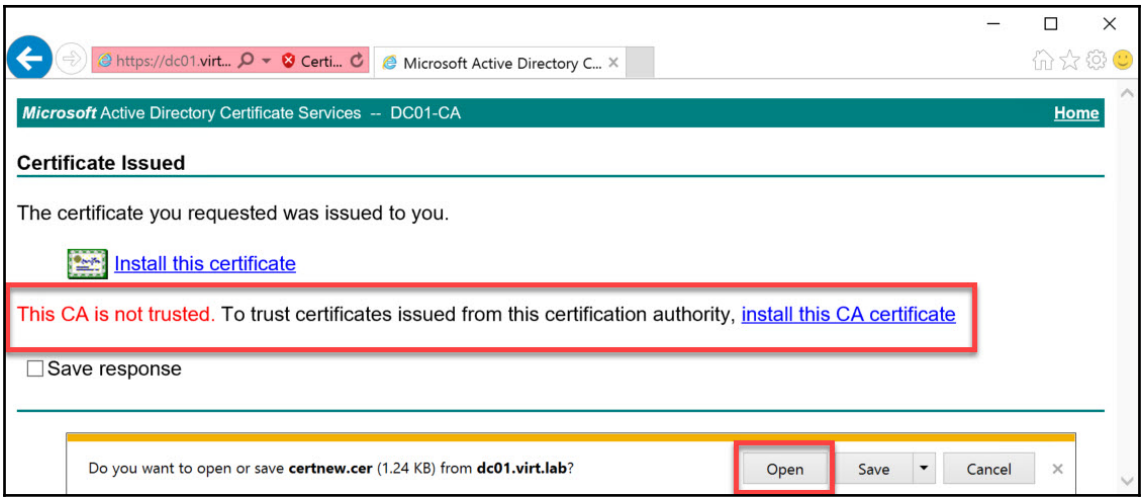
```
Path
----
D:\Program Files\Microsoft System Center\DPM\DPM\bin


CharbelNemnom.com #> Set-DPMCredentials -DPMServerName SC-DPM-1807 -Type Certificate -Action Configure -Output
FilePath C:\DPMCERT\ -Thumbprint 8e6fbd6d9a1f7b4be8c1645d5c5564f57d25bee8 -Verbose
WARNING: Connecting to DPM server: SC-DPM-1807
VERBOSE: Configures DPM server SC-DPM-1807 for certificate-based authentication.
Configuration completed successfully.
Firewall exception for DPMCPWrapperService communication has been added on port 6076 (TCP and UDP) in all prof
iles.
CharbelNemnom.com #> _
```

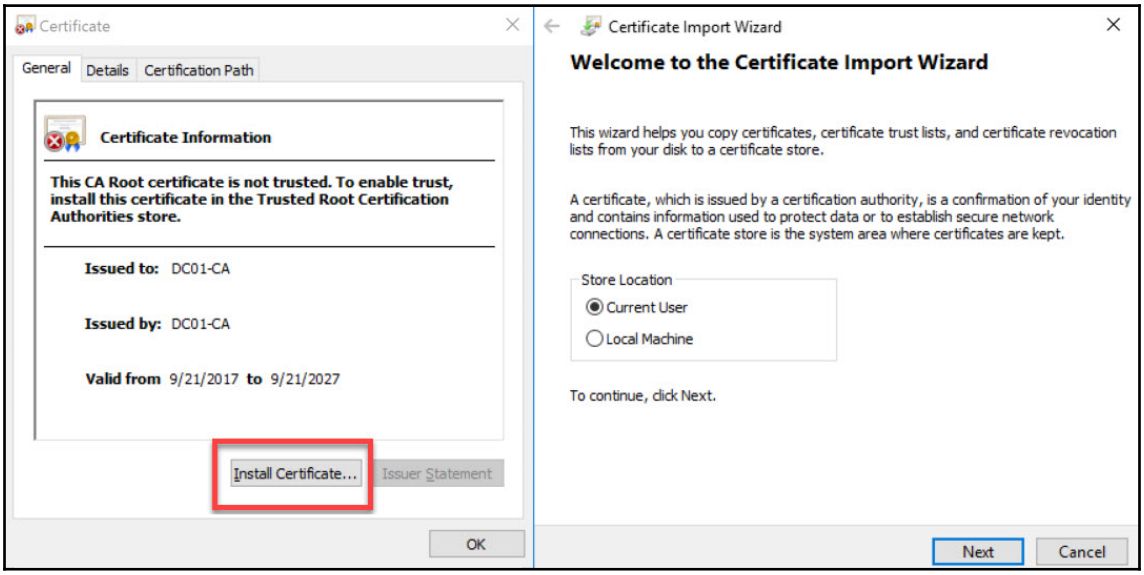
```
Administrator: Command Prompt

C:\DPMAgent\agents\RA\5.1.375.0\amd64\1033>DPMAgentInstaller_KB4293623_AMD64.exe

C:\DPMAgent\agents\RA\5.1.375.0\amd64\1033>_
```

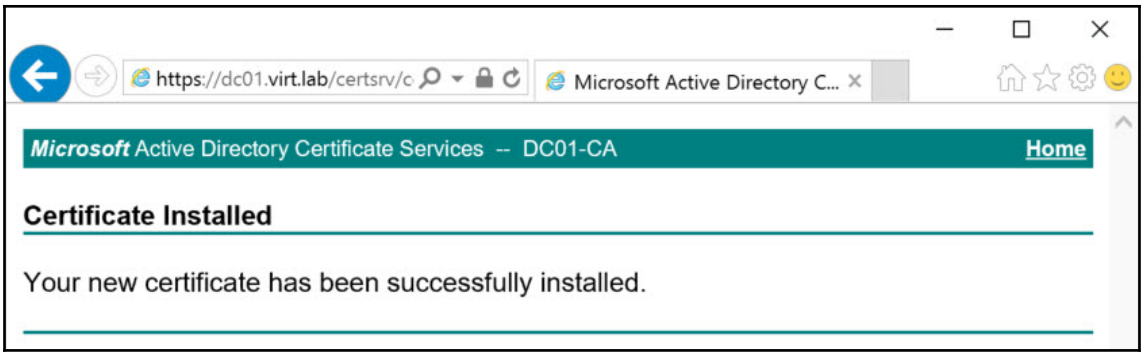


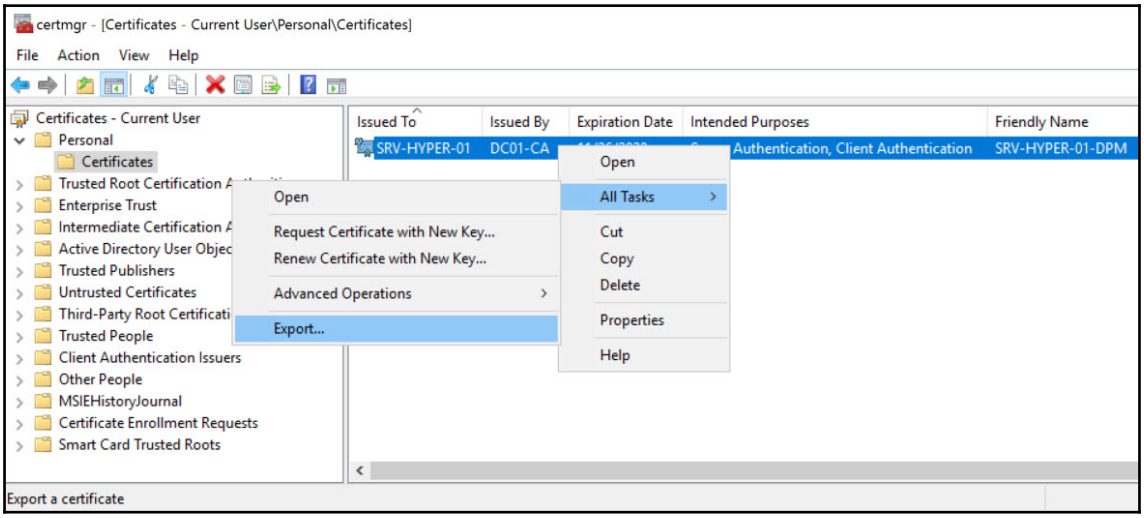


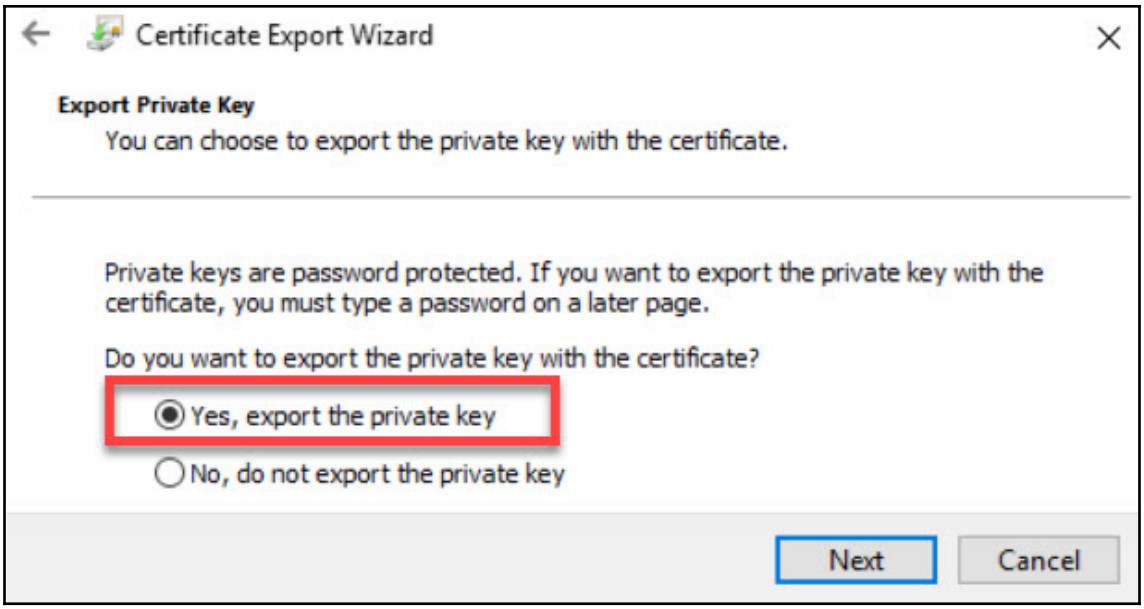

https://dc01.virt.lab/certs
Microsoft Active Directory C...
Microsoft Active Directory Certificate Services -- DC01-CA
Home
Advanced Certificate Request
Certificate Template:
DPMAUTH
Identifying Information For Offline Template:
Name: SRV-HYPER01
E-Mail:
Company:
Department:
City:
State:
Country/Region:
Key Options:
Create new key set
Use existing key set
CSP: Microsoft RSA SChannel Cryptographic Provider
Key Usage: Exchange
Key Size: 2048 Min: 2048 Max:16384 (common key sizes: 2048 4096 8192 16384)
Automatic key container name
User specified key container name
Mark keys as exportable
Enable strong private key protection
Additional Options:
Request Format: CMC PKCS10
Hash Algorithm: sha1
Only used to sign request.
Save request
Attributes:
Friendly Name: SRV-HYPER01-DPM
Submit >

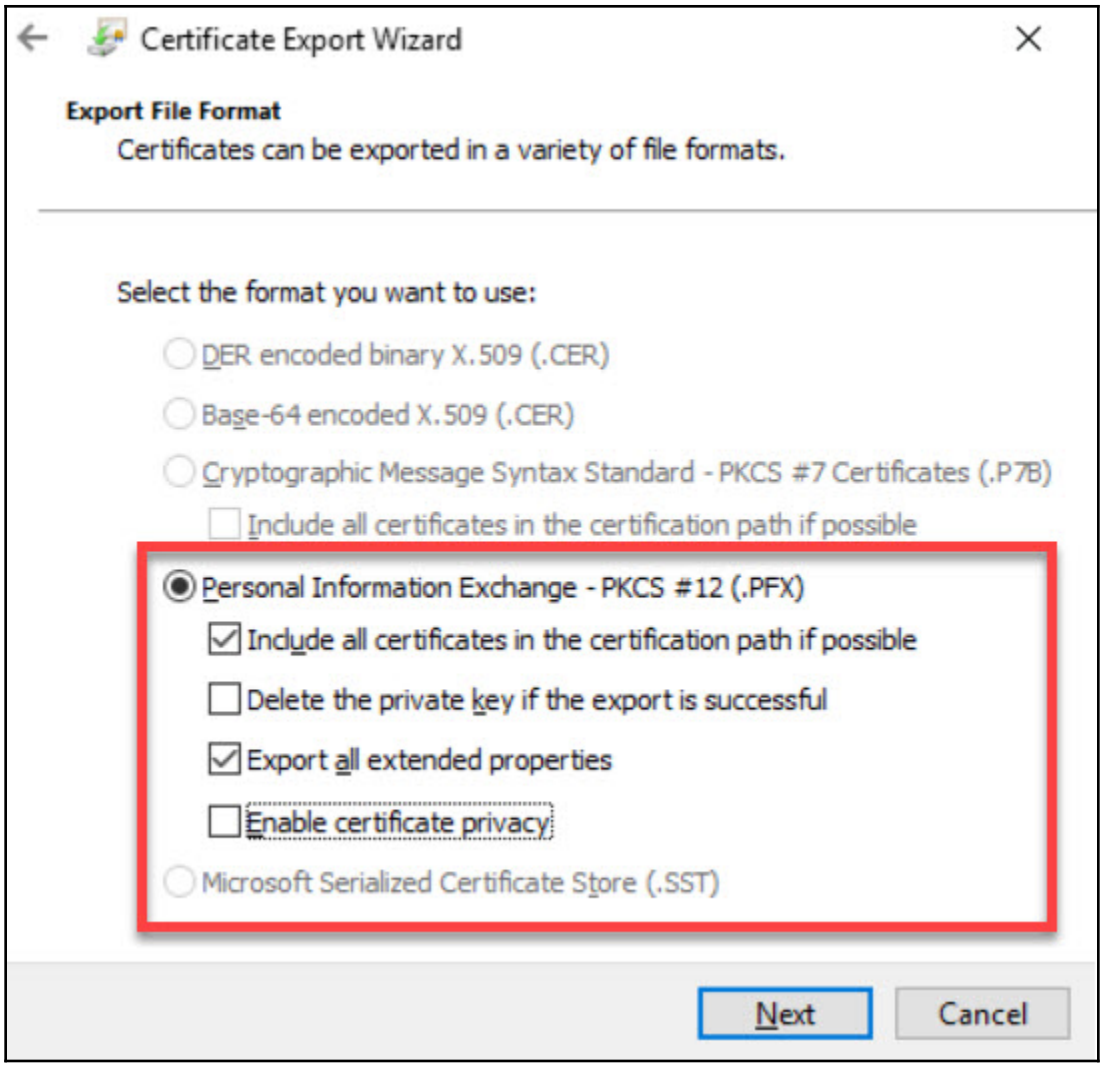

https://dc01.virt...
Certi...
Microsoft Active Directory C...
Microsoft Active Directory Certificate Services -- DC01-CA
Home
Certificate Issued
The certificate you requested was issued to you.
Install this certificate
This CA is not trusted. To trust certificates issued from this certification authority, install this CA certificate
Save response
Do you want to open or save certnew.cer (1.24 KB) from dc01.virt.lab?
Open
Save
Cancel

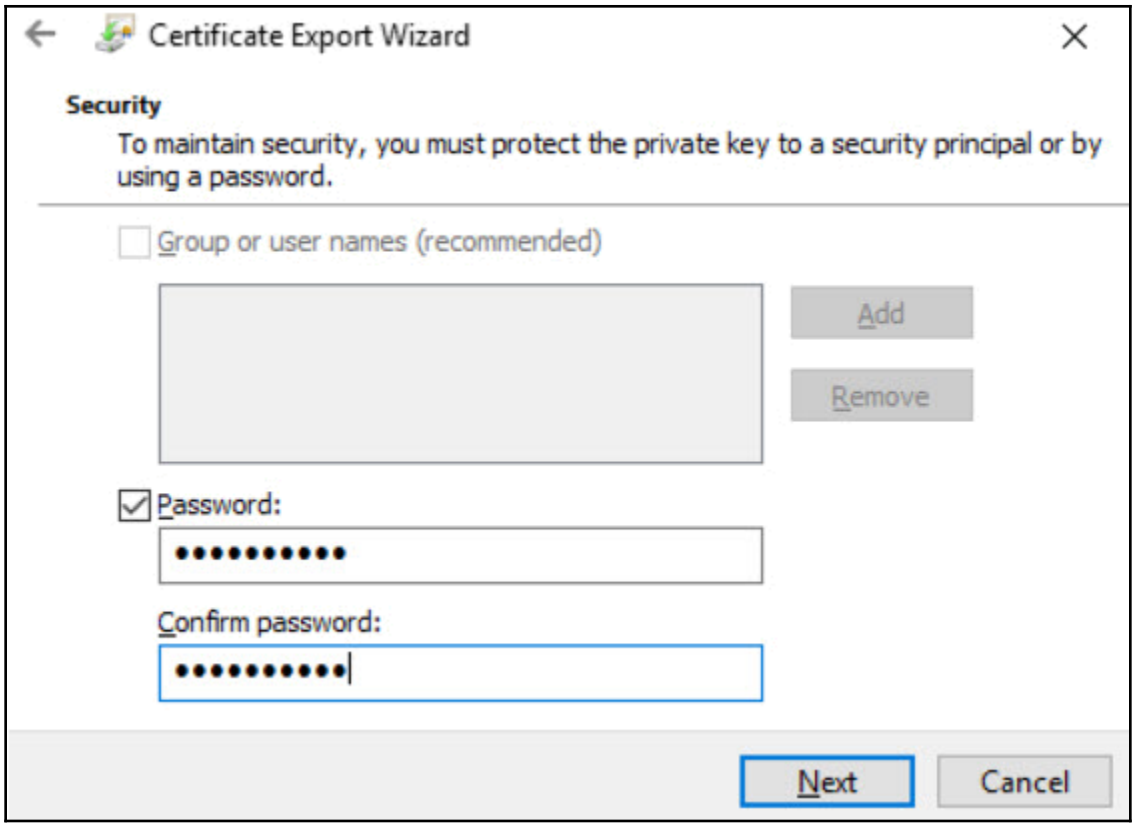

Certificate
General
Details
Certification Path
Certificate Information
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.
Issued to: DC01-CA
Issued by: DC01-CA
Valid from 9/21/2017 to 9/21/2027
Install Certificate...
Issuer Statement
OK
Certificate Import Wizard
Welcome to the Certificate Import Wizard
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
Store Location
Current User
Local Machine
To continue, click Next.
Next
Cancel

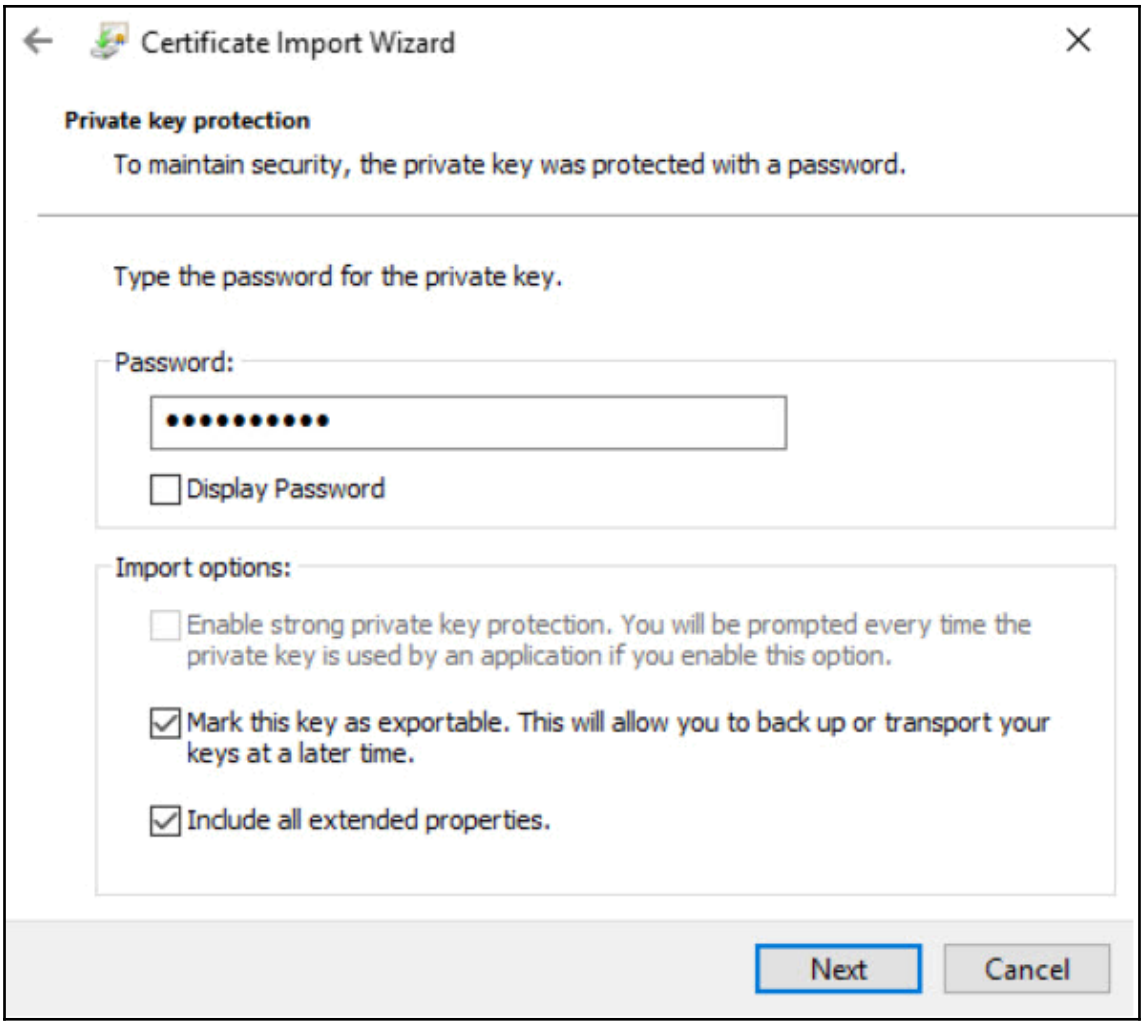

https://dc01.virt.lab/certsrv/c
Microsoft Active Directory C...
Microsoft Active Directory Certificate Services -- DC01-CA
Home
Certificate Installed
Your new certificate has been successfully installed.

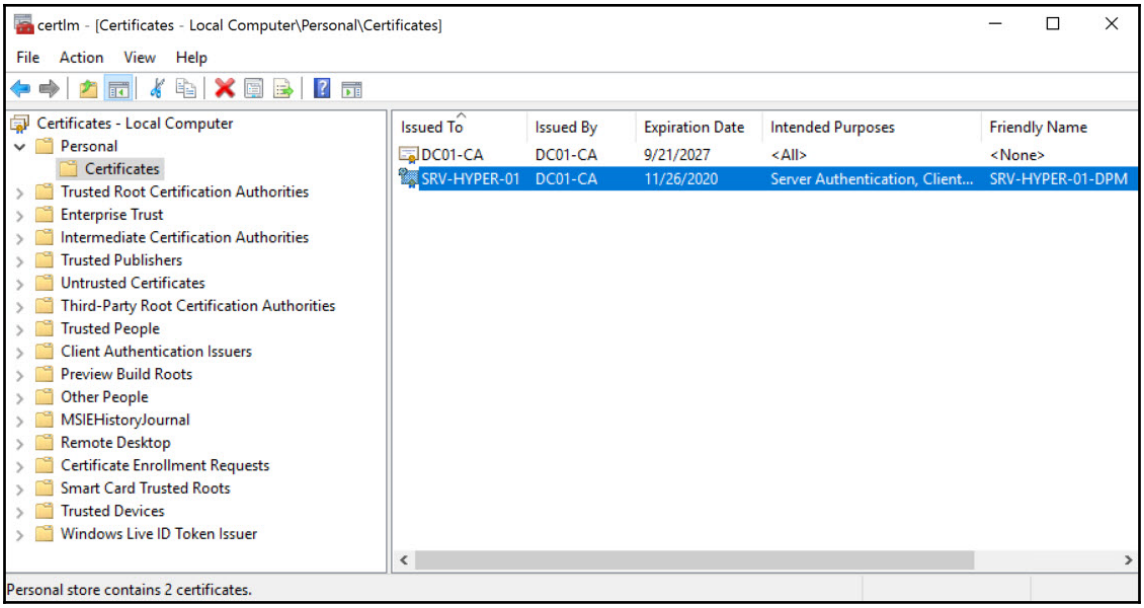

certmgr - [Certificates - Current User\Personal\Certificates]
File Action View Help
Certificates - Current User
Personal
Certificates
Trusted Root Certification A
Enterprise Trust
Intermediate Certification A
Active Directory User Objec
Trusted Publishers
Untrusted Certificates
Third-Party Root Certificati
Trusted People
Client Authentication Issuers
Other People
MSIEHistoryJournal
Certificate Enrollment Requests
Smart Card Trusted Roots
Issued To
Issued By
Expiration Date
Intended Purposes
Friendly Name
SRV-HYPER-01
DC01-CA
Authentication, Client Authentication
SRV-HYPER-01-DPM
Open
Request Certificate with New Key...
Renew Certificate with New Key...
Advanced Operations
Export...
Open
All Tasks
Cut
Copy
Delete
Properties
Help
Export a certificate

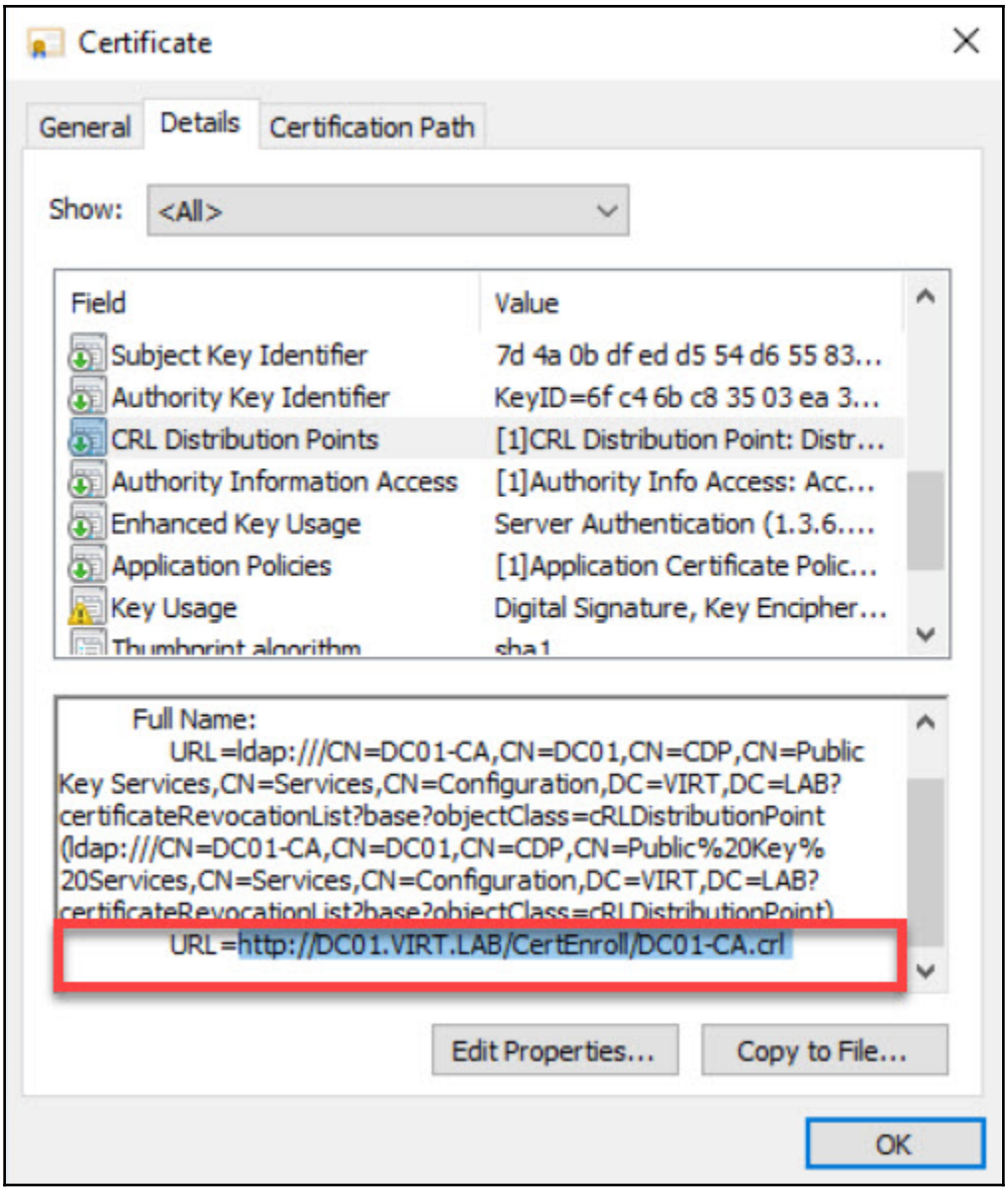

Certificate Export Wizard
Export Private Key
You can choose to export the private key with the certificate.
Private keys are password protected. If you want to export the private key with the certificate, you must type a password on a later page.
Do you want to export the private key with the certificate?
Yes, export the private key
No, do not export the private key
Next
Cancel

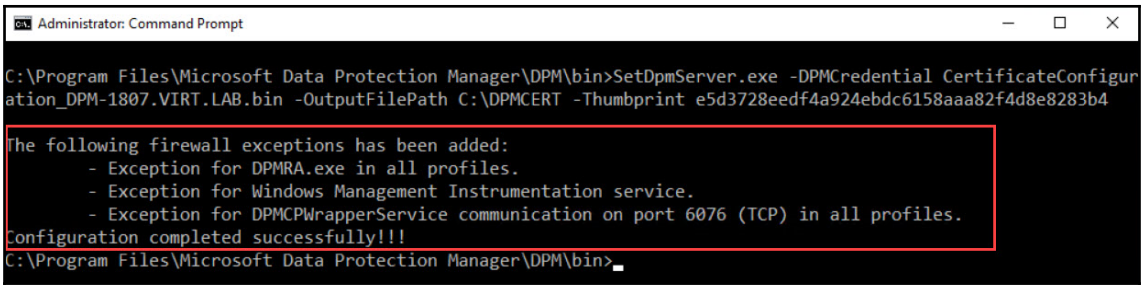

Certificate Export Wizard
Export File Format
Certificates can be exported in a variety of file formats.
Select the format you want to use:
DER encoded binary X.509 (.CER)
Base-64 encoded X.509 (.CER)
Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
Include all certificates in the certification path if possible
Personal Information Exchange - PKCS #12 (.PFX)
Include all certificates in the certification path if possible
Delete the private key if the export is successful
Export all extended properties
Enable certificate privacy
Microsoft Serialized Certificate Store (.SST)
Next
Cancel


Certificate Export Wizard
Security
To maintain security, you must protect the private key to a security principal or by using a password.
Group or user names (recommended)
Add
Remove
Password:
Confirm password:
Next
Cancel

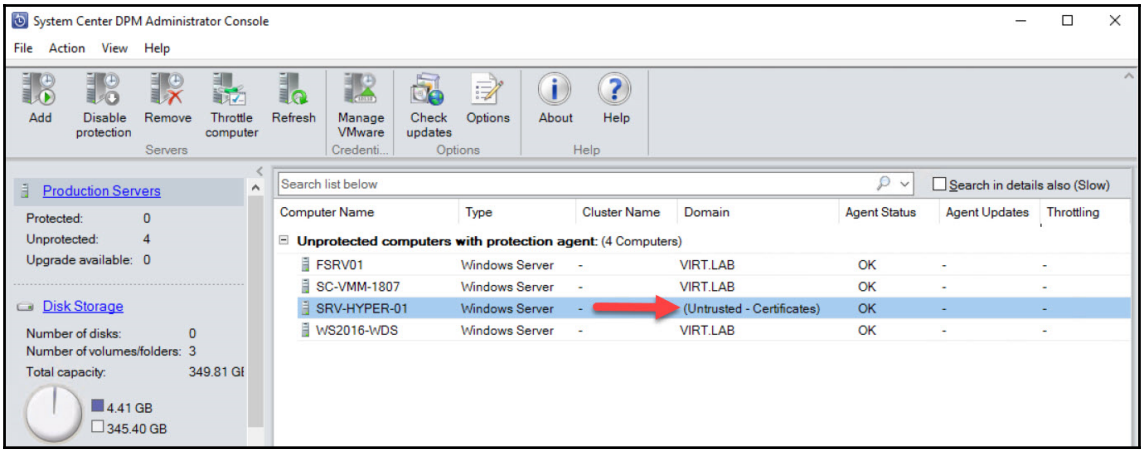

Certificate Import Wizard
Private key protection
To maintain security, the private key was protected with a password.
Type the password for the private key.
Password:
Display Password
Import options:
Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.
Mark this key as exportable. This will allow you to back up or transport your keys at a later time.
Include all extended properties.
Next
Cancel

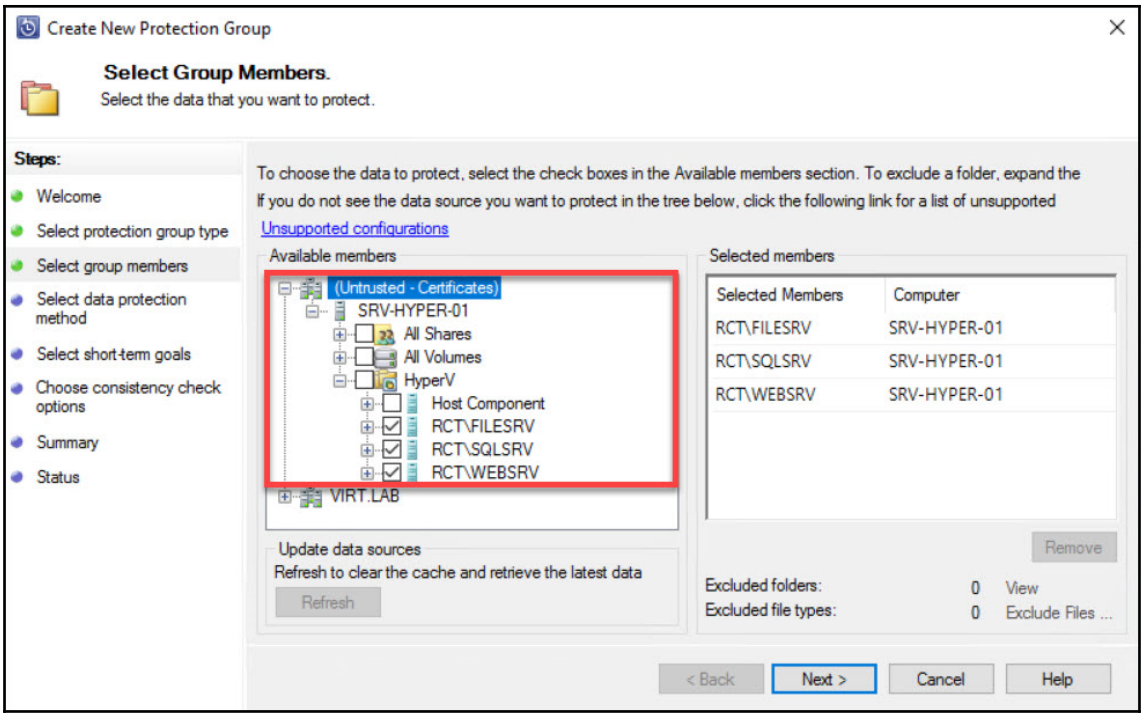

certlm - [Certificates - Local Computer\Personal\Certificates]
File Action View Help
Certificates - Local Computer
Personal
Certificates
Trusted Root Certification Authorities
Enterprise Trust
Intermediate Certification Authorities
Trusted Publishers
Untrusted Certificates
Third-Party Root Certification Authorities
Trusted People
Client Authentication Issuers
Preview Build Roots
Other People
MSIEHistoryJournal
Remote Desktop
Certificate Enrollment Requests
Smart Card Trusted Roots
Trusted Devices
Windows Live ID Token Issuer
Issued To
Issued By
Expiration Date
Intended Purposes
Friendly Name
DC01-CA
DC01-CA
9/21/2027
<All>
<None>
SRV-HYPER-01
DC01-CA
11/26/2020
Server Authentication, Client...
SRV-HYPER-01-DPM
Personal store contains 2 certificates.

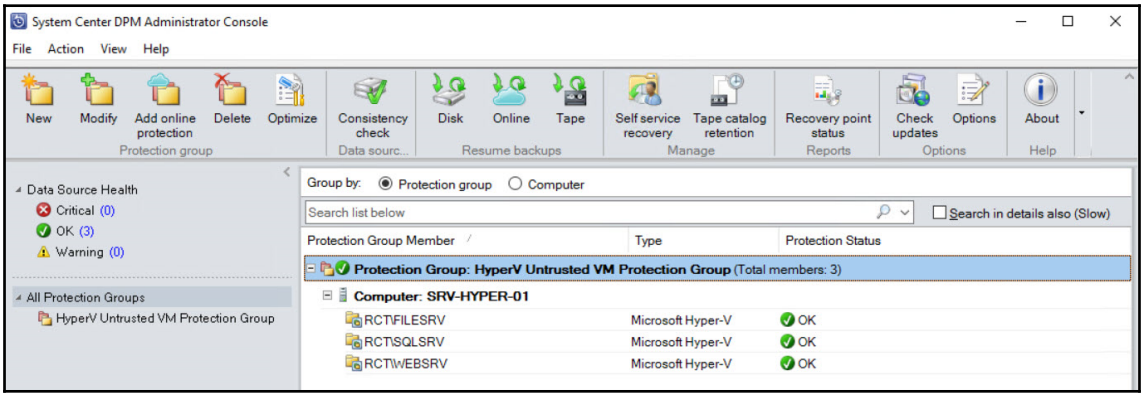

Certificate
General
Details
Certification Path
Show:
<All>
Field
Value
Subject Key Identifier
7d 4a 0b df ed d5 54 d6 55 83...
Authority Key Identifier
KeyID=6f c4 6b c8 35 03 ea 3...
CRL Distribution Points
[1]CRL Distribution Point: Distr...
Authority Information Access
[1]Authority Info Access: Acc...
Enhanced Key Usage
Server Authentication (1.3.6....
Application Policies
[1]Application Certificate Polic...
Key Usage
Digital Signature, Key Encipher...
Thumbprint algorithm
sha1
Full Name:
URL=ldap:///CN=DC01-CA,CN=DC01,CN=CDP,CN=Public Key Services,CN=Services,CN=Configuration,DC=VIRT,DC=LAB?certificateRevocationList?base?objectClass=cRLDistributionPoint
(ldap:///CN=DC01-CA,CN=DC01,CN=CDP,CN=Public%20Key%20Services,CN=Services,CN=Configuration,DC=VIRT,DC=LAB?certificateRevocationList?base?objectClass=cRLDistributionPoint)
URL=http://DC01.VIRT.LAB/CertEnroll/DC01-CA.crl
Edit Properties...
Copy to File...
OK


Administrator: Command Prompt
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>SetDpmServer.exe -DPMCredential CertificateConfigur
ation_DPM-1807.VIRT.LAB.bin -OutputFilePath C:\DPMCERT -Thumbprint e5d3728eedf4a924ebdc6158aaa82f4d8e8283b4
The following firewall exceptions has been added:
- Exception for DPMRA.exe in all profiles.
- Exception for Windows Management Instrumentation service.
- Exception for DPMCPWrapperService communication on port 6076 (TCP) in all profiles.
Configuration completed successfully!!!
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>

Path
D:\Program Files\Microsoft System Center\DPM\DPM\bin
CharbelNemnom.com #> .\Attach-ProductionServerWithCertificate.ps1 -DPMServerName DPM-1807.VIRT.LAB -PSCredential Certifi
cateConfiguration_SRV-HYPER-01.bin -Verbose
WARNING: Connecting to DPM server: DPM-1807.VIRT.LAB
Attached Production Server with certificates successfully
CharbelNemnom.com #>


System Center DPM Administrator Console
File Action View Help
Add
Disable protection
Remove
Throttle computer
Refresh
Manage VMware
Check updates
Options
About
Help
Servers
Credenti...
Options
Help
Production Servers
Protected: 0
Unprotected: 4
Upgrade available: 0
Disk Storage
Number of disks: 0
Number of volumes/folders: 3
Total capacity: 349.81 GB
4.41 GB
345.40 GB
Search list below
Search in details also (Slow)
Computer Name
Type
Cluster Name
Domain
Agent Status
Agent Updates
Throttling
Unprotected computers with protection agent: (4 Computers)
FSRV01 Windows Server - VIRT.LAB OK - -
SC-VMM-1807 Windows Server - VIRT.LAB OK - -
SRV-HYPER-01 Windows Server - (Untrusted - Certificates) OK - -
WS2016-WDS Windows Server - VIRT.LAB OK - -


Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported
Unsupported configurations
Available members
(Untrusted - Certificates)
SRV-HYPER-01
All Shares
All Volumes
HyperV
Host Component
RCT\FILESRV
RCT\SQLSRV
RCT\WEBSRV
VIRT.LAB
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
RCT\FILESRV
SRV-HYPER-01
RCT\SQLSRV
SRV-HYPER-01
RCT\WEBSRV
SRV-HYPER-01
Remove
Excluded folders:
0
View
Excluded file types:
0
Exclude Files ...
< Back
Next >
Cancel
Help


System Center DPM Administrator Console
File
Action
View
Help
New
Modify
Add online protection
Delete
Optimize
Protection group
Consistency check
Data sourc...
Disk
Online
Tape
Resume backups
Self service recovery
Tape catalog retention
Manage
Recovery point status
Reports
Check updates
Options
Options
About
Help
Data Source Health
Critical (0)
OK (3)
Warning (0)
All Protection Groups
HyperV Untrusted VM Protection Group
Group by:
Protection group
Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Protection Group: HyperV Untrusted VM Protection Group (Total members: 3)
Computer: SRV-HYPER-01
RCT\FILESRV
Microsoft Hyper-V
OK
RCT\SQLSRV
Microsoft Hyper-V
OK
RCT\WEBSRV
Microsoft Hyper-V
OK

Chapter 9: Recovering Data from Backup

```
CharbelNemnom.com #> $PGroup = Get-DPMProtectionGroup
CharbelNemnom.com #> $PGroup

Name                           ProtectionMethod
----                           ----------------
SQL Protection Group           Short-term using disk
File Server Protection Group Short-term using disk | Online protection
```

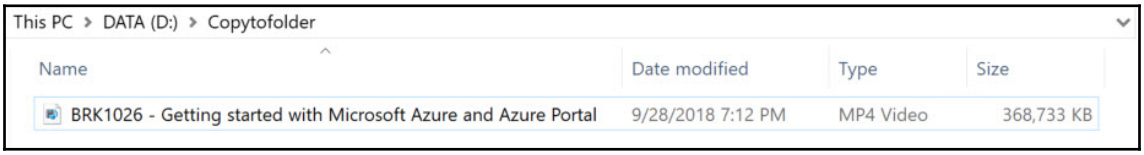
```
CharbelNemnom.com #> $PObjects = Get-DPMDatasource -ProtectionGroup $PGroup[1]
CharbelNemnom.com #> $PObjects

Computer Name                              ObjectType
-------- ----                              ----------
FSRV01   D:\MountPoints\MountPoint-FSRV01 Volume
FSRV01   D:\                               Volume
```

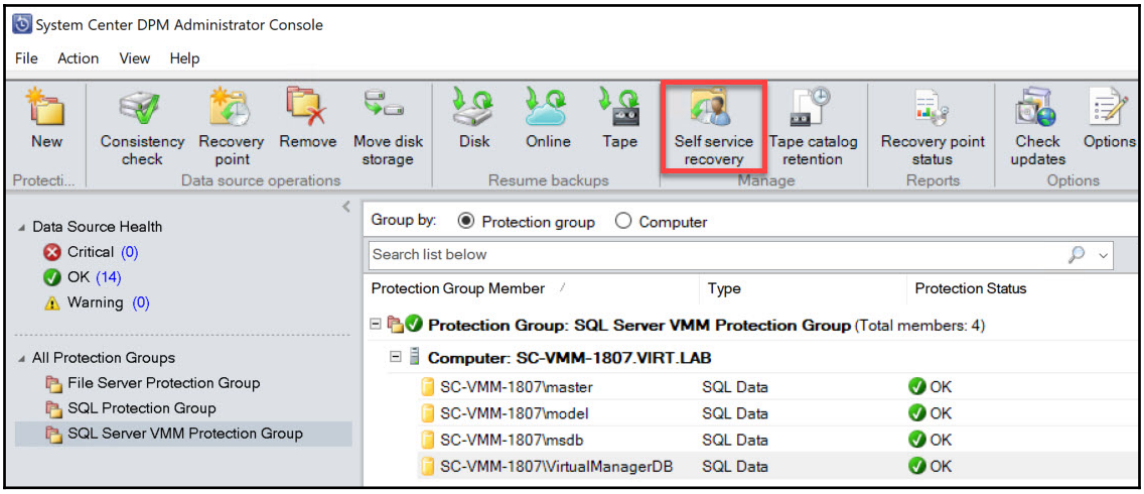
```
CharbelNemnom.com #> Get-DPMRecoveryPoint -Datasource $PObjects[0] | Sort -Property RepresentedPoint
InTime -Descending

Name                           BackupTime             Datasource
----                           ----------             ----------
D:\MountPoints\MountPoint-FSRV01 11/11/2018 11:37:13 AM D:\MountPoints\MountPoint-FSRV01 on comp...
D:\MountPoints\MountPoint-FSRV01 11/11/2018 8:53:59 AM  D:\MountPoints\MountPoint-FSRV01 on comp...


CharbelNemnom.com #> $RecoveryPoint = Get-DPMRecoveryPoint -Datasource $PObjects[0] | Sort -Property
 RepresentedPointInTime -Descending | Select-Object -First 1
CharbelNemnom.com #> $RecoveryPoint

Name                           BackupTime             Datasource
----                           ----------             ----------
D:\MountPoints\MountPoint-FSRV01 11/11/2018 11:37:13 AM D:\MountPoints\MountPoint-FSRV01 on comp...
```

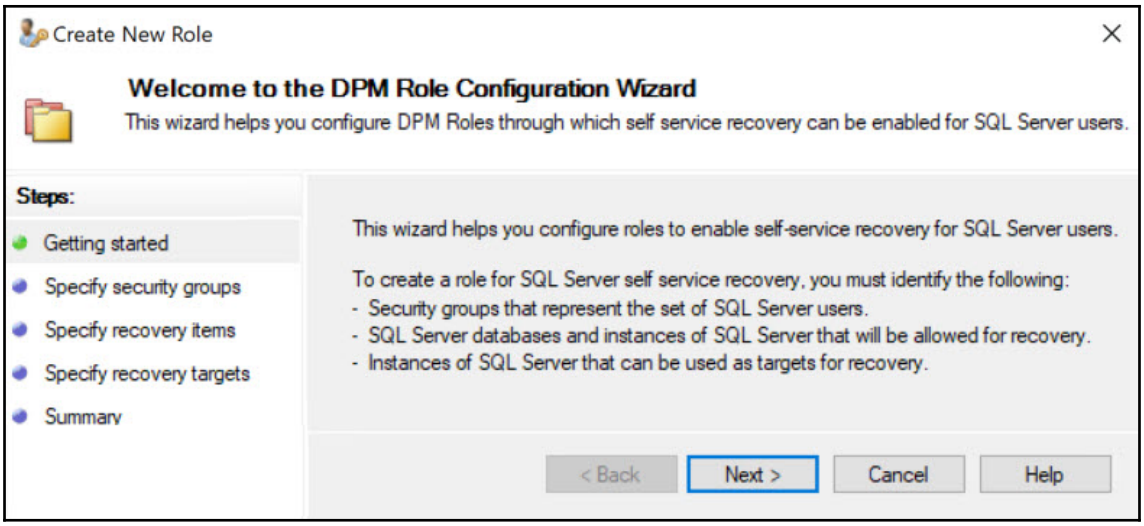
```
CharbelNemnom.com #> $RecoverItem = Get-DPMRecoverableItem -RecoverableItem $RecoveryPoint -BrowseType Child
CharbelNemnom.com #> $RecoverItem

Name                                                                  BackupTime             Datasource
----                                                                  ----------             ----------
$RECYCLE.BIN                                                          11/11/2018 11:37:13 AM D:\MountPoints\Moun...
BRK1000 - What's new in Microsoft Project.mp4                         11/11/2018 11:37:13 AM D:\MountPoints\Moun...
BRK1001 - Driving success with Project Online.mp4                     11/11/2018 11:37:13 AM D:\MountPoints\Moun...
BRK1025 - Preparing for IoT in IT- Microsoft's IoT Vision and Roadmap.mp4 11/11/2018 11:37:13 AM D:\MountPoints\Moun...
BRK1026 - Getting started with Microsoft Azure and Azure Portal.mp4   11/11/2018 11:37:13 AM D:\MountPoints\Moun...
Sub-mountpoint                                                        11/11/2018 11:37:13 AM D:\MountPoints\Moun...


CharbelNemnom.com #> $RecoverItem = Get-DPMRecoverableItem -RecoverableItem $RecoveryPoint -BrowseType Child | Where-Obj
ect {$_.Name -like "*BRK1026*"}
CharbelNemnom.com #>
```

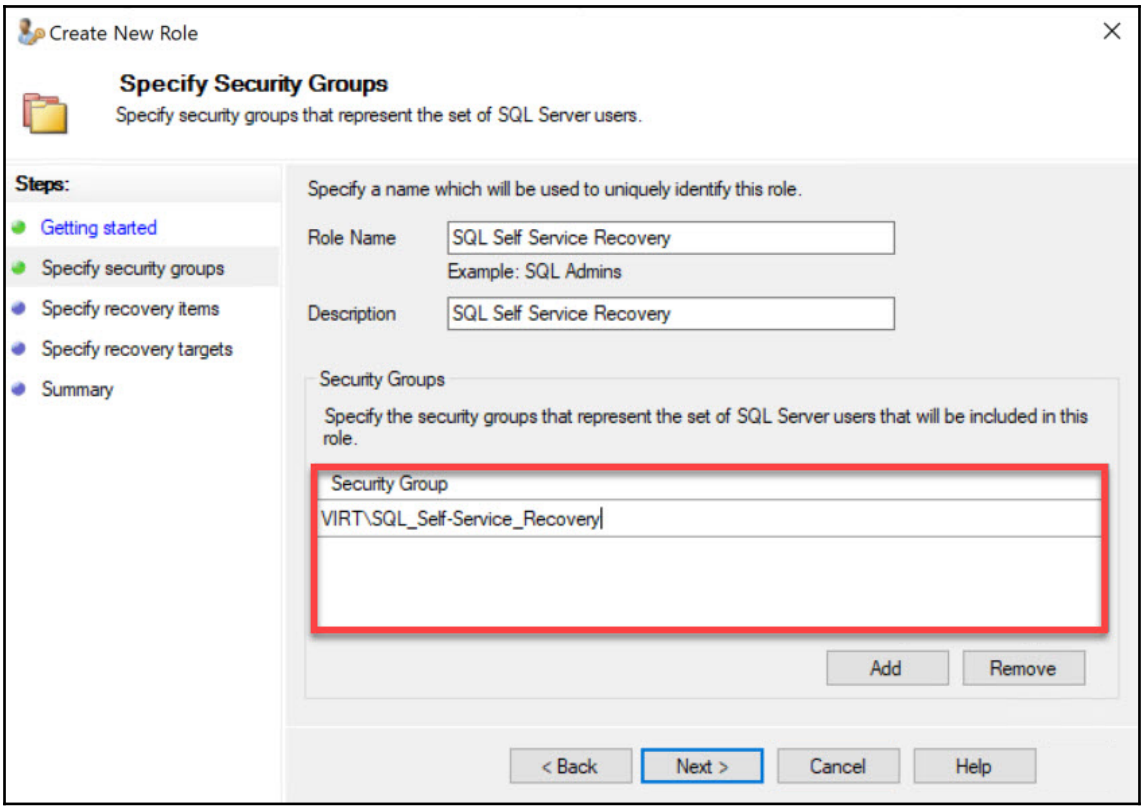
```
CharbelNemnom.com #> $RecoveryOption = New-DPMRecoveryOption -TargetServer "SC-DPM-1807.virt.lab" -RecoveryLocation Copy
ToFolder `
>> -FileSystem -AlternateLocation "D:\Copytofolder" -OverwriteType Overwrite -RestoreSecurity -RecoveryType Restore
CharbelNemnom.com #> $RecoveryOption


DsmProperties             : Microsoft.Internal.EnterpriseStorage.Dls.XsdClasses.MTA.DsmPropertiesType
AlternateLocation         : D:\Copytofolder
LibraryId                 : 00000000-0000-0000-0000-000000000000
SourceServer              :
TargetServer              : SC-DPM-1807.VIRT.LAB
RecoverToReplicaFromTape  : False
IsSANRecovery             : False
ReferencedRecoveryOptions :
```

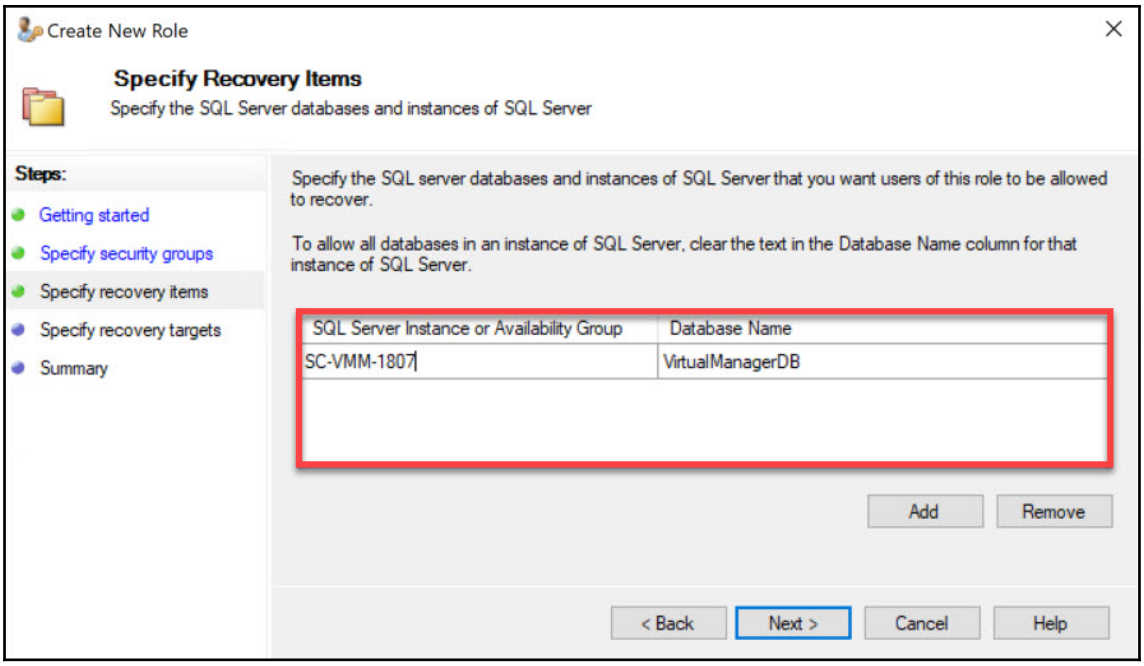
```
CharbelNemnom.com #> # Item-Level Recovery (ILR) single item Restore
CharbelNemnom.com #> Restore-DPMRecoverableItem -RecoverableItem $RecoverItem -RecoveryOption $RecoveryOption

JobCategory          Status     ProtectionGroupName          DataSources
-----------          ------     -------------------          -----------
RestoreAsFilesFromSC InProgress File Server Protection Group D:\MountPoints\MountPoint-FSRV01
```

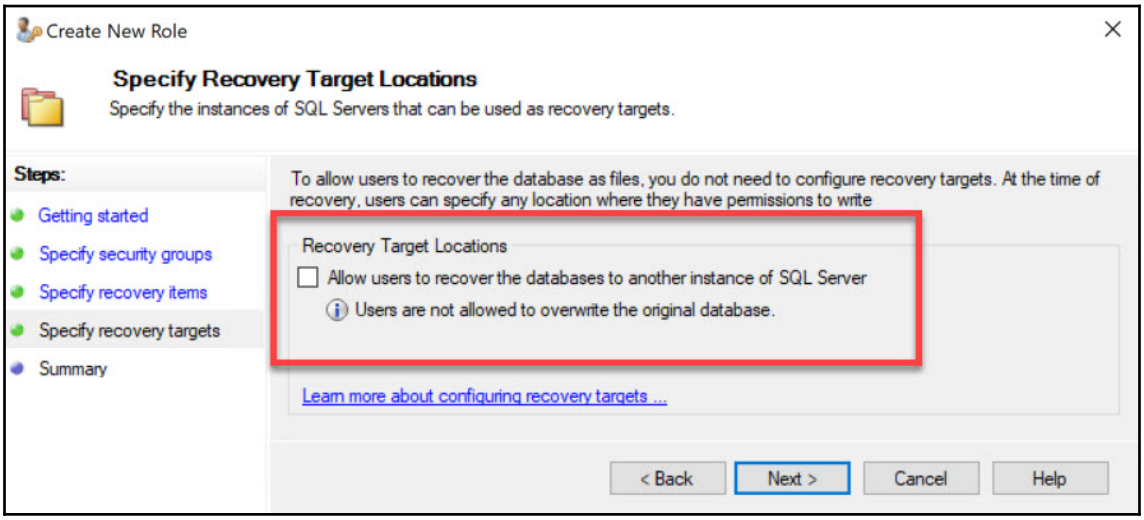


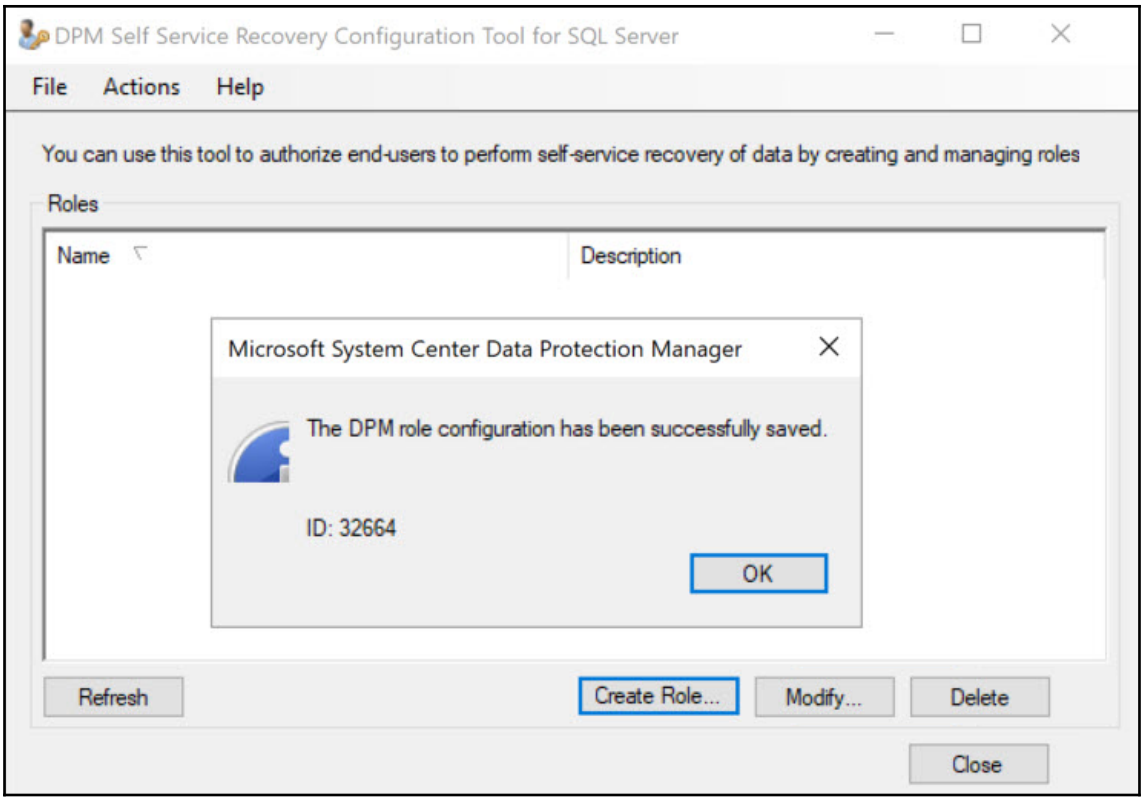


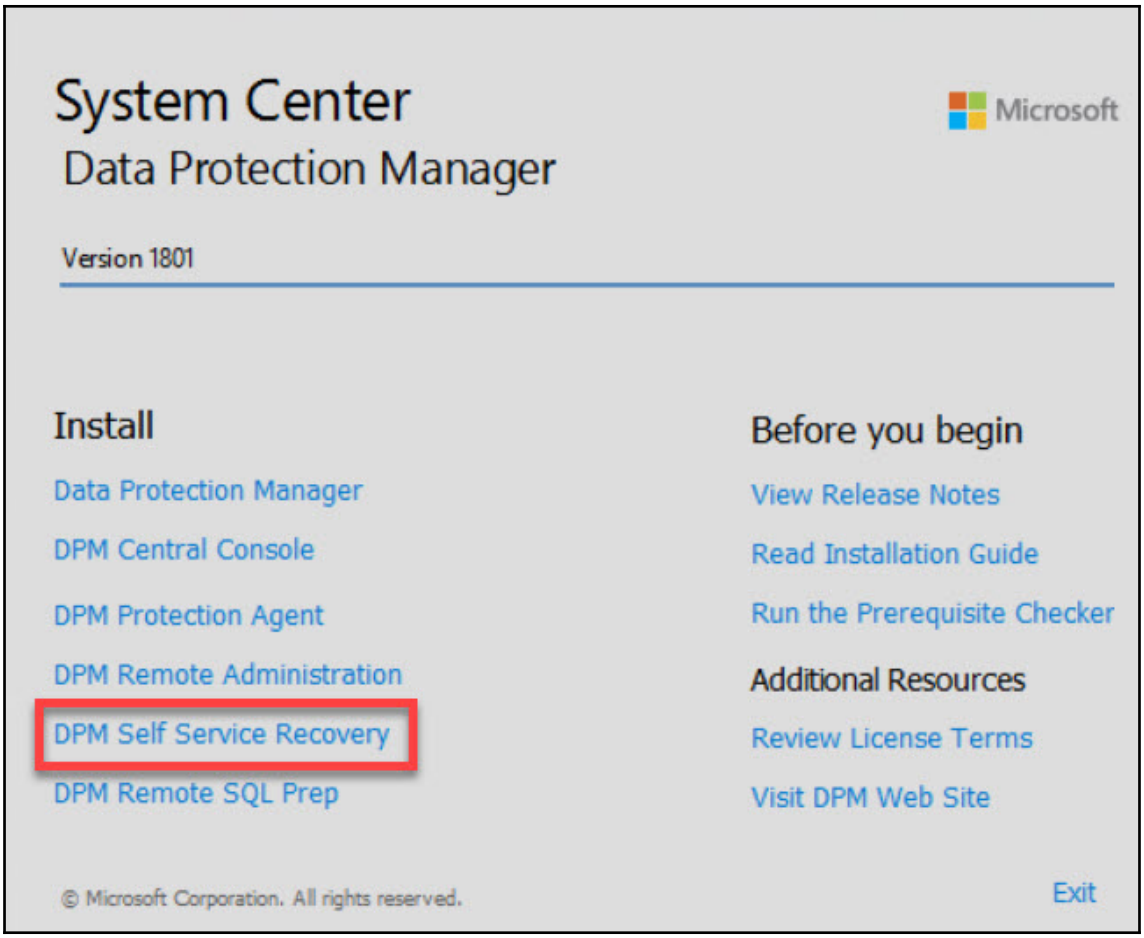

Create New Role
Welcome to the DPM Role Configuration Wizard
This wizard helps you configure DPM Roles through which self service recovery can be enabled for SQL Server users.
Steps:
Getting started
Specify security groups
Specify recovery items
Specify recovery targets
Summary
This wizard helps you configure roles to enable self-service recovery for SQL Server users.
To create a role for SQL Server self service recovery, you must identify the following:
- Security groups that represent the set of SQL Server users.
- SQL Server databases and instances of SQL Server that will be allowed for recovery.
- Instances of SQL Server that can be used as targets for recovery.
< Back
Next >
Cancel
Help

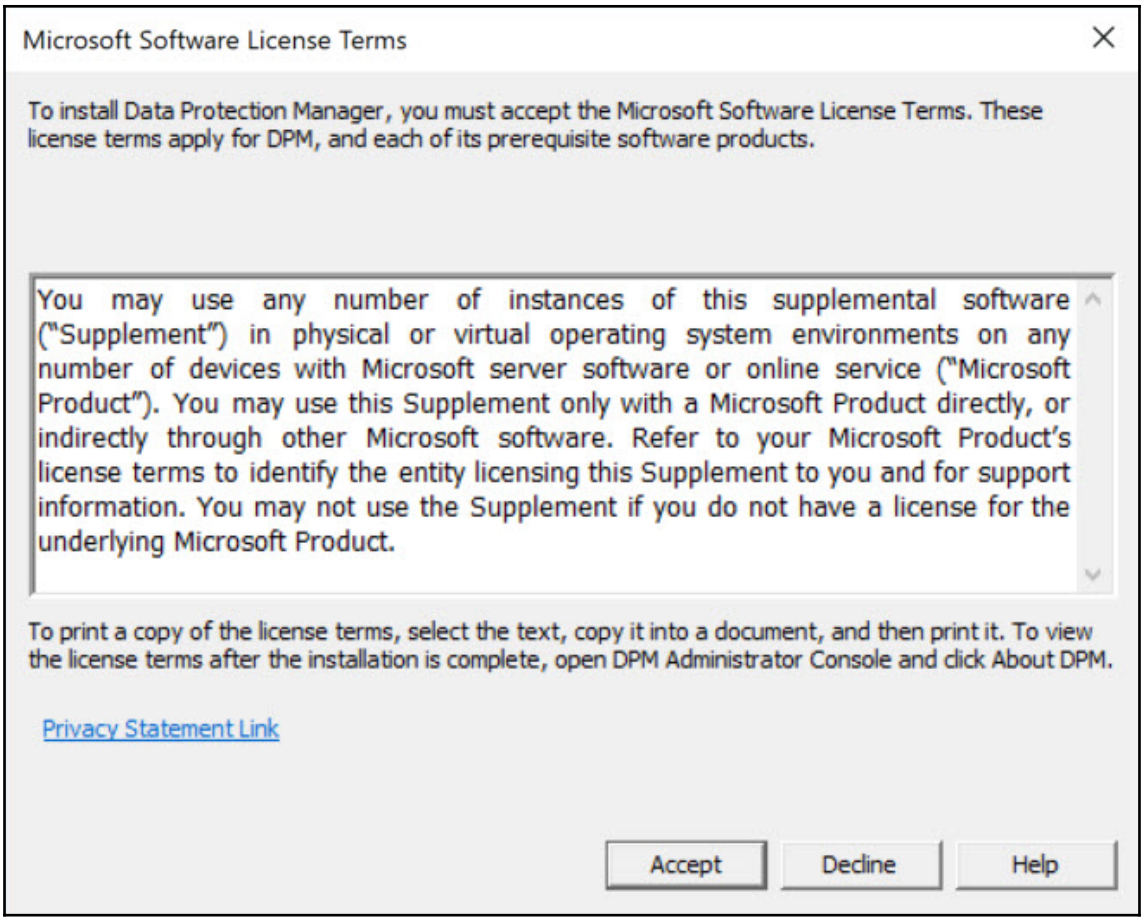

Create New Role
Specify Security Groups
Specify security groups that represent the set of SQL Server users.
Steps:
Getting started
Specify security groups
Specify recovery items
Specify recovery targets
Summary
Specify a name which will be used to uniquely identify this role.
Role Name
SQL Self Service Recovery
Example: SQL Admins
Description
SQL Self Service Recovery
Security Groups
Specify the security groups that represent the set of SQL Server users that will be included in this role.
Security Group
VIRT\SQL_Self-Service_Recovery
Add
Remove
< Back
Next >
Cancel
Help

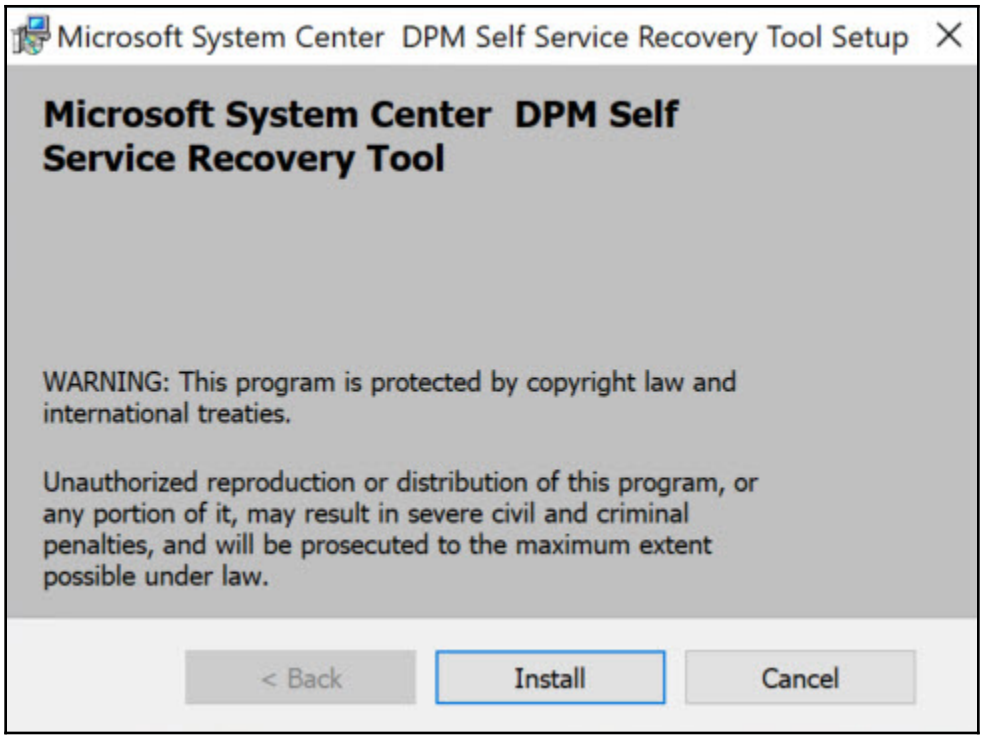

Create New Role
Specify Recovery Items
Specify the SQL Server databases and instances of SQL Server
Steps:
Getting started
Specify security groups
Specify recovery items
Specify recovery targets
Summary
Specify the SQL server databases and instances of SQL Server that you want users of this role to be allowed to recover.
To allow all databases in an instance of SQL Server, clear the text in the Database Name column for that instance of SQL Server.
SQL Server Instance or Availability Group
Database Name
SC-VMM-1807
VirtualManagerDB
Add
Remove
< Back
Next >
Cancel
Help

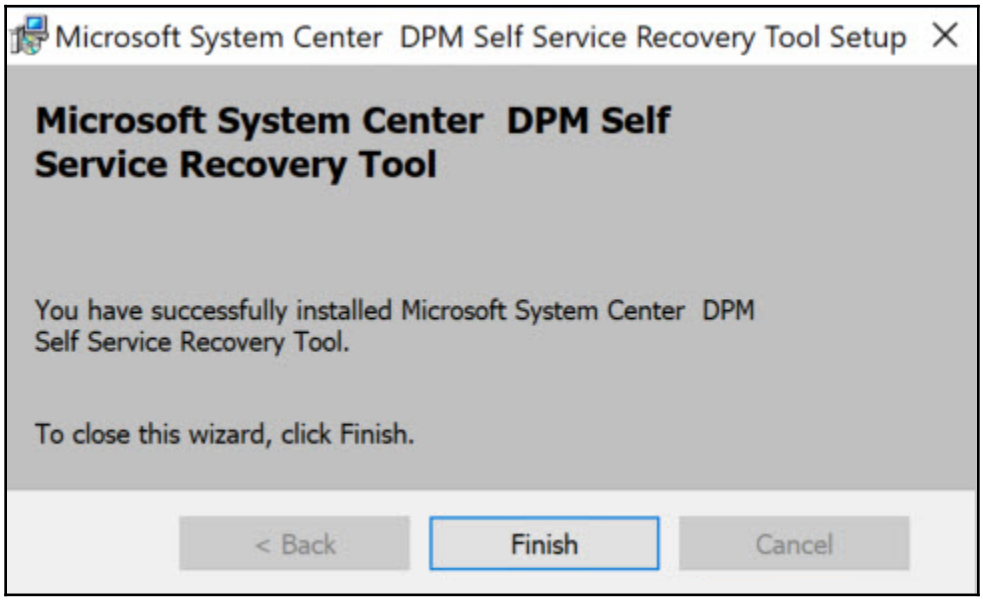

Create New Role
Specify Recovery Target Locations
Specify the instances of SQL Servers that can be used as recovery targets.
Steps:
Getting started
Specify security groups
Specify recovery items
Specify recovery targets
Summary
To allow users to recover the database as files, you do not need to configure recovery targets. At the time of recovery, users can specify any location where they have permissions to write
Recovery Target Locations
Allow users to recover the databases to another instance of SQL Server
Users are not allowed to overwrite the original database.
Learn more about configuring recovery targets ...
< Back
Next >
Cancel
Help

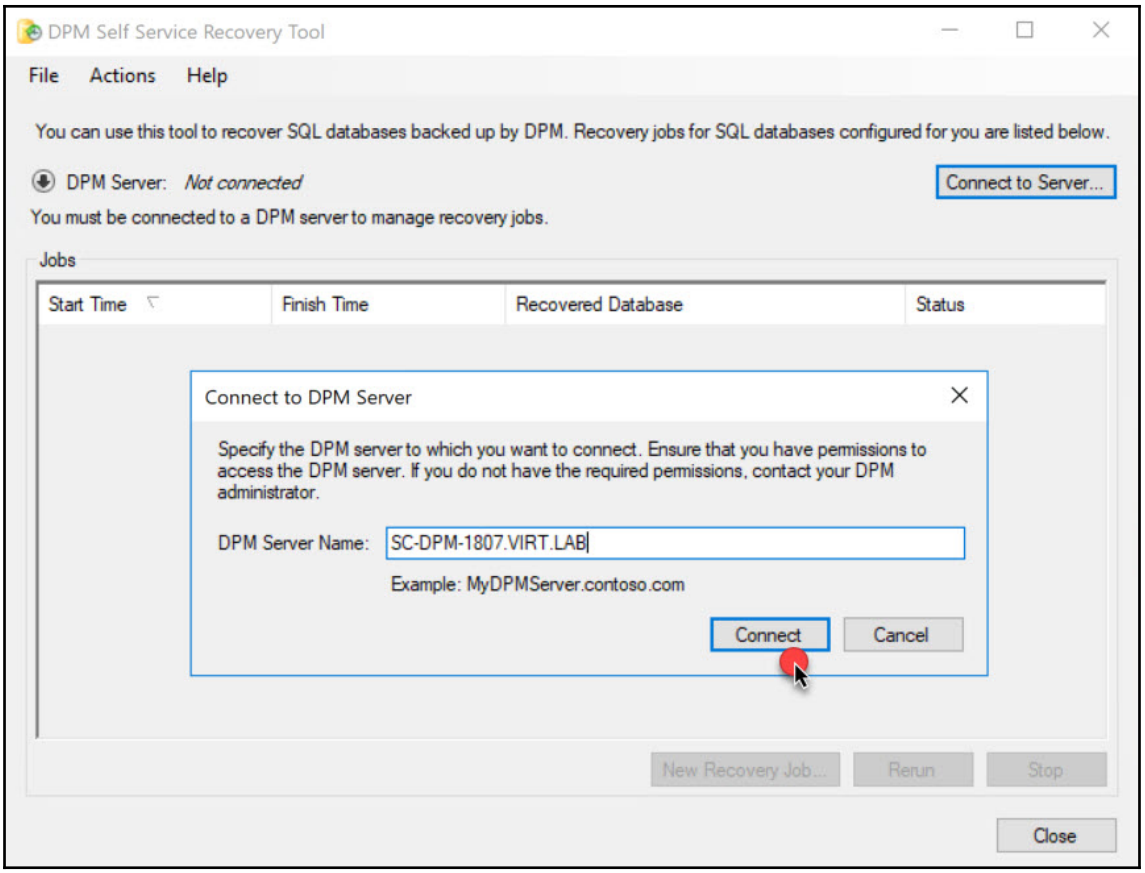

DPM Self Service Recovery Configuration Tool for SQL Server
File
Actions
Help
You can use this tool to authorize end-users to perform self-service recovery of data by creating and managing roles
Roles
Name
Description
Microsoft System Center Data Protection Manager
The DPM role configuration has been successfully saved.
ID: 32664
OK
Refresh
Create Role...
Modify...
Delete
Close

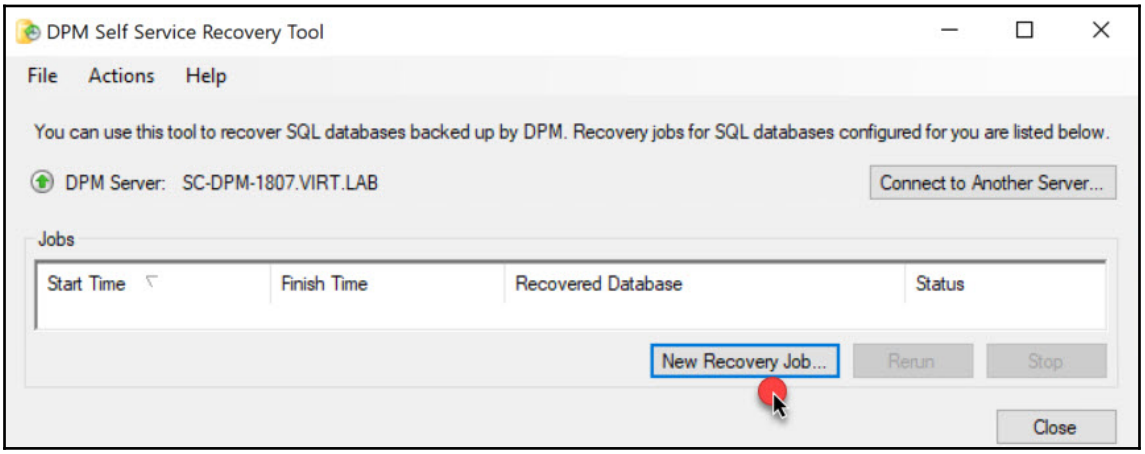

System Center
Data Protection Manager
Microsoft
Version 1801
Install
Data Protection Manager
DPM Central Console
DPM Protection Agent
DPM Remote Administration
DPM Self Service Recovery
DPM Remote SQL Prep
Before you begin
View Release Notes
Read Installation Guide
Run the Prerequisite Checker
Additional Resources
Review License Terms
Visit DPM Web Site
© Microsoft Corporation. All rights reserved.
Exit

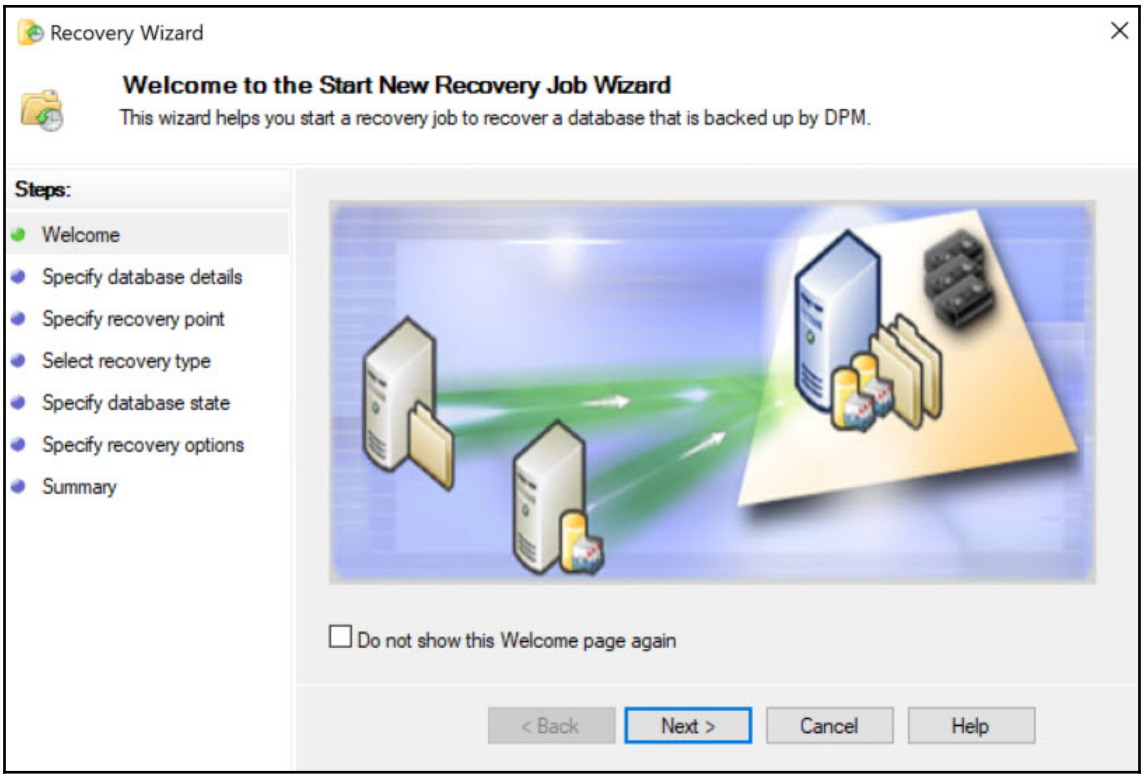

Microsoft Software License Terms
To install Data Protection Manager, you must accept the Microsoft Software License Terms. These license terms apply for DPM, and each of its prerequisite software products.
You may use any number of instances of this supplemental software ("Supplement") in physical or virtual operating system environments on any number of devices with Microsoft server software or online service ("Microsoft Product"). You may use this Supplement only with a Microsoft Product directly, or indirectly through other Microsoft software. Refer to your Microsoft Product's license terms to identify the entity licensing this Supplement to you and for support information. You may not use the Supplement if you do not have a license for the underlying Microsoft Product.
To print a copy of the license terms, select the text, copy it into a document, and then print it. To view the license terms after the installation is complete, open DPM Administrator Console and click About DPM.
Privacy Statement Link
Accept
Decline
Help

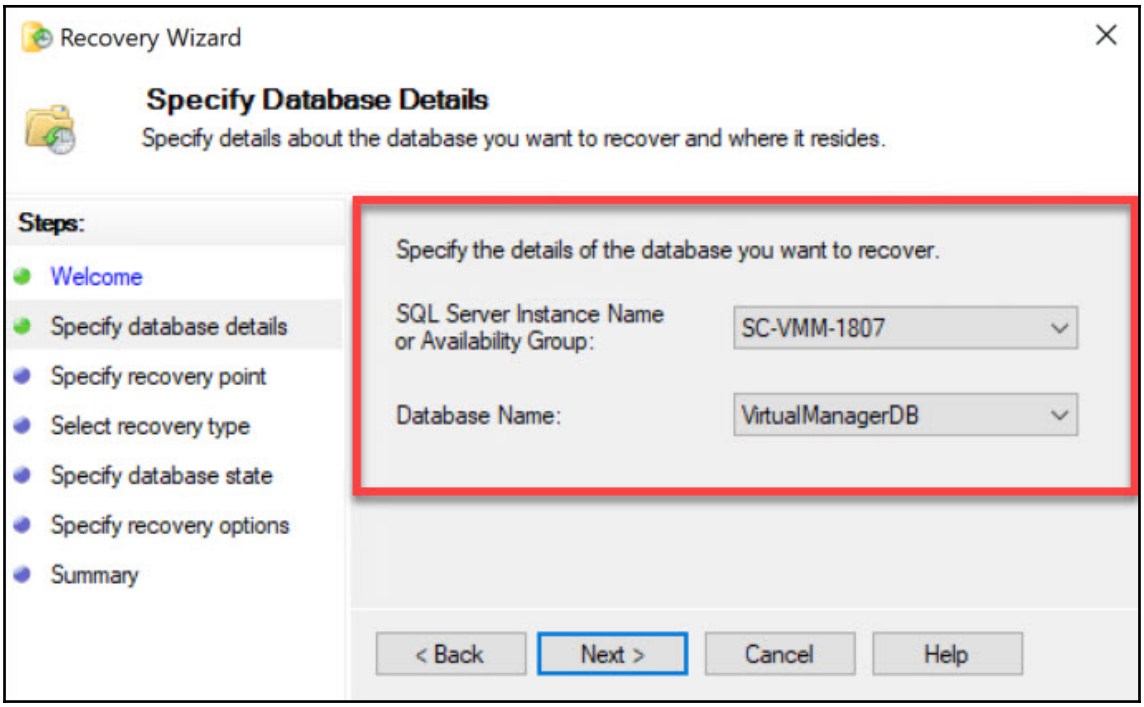

Microsoft System Center DPM Self Service Recovery Tool Setup
Microsoft System Center DPM Self Service Recovery Tool
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
< Back
Install
Cancel

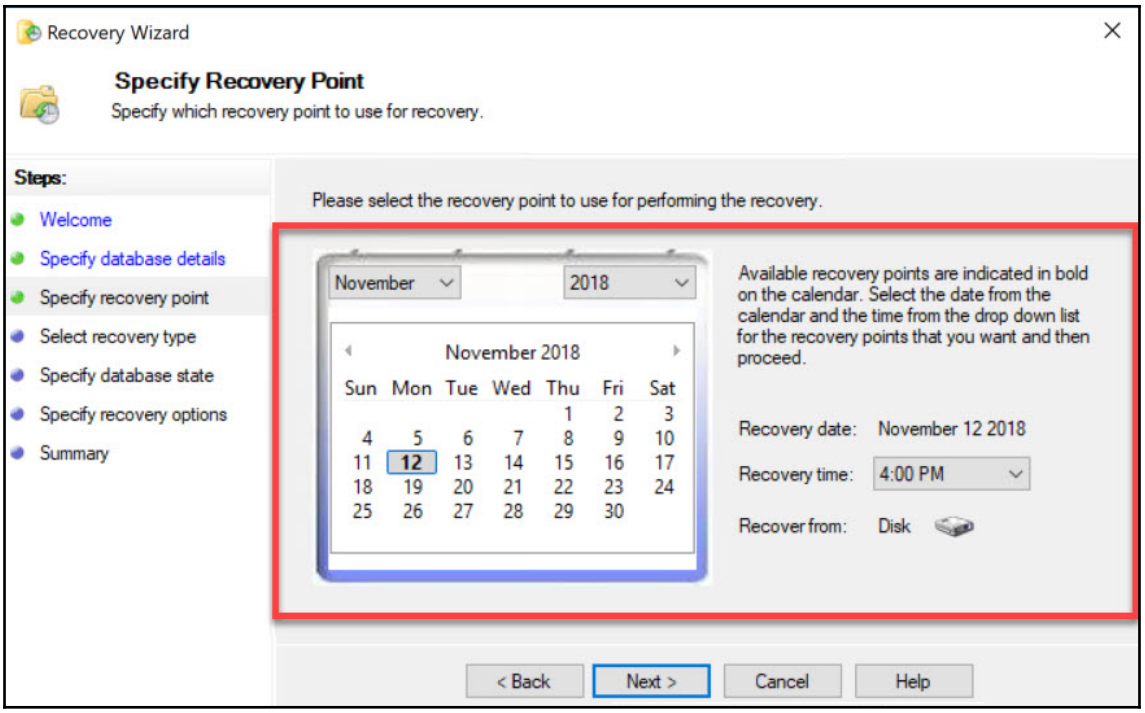

Microsoft System Center DPM Self Service Recovery Tool Setup
Microsoft System Center DPM Self Service Recovery Tool
You have successfully installed Microsoft System Center DPM Self Service Recovery Tool.
To close this wizard, click Finish.
< Back
Finish
Cancel

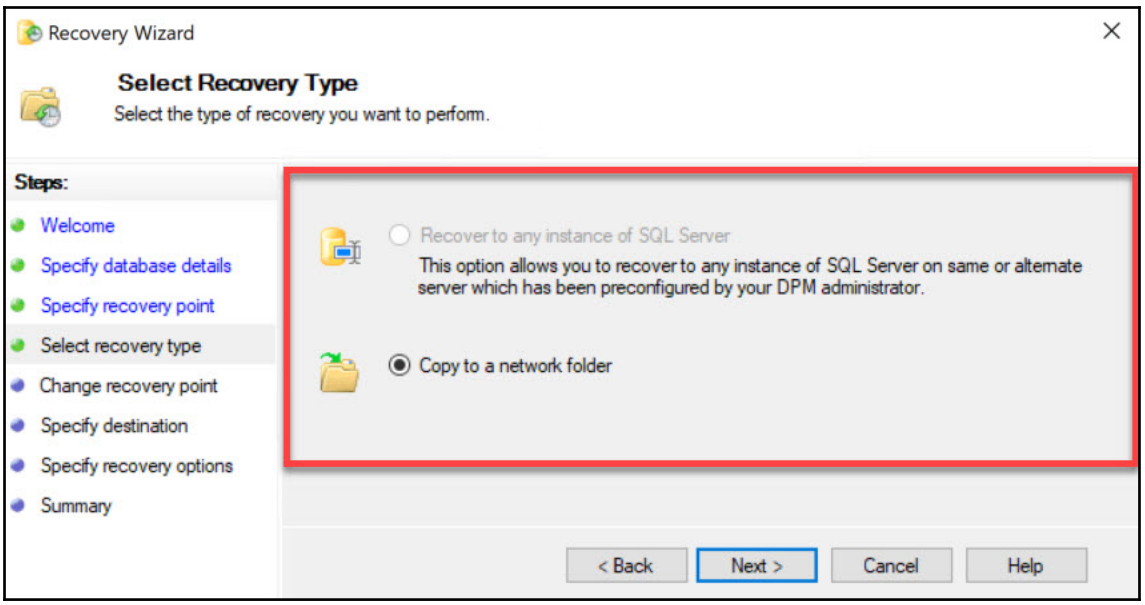

DPM Self Service Recovery Tool
File
Actions
Help
You can use this tool to recover SQL databases backed up by DPM. Recovery jobs for SQL databases configured for you are listed below.
DPM Server: Not connected
Connect to Server...
You must be connected to a DPM server to manage recovery jobs.
Jobs
Start Time
Finish Time
Recovered Database
Status
Connect to DPM Server
Specify the DPM server to which you want to connect. Ensure that you have permissions to access the DPM server. If you do not have the required permissions, contact your DPM administrator.
DPM Server Name:
SC-DPM-1807.VIRT.LAB
Example: MyDPMServer.contoso.com
Connect
Cancel
New Recovery Job...
Rerun
Stop
Close

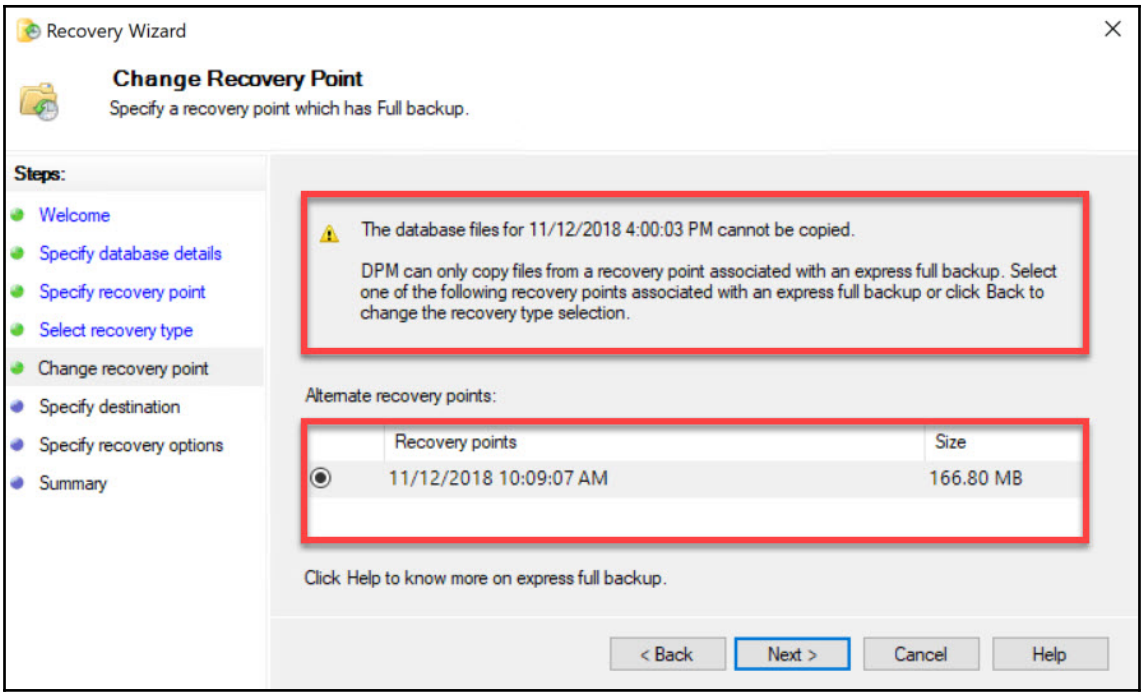

DPM Self Service Recovery Tool
File
Actions
Help
You can use this tool to recover SQL databases backed up by DPM. Recovery jobs for SQL databases configured for you are listed below.
DPM Server: SC-DPM-1807.VIRT.LAB
Connect to Another Server...
Jobs
Start Time
Finish Time
Recovered Database
Status
New Recovery Job...
Rerun
Stop
Close

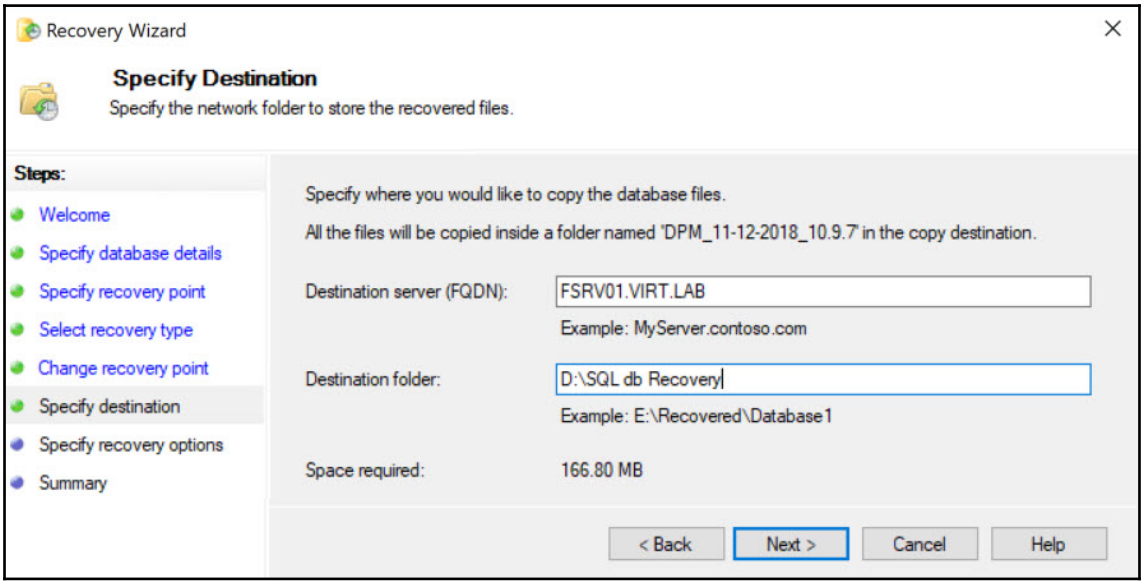

Recovery Wizard
Welcome to the Start New Recovery Job Wizard
This wizard helps you start a recovery job to recover a database that is backed up by DPM.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Specify database state
Specify recovery options
Summary
Do not show this Welcome page again
< Back
Next >
Cancel
Help

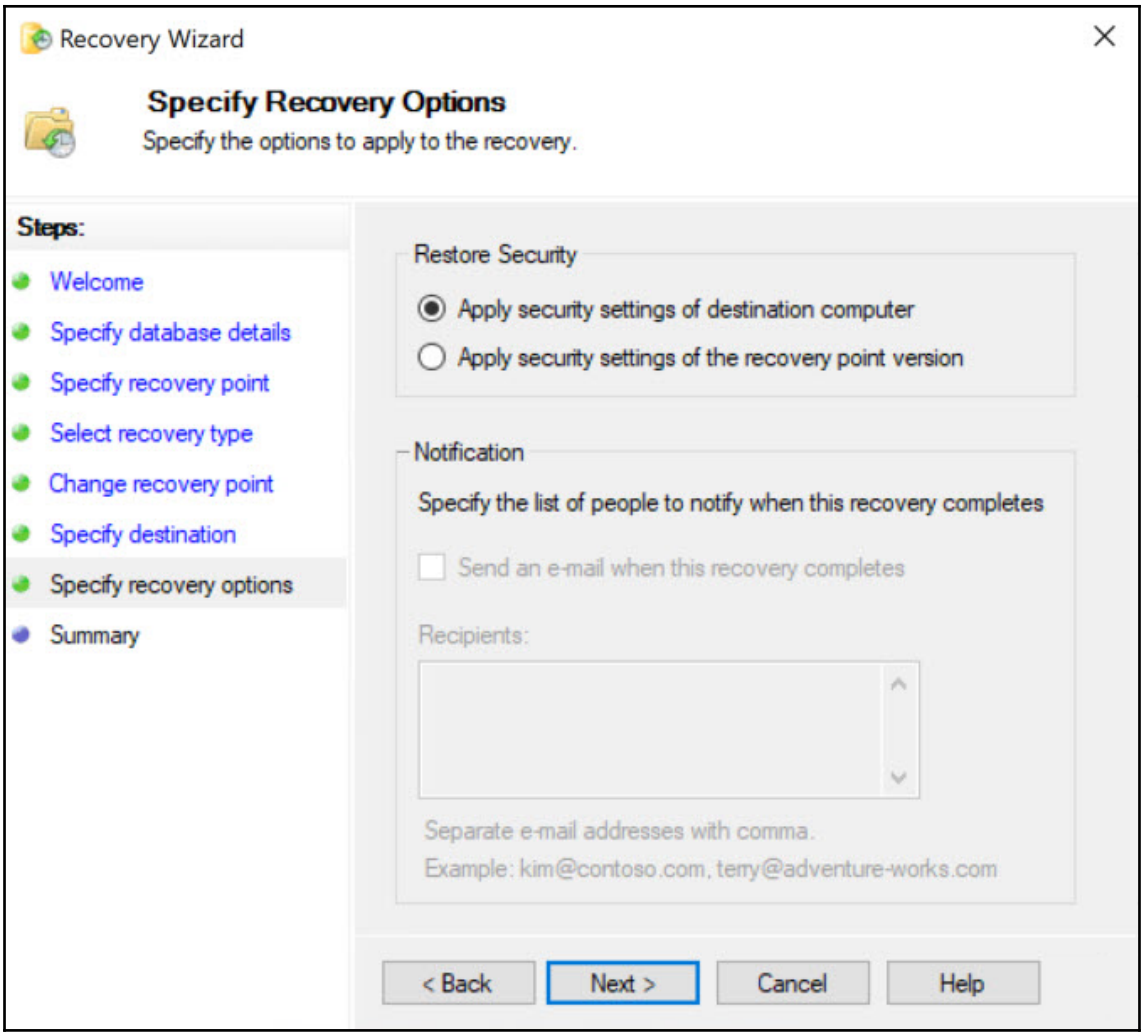

Recovery Wizard
Specify Database Details
Specify details about the database you want to recover and where it resides.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Specify database state
Specify recovery options
Summary
Specify the details of the database you want to recover.
SQL Server Instance Name or Availability Group:
SC-VMM-1807
Database Name:
VirtualManagerDB
< Back
Next >
Cancel
Help

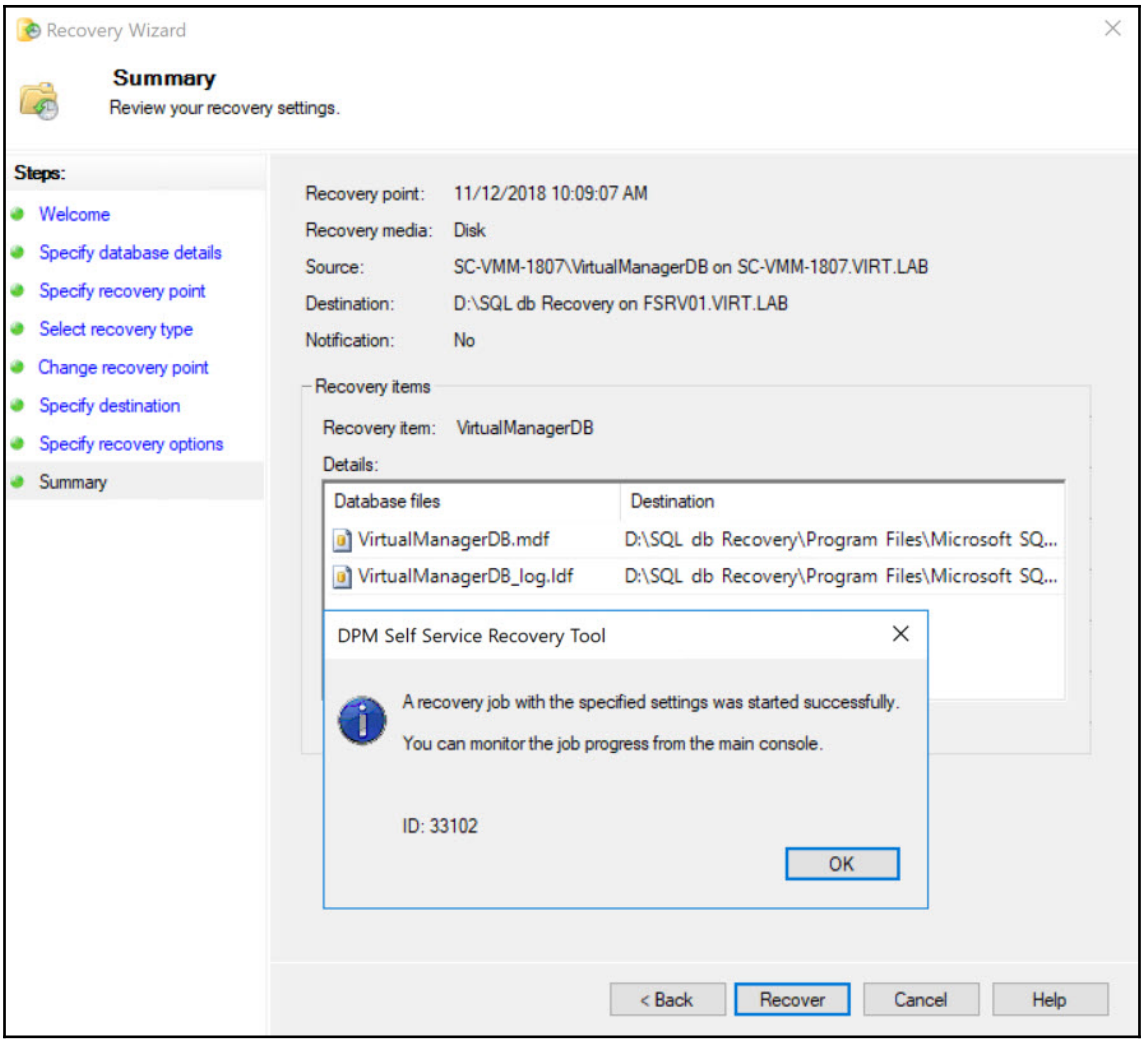

Recovery Wizard
Specify Recovery Point
Specify which recovery point to use for recovery.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Specify database state
Specify recovery options
Summary
Please select the recovery point to use for performing the recovery.
November
2018
November 2018
Sun Mon Tue Wed Thu Fri Sat
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
Available recovery points are indicated in bold on the calendar. Select the date from the calendar and the time from the drop down list for the recovery points that you want and then proceed.
Recovery date: November 12 2018
Recovery time: 4:00 PM
Recover from: Disk
< Back
Next >
Cancel
Help

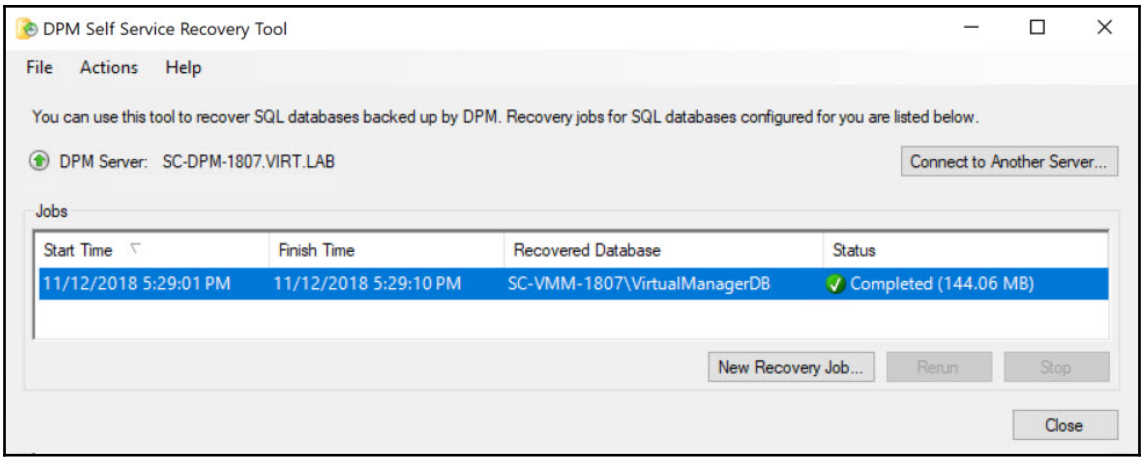

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Change recovery point
Specify destination
Specify recovery options
Summary
Recover to any instance of SQL Server
This option allows you to recover to any instance of SQL Server on same or alternate server which has been preconfigured by your DPM administrator.
Copy to a network folder
< Back
Next >
Cancel
Help

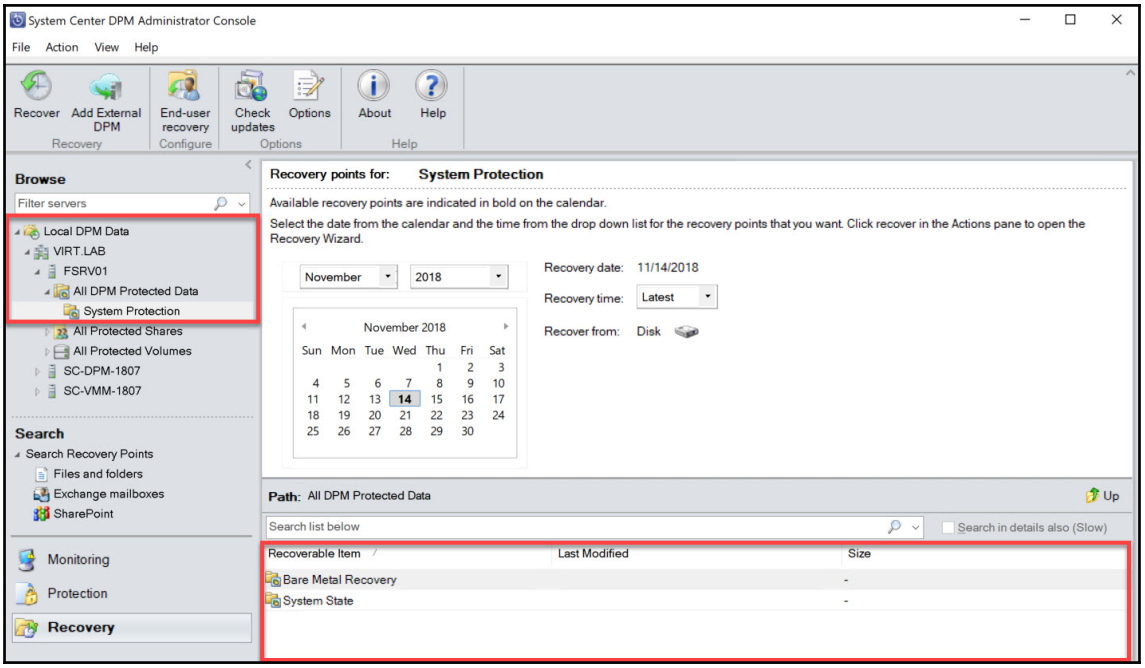

Recovery Wizard
Change Recovery Point
Specify a recovery point which has Full backup.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Change recovery point
Specify destination
Specify recovery options
Summary
The database files for 11/12/2018 4:00:03 PM cannot be copied.
DPM can only copy files from a recovery point associated with an express full backup. Select one of the following recovery points associated with an express full backup or click Back to change the recovery type selection.
Alternate recovery points:
Recovery points
Size
11/12/2018 10:09:07 AM
166.80 MB
Click Help to know more on express full backup.
< Back
Next >
Cancel
Help

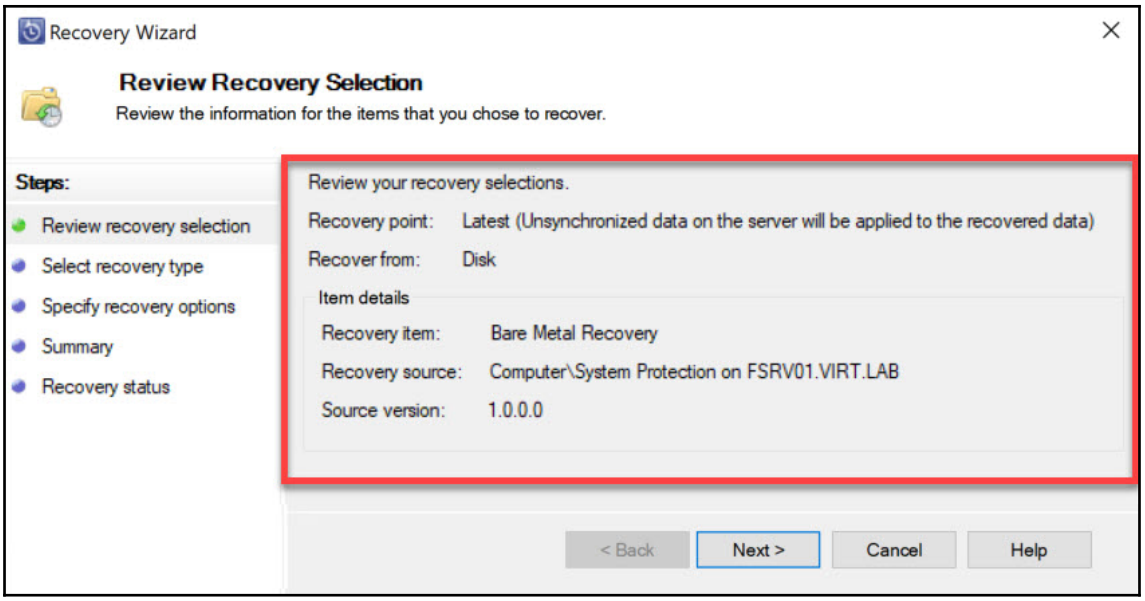

Recovery Wizard
Specify Destination
Specify the network folder to store the recovered files.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Change recovery point
Specify destination
Specify recovery options
Summary
Specify where you would like to copy the database files.
All the files will be copied inside a folder named 'DPM_11-12-2018_10.9.7' in the copy destination.
Destination server (FQDN):
FSRV01.VIRT.LAB
Example: MyServer.contoso.com
Destination folder:
D:\SQL db Recovery
Example: E:\Recovered\Database1
Space required:
166.80 MB
< Back
Next >
Cancel
Help

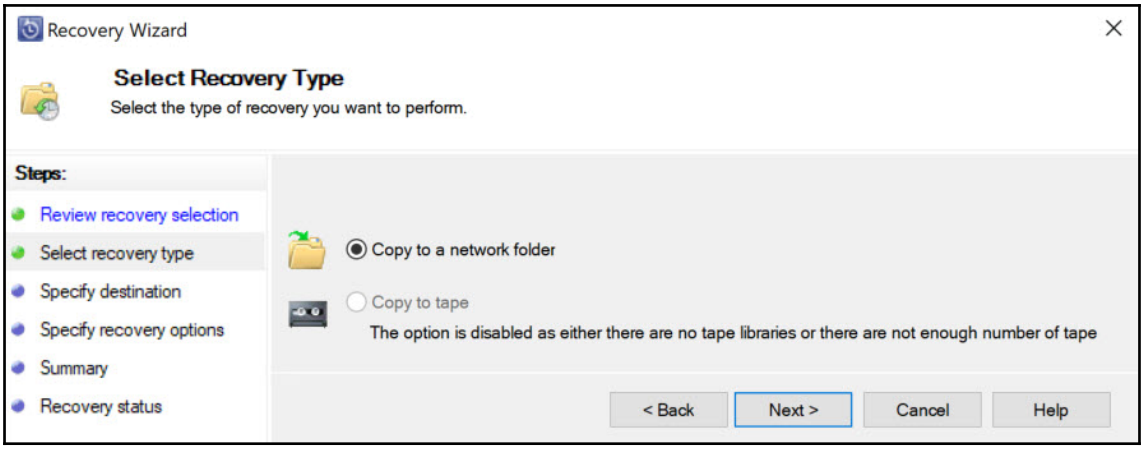

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Change recovery point
Specify destination
Specify recovery options
Summary
Restore Security
Apply security settings of destination computer
Apply security settings of the recovery point version
Notification
Specify the list of people to notify when this recovery completes
Send an e-mail when this recovery completes
Recipients:
Separate e-mail addresses with comma.
Example: kim@contoso.com, terry@adventure-works.com
< Back
Next >
Cancel
Help

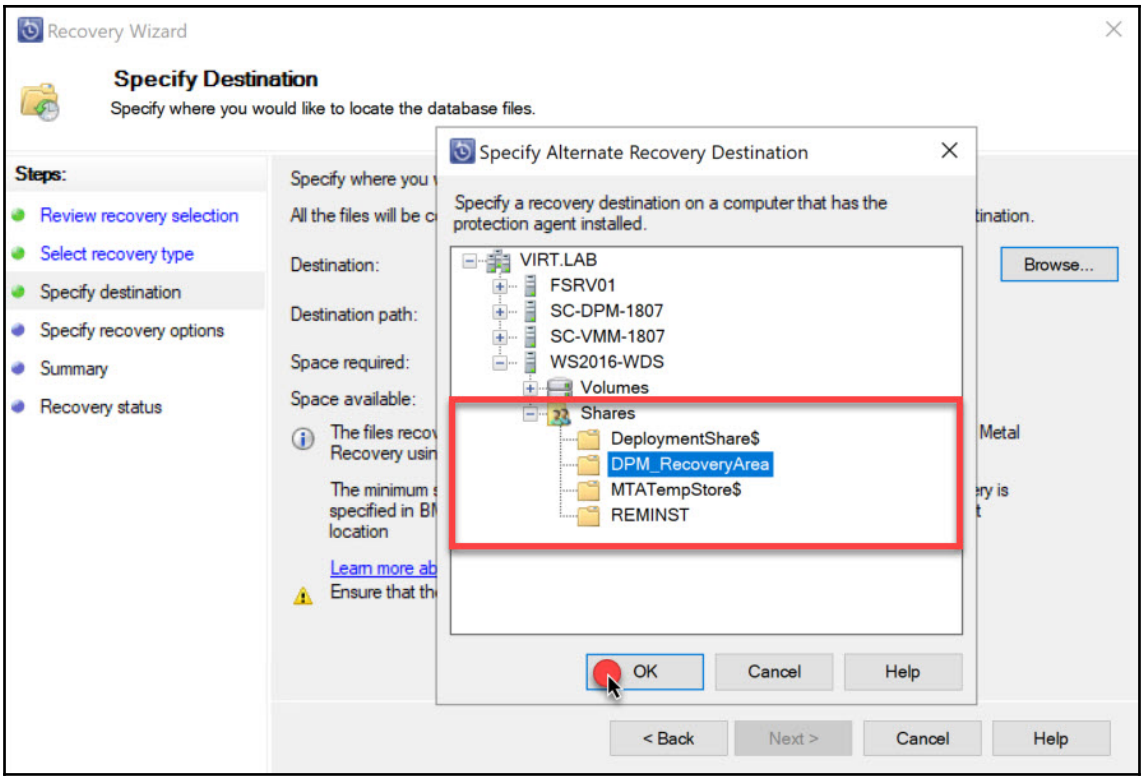

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Welcome
Specify database details
Specify recovery point
Select recovery type
Change recovery point
Specify destination
Specify recovery options
Summary
Recovery point: 11/12/2018 10:09:07 AM
Recovery media: Disk
Source: SC-VMM-1807\VirtualManagerDB on SC-VMM-1807.VIRT.LAB
Destination: D:\SQL db Recovery on FSRV01.VIRT.LAB
Notification: No
Recovery items
Recovery item: VirtualManagerDB
Details:
Database files
Destination
VirtualManagerDB.mdf
D:\SQL db Recovery\Program Files\Microsoft SQ...
VirtualManagerDB_log.ldf
D:\SQL db Recovery\Program Files\Microsoft SQ...
DPM Self Service Recovery Tool
A recovery job with the specified settings was started successfully.
You can monitor the job progress from the main console.
ID: 33102
OK
< Back
Recover
Cancel
Help

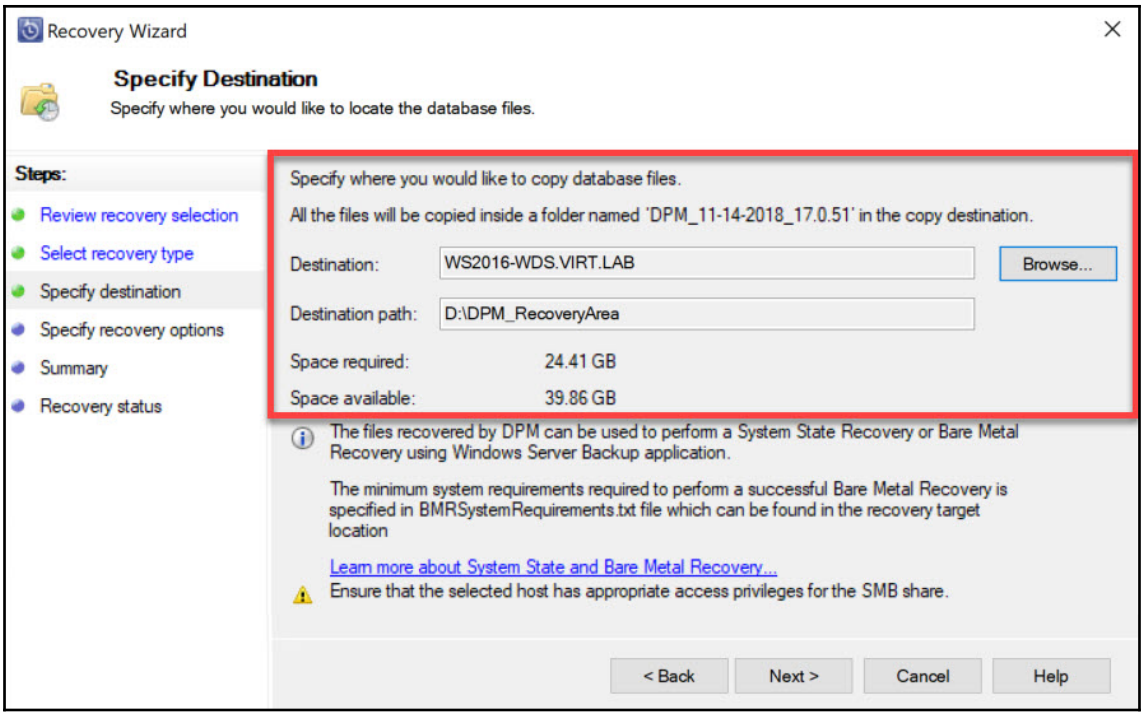

DPM Self Service Recovery Tool
File
Actions
Help
You can use this tool to recover SQL databases backed up by DPM. Recovery jobs for SQL databases configured for you are listed below.
DPM Server: SC-DPM-1807.VIRT.LAB
Connect to Another Server...
Jobs
Start Time
Finish Time
Recovered Database
Status
11/12/2018 5:29:01 PM
11/12/2018 5:29:10 PM
SC-VMM-1807\VirtualManagerDB
Completed (144.06 MB)
New Recovery Job...
Rerun
Stop
Close

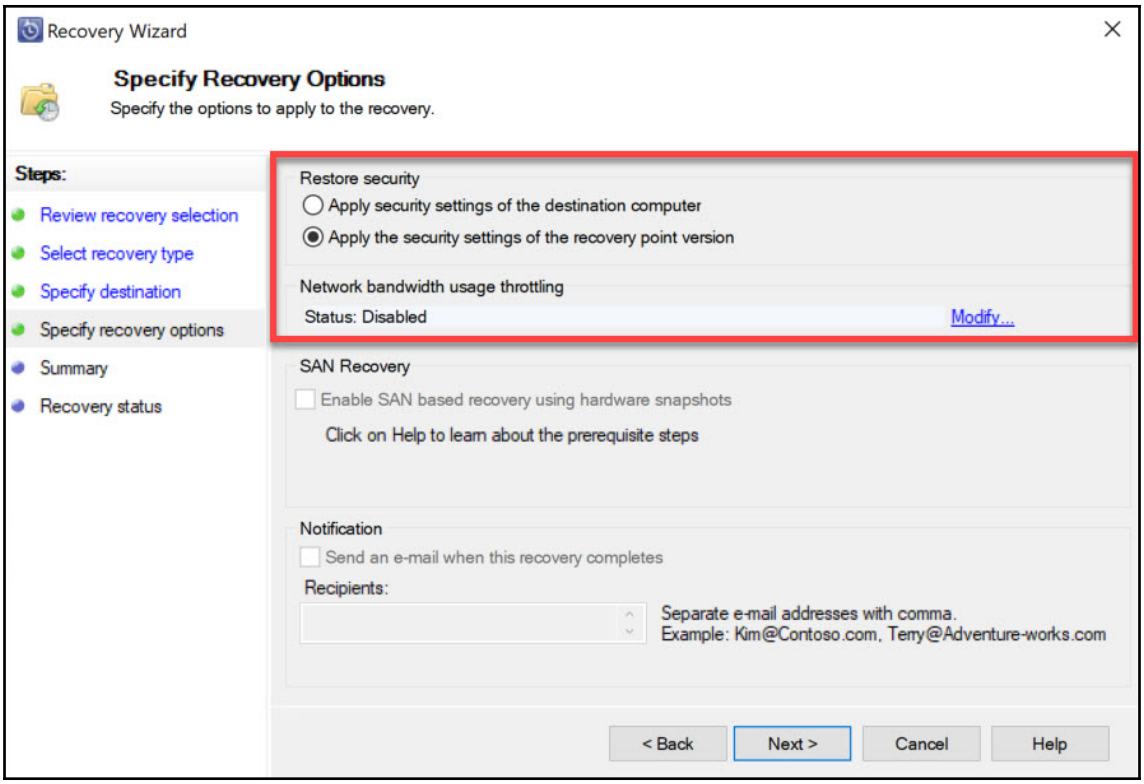

System Center DPM Administrator Console
File
Action
View
Help
Recover
Add External DPM
End-user recovery
Check updates
Options
About
Help
Recovery
Configure
Options
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
FSRV01
All DPM Protected Data
System Protection
All Protected Shares
All Protected Volumes
SC-DPM-1807
SC-VMM-1807
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Recovery points for: System Protection
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
November
2018
November 2018
Sun Mon Tue Wed Thu Fri Sat
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
Recovery date: 11/14/2018
Recovery time: Latest
Recover from: Disk
Path: All DPM Protected Data
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
Bare Metal Recovery
System State

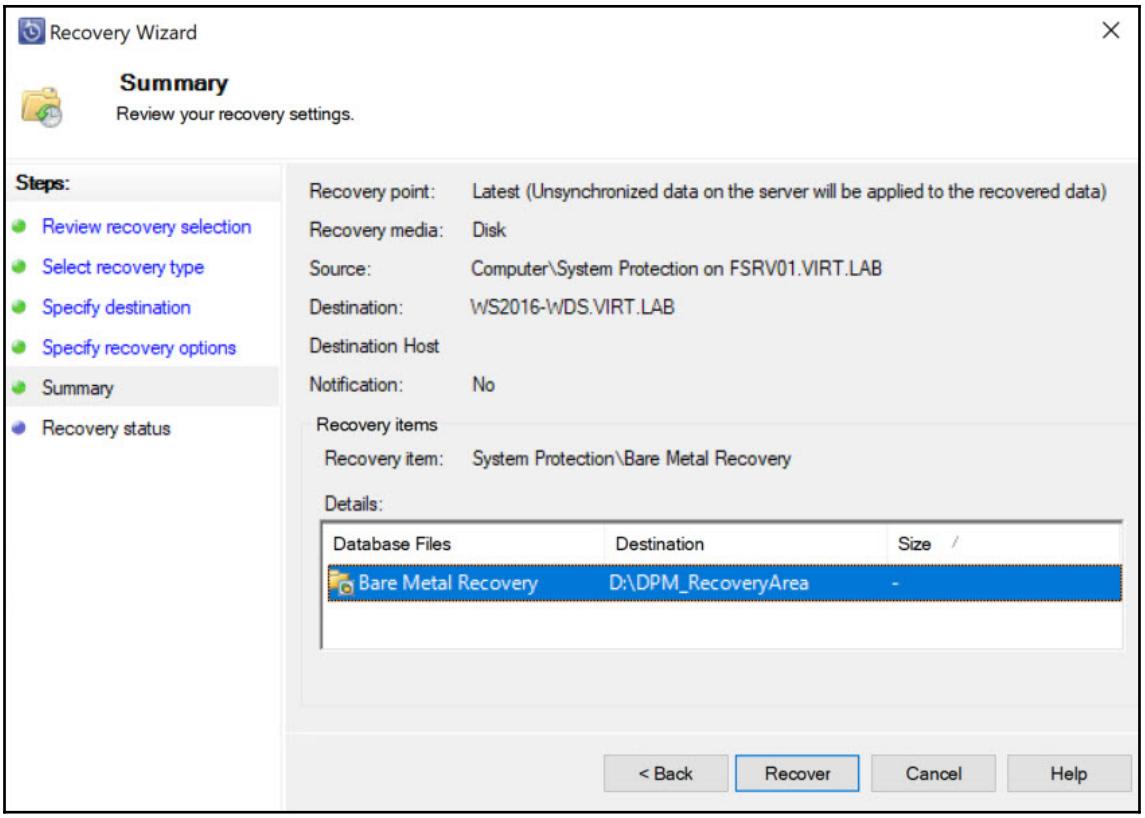

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: Latest (Unsynchronized data on the server will be applied to the recovered data)
Recover from: Disk
Item details
Recovery item: Bare Metal Recovery
Recovery source: Computer\System Protection on FSRV01.VIRT.LAB
Source version: 1.0.0.0
< Back
Next >
Cancel
Help

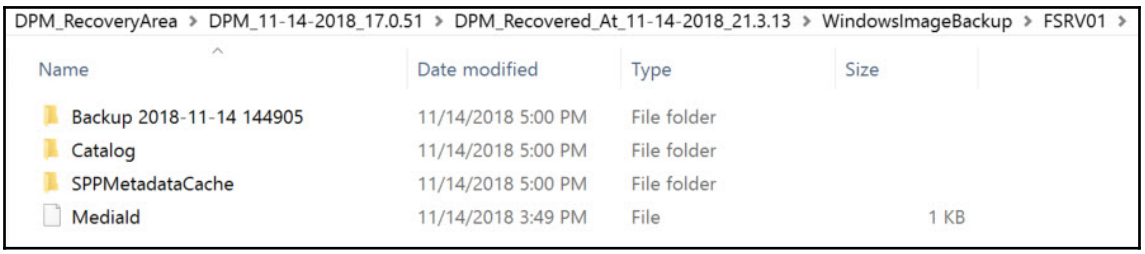

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Copy to a network folder
Copy to tape
The option is disabled as either there are no tape libraries or there are not enough number of tape
< Back
Next >
Cancel
Help

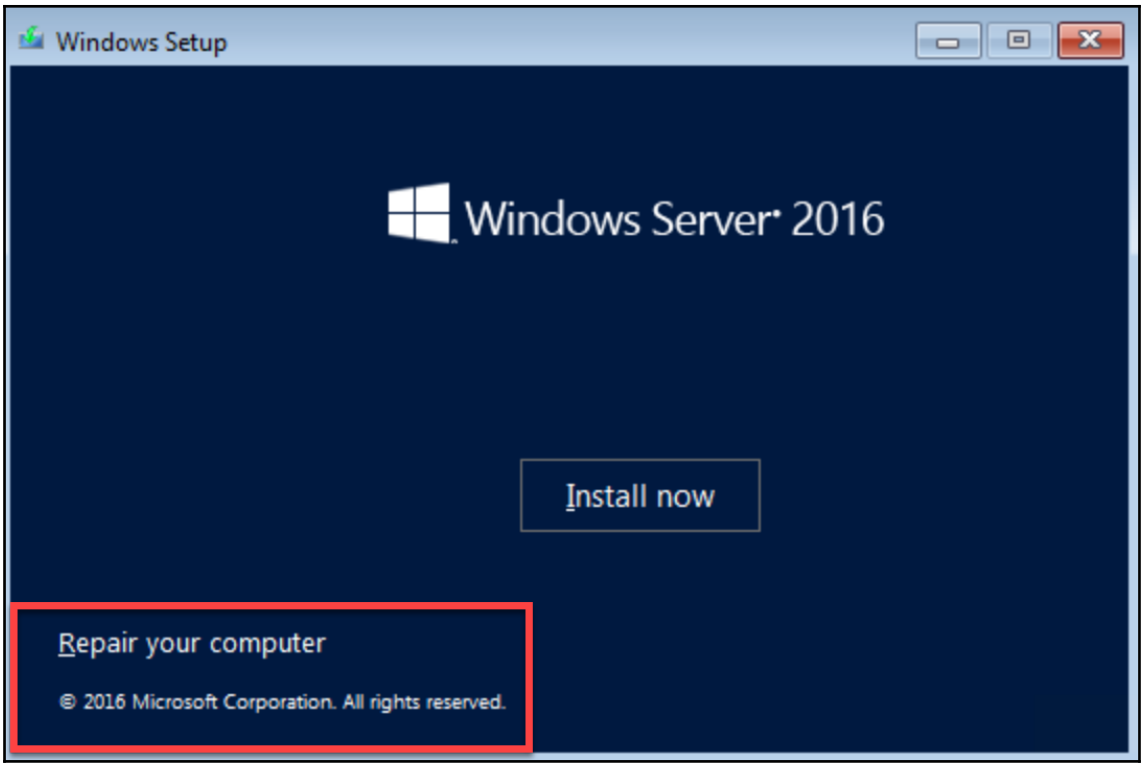

Recovery Wizard
Specify Destination
Specify where you would like to locate the database files.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Destination:
Destination path:
Space required:
Space available:
Browse...
Specify Alternate Recovery Destination
Specify a recovery destination on a computer that has the protection agent installed.
VIRT.LAB
FSRV01
SC-DPM-1807
SC-VMM-1807
WS2016-WDS
Volumes
Shares
DeploymentShare$
DPM_RecoveryArea
MTATempStore$
REMINST
OK
Cancel
Help
< Back
Next >
Cancel
Help

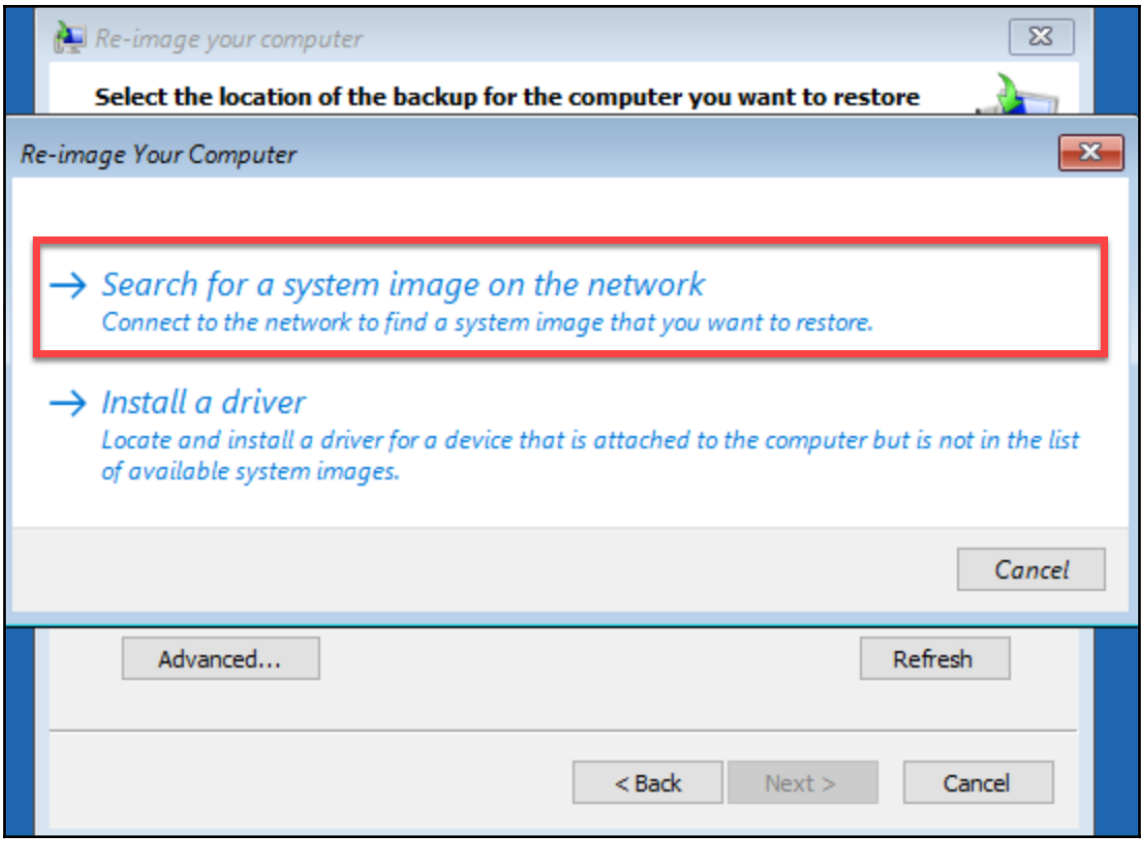

Recovery Wizard
Specify Destination
Specify where you would like to locate the database files.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Specify where you would like to copy database files.
All the files will be copied inside a folder named 'DPM_11-14-2018_17.0.51' in the copy destination.
Destination:
WS2016-WDS.VIRT.LAB
Browse...
Destination path:
D:\DPM_RecoveryArea
Space required:
24.41 GB
Space available:
39.86 GB
The files recovered by DPM can be used to perform a System State Recovery or Bare Metal Recovery using Windows Server Backup application.
The minimum system requirements required to perform a successful Bare Metal Recovery is specified in BMRSystemRequirements.txt file which can be found in the recovery target location
Learn more about System State and Bare Metal Recovery...
Ensure that the selected host has appropriate access privileges for the SMB share.
< Back
Next >
Cancel
Help

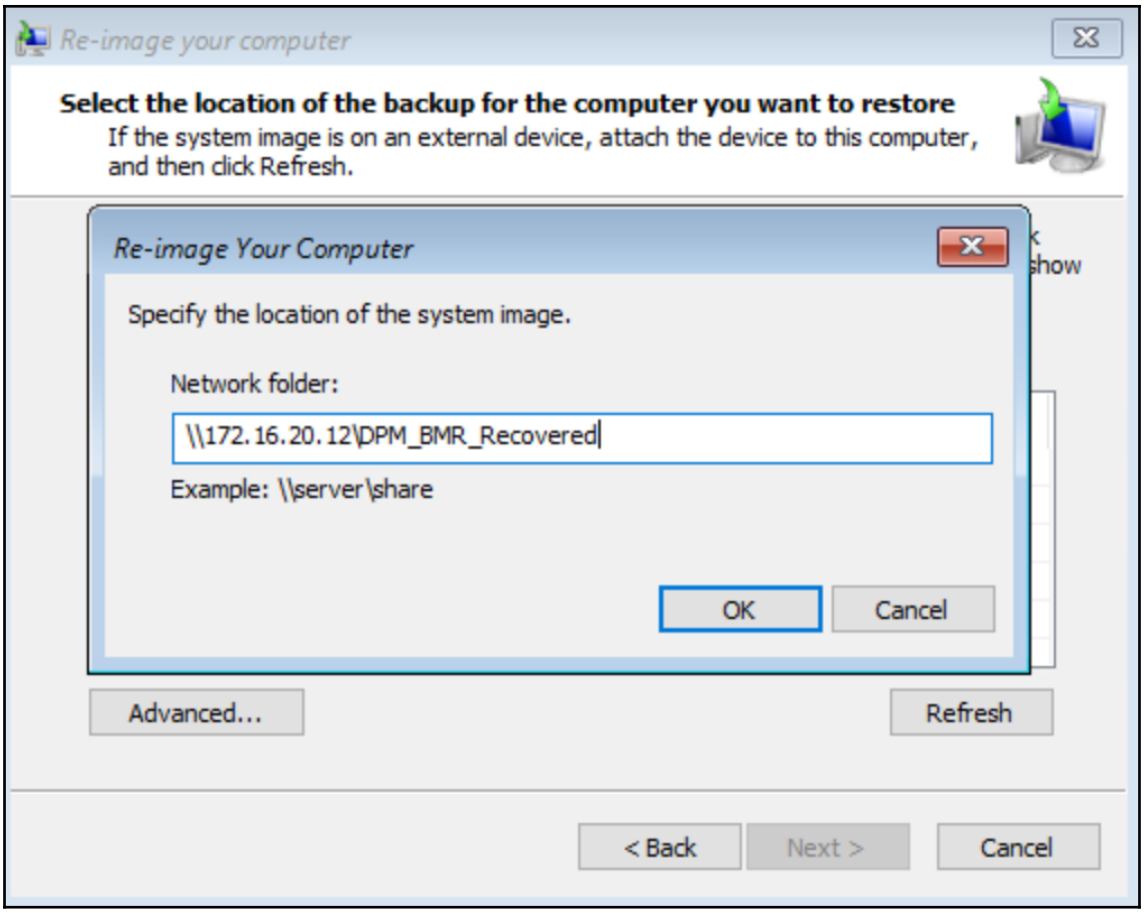

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Restore security
Apply security settings of the destination computer
Apply the security settings of the recovery point version
Network bandwidth usage throttling
Status: Disabled
Modify...
SAN Recovery
Enable SAN based recovery using hardware snapshots
Click on Help to learn about the prerequisite steps
Notification
Send an e-mail when this recovery completes
Recipients:
Separate e-mail addresses with comma.
Example: Kim@Contoso.com, Terry@Adventure-works.com
< Back
Next >
Cancel
Help

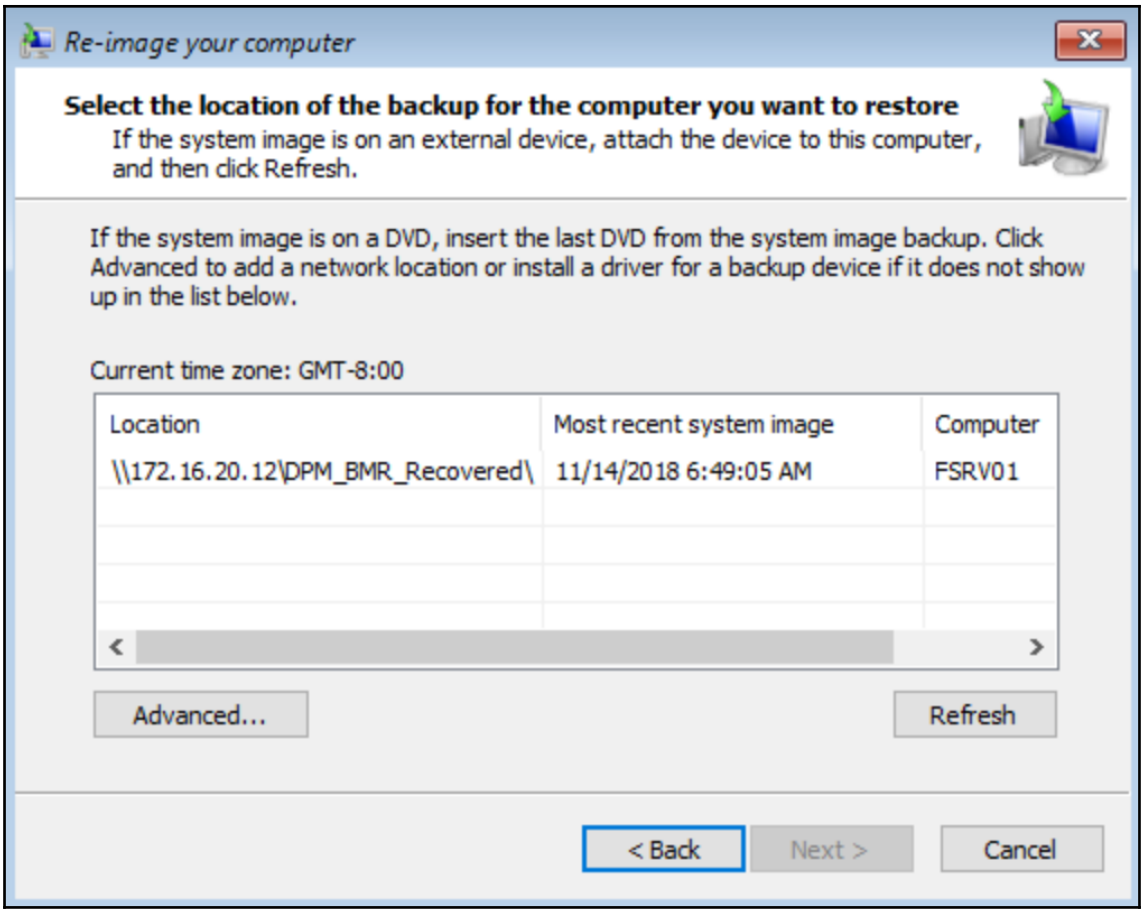

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recovery point: Latest (Unsynchronized data on the server will be applied to the recovered data)
Recovery media: Disk
Source: Computer\System Protection on FSRV01.VIRT.LAB
Destination: WS2016-WDS.VIRT.LAB
Destination Host
Notification: No
Recovery items
Recovery item: System Protection\Bare Metal Recovery
Details:
Database Files
Destination
Size
Bare Metal Recovery
D:\DPM_RecoveryArea
-
< Back
Recover
Cancel
Help

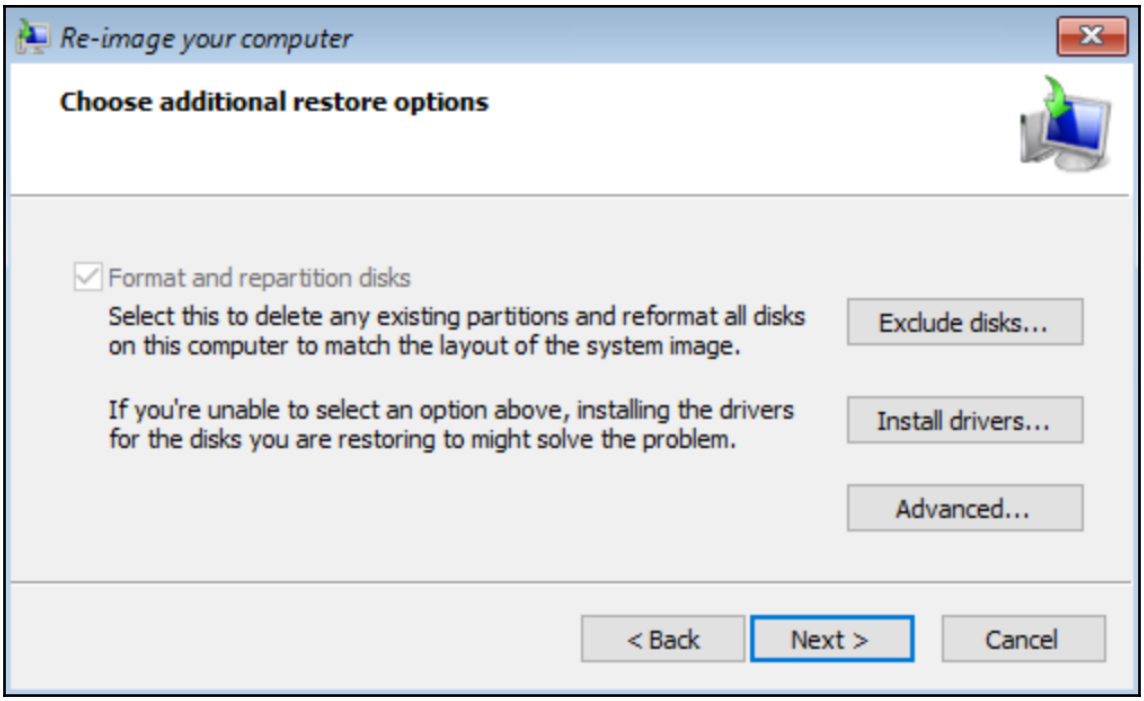

DPM_RecoveryArea > DPM_11-14-2018_17.0.51 > DPM_Recovered_At_11-14-2018_21.3.13 > WindowsImageBackup > FSRV01 >
Name
Date modified
Type
Size
Backup 2018-11-14 144905
11/14/2018 5:00 PM
File folder
Catalog
11/14/2018 5:00 PM
File folder
SPPMetadataCache
11/14/2018 5:00 PM
File folder
MediaId
11/14/2018 3:49 PM
File
1 KB

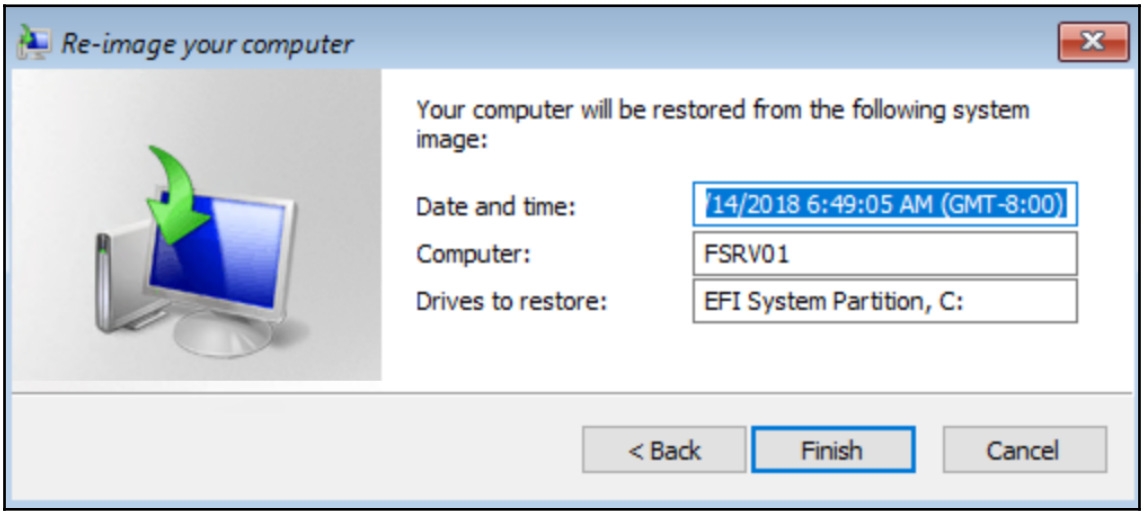

Windows Setup
Windows Server 2016
Install now
Repair your computer
© 2016 Microsoft Corporation. All rights reserved.

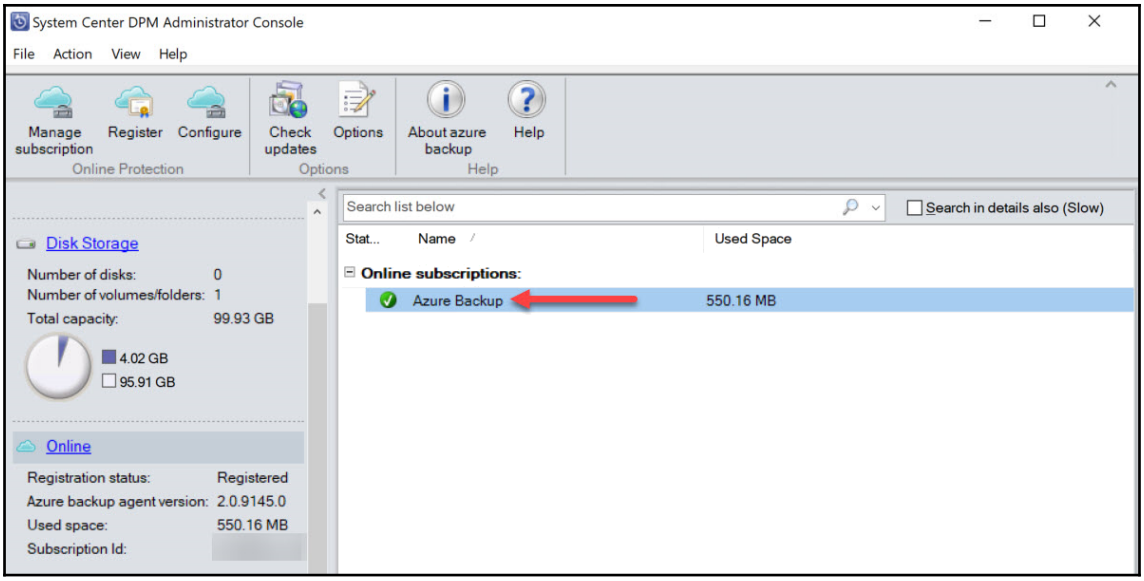

Re-image your computer
Select the location of the backup for the computer you want to restore
Re-image Your Computer
Search for a system image on the network
Connect to the network to find a system image that you want to restore.
Install a driver
Locate and install a driver for a device that is attached to the computer but is not in the list of available system images.
Cancel
Advanced...
Refresh
< Back
Next >
Cancel

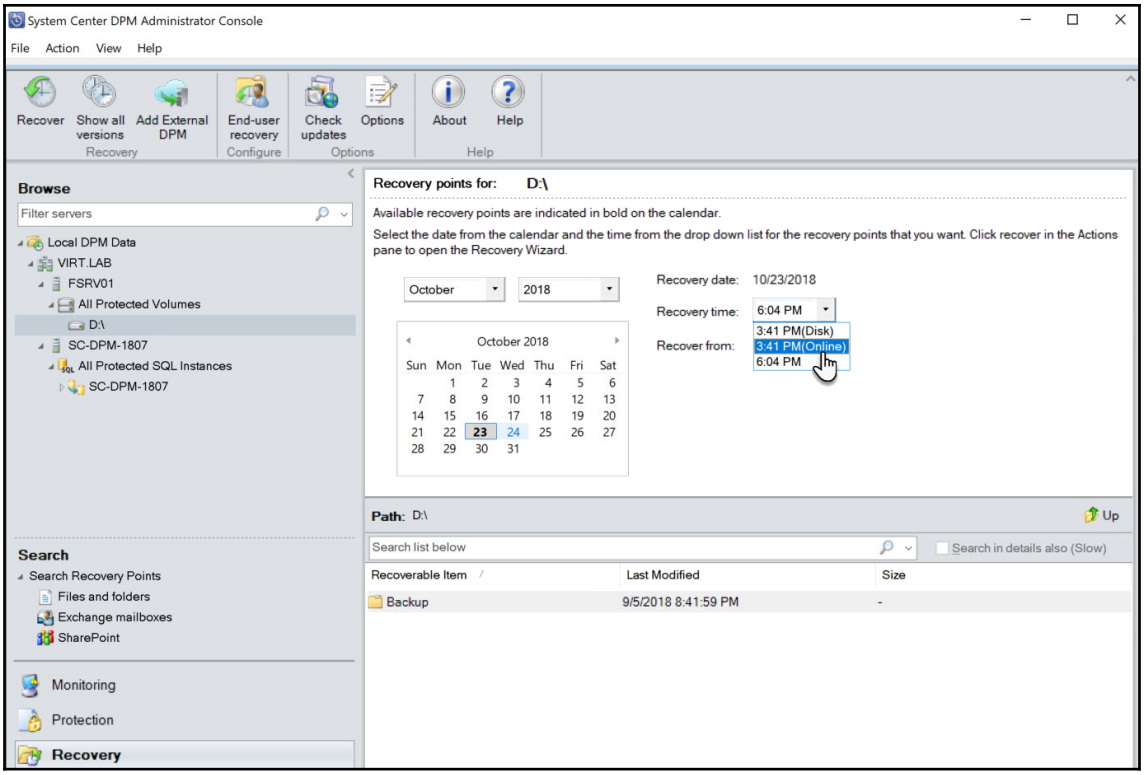

Re-image your computer
Select the location of the backup for the computer you want to restore
If the system image is on an external device, attach the device to this computer, and then click Refresh.
Re-image Your Computer
Specify the location of the system image.
Network folder:
\\172.16.20.12\DPM_BMR_Recovered
Example: \\server\share
OK
Cancel
Advanced...
Refresh
< Back
Next >
Cancel

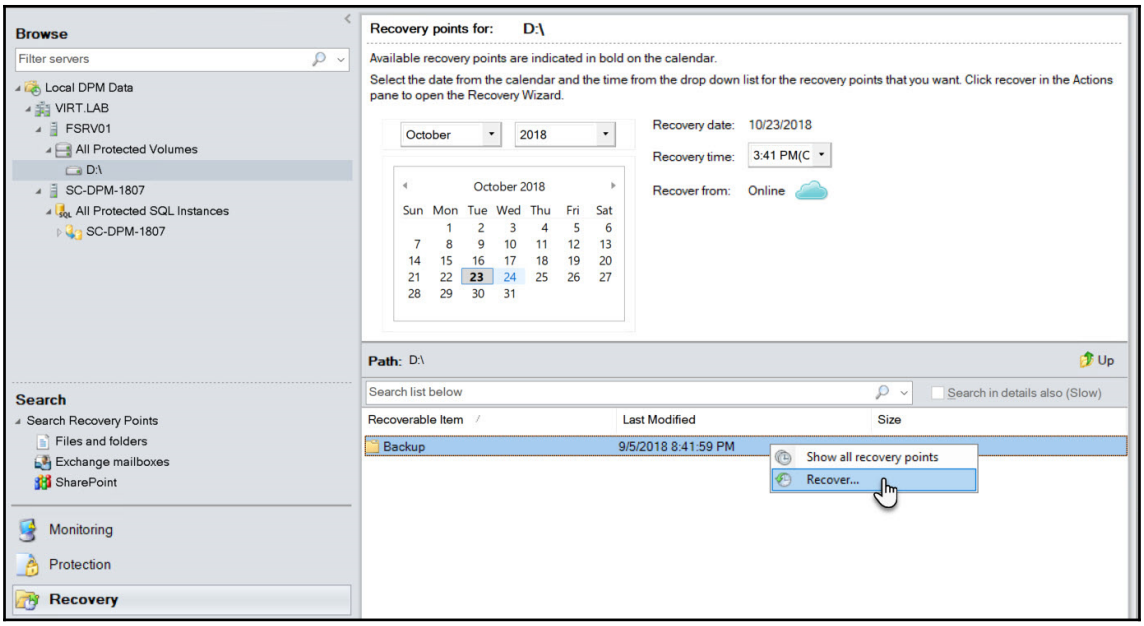

Re-image your computer
Select the location of the backup for the computer you want to restore
If the system image is on an external device, attach the device to this computer, and then click Refresh.
If the system image is on a DVD, insert the last DVD from the system image backup. Click Advanced to add a network location or install a driver for a backup device if it does not show up in the list below.
Current time zone: GMT-8:00
Location
Most recent system image
Computer
\\172.16.20.12\DPM_BMR_Recovered\
11/14/2018 6:49:05 AM
FSRV01
Advanced...
Refresh
< Back
Next >
Cancel

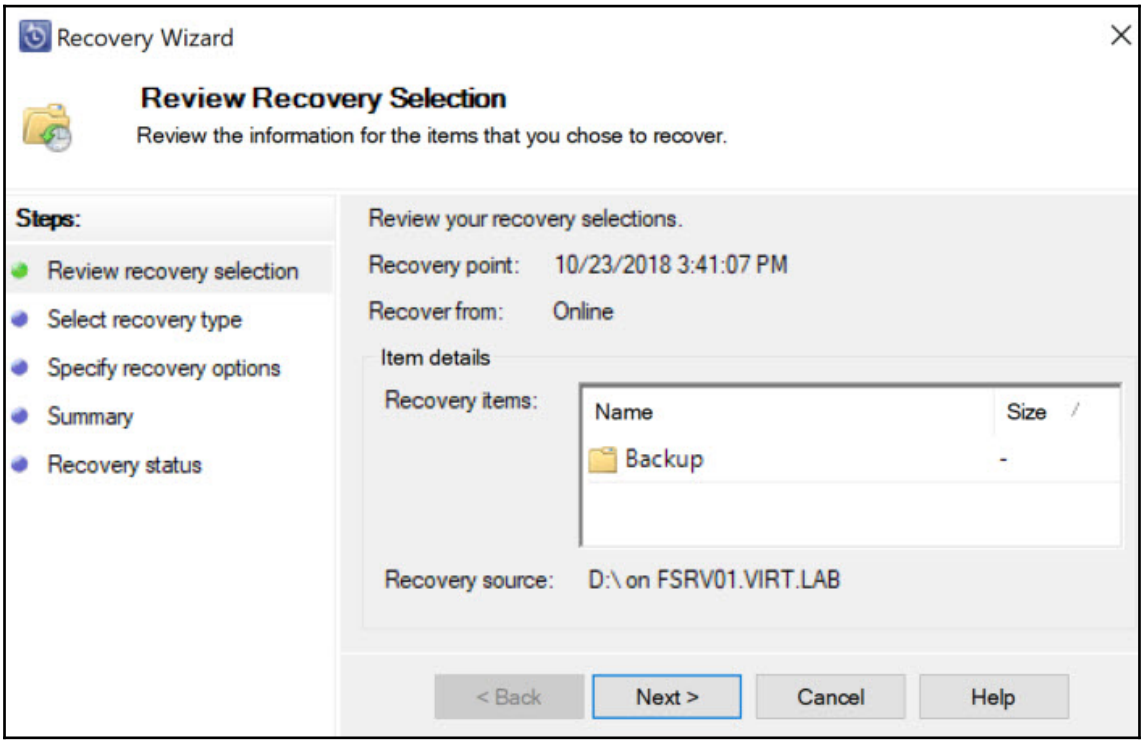

Re-image your computer
Choose additional restore options
Format and repartition disks
Select this to delete any existing partitions and reformat all disks on this computer to match the layout of the system image.
Exclude disks...
If you're unable to select an option above, installing the drivers for the disks you are restoring to might solve the problem.
Install drivers...
Advanced...
< Back
Next >
Cancel

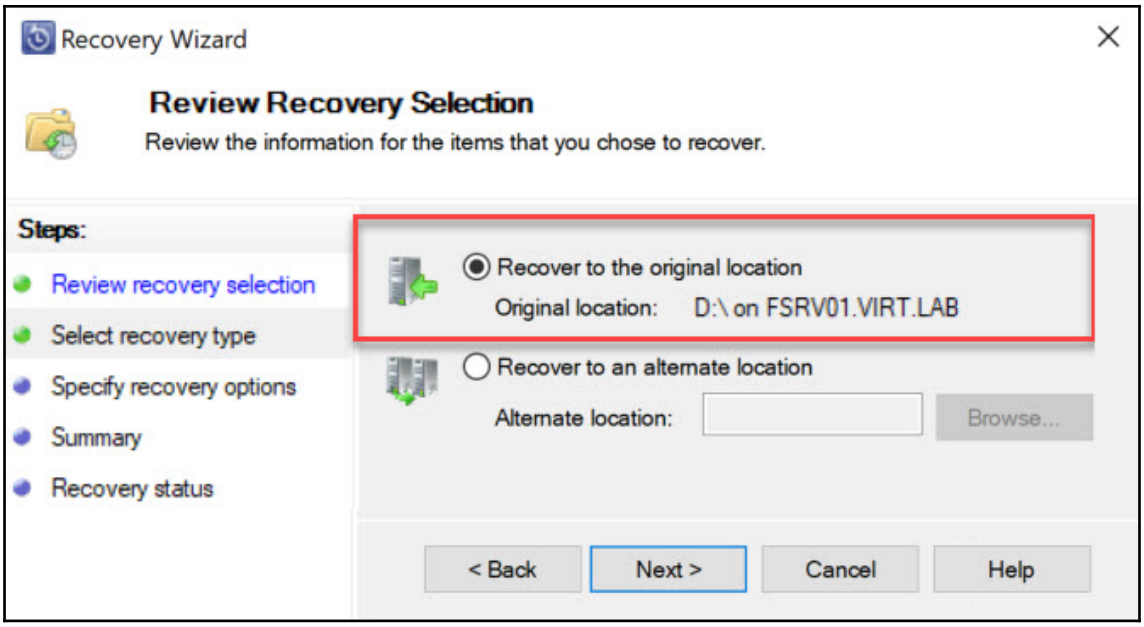

Re-image your computer
Your computer will be restored from the following system image:
Date and time:
14/2018 6:49:05 AM (GMT-8:00)
Computer:
FSRV01
Drives to restore:
EFI System Partition, C:
< Back
Finish
Cancel

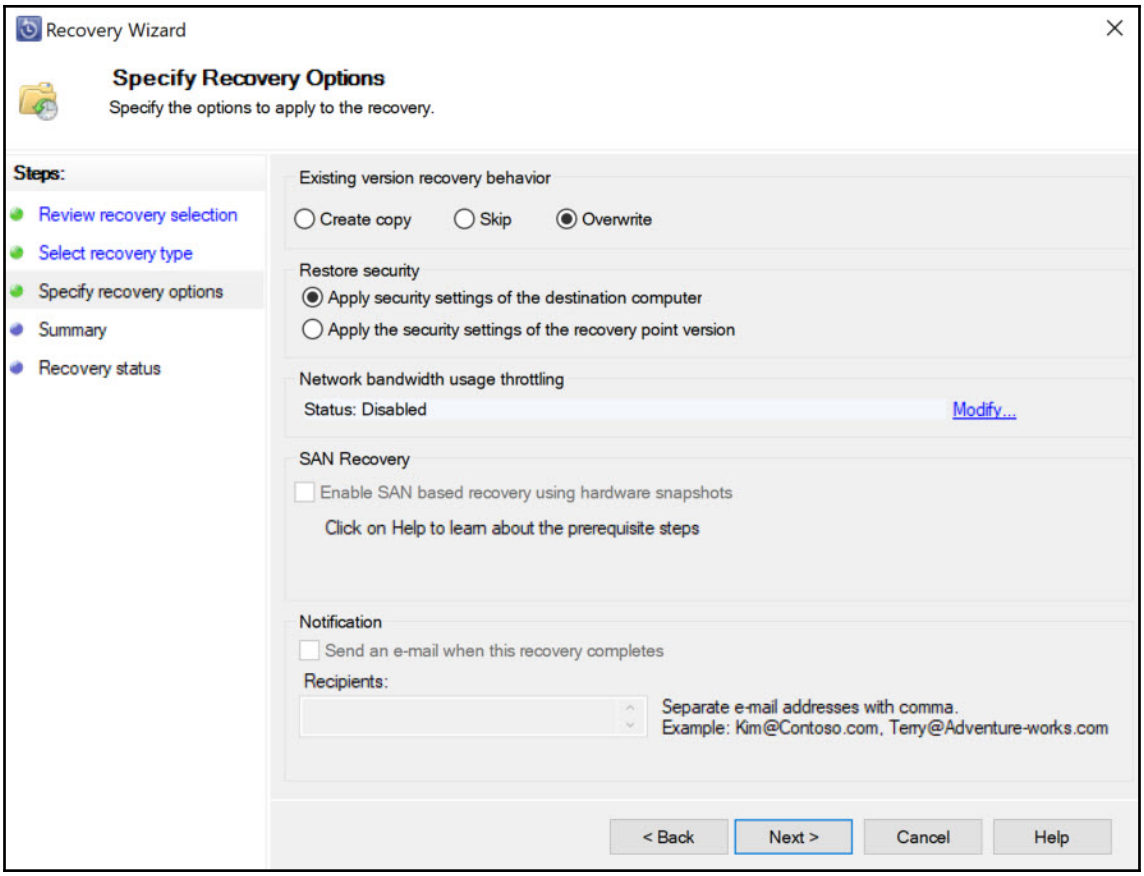

System Center DPM Administrator Console
File Action View Help
Manage subscription
Register
Configure
Online Protection
Check updates
Options
Options
About azure backup
Help
Help
Search list below
Search in details also (Slow)
Disk Storage
Number of disks: 0
Number of volumes/folders: 1
Total capacity: 99.93 GB
4.02 GB
95.91 GB
Online
Registration status: Registered
Azure backup agent version: 2.0.9145.0
Used space: 550.16 MB
Subscription Id:
Stat...
Name
Used Space
Online subscriptions:
Azure Backup
550.16 MB

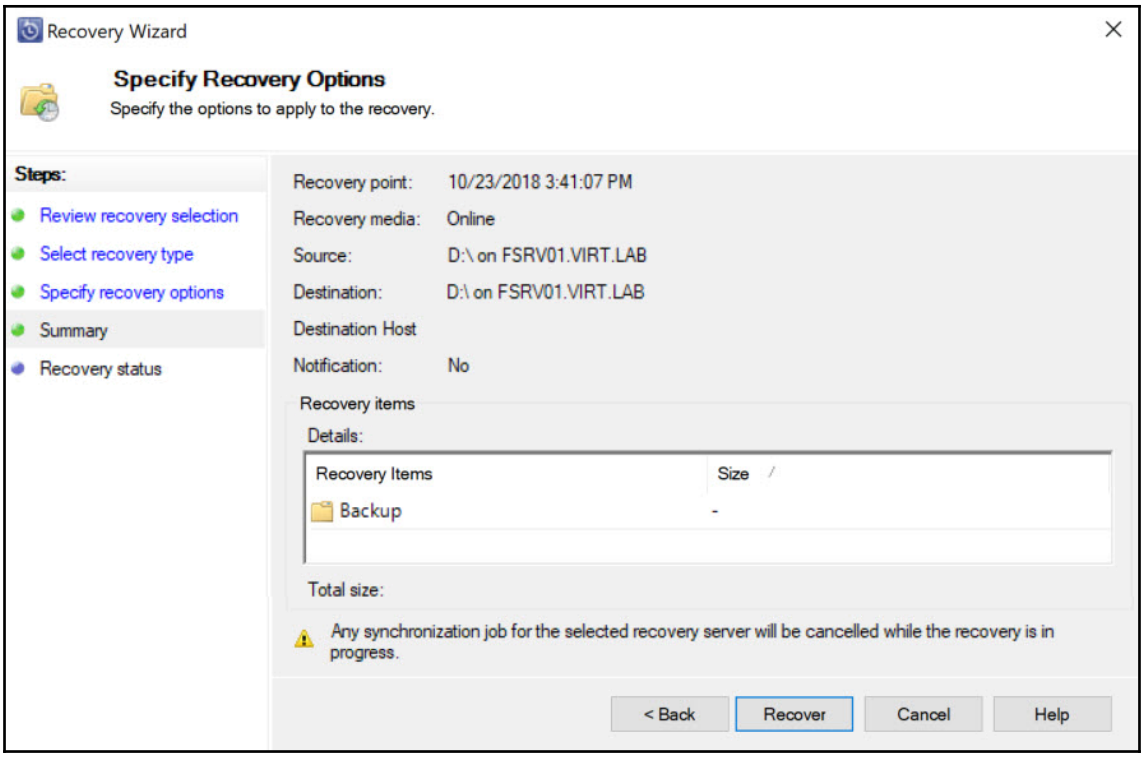

System Center DPM Administrator Console
File Action View Help
Recover
Show all versions
Add External DPM
Recovery
End-user recovery
Configure
Check updates
Options
Options
About
Help
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
FSRV01
All Protected Volumes
D:\
SC-DPM-1807
All Protected SQL Instances
SC-DPM-1807
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Recovery points for: D:\
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
October
2018
October 2018
Sun Mon Tue Wed Thu Fri Sat
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
Recovery date: 10/23/2018
Recovery time: 6:04 PM
Recover from:
3:41 PM(Disk)
3:41 PM(Online)
6:04 PM
Path: D:\
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
Backup
9/5/2018 8:41:59 PM
-

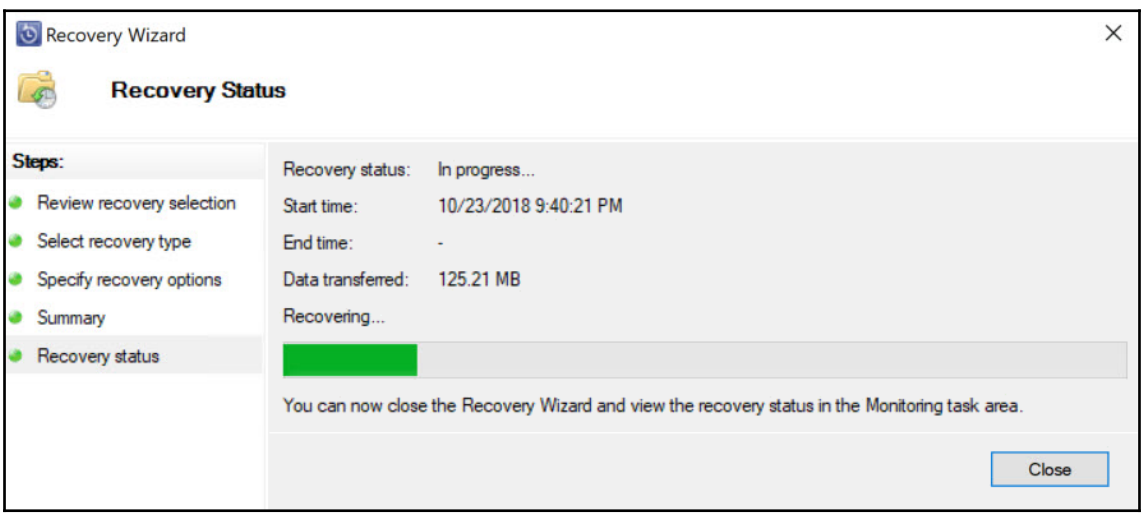

Browse
Filter servers
Local DPM Data
VIRT.LAB
FSRV01
All Protected Volumes
D:\
SC-DPM-1807
All Protected SQL Instances
SC-DPM-1807
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Recovery points for: D:\
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
October
2018
October 2018
Sun Mon Tue Wed Thu Fri Sat
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
Recovery date: 10/23/2018
Recovery time: 3:41 PM(C
Recover from: Online
Path: D:\
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
Backup
9/5/2018 8:41:59 PM
Show all recovery points
Recover...

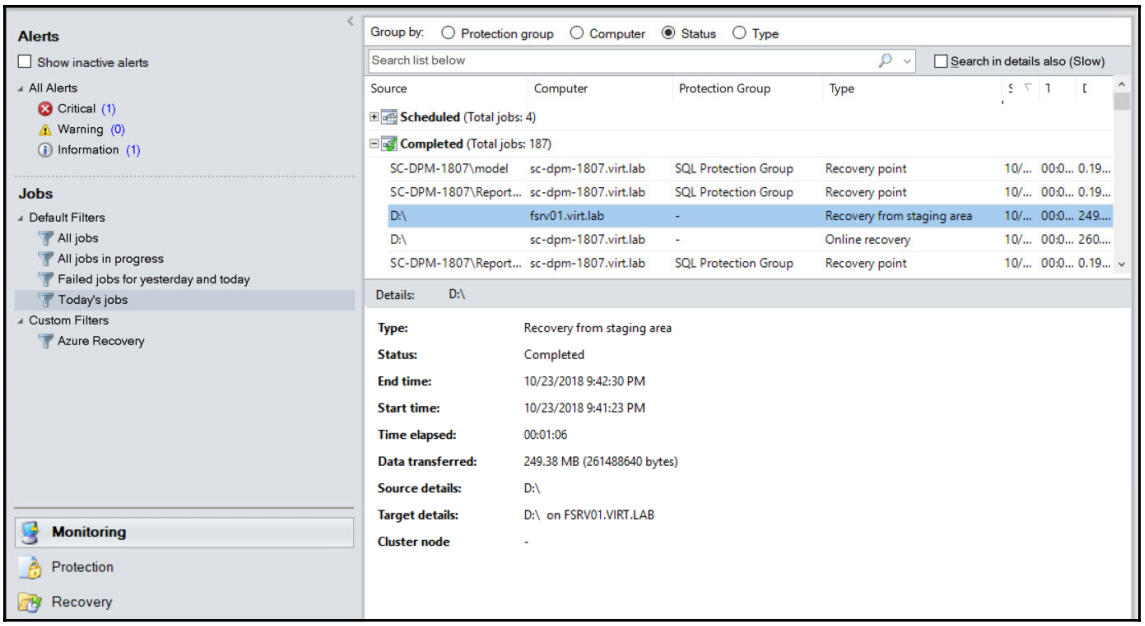

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 10/23/2018 3:41:07 PM
Recover from: Online
Item details
Recovery items:
Name
Size
Backup
-
Recovery source: D:\ on FSRV01.VIRT.LAB
< Back
Next >
Cancel
Help

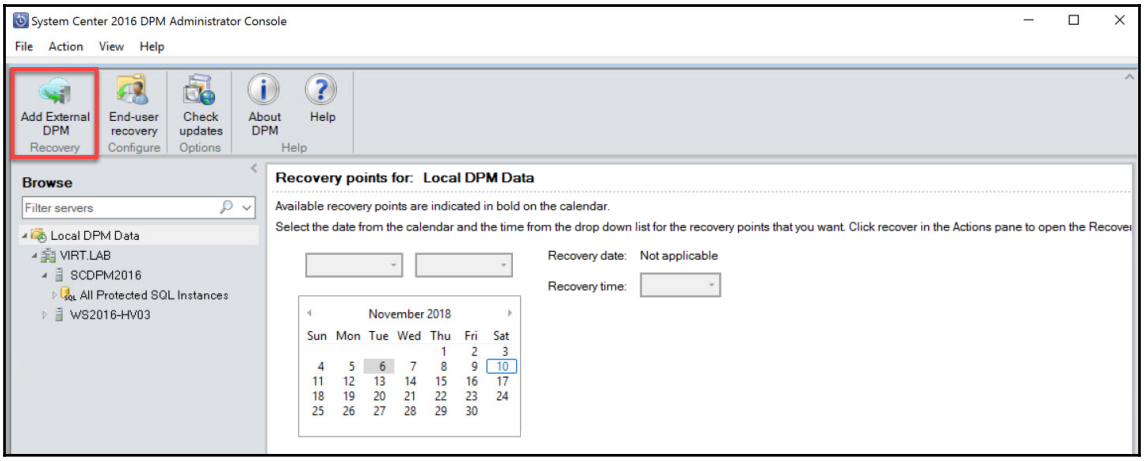

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to the original location
Original location: D:\ on FSRV01.VIRT.LAB
Recover to an alternate location
Alternate location:
Browse...
< Back
Next >
Cancel
Help

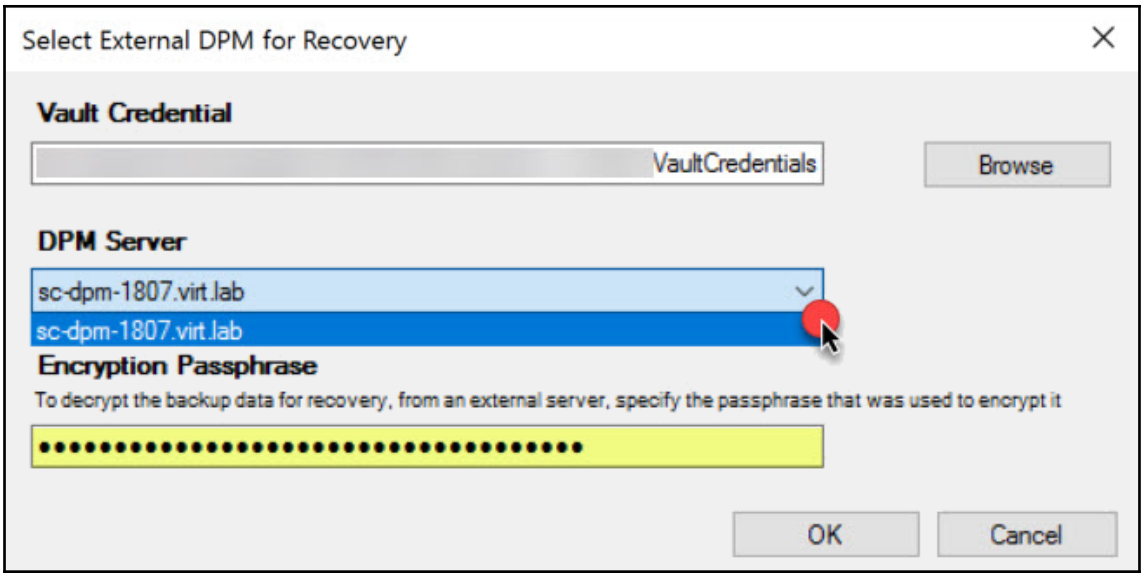

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Existing version recovery behavior
Create copy
Skip
Overwrite
Restore security
Apply security settings of the destination computer
Apply the security settings of the recovery point version
Network bandwidth usage throttling
Status: Disabled
Modify...
SAN Recovery
Enable SAN based recovery using hardware snapshots
Click on Help to learn about the prerequisite steps
Notification
Send an e-mail when this recovery completes
Recipients:
Separate e-mail addresses with comma.
Example: Kim@Contoso.com, Terry@Adventure-works.com
< Back
Next >
Cancel
Help

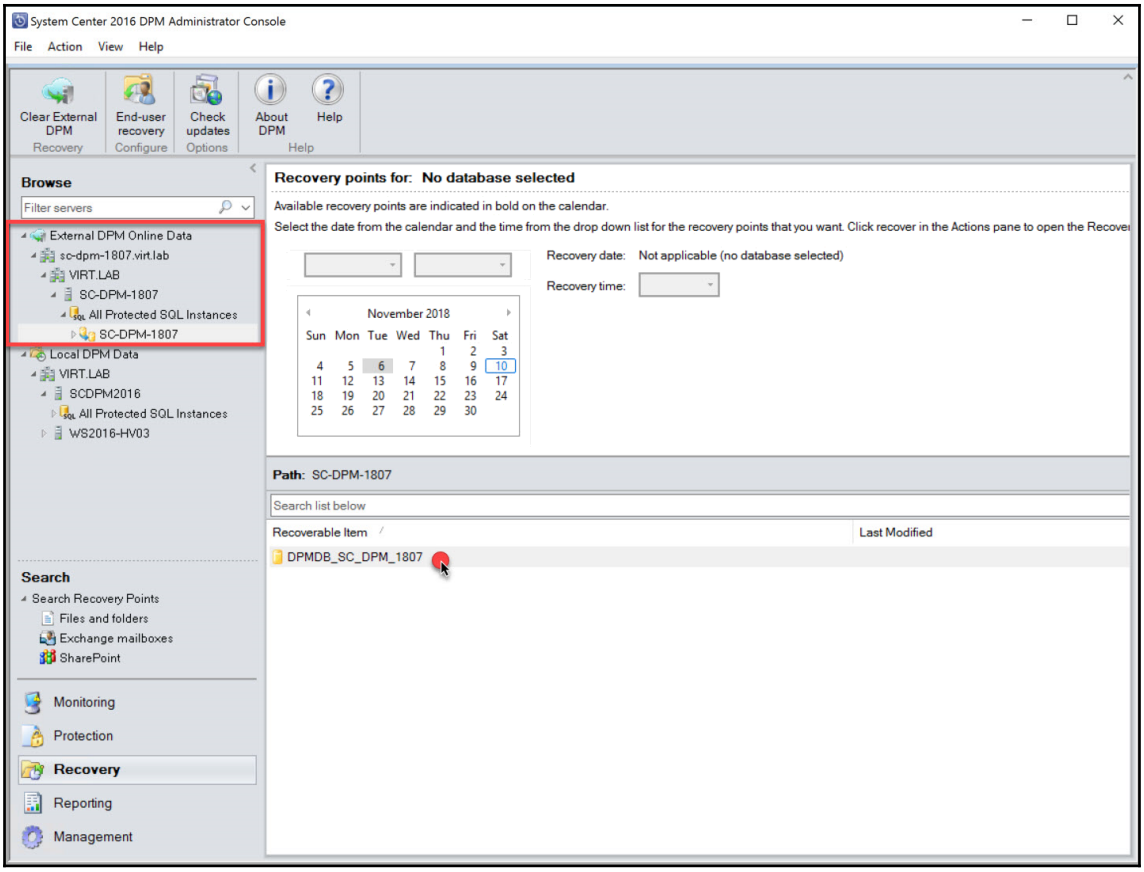

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery point: 10/23/2018 3:41:07 PM
Recovery media: Online
Source: D:\ on FSRV01.VIRT.LAB
Destination: D:\ on FSRV01.VIRT.LAB
Destination Host
Notification: No
Recovery items
Details:
Recovery Items
Size
Backup
-
Total size:
Any synchronization job for the selected recovery server will be cancelled while the recovery is in progress.
< Back
Recover
Cancel
Help

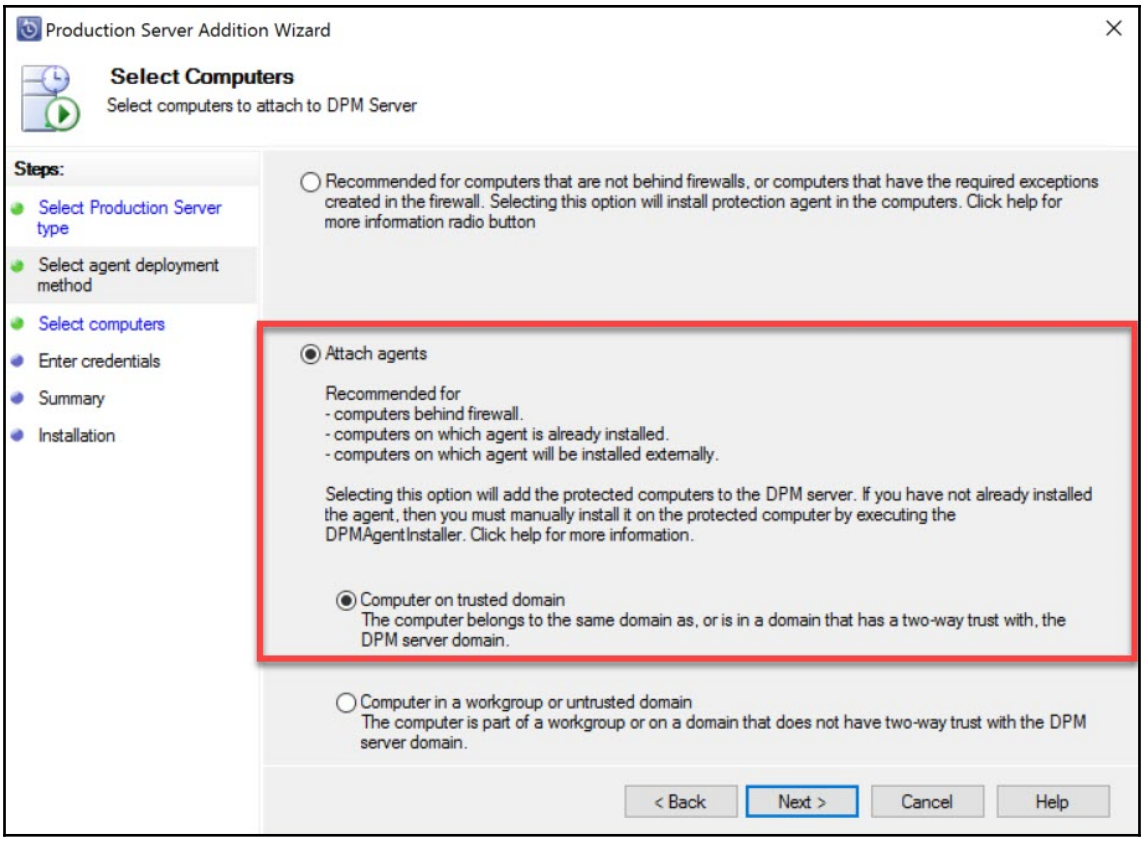

Recovery Wizard
Recovery Status
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery status: In progress...
Start time: 10/23/2018 9:40:21 PM
End time: -
Data transferred: 125.21 MB
Recovering...
You can now close the Recovery Wizard and view the recovery status in the Monitoring task area.
Close

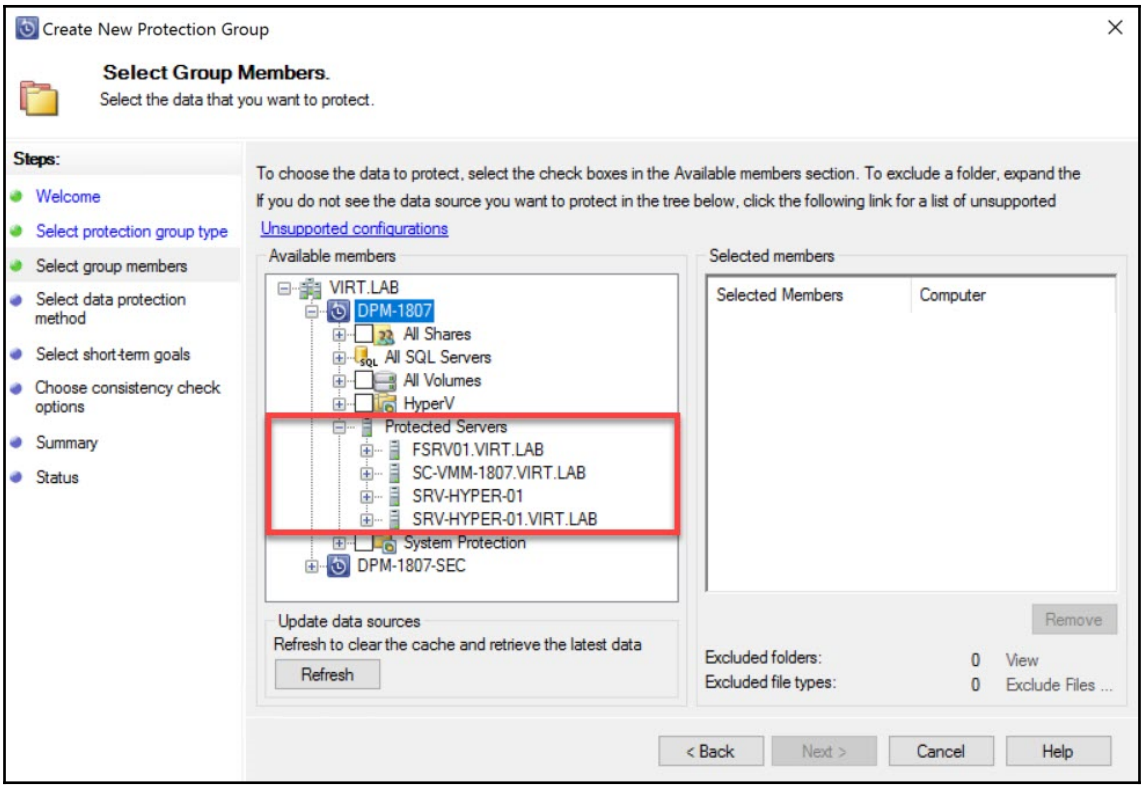

Alerts
Show inactive alerts
All Alerts
Critical (1)
Warning (0)
Information (1)
Jobs
Default Filters
All jobs
All jobs in progress
Failed jobs for yesterday and today
Today's jobs
Custom Filters
Azure Recovery
Monitoring
Protection
Recovery
Group by: Protection group Computer Status Type
Search list below
Search in details also (Slow)
Source Computer Protection Group Type
Scheduled (Total jobs: 4)
Completed (Total jobs: 187)
SC-DPM-1807\model sc-dpm-1807.virt.lab SQL Protection Group Recovery point
SC-DPM-1807\Report... sc-dpm-1807.virt.lab SQL Protection Group Recovery point
D:\ fsrv01.virt.lab - Recovery from staging area
D:\ sc-dpm-1807.virt.lab - Online recovery
SC-DPM-1807\Report... sc-dpm-1807.virt.lab SQL Protection Group Recovery point
Details: D:\
Type: Recovery from staging area
Status: Completed
End time: 10/23/2018 9:42:30 PM
Start time: 10/23/2018 9:41:23 PM
Time elapsed: 00:01:06
Data transferred: 249.38 MB (261488640 bytes)
Source details: D:\
Target details: D:\ on FSRV01.VIRT.LAB
Cluster node -

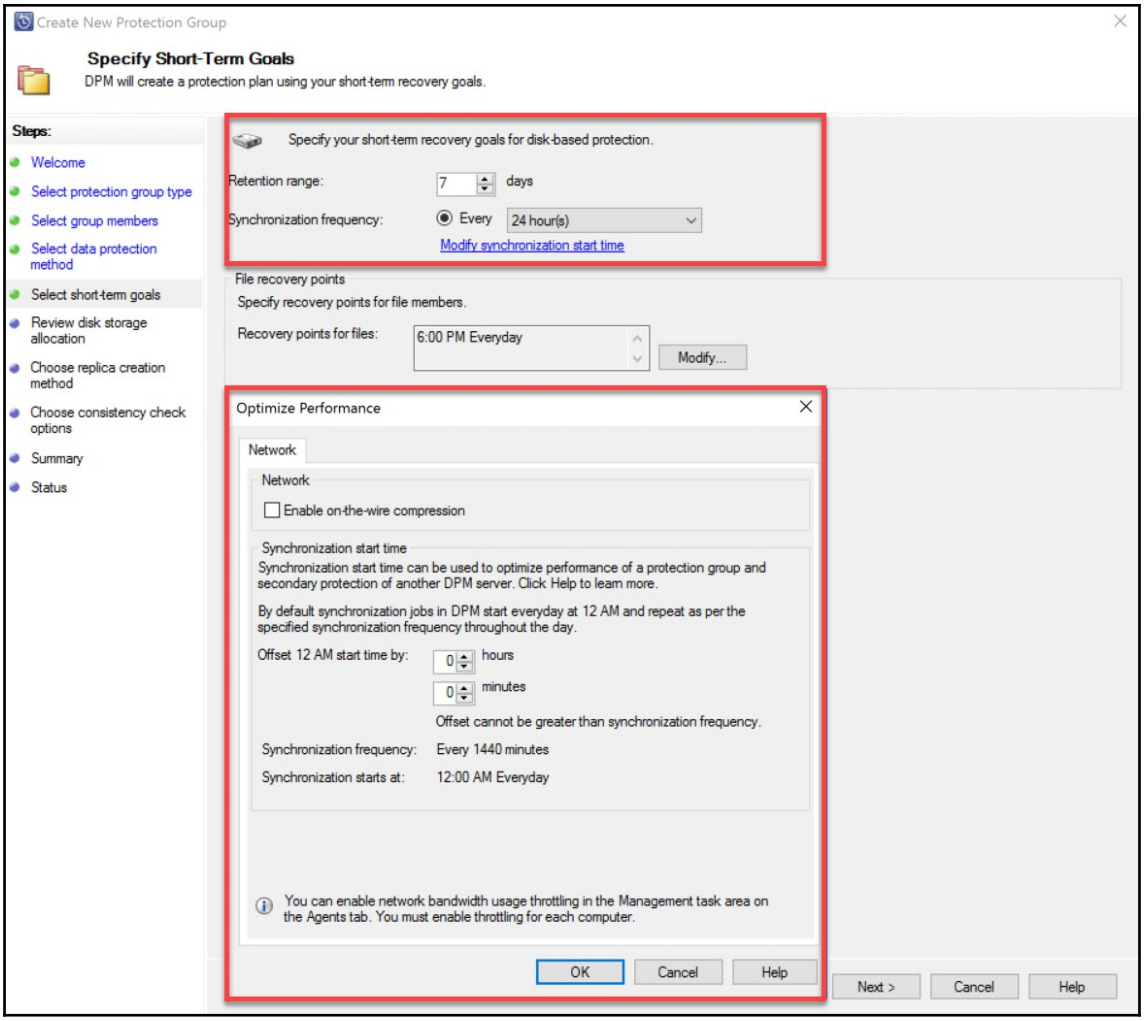

System Center 2016 DPM Administrator Console
File Action View Help
Add External DPM
Recovery
End-user recovery
Configure
Check updates
Options
About DPM
Help
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
SCDPM2016
All Protected SQL Instances
WS2016-HV03
Recovery points for: Local DPM Data
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recover
Recovery date: Not applicable
Recovery time:
November 2018
Sun Mon Tue Wed Thu Fri Sat
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30

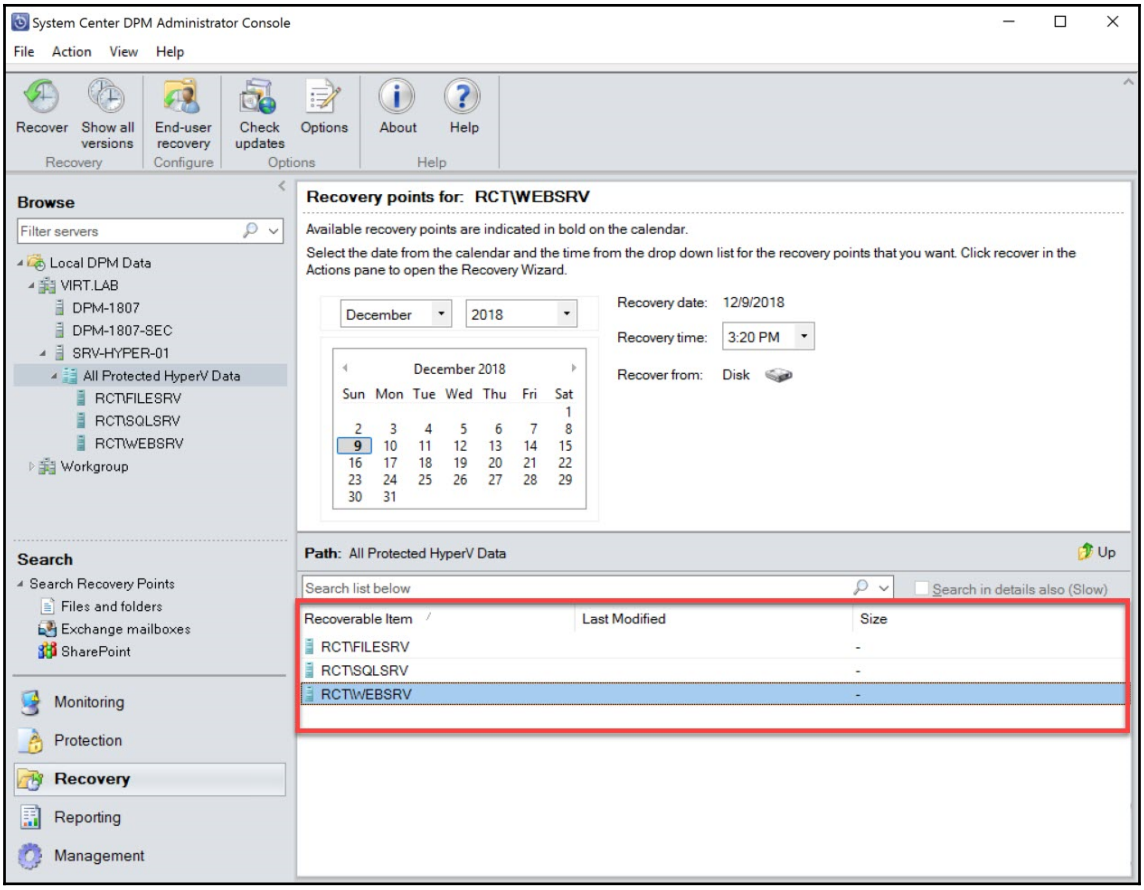

Select External DPM for Recovery
Vault Credential
VaultCredentials
Browse
DPM Server
sc-dpm-1807.virt.lab
sc-dpm-1807.virt.lab
Encryption Passphrase
To decrypt the backup data for recovery, from an external server, specify the passphrase that was used to encrypt it
OK
Cancel

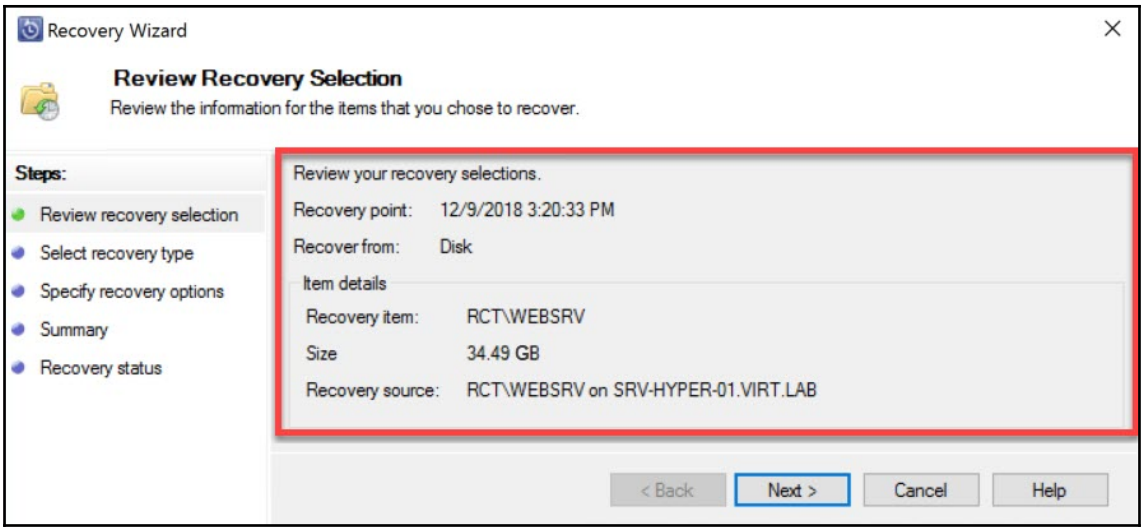

System Center 2016 DPM Administrator Console
File Action View Help
Clear External DPM
End-user recovery
Check updates
About DPM
Help
Recovery
Configure
Options
Help
Browse
Filter servers
External DPM Online Data
sc-dpm-1807.virt.lab
VIRT.LAB
SC-DPM-1807
All Protected SQL Instances
SC-DPM-1807
Local DPM Data
VIRT.LAB
SCDPM2016
All Protected SQL Instances
WS2016-HV03
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: No database selected
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recover
Recovery date: Not applicable (no database selected)
Recovery time:
November 2018
Sun Mon Tue Wed Thu Fri Sat
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
Path: SC-DPM-1807
Search list below
Recoverable Item
Last Modified
DPMDB_SC_DPM_1807

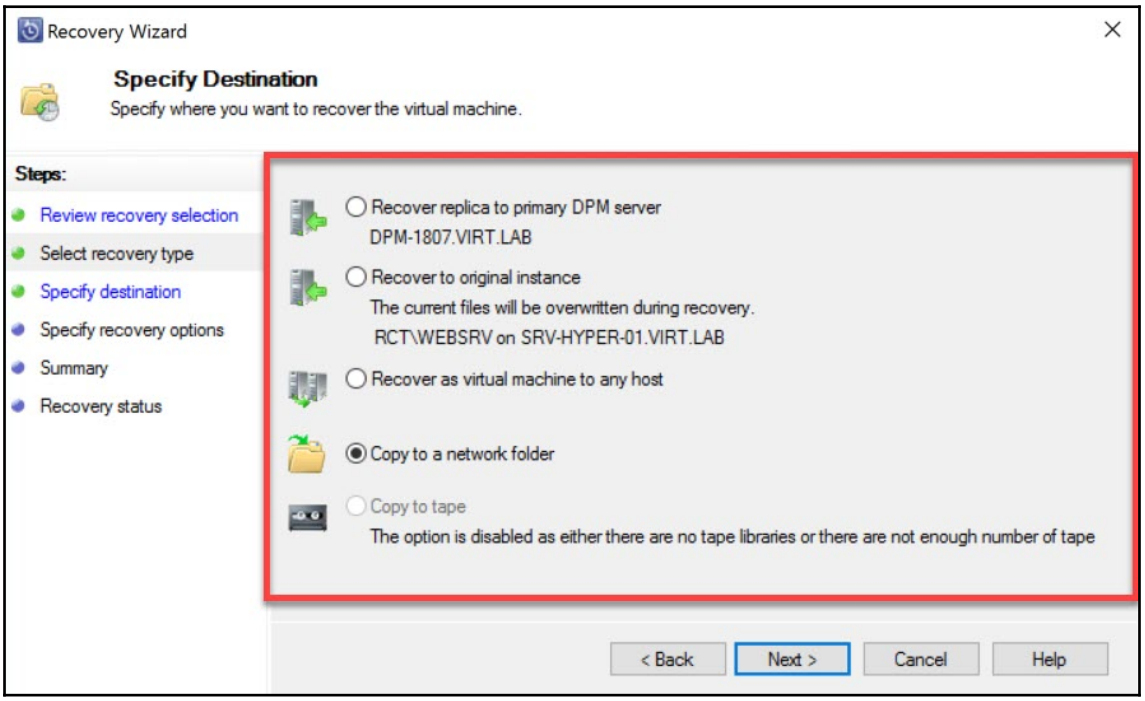

Production Server Addition Wizard
Select Computers
Select computers to attach to DPM Server
Steps:
Select Production Server type
Select agent deployment method
Select computers
Enter credentials
Summary
Installation
Recommended for computers that are not behind firewalls, or computers that have the required exceptions created in the firewall. Selecting this option will install protection agent in the computers. Click help for more information radio button
Attach agents
Recommended for
- computers behind firewall.
- computers on which agent is already installed.
- computers on which agent will be installed externally.
Selecting this option will add the protected computers to the DPM server. If you have not already installed the agent, then you must manually install it on the protected computer by executing the DPMAgentInstaller. Click help for more information.
Computer on trusted domain
The computer belongs to the same domain as, or is in a domain that has a two-way trust with, the DPM server domain.
Computer in a workgroup or untrusted domain
The computer is part of a workgroup or on a domain that does not have two-way trust with the DPM server domain.
< Back
Next >
Cancel
Help

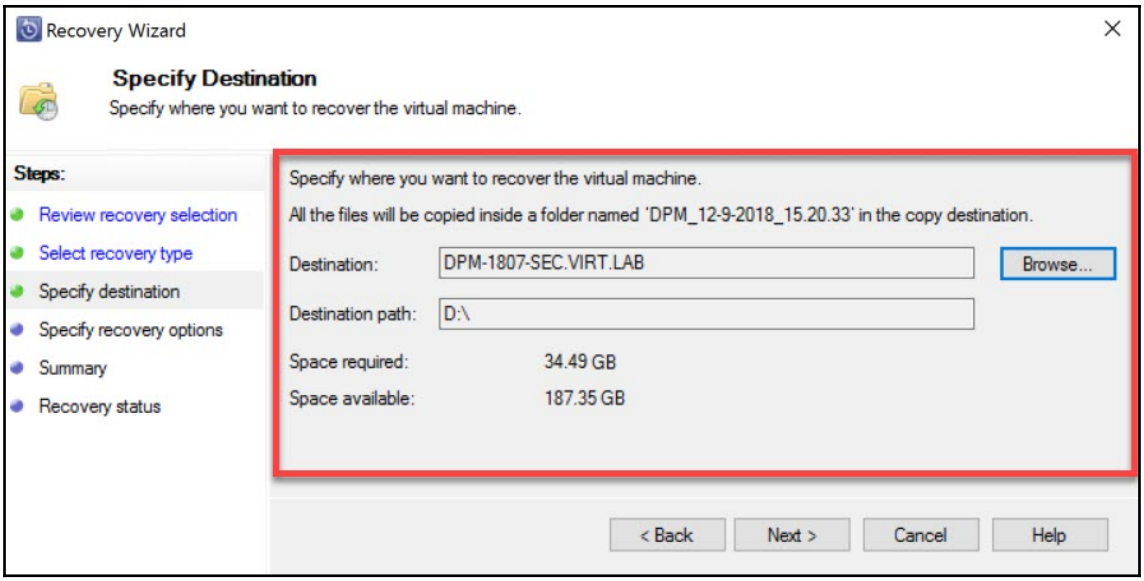

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the
If you do not see the data source you want to protect in the tree below, click the following link for a list of unsupported
Unsupported configurations
Available members
VIRT.LAB
DPM-1807
All Shares
All SQL Servers
All Volumes
HyperV
Protected Servers
FSRV01.VIRT.LAB
SC-VMM-1807.VIRT.LAB
SRV-HYPER-01
SRV-HYPER-01.VIRT.LAB
System Protection
DPM-1807-SEC
Update data sources
Refresh to clear the cache and retrieve the latest data
Refresh
Selected members
Selected Members
Computer
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

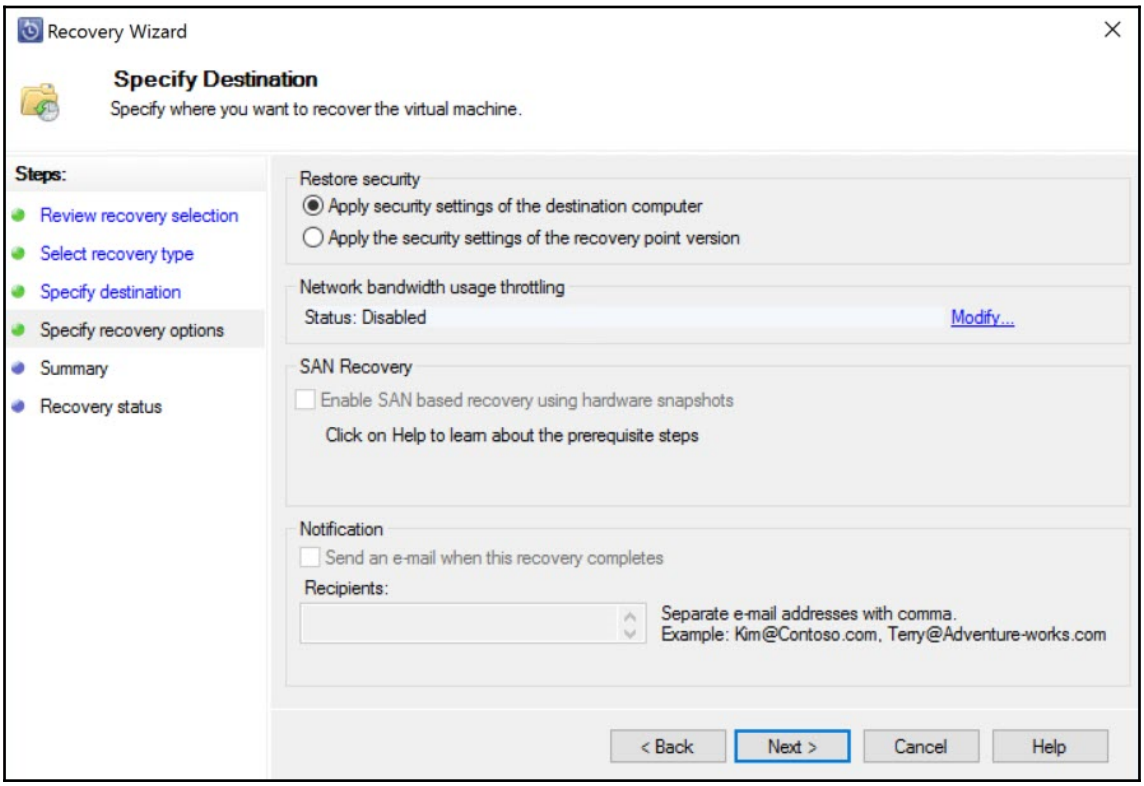

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk storage allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
7
days
Synchronization frequency:
Every
24 hour(s)
Modify synchronization start time
File recovery points
Specify recovery points for file members.
Recovery points for files:
6:00 PM Everyday
Modify...
Optimize Performance
Network
Network
Enable on-the-wire compression
Synchronization start time
Synchronization start time can be used to optimize performance of a protection group and secondary protection of another DPM server. Click Help to learn more.
By default synchronization jobs in DPM start everyday at 12 AM and repeat as per the specified synchronization frequency throughout the day.
Offset 12 AM start time by:
0
hours
0
minutes
Offset cannot be greater than synchronization frequency.
Synchronization frequency:
Every 1440 minutes
Synchronization starts at:
12:00 AM Everyday
You can enable network bandwidth usage throttling in the Management task area on the Agents tab. You must enable throttling for each computer.
OK
Cancel
Help
Next >
Cancel
Help

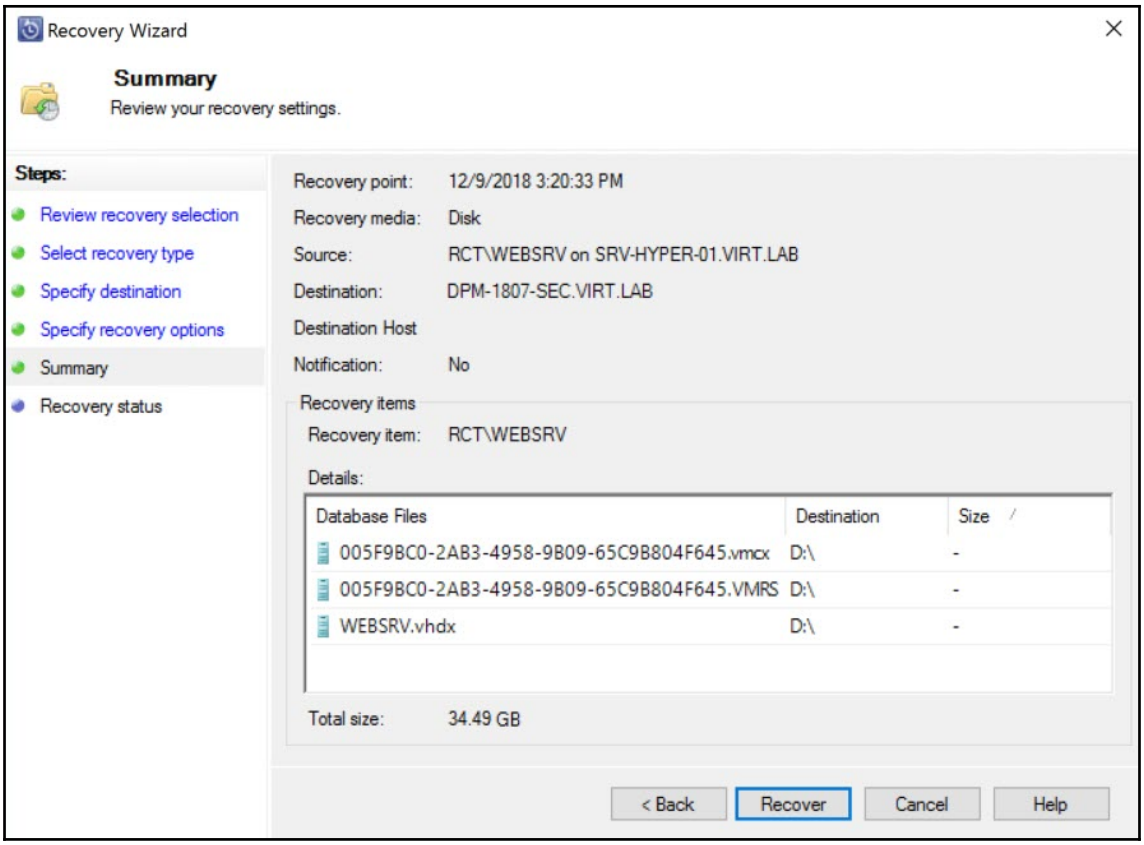

System Center DPM Administrator Console
File Action View Help
Recover
Show all versions
End-user recovery
Check updates
Options
About
Help
Recovery
Configure
Options
Help
Browse
Filter servers
Local DPM Data
VIRT.LAB
DPM-1807
DPM-1807-SEC
SRV-HYPER-01
All Protected HyperV Data
RCT\FILESRV
RCT\SQLSRV
RCT\WEBSRV
Workgroup
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: RCT\WEBSRV
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want. Click recover in the Actions pane to open the Recovery Wizard.
December
2018
December 2018
Sun Mon Tue Wed Thu Fri Sat
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
Recovery date: 12/9/2018
Recovery time: 3:20 PM
Recover from: Disk
Path: All Protected HyperV Data
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
RCT\FILESRV -
RCT\SQLSRV -
RCT\WEBSRV -

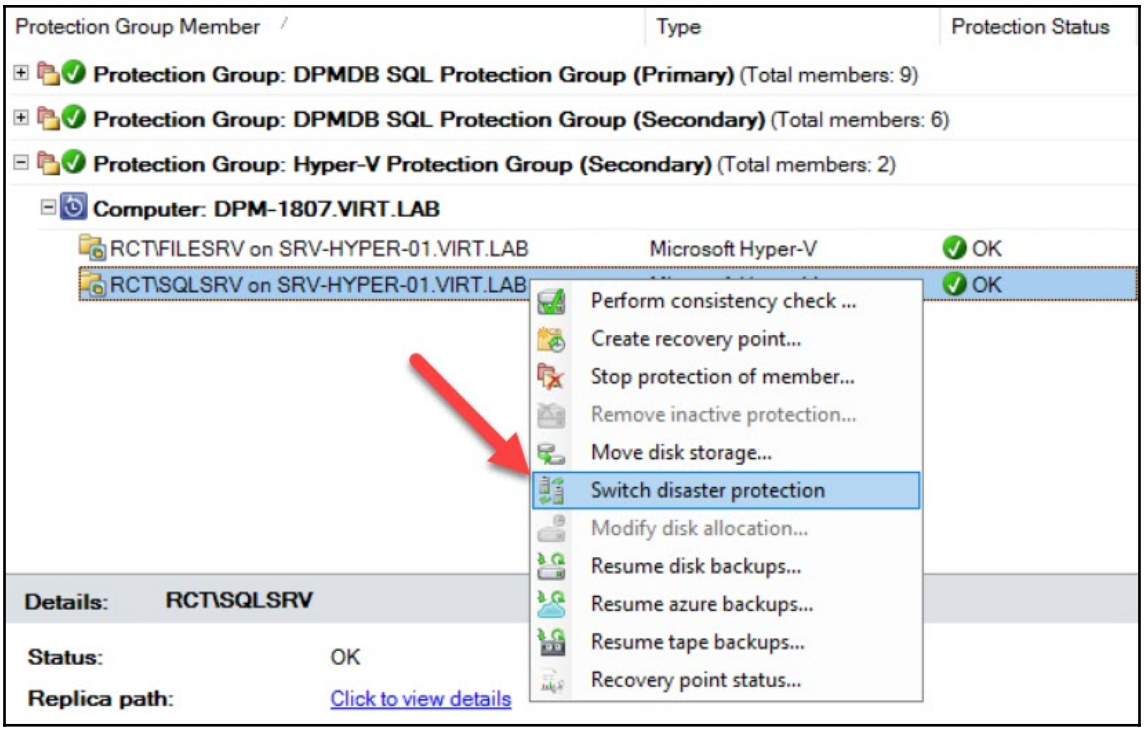

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 12/9/2018 3:20:33 PM
Recover from: Disk
Item details
Recovery item: RCT\WEBSRV
Size 34.49 GB
Recovery source: RCT\WEBSRV on SRV-HYPER-01.VIRT.LAB
< Back
Next >
Cancel
Help

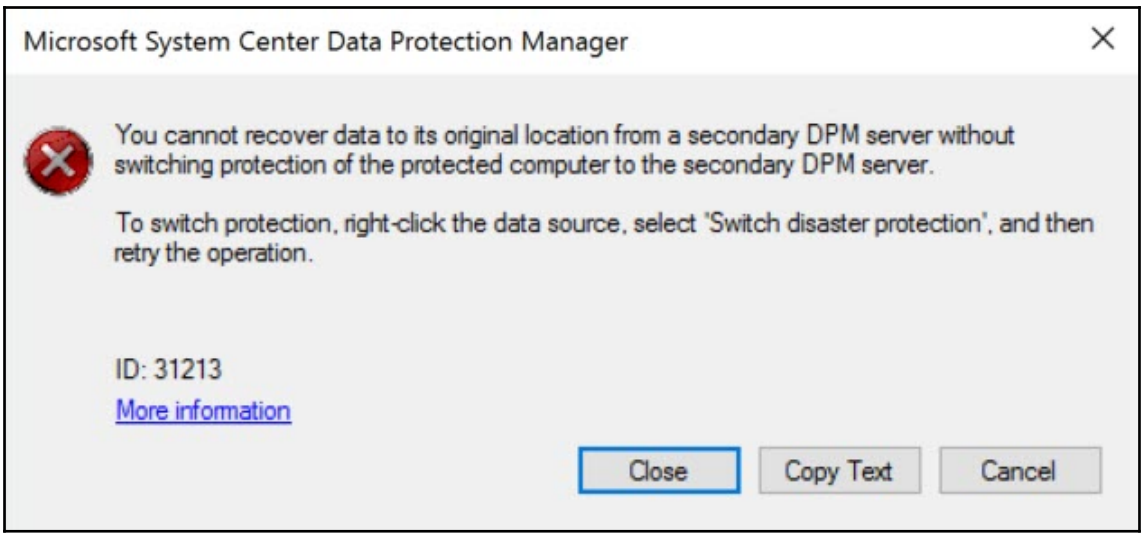

Recovery Wizard
Specify Destination
Specify where you want to recover the virtual machine.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recover replica to primary DPM server
DPM-1807.VIRT.LAB
Recover to original instance
The current files will be overwritten during recovery.
RCT\WEBSRV on SRV-HYPER-01.VIRT.LAB
Recover as virtual machine to any host
Copy to a network folder
Copy to tape
The option is disabled as either there are no tape libraries or there are not enough number of tape
< Back
Next >
Cancel
Help


Recovery Wizard
Specify Destination
Specify where you want to recover the virtual machine.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Specify where you want to recover the virtual machine.
All the files will be copied inside a folder named 'DPM_12-9-2018_15.20.33' in the copy destination.
Destination:
DPM-1807-SEC.VIRT.LAB
Browse...
Destination path:
D:\
Space required:
34.49 GB
Space available:
187.35 GB
< Back
Next >
Cancel
Help

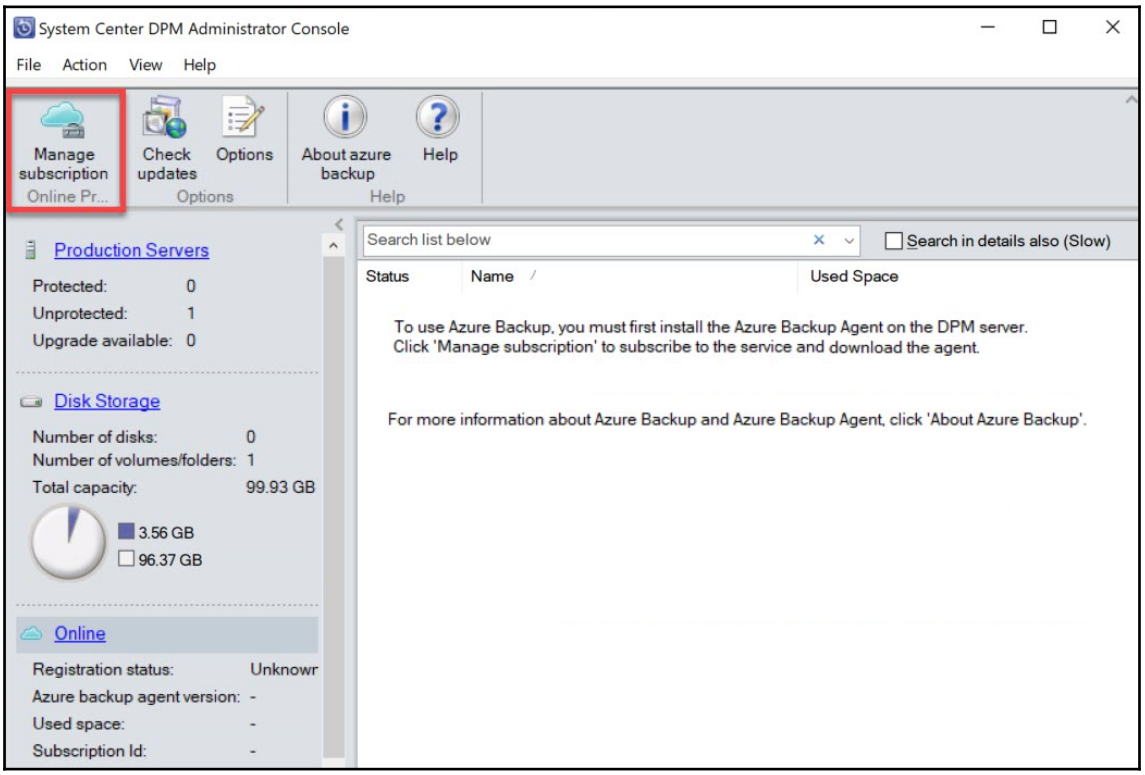

Recovery Wizard
Specify Destination
Specify where you want to recover the virtual machine.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Restore security
Apply security settings of the destination computer
Apply the security settings of the recovery point version
Network bandwidth usage throttling
Status: Disabled
Modify...
SAN Recovery
Enable SAN based recovery using hardware snapshots
Click on Help to learn about the prerequisite steps
Notification
Send an e-mail when this recovery completes
Recipients:
Separate e-mail addresses with comma.
Example: Kim@Contoso.com, Terry@Adventure-works.com
< Back
Next >
Cancel
Help

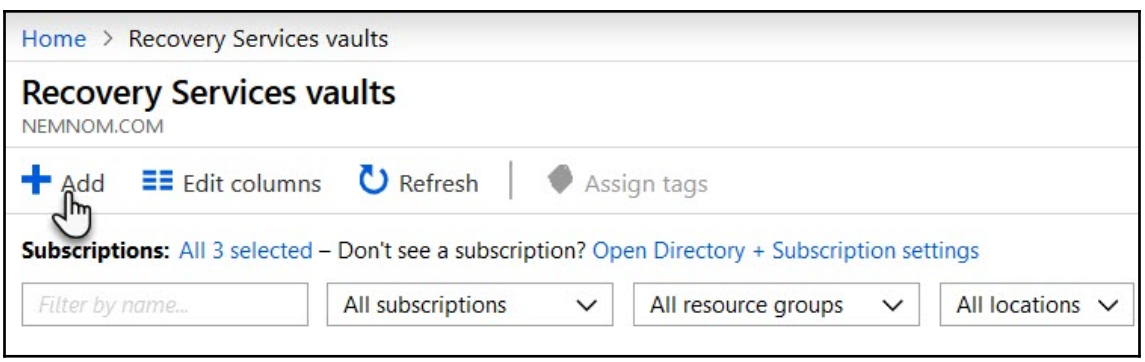

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recovery point: 12/9/2018 3:20:33 PM
Recovery media: Disk
Source: RCT\WEBSRV on SRV-HYPER-01.VIRT.LAB
Destination: DPM-1807-SEC.VIRT.LAB
Destination Host
Notification: No
Recovery items
Recovery item: RCT\WEBSRV
Details:
Database Files
Destination
Size
005F9BC0-2AB3-4958-9B09-65C9B804F645.vmcx D:\ -
005F9BC0-2AB3-4958-9B09-65C9B804F645.VMRS D:\ -
WEBSRV.vhdx D:\ -
Total size: 34.49 GB
< Back
Recover
Cancel
Help

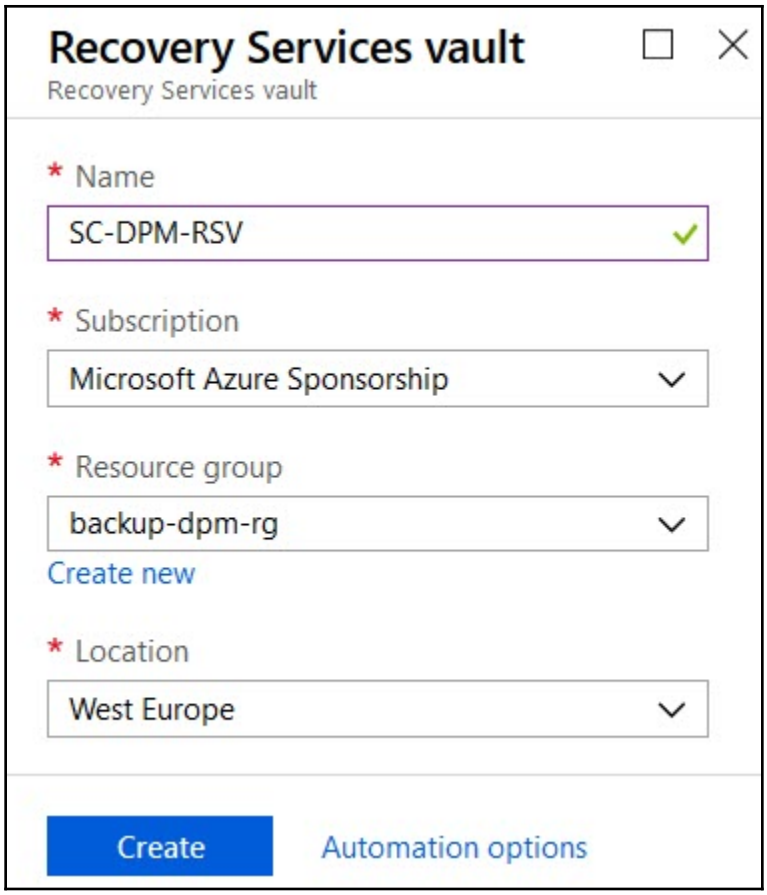

Protection Group Member
Type
Protection Status
Protection Group: DPMDB SQL Protection Group (Primary) (Total members: 9)
Protection Group: DPMDB SQL Protection Group (Secondary) (Total members: 6)
Protection Group: Hyper-V Protection Group (Secondary) (Total members: 2)
Computer: DPM-1807.VIRT.LAB
RCT\FILESRV on SRV-HYPER-01.VIRT.LAB
Microsoft Hyper-V
OK
RCT\SQLSRV on SRV-HYPER-01.VIRT.LAB
OK
Perform consistency check ...
Create recovery point...
Stop protection of member...
Remove inactive protection...
Move disk storage...
Switch disaster protection
Modify disk allocation...
Resume disk backups...
Resume azure backups...
Resume tape backups...
Recovery point status...
Details:
RCT\SQLSRV
Status:
OK
Replica path:
Click to view details

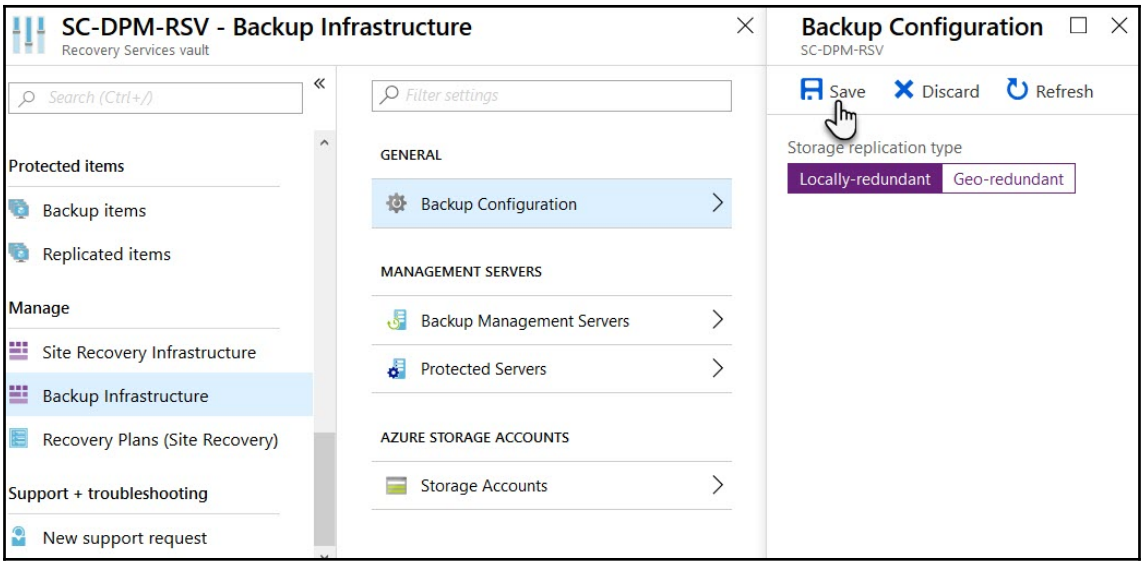

Microsoft System Center Data Protection Manager
You cannot recover data to its original location from a secondary DPM server without switching protection of the protected computer to the secondary DPM server.
To switch protection, right-click the data source, select "Switch disaster protection", and then retry the operation.
ID: 31213
More information
Close
Copy Text
Cancel

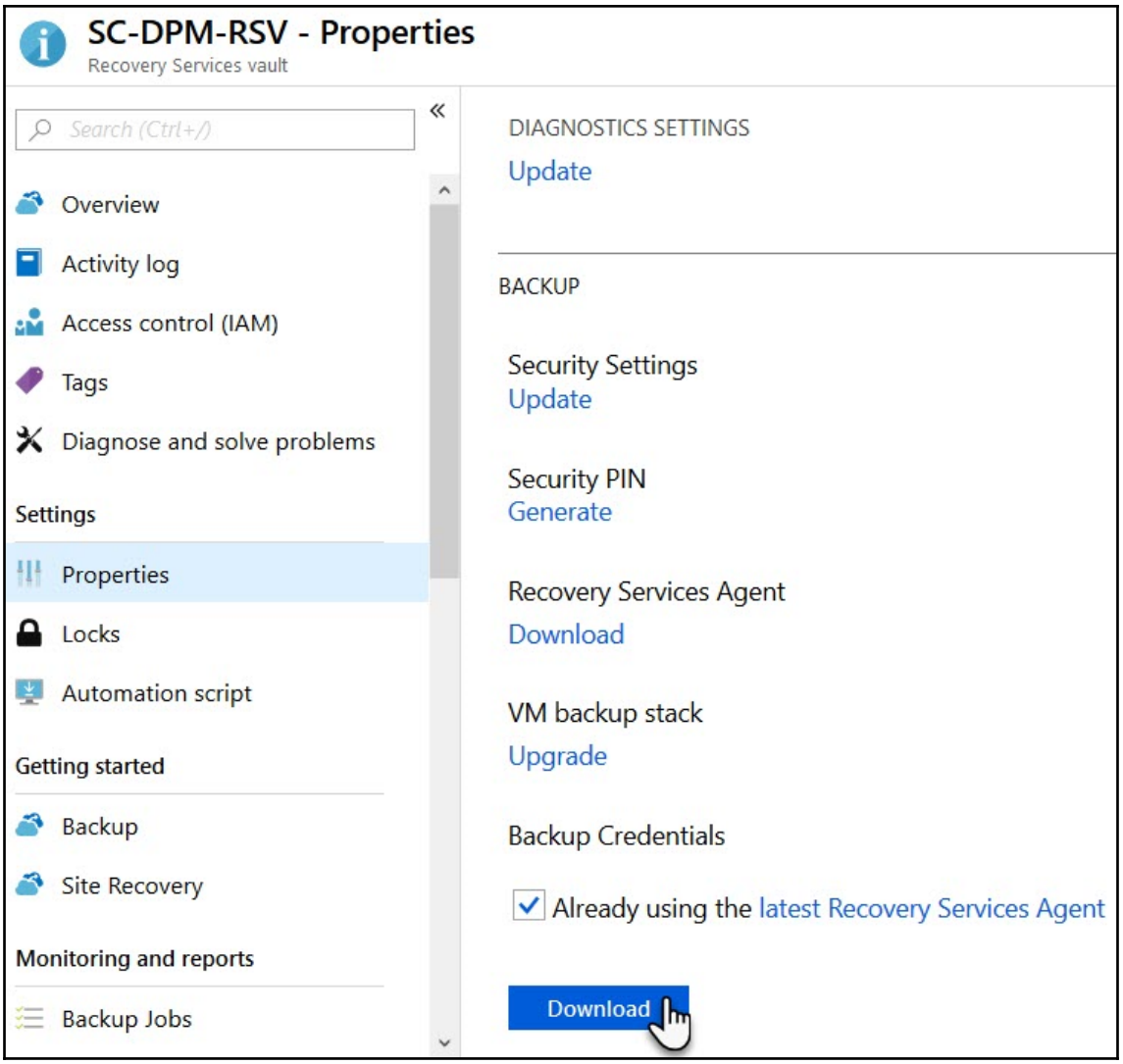
Chapter 10: Integrating DPM with Azure Backup

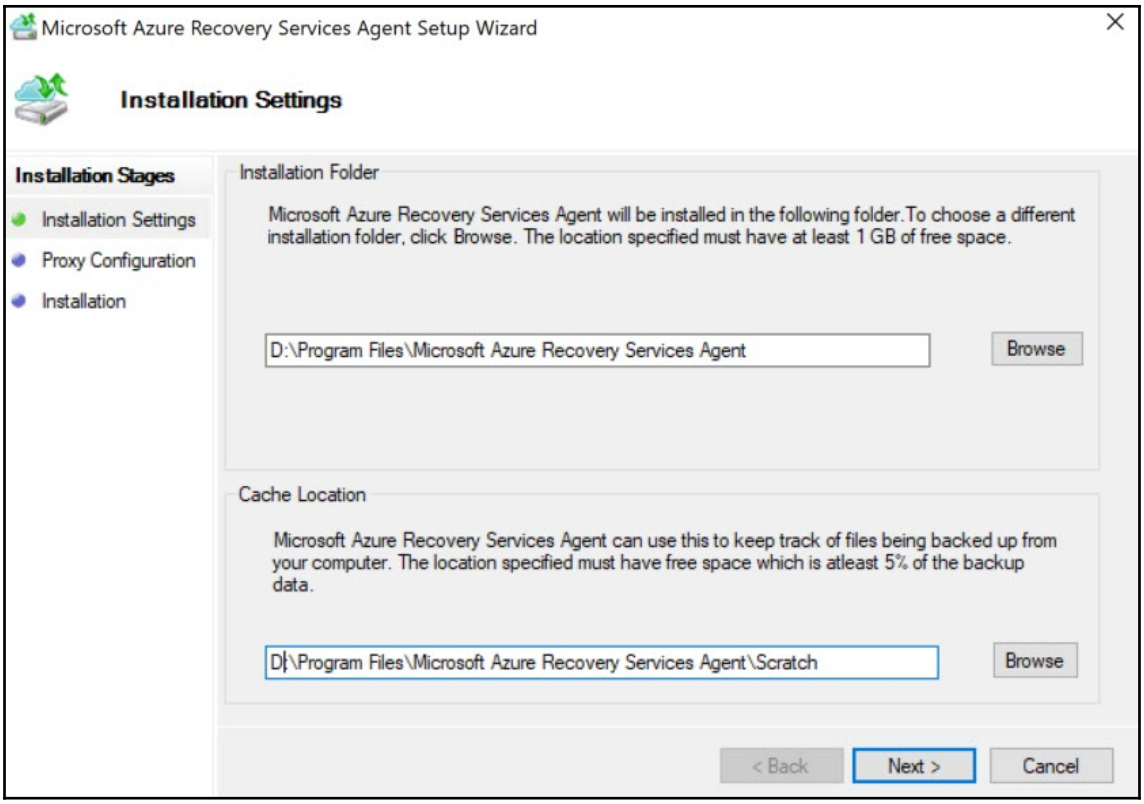


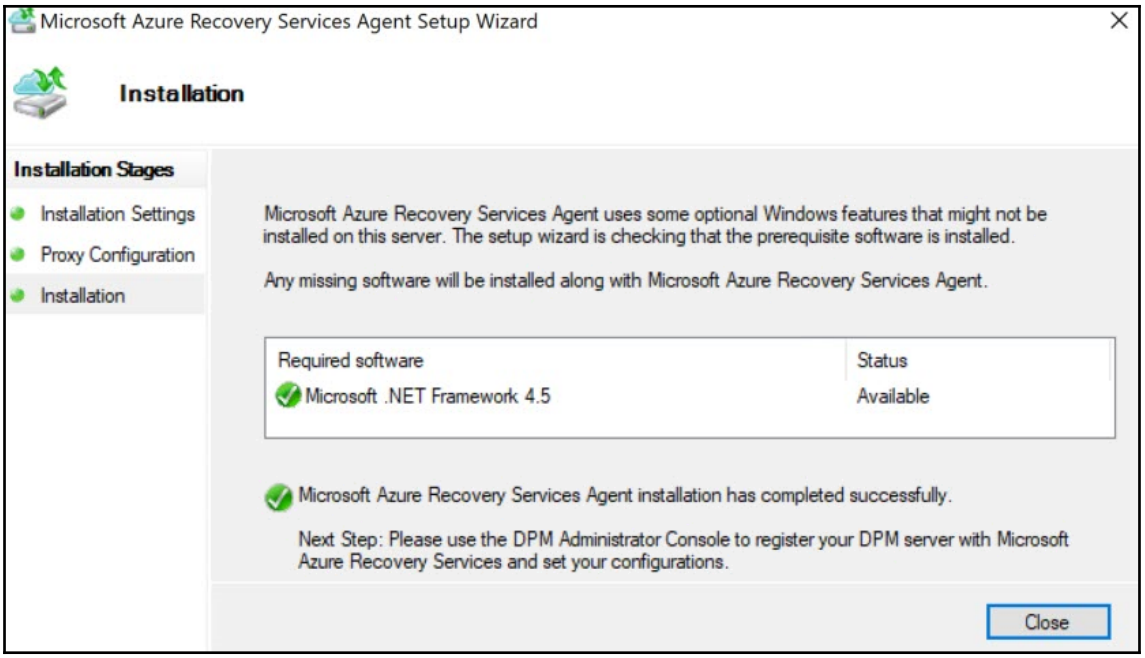


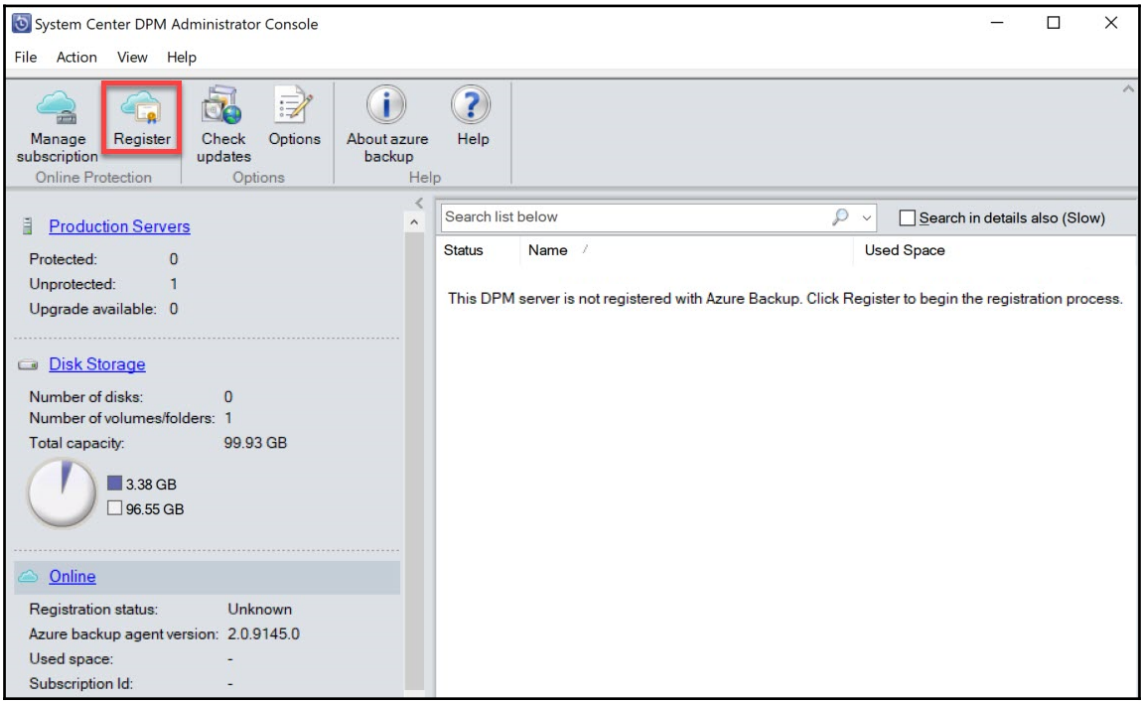

Recovery Services vault
Recovery Services vault
* Name
SC-DPM-RSV
* Subscription
Microsoft Azure Sponsorship
* Resource group
backup-dpm-rg
Create new
* Location
West Europe
Create
Automation options

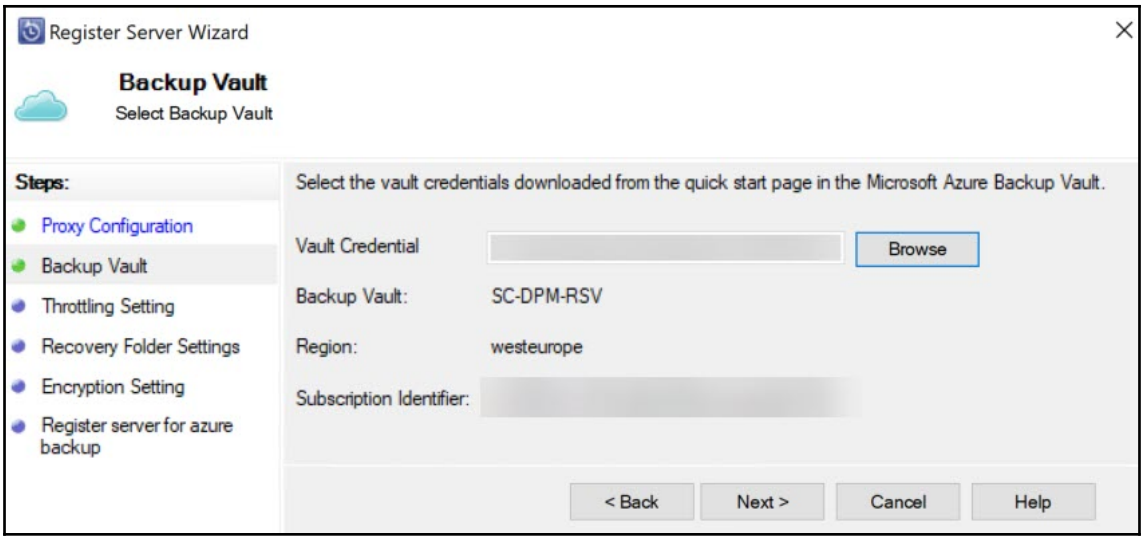

SC-DPM-RSV - Backup Infrastructure
Recovery Services vault
Search (Ctrl+/)
Protected items
Backup items
Replicated items
Manage
Site Recovery Infrastructure
Backup Infrastructure
Recovery Plans (Site Recovery)
Support + troubleshooting
New support request
Filter settings
GENERAL
Backup Configuration
MANAGEMENT SERVERS
Backup Management Servers
Protected Servers
AZURE STORAGE ACCOUNTS
Storage Accounts
Backup Configuration
SC-DPM-RSV
Save
Discard
Refresh
Storage replication type
Locally-redundant
Geo-redundant

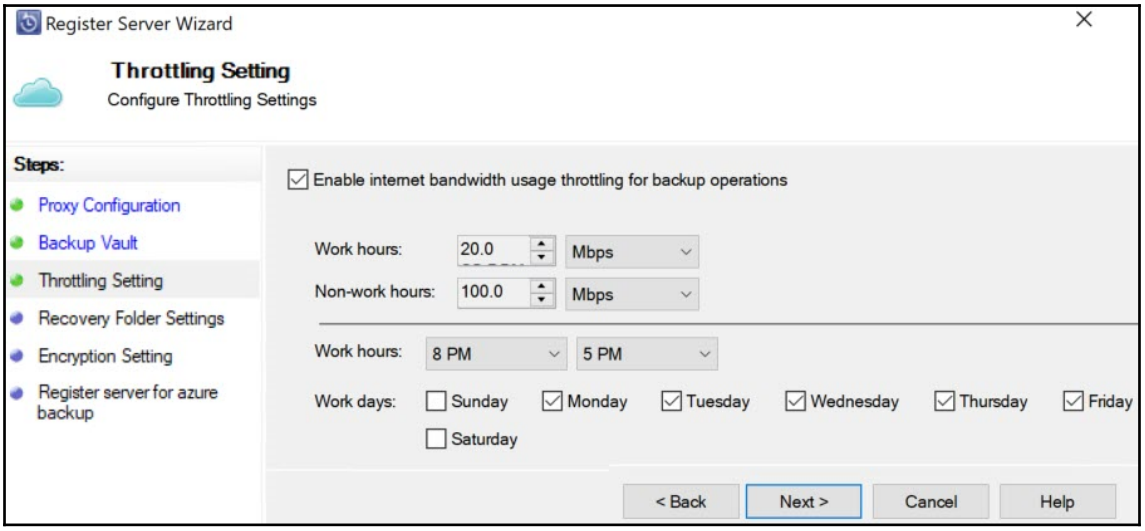

SC-DPM-RSV - Properties
Recovery Services vault
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Properties
Locks
Automation script
Getting started
Backup
Site Recovery
Monitoring and reports
Backup Jobs
DIAGNOSTICS SETTINGS
Update
BACKUP
Security Settings
Update
Security PIN
Generate
Recovery Services Agent
Download
VM backup stack
Upgrade
Backup Credentials
Already using the latest Recovery Services Agent
Download

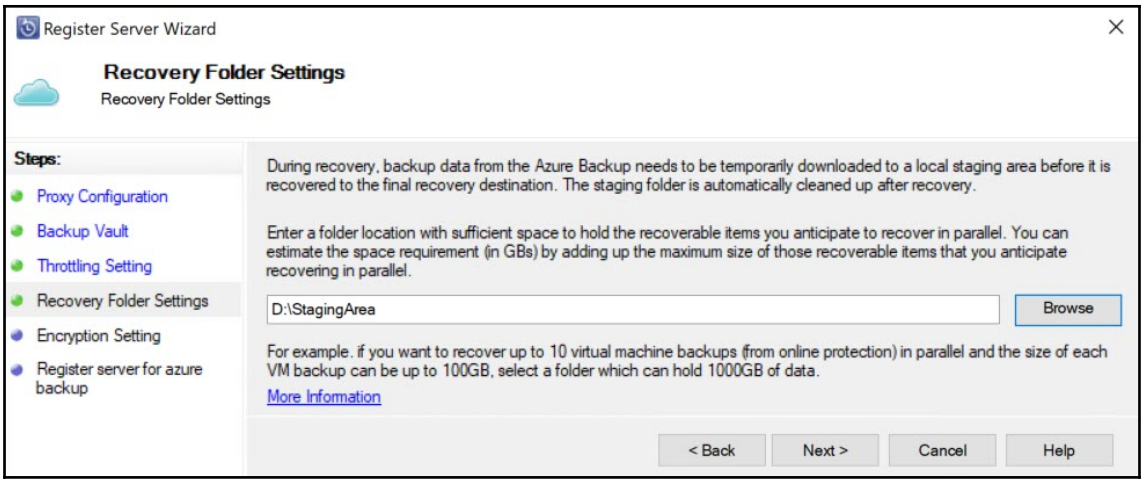

Microsoft Azure Recovery Services Agent Setup Wizard
Installation Settings
Installation Stages
Installation Settings
Proxy Configuration
Installation
Installation Folder
Microsoft Azure Recovery Services Agent will be installed in the following folder.To choose a different installation folder, click Browse. The location specified must have at least 1 GB of free space.
D:\Program Files\Microsoft Azure Recovery Services Agent
Browse
Cache Location
Microsoft Azure Recovery Services Agent can use this to keep track of files being backed up from your computer. The location specified must have free space which is atleast 5% of the backup data.
D:\Program Files\Microsoft Azure Recovery Services Agent\Scratch
Browse
< Back
Next >
Cancel

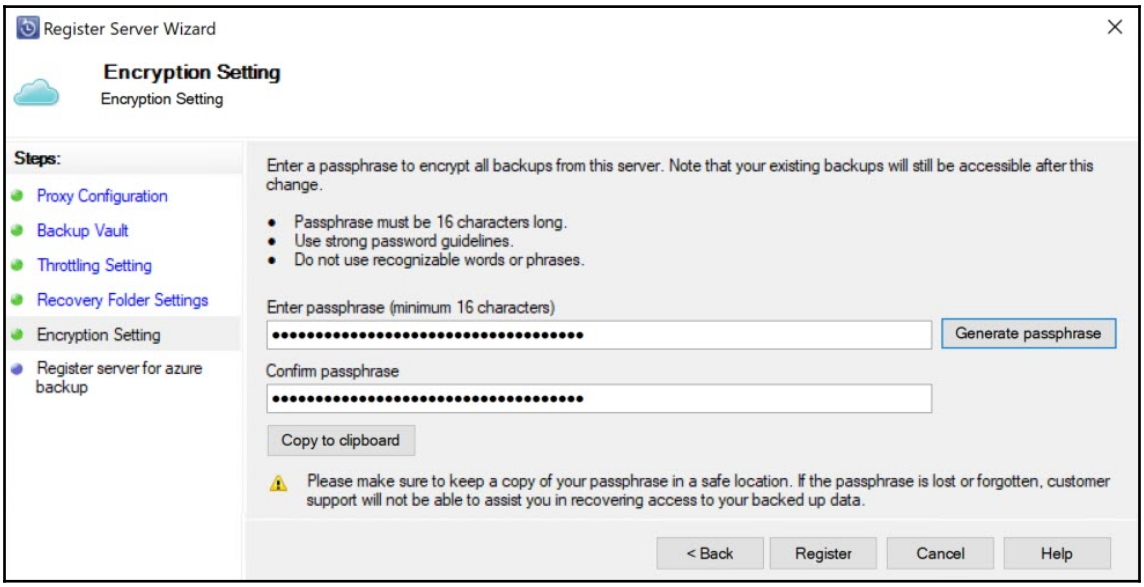

Microsoft Azure Recovery Services Agent Setup Wizard
Installation
Installation Stages
Installation Settings
Proxy Configuration
Installation
Microsoft Azure Recovery Services Agent uses some optional Windows features that might not be installed on this server. The setup wizard is checking that the prerequisite software is installed.
Any missing software will be installed along with Microsoft Azure Recovery Services Agent.
Required software
Status
Microsoft .NET Framework 4.5
Available
Microsoft Azure Recovery Services Agent installation has completed successfully.
Next Step: Please use the DPM Administrator Console to register your DPM server with Microsoft Azure Recovery Services and set your configurations.
Close

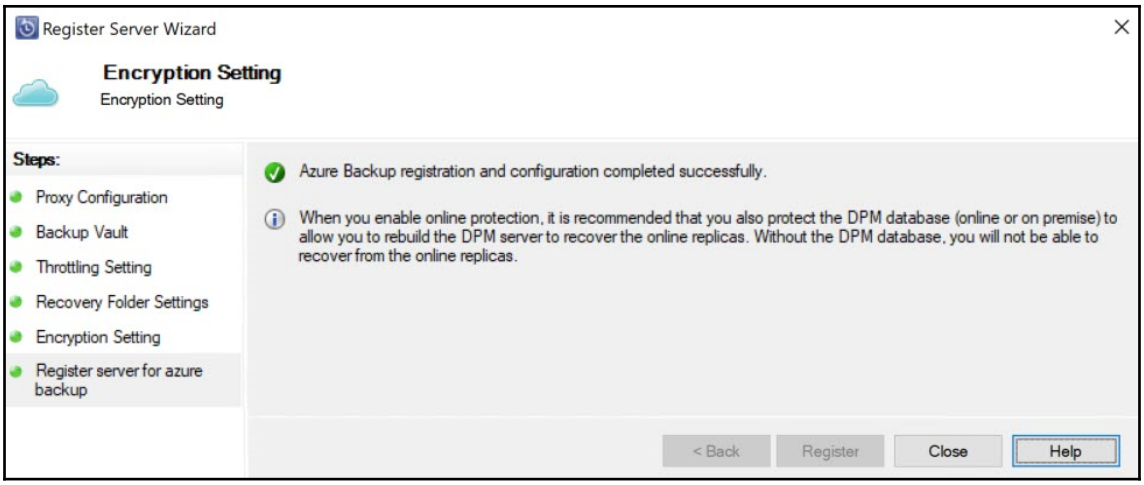

System Center DPM Administrator Console
File
Action
View
Help
Manage subscription
Register
Check updates
Options
About azure backup
Help
Online Protection
Options
Help
Production Servers
Protected: 0
Unprotected: 1
Upgrade available: 0
Disk Storage
Number of disks: 0
Number of volumes/folders: 1
Total capacity: 99.93 GB
3.38 GB
96.55 GB
Online
Registration status: Unknown
Azure backup agent version: 2.0.9145.0
Used space: -
Subscription Id: -
Search list below
Search in details also (Slow)
Status
Name
Used Space
This DPM server is not registered with Azure Backup. Click Register to begin the registration process.

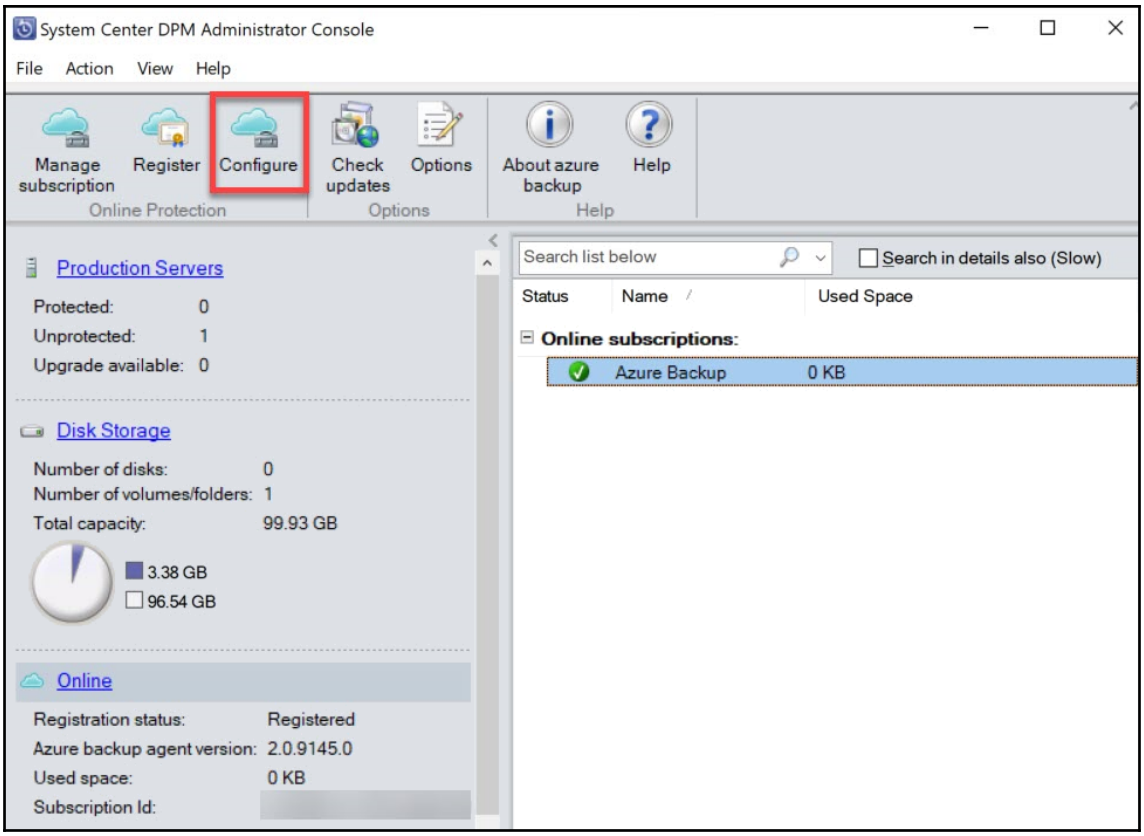

Register Server Wizard
Backup Vault
Select Backup Vault
Steps:
Proxy Configuration
Backup Vault
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
Select the vault credentials downloaded from the quick start page in the Microsoft Azure Backup Vault.
Vault Credential
Browse
Backup Vault:
SC-DPM-RSV
Region:
westeurope
Subscription Identifier:
< Back
Next >
Cancel
Help

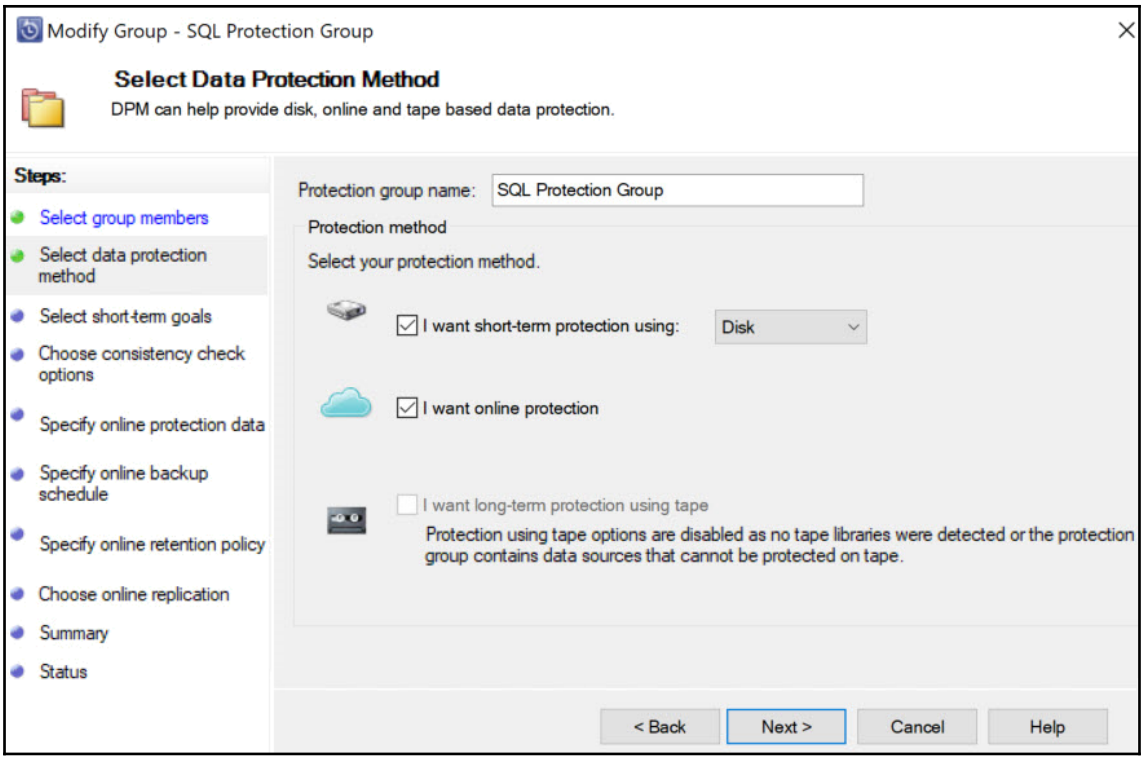

Register Server Wizard
Throttling Setting
Configure Throttling Settings
Steps:
Proxy Configuration
Backup Vault
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
Enable internet bandwidth usage throttling for backup operations
Work hours:
20.0
Mbps
Non-work hours:
100.0
Mbps
Work hours:
8 PM
5 PM
Work days:
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
< Back
Next >
Cancel
Help

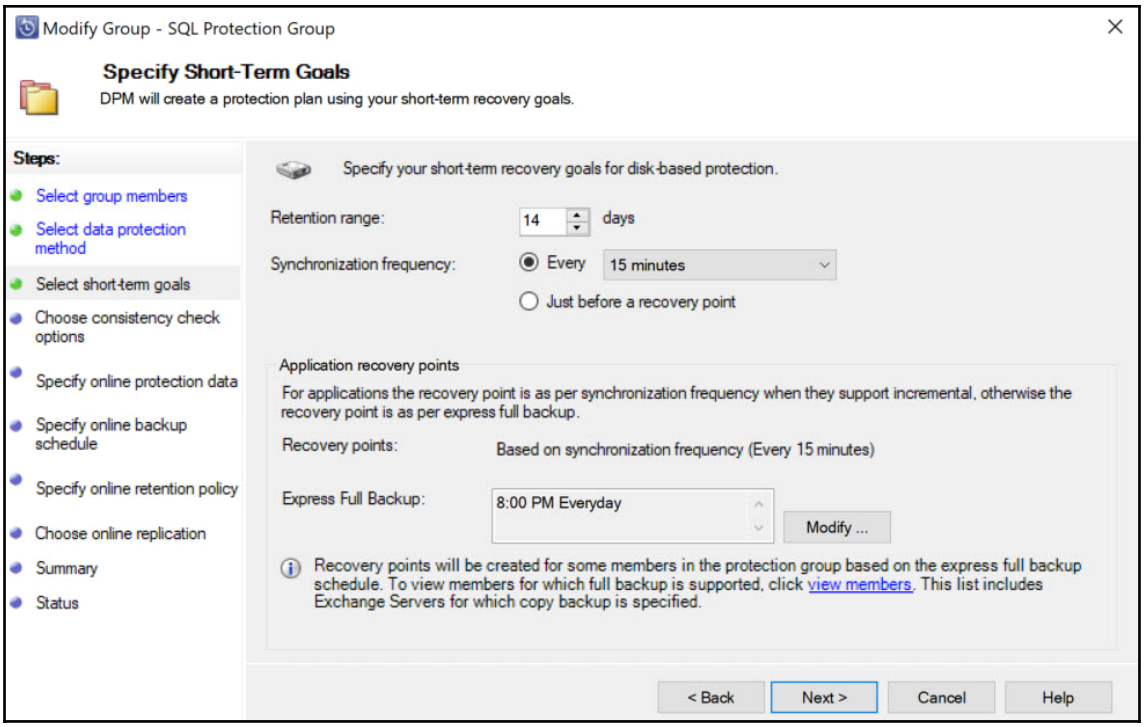

Register Server Wizard
Recovery Folder Settings
Recovery Folder Settings
Steps:
Proxy Configuration
Backup Vault
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
During recovery, backup data from the Azure Backup needs to be temporarily downloaded to a local staging area before it is recovered to the final recovery destination. The staging folder is automatically cleaned up after recovery.
Enter a folder location with sufficient space to hold the recoverable items you anticipate to recover in parallel. You can estimate the space requirement (in GBs) by adding up the maximum size of those recoverable items that you anticipate recovering in parallel.
D:\StagingArea
Browse
For example. if you want to recover up to 10 virtual machine backups (from online protection) in parallel and the size of each VM backup can be up to 100GB, select a folder which can hold 1000GB of data.
More Information
< Back
Next >
Cancel
Help

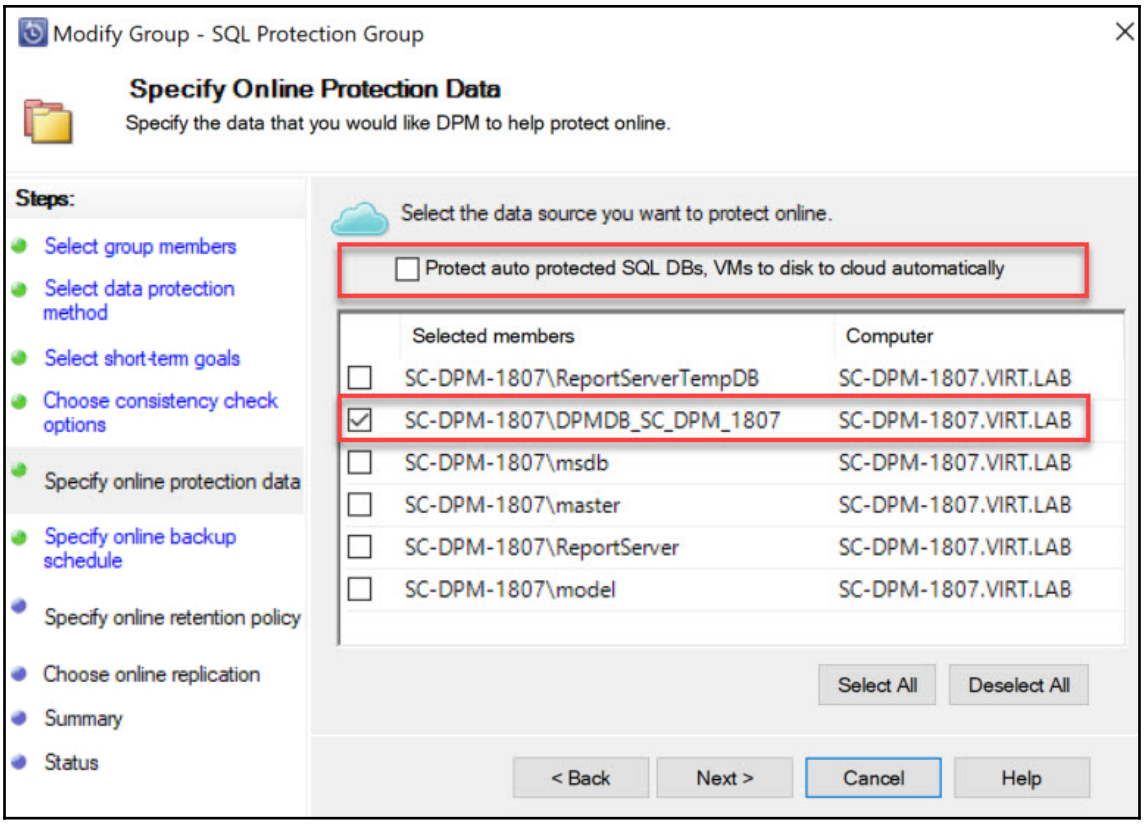

Register Server Wizard
Encryption Setting
Encryption Setting
Steps:
Proxy Configuration
Backup Vault
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
Enter a passphrase to encrypt all backups from this server. Note that your existing backups will still be accessible after this change.
Passphrase must be 16 characters long.
Use strong password guidelines.
Do not use recognizable words or phrases.
Enter passphrase (minimum 16 characters)
Generate passphrase
Confirm passphrase
Copy to clipboard
Please make sure to keep a copy of your passphrase in a safe location. If the passphrase is lost or forgotten, customer support will not be able to assist you in recovering access to your backed up data.
< Back
Register
Cancel
Help

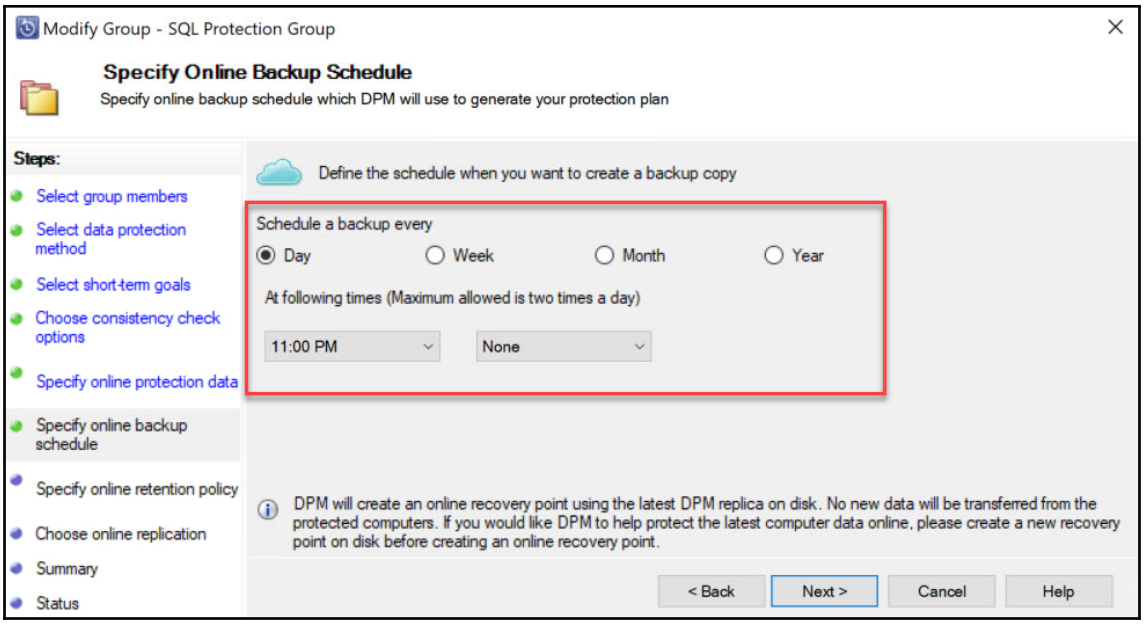

Register Server Wizard
Encryption Setting
Encryption Setting
Steps:
Proxy Configuration
Backup Vault
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
Azure Backup registration and configuration completed successfully.
When you enable online protection, it is recommended that you also protect the DPM database (online or on premise) to allow you to rebuild the DPM server to recover the online replicas. Without the DPM database, you will not be able to recover from the online replicas.
< Back
Register
Close
Help

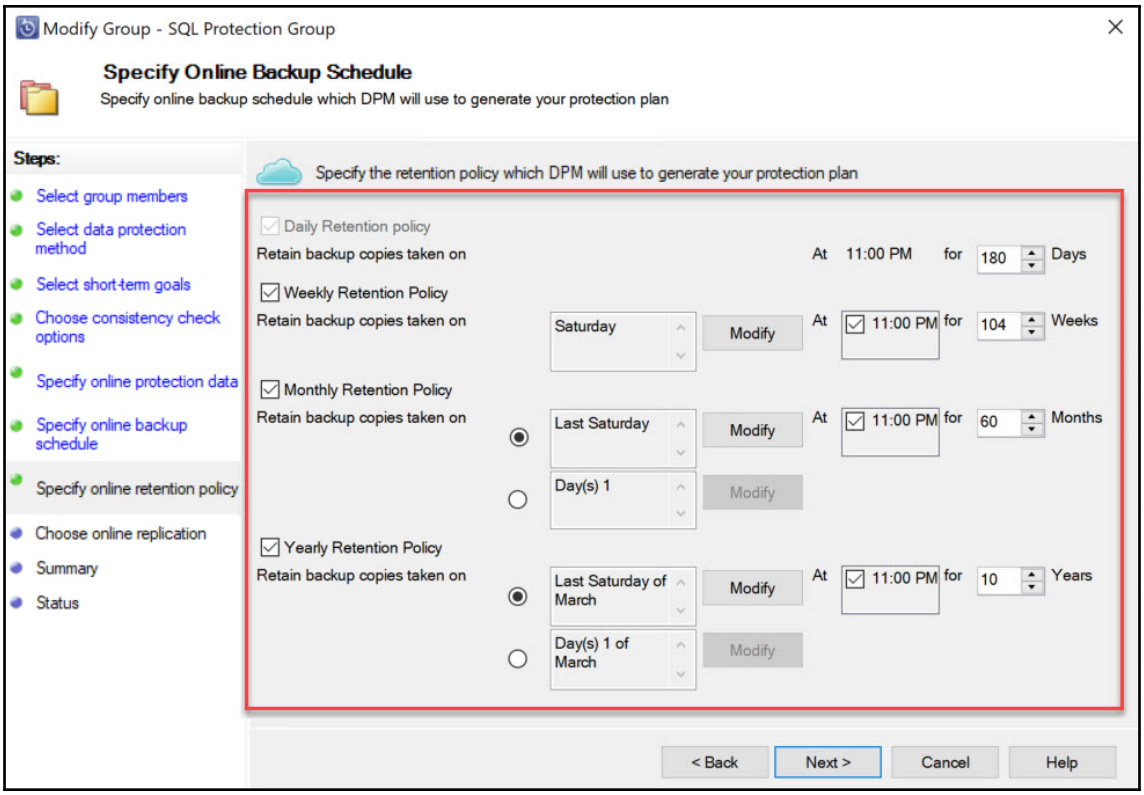

System Center DPM Administrator Console
File
Action
View
Help
Manage subscription
Register
Configure
Check updates
Options
About azure backup
Help
Online Protection
Options
Help
Production Servers
Protected: 0
Unprotected: 1
Upgrade available: 0
Disk Storage
Number of disks: 0
Number of volumes/folders: 1
Total capacity: 99.93 GB
3.38 GB
96.54 GB
Online
Registration status: Registered
Azure backup agent version: 2.0.9145.0
Used space: 0 KB
Subscription Id:
Search list below
Search in details also (Slow)
Status
Name
Used Space
Online subscriptions:
Azure Backup 0 KB

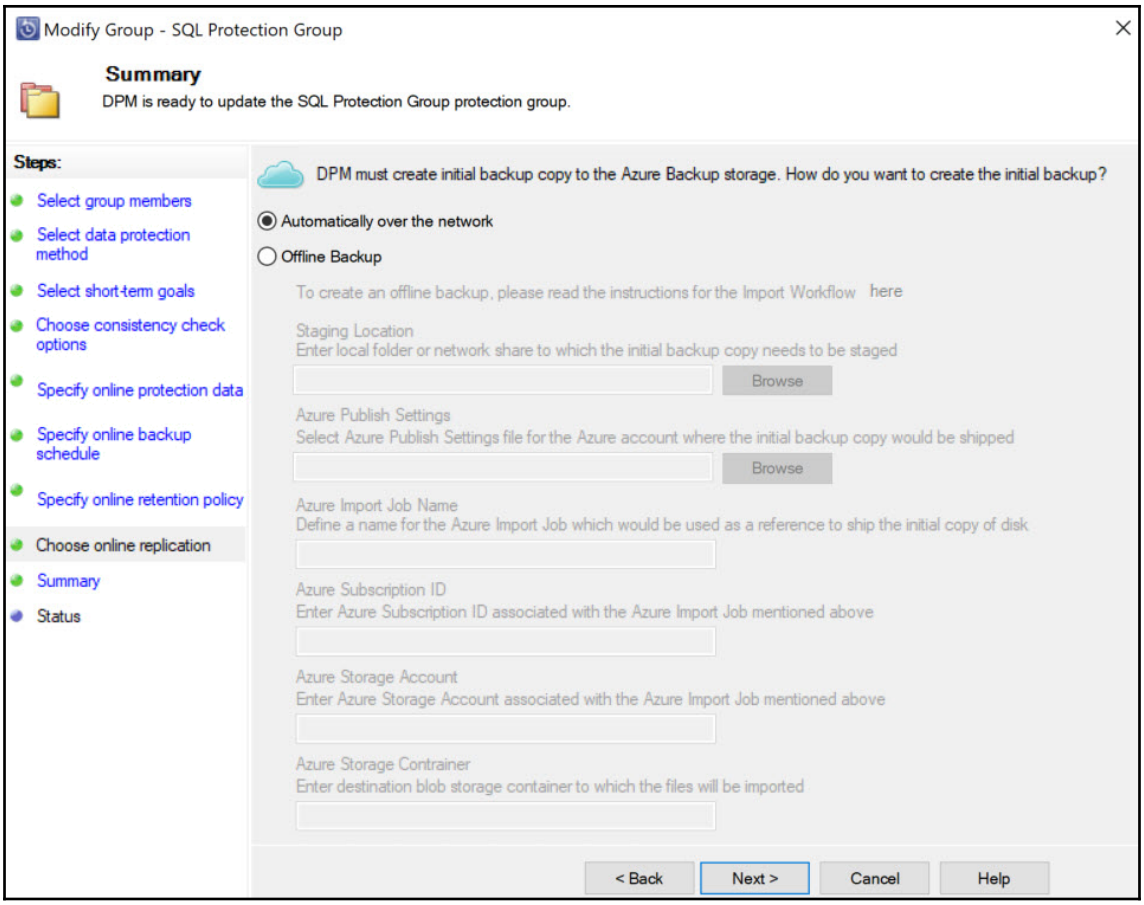

Modify Group - SQL Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Protection group name:
SQL Protection Group
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
I want long-term protection using tape
Protection using tape options are disabled as no tape libraries were detected or the protection group contains data sources that cannot be protected on tape.
< Back
Next >
Cancel
Help

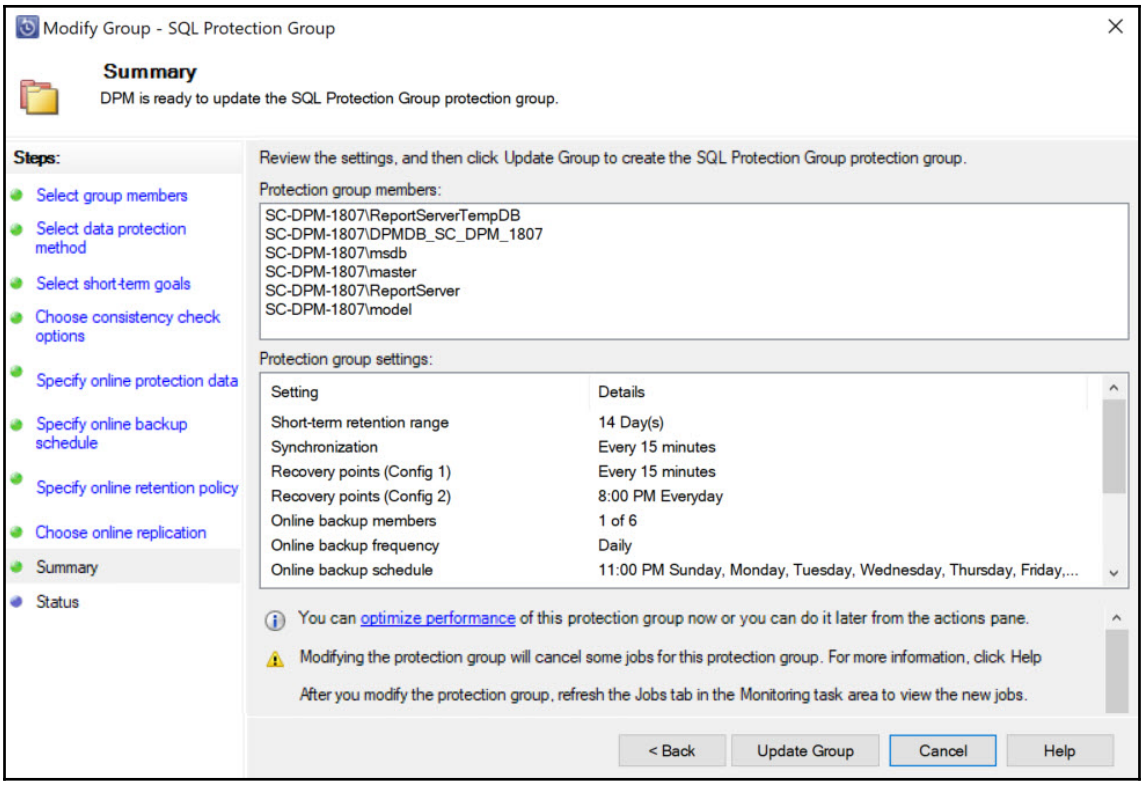

Modify Group - SQL Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
14
days
Synchronization frequency:
Every
15 minutes
Just before a recovery point
Application recovery points
For applications the recovery point is as per synchronization frequency when they support incremental, otherwise the recovery point is as per express full backup.
Recovery points:
Based on synchronization frequency (Every 15 minutes)
Express Full Backup:
8:00 PM Everyday
Modify ...
Recovery points will be created for some members in the protection group based on the express full backup schedule. To view members for which full backup is supported, click view members. This list includes Exchange Servers for which copy backup is specified.
< Back
Next >
Cancel
Help

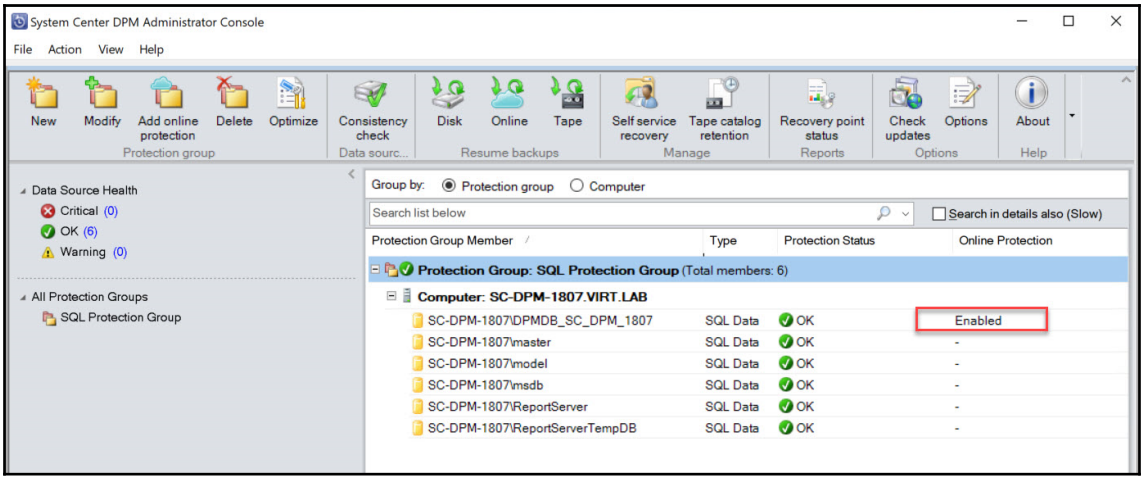

Modify Group - SQL Protection Group
Specify Online Protection Data
Specify the data that you would like DPM to help protect online.
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Select the data source you want to protect online.
Protect auto protected SQL DBs, VMs to disk to cloud automatically
Selected members
Computer
SC-DPM-1807\ReportServerTempDB
SC-DPM-1807.VIRT.LAB
SC-DPM-1807\DPMDB_SC_DPM_1807
SC-DPM-1807.VIRT.LAB
SC-DPM-1807\msdb
SC-DPM-1807.VIRT.LAB
SC-DPM-1807\master
SC-DPM-1807.VIRT.LAB
SC-DPM-1807\ReportServer
SC-DPM-1807.VIRT.LAB
SC-DPM-1807\model
SC-DPM-1807.VIRT.LAB
Select All
Deselect All
< Back
Next >
Cancel
Help

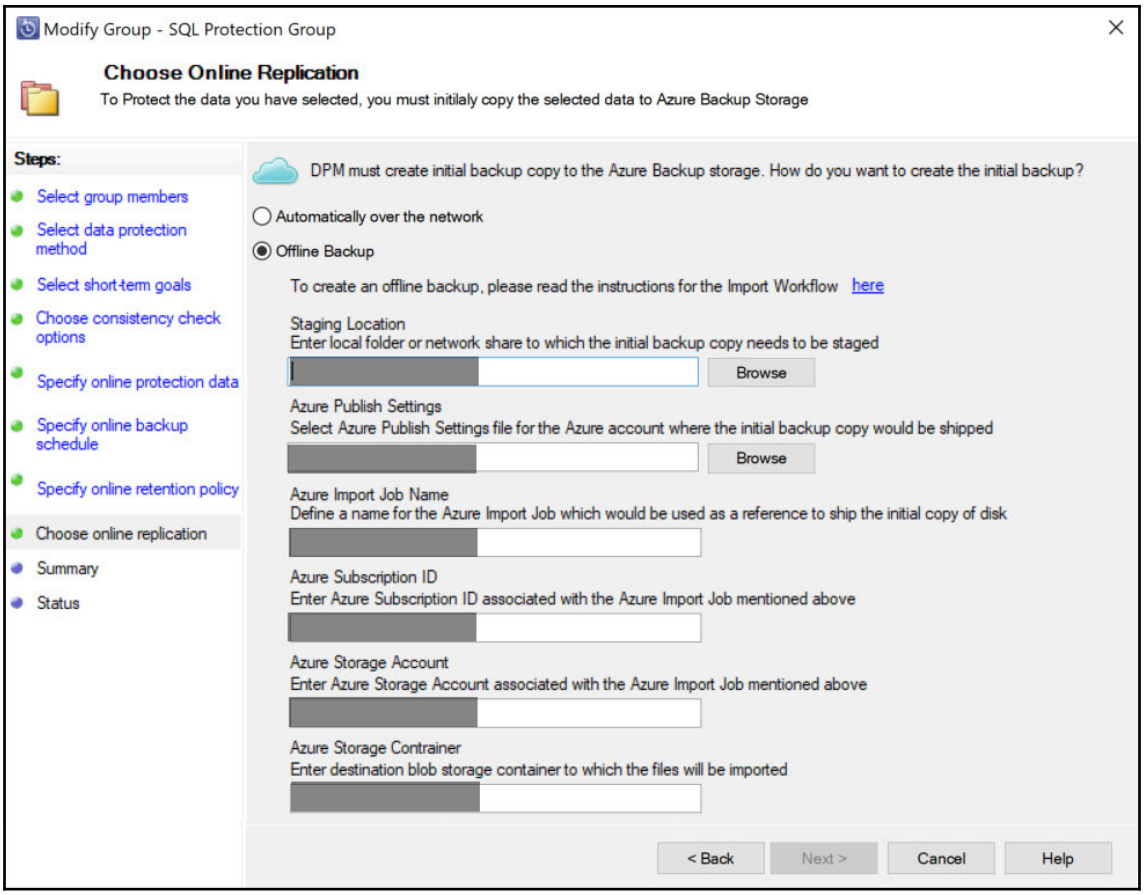

Modify Group - SQL Protection Group
Specify Online Backup Schedule
Specify online backup schedule which DPM will use to generate your protection plan
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Define the schedule when you want to create a backup copy
Schedule a backup every
Day
Week
Month
Year
At following times (Maximum allowed is two times a day)
11:00 PM
None
DPM will create an online recovery point using the latest DPM replica on disk. No new data will be transferred from the protected computers. If you would like DPM to help protect the latest computer data online, please create a new recovery point on disk before creating an online recovery point.
< Back
Next >
Cancel
Help

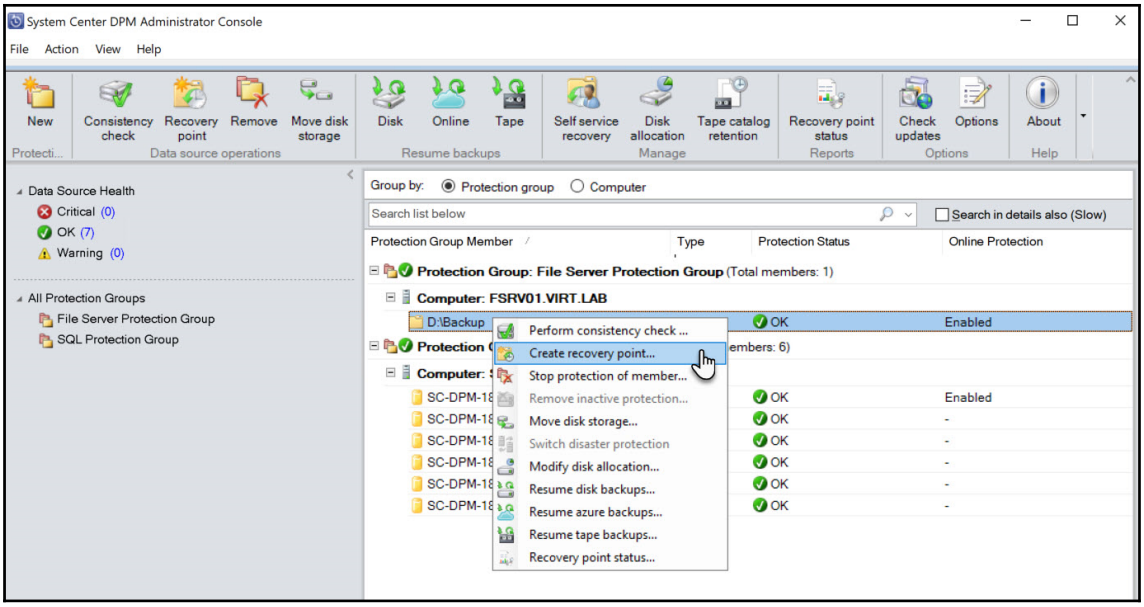

Modify Group - SQL Protection Group
Specify Online Backup Schedule
Specify online backup schedule which DPM will use to generate your protection plan
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Specify the retention policy which DPM will use to generate your protection plan
Daily Retention policy
Retain backup copies taken on
At 11:00 PM for 180 Days
Weekly Retention Policy
Retain backup copies taken on
Saturday
Modify
At 11:00 PM for 104 Weeks
Monthly Retention Policy
Retain backup copies taken on
Last Saturday
Modify
At 11:00 PM for 60 Months
Day(s) 1
Modify
Yearly Retention Policy
Retain backup copies taken on
Last Saturday of March
Modify
At 11:00 PM for 10 Years
Day(s) 1 of March
Modify
< Back
Next >
Cancel
Help

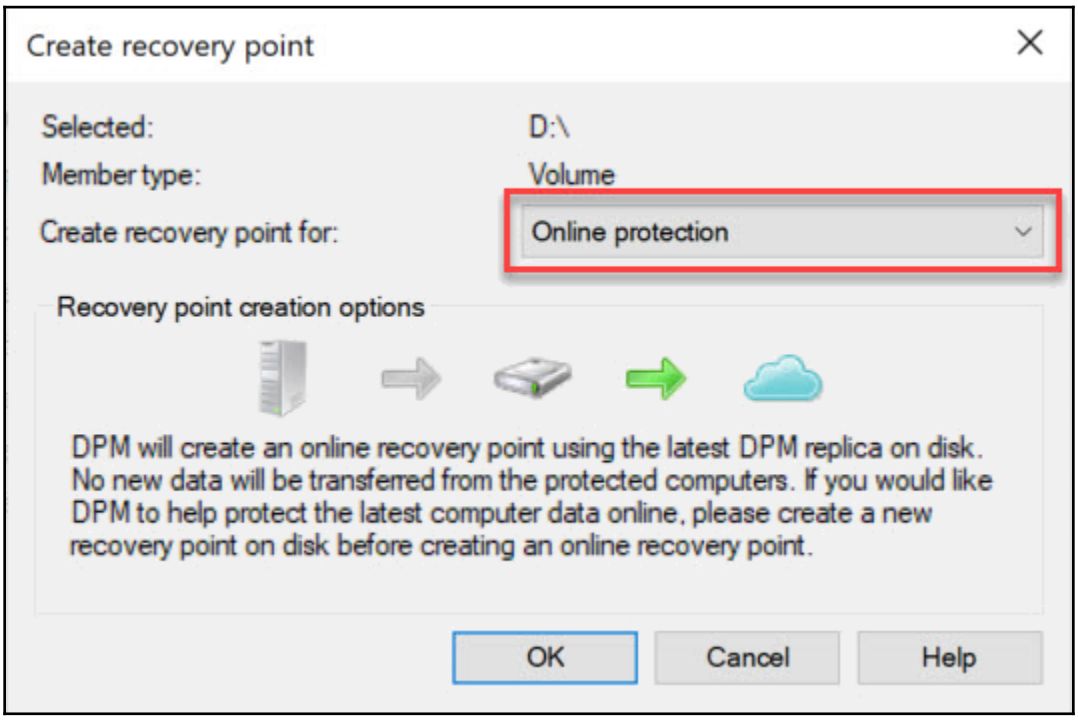

Modify Group - SQL Protection Group
Summary
DPM is ready to update the SQL Protection Group protection group.
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
DPM must create initial backup copy to the Azure Backup storage. How do you want to create the initial backup?
Automatically over the network
Offline Backup
To create an offline backup, please read the instructions for the Import Workflow here
Staging Location
Enter local folder or network share to which the initial backup copy needs to be staged
Browse
Azure Publish Settings
Select Azure Publish Settings file for the Azure account where the initial backup copy would be shipped
Browse
Azure Import Job Name
Define a name for the Azure Import Job which would be used as a reference to ship the initial copy of disk
Azure Subscription ID
Enter Azure Subscription ID associated with the Azure Import Job mentioned above
Azure Storage Account
Enter Azure Storage Account associated with the Azure Import Job mentioned above
Azure Storage Contrainer
Enter destination blob storage container to which the files will be imported
< Back
Next >
Cancel
Help

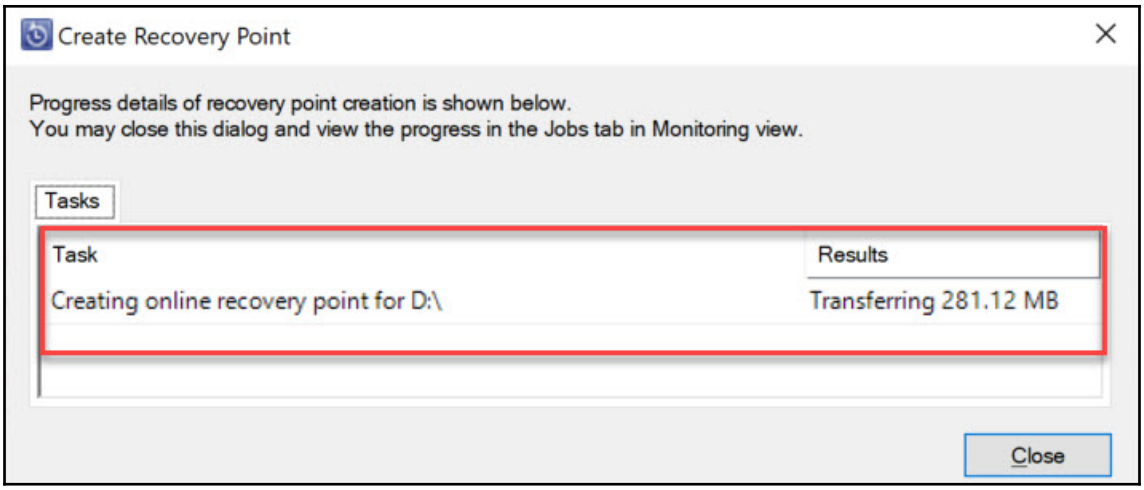

Modify Group - SQL Protection Group
Summary
DPM is ready to update the SQL Protection Group protection group.
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
Review the settings, and then click Update Group to create the SQL Protection Group protection group.
Protection group members:
SC-DPM-1807\ReportServerTempDB
SC-DPM-1807\DPMDB_SC_DPM_1807
SC-DPM-1807\msdb
SC-DPM-1807\master
SC-DPM-1807\ReportServer
SC-DPM-1807\model
Protection group settings:
Setting
Details
Short-term retention range
14 Day(s)
Synchronization
Every 15 minutes
Recovery points (Config 1)
Every 15 minutes
Recovery points (Config 2)
8:00 PM Everyday
Online backup members
1 of 6
Online backup frequency
Daily
Online backup schedule
11:00 PM Sunday, Monday, Tuesday, Wednesday, Thursday, Friday,...
You can optimize performance of this protection group now or you can do it later from the actions pane.
Modifying the protection group will cancel some jobs for this protection group. For more information, click Help
After you modify the protection group, refresh the Jobs tab in the Monitoring task area to view the new jobs.
< Back
Update Group
Cancel
Help

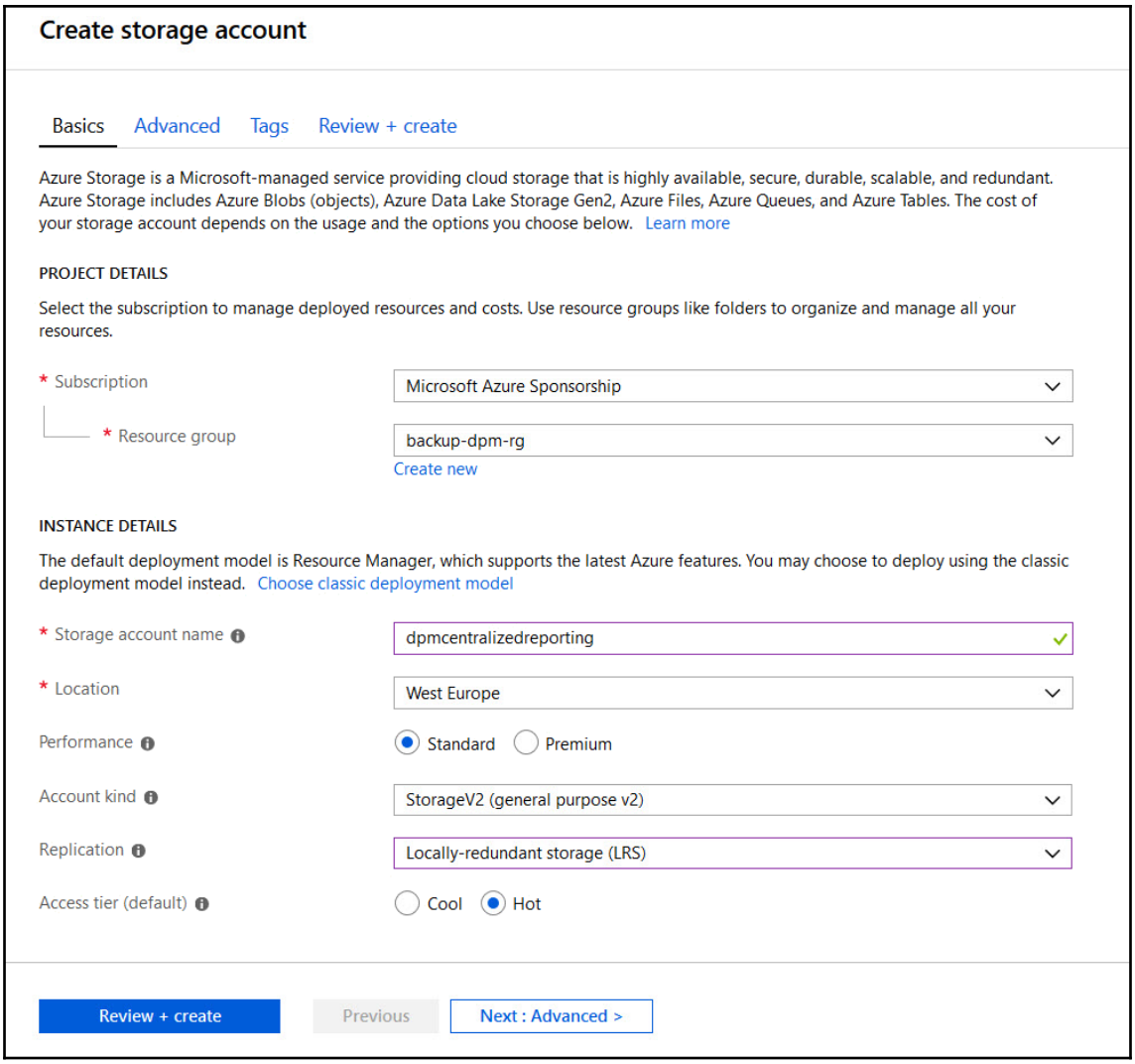

System Center DPM Administrator Console
File
Action
View
Help
New
Modify
Add online protection
Delete
Optimize
Protection group
Consistency check
Data sourc...
Disk
Online
Tape
Resume backups
Self service recovery
Tape catalog retention
Manage
Recovery point status
Reports
Check updates
Options
Options
About
Help
Data Source Health
Critical (0)
OK (6)
Warning (0)
All Protection Groups
SQL Protection Group
Group by:
Protection group
Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: SQL Protection Group (Total members: 6)
Computer: SC-DPM-1807.VIRT.LAB
SC-DPM-1807\DPMDB_SC_DPM_1807
SQL Data
OK
Enabled
SC-DPM-1807\master
SQL Data
OK
-
SC-DPM-1807\model
SQL Data
OK
-
SC-DPM-1807\msdb
SQL Data
OK
-
SC-DPM-1807\ReportServer
SQL Data
OK
-
SC-DPM-1807\ReportServerTempDB
SQL Data
OK
-

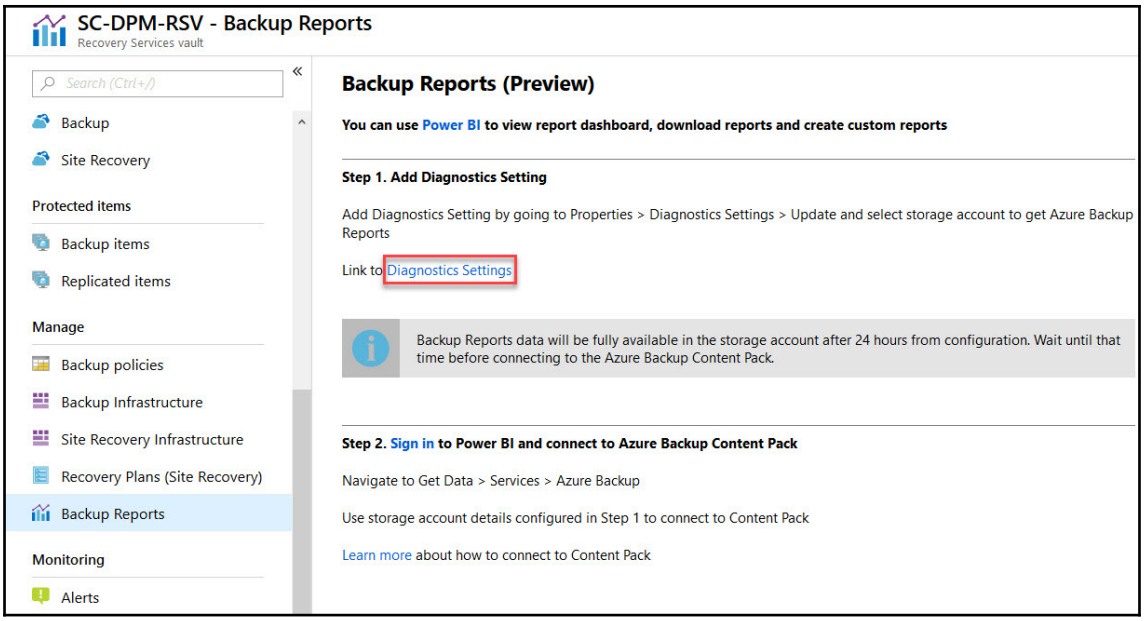

Modify Group - SQL Protection Group
Choose Online Replication
To Protect the data you have selected, you must initilaly copy the selected data to Azure Backup Storage
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online backup schedule
Specify online retention policy
Choose online replication
Summary
Status
DPM must create initial backup copy to the Azure Backup storage. How do you want to create the initial backup?
Automatically over the network
Offline Backup
To create an offline backup, please read the instructions for the Import Workflow here
Staging Location
Enter local folder or network share to which the initial backup copy needs to be staged
Browse
Azure Publish Settings
Select Azure Publish Settings file for the Azure account where the initial backup copy would be shipped
Browse
Azure Import Job Name
Define a name for the Azure Import Job which would be used as a reference to ship the initial copy of disk
Azure Subscription ID
Enter Azure Subscription ID associated with the Azure Import Job mentioned above
Azure Storage Account
Enter Azure Storage Account associated with the Azure Import Job mentioned above
Azure Storage Contrainer
Enter destination blob storage container to which the files will be imported
< Back
Next >
Cancel
Help

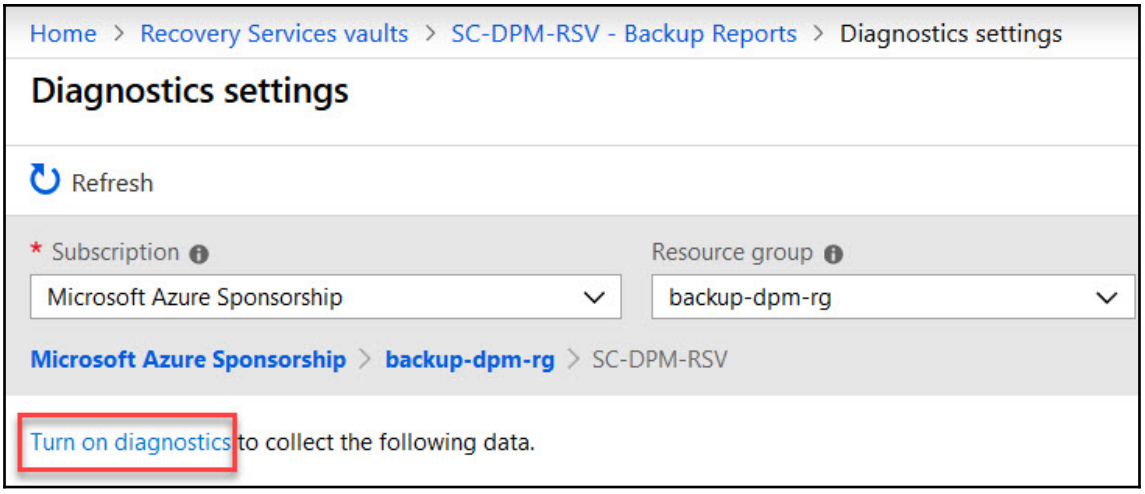

System Center DPM Administrator Console
File Action View Help
New
Consistency check
Recovery point
Remove
Move disk storage
Disk
Online
Tape
Self service recovery
Disk allocation
Tape catalog retention
Recovery point status
Check updates
Options
About
Protecti...
Data source operations
Resume backups
Manage
Reports
Options
Help
Data Source Health
Critical (0)
OK (7)
Warning (0)
All Protection Groups
File Server Protection Group
SQL Protection Group
Group by: Protection group Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: File Server Protection Group (Total members: 1)
Computer: FSRV01.VIRT.LAB
D:\Backup
OK
Enabled
Perform consistency check ...
Create recovery point...
Stop protection of member...
Remove inactive protection...
Move disk storage...
Switch disaster protection
Modify disk allocation...
Resume disk backups...
Resume azure backups...
Resume tape backups...
Recovery point status...
SC-DPM-18
OK
Enabled
OK
-

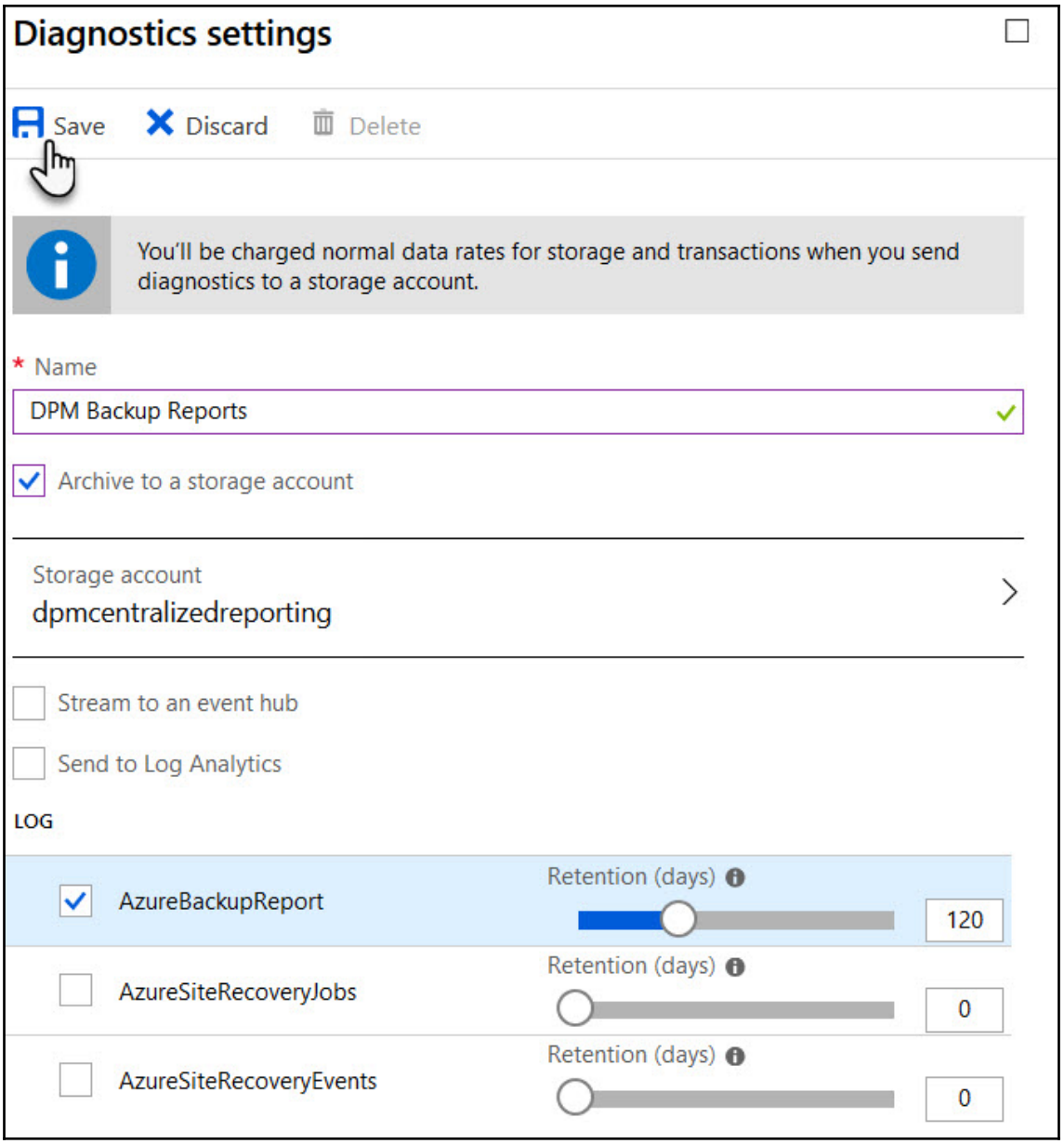

Create recovery point
Selected:
D:\
Member type:
Volume
Create recovery point for:
Online protection
Recovery point creation options
DPM will create an online recovery point using the latest DPM replica on disk. No new data will be transferred from the protected computers. If you would like DPM to help protect the latest computer data online, please create a new recovery point on disk before creating an online recovery point.
OK
Cancel
Help

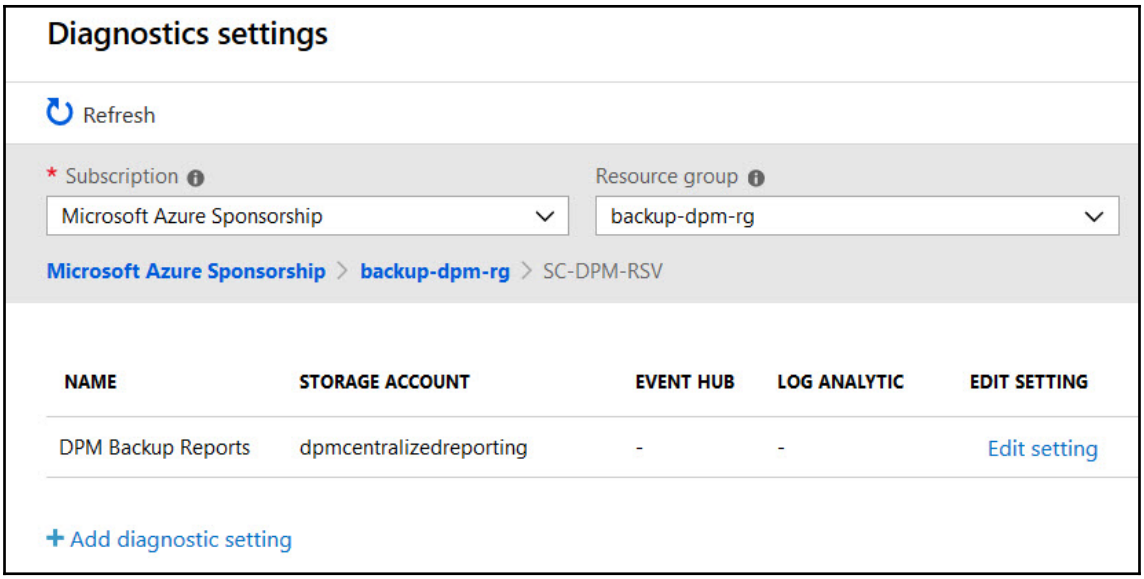

Create Recovery Point
Progress details of recovery point creation is shown below.
You may close this dialog and view the progress in the Jobs tab in Monitoring view.
Tasks
Task
Results
Creating online recovery point for D:\
Transferring 281.12 MB
Close

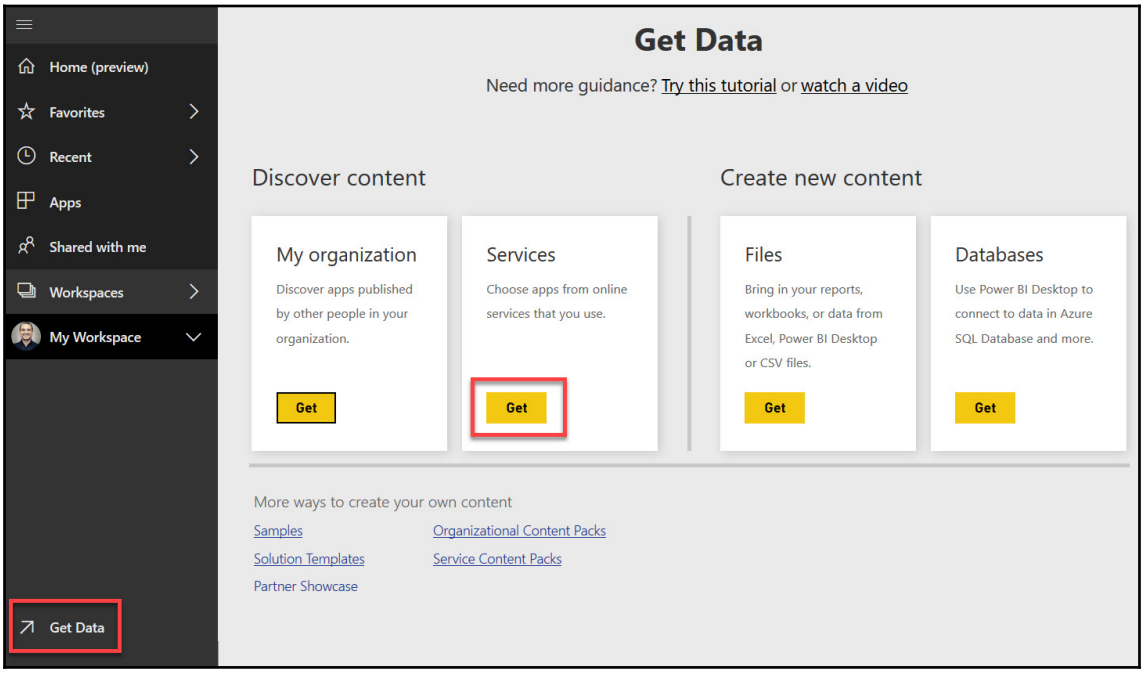

Create storage account
Basics
Advanced
Tags
Review + create
Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. Learn more
PROJECT DETAILS
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
* Subscription
Microsoft Azure Sponsorship
* Resource group
backup-dpm-rg
Create new
INSTANCE DETAILS
The default deployment model is Resource Manager, which supports the latest Azure features. You may choose to deploy using the classic deployment model instead. Choose classic deployment model
* Storage account name
dpmcentralizedreporting
* Location
West Europe
Performance
Standard
Premium
Account kind
StorageV2 (general purpose v2)
Replication
Locally-redundant storage (LRS)
Access tier (default)
Cool
Hot
Review + create
Previous
Next : Advanced >

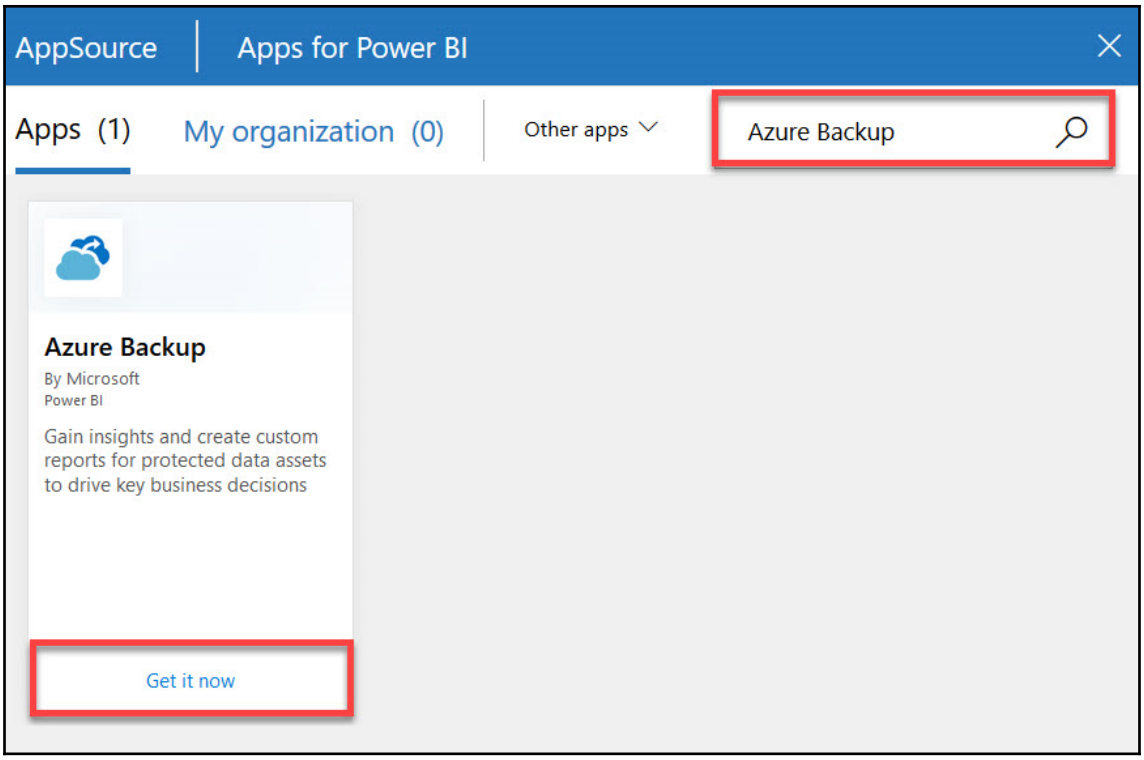

SC-DPM-RSV - Backup Reports
Recovery Services vault
Search (Ctrl+/)
Backup
Site Recovery
Protected items
Backup items
Replicated items
Manage
Backup policies
Backup Infrastructure
Site Recovery Infrastructure
Recovery Plans (Site Recovery)
Backup Reports
Monitoring
Alerts
Backup Reports (Preview)
You can use Power BI to view report dashboard, download reports and create custom reports
Step 1. Add Diagnostics Setting
Add Diagnostics Setting by going to Properties > Diagnostics Settings > Update and select storage account to get Azure Backup Reports
Link to Diagnostics Settings
Backup Reports data will be fully available in the storage account after 24 hours from configuration. Wait until that time before connecting to the Azure Backup Content Pack.
Step 2. Sign in to Power BI and connect to Azure Backup Content Pack
Navigate to Get Data > Services > Azure Backup
Use storage account details configured in Step 1 to connect to Content Pack
Learn more about how to connect to Content Pack

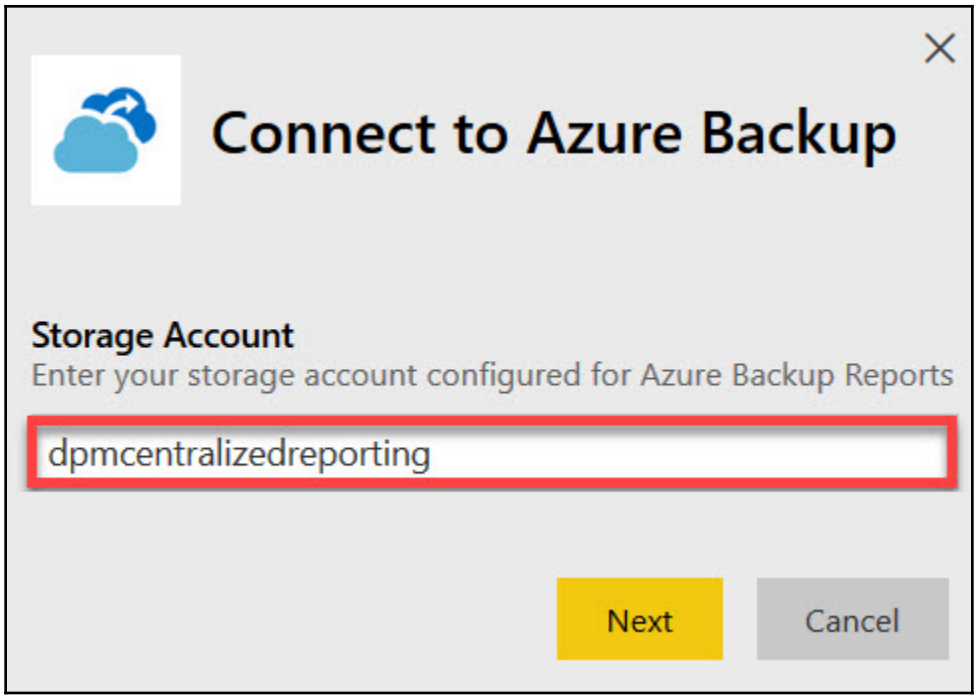

Home > Recovery Services vaults > SC-DPM-RSV - Backup Reports > Diagnostics settings
Diagnostics settings
Refresh
* Subscription
Microsoft Azure Sponsorship
Resource group
backup-dpm-rg
Microsoft Azure Sponsorship > backup-dpm-rg > SC-DPM-RSV
Turn on diagnostics to collect the following data.

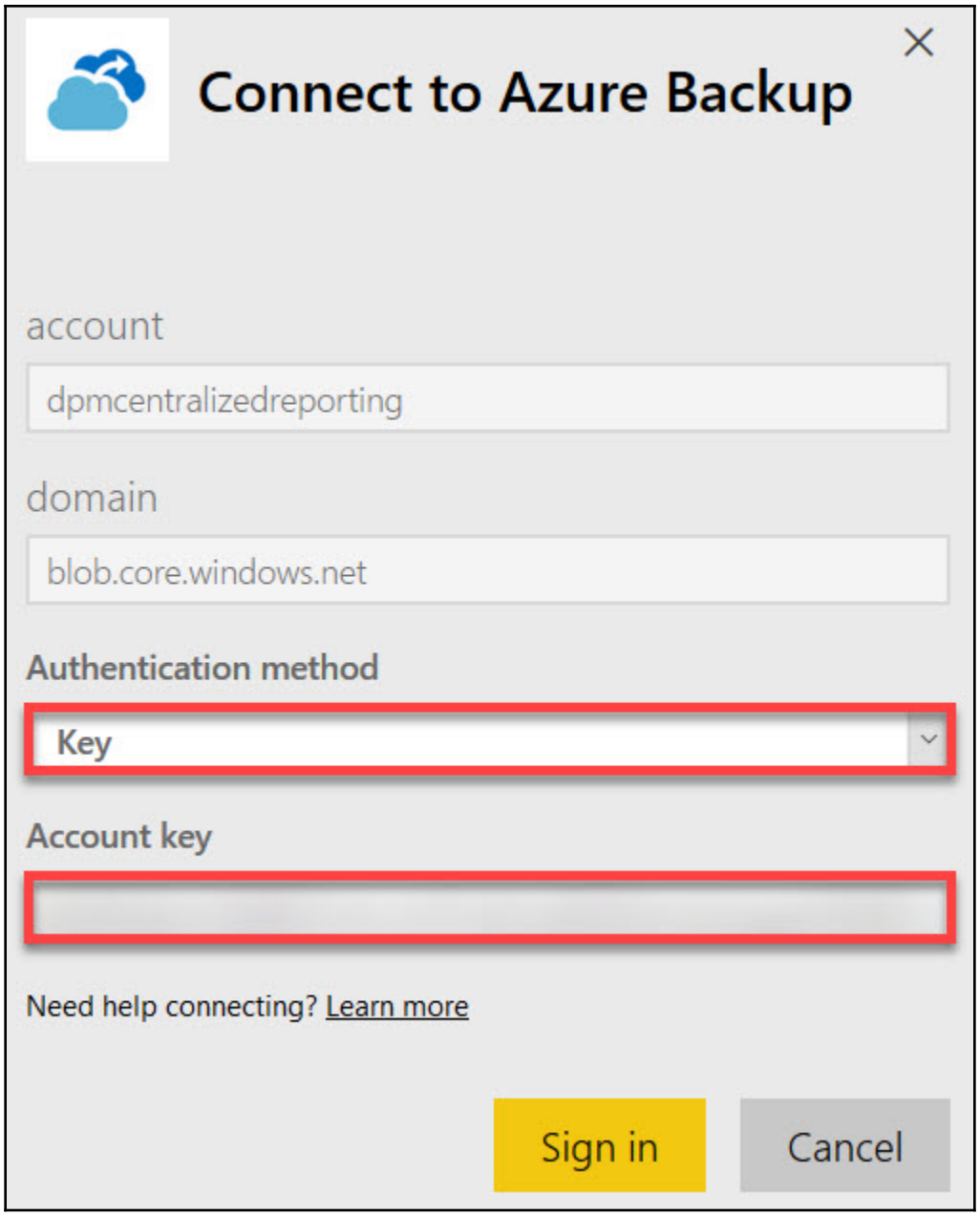

Diagnostics settings
Save
Discard
Delete
You'll be charged normal data rates for storage and transactions when you send diagnostics to a storage account.
* Name
DPM Backup Reports
Archive to a storage account
Storage account
dpmcentralizedreporting
Stream to an event hub
Send to Log Analytics
LOG
AzureBackupReport
Retention (days)
120
AzureSiteRecoveryJobs
Retention (days)
0
AzureSiteRecoveryEvents
Retention (days)
0

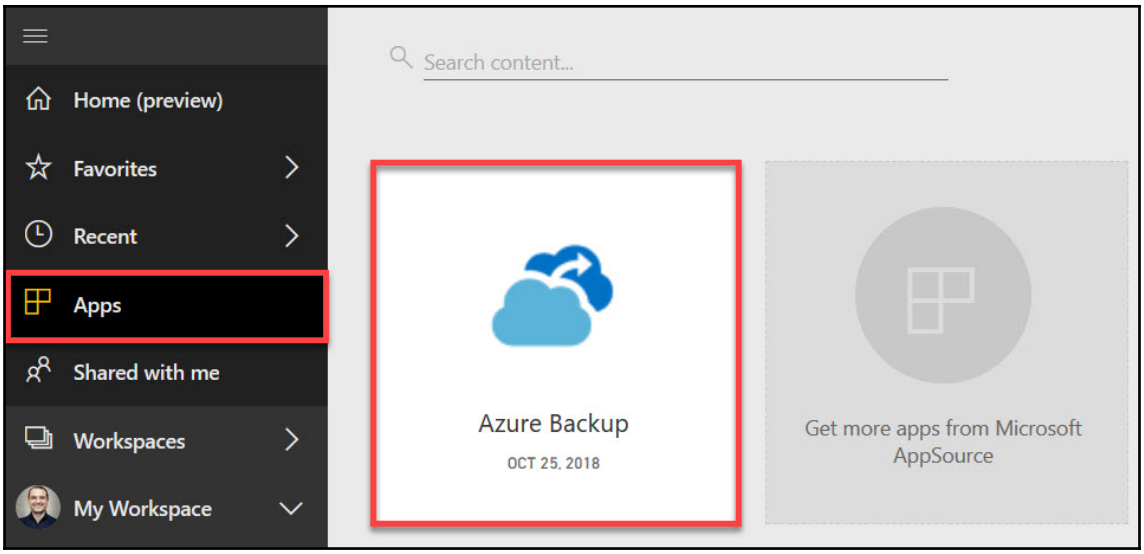

Diagnostics settings
Refresh
* Subscription
Microsoft Azure Sponsorship
Resource group
backup-dpm-rg
Microsoft Azure Sponsorship > backup-dpm-rg > SC-DPM-RSV
NAME
STORAGE ACCOUNT
EVENT HUB
LOG ANALYTIC
EDIT SETTING
DPM Backup Reports
dpmcentralizedreporting
-
-
Edit setting
+ Add diagnostic setting

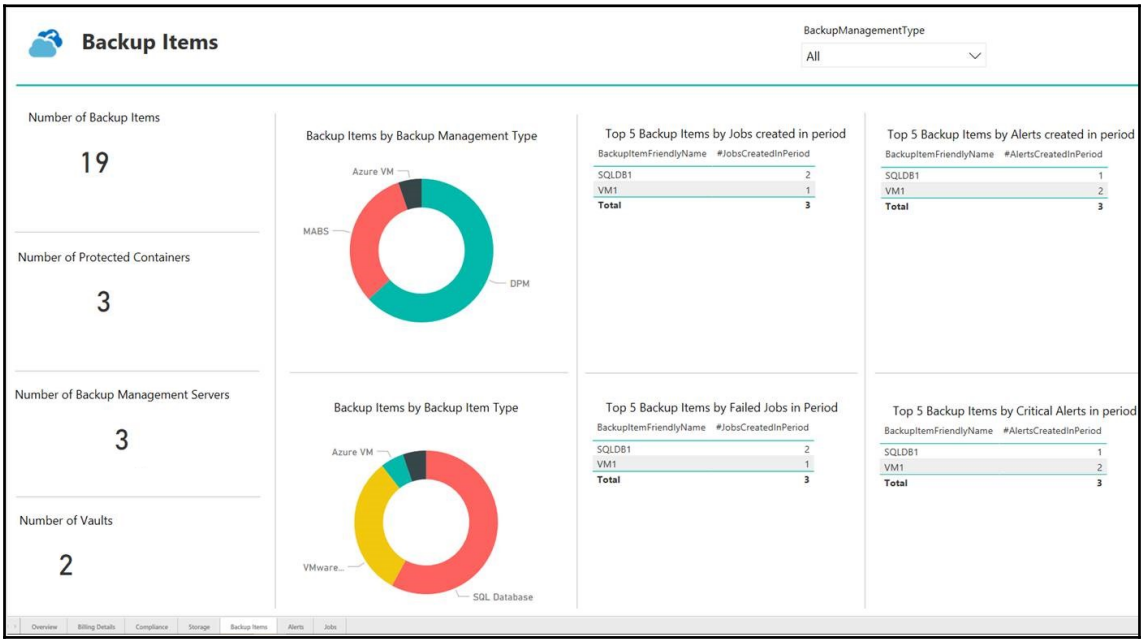

Home (preview)
Favorites
Recent
Apps
Shared with me
Workspaces
My Workspace
Get Data
Get Data
Need more guidance? Try this tutorial or watch a video
Discover content
Create new content
My organization
Discover apps published by other people in your organization.
Get
Services
Choose apps from online services that you use.
Get
Files
Bring in your reports, workbooks, or data from Excel, Power BI Desktop or CSV files.
Get
Databases
Use Power BI Desktop to connect to data in Azure SQL Database and more.
Get
More ways to create your own content
Samples
Solution Templates
Partner Showcase
Organizational Content Packs
Service Content Packs

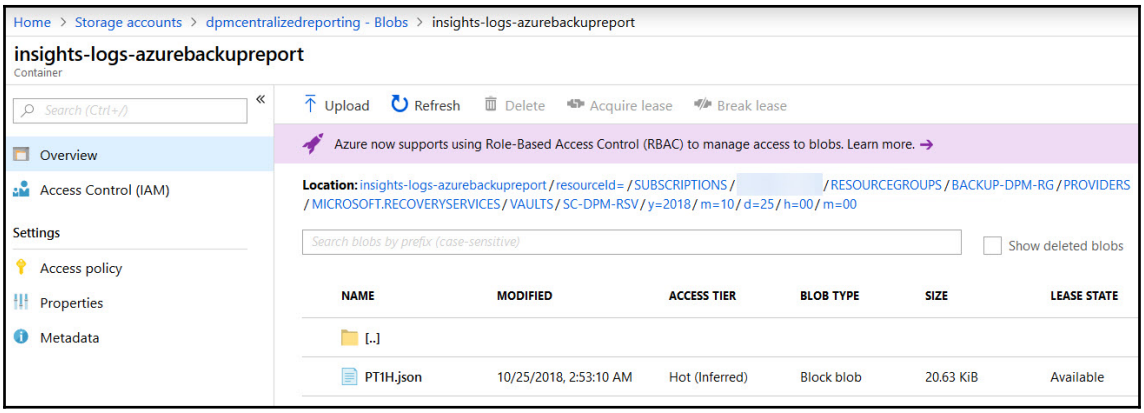

AppSource
Apps for Power BI
Apps (1)
My organization (0)
Other apps
Azure Backup
Azure Backup
By Microsoft
Power BI
Gain insights and create custom reports for protected data assets to drive key business decisions
Get it now

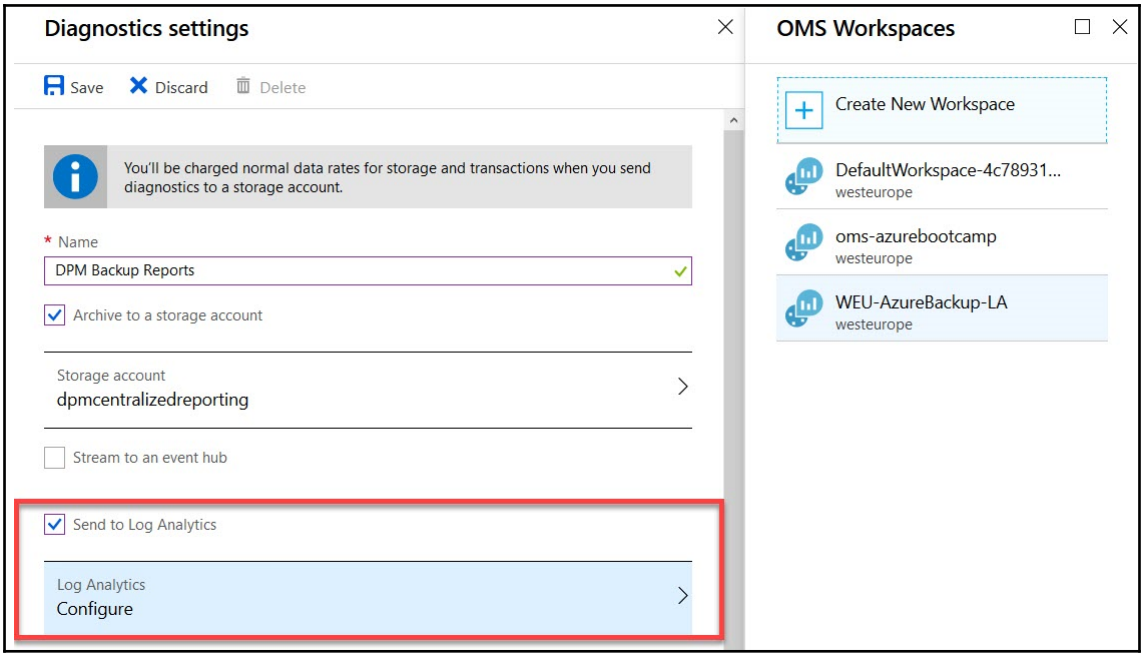

Connect to Azure Backup
Storage Account
Enter your storage account configured for Azure Backup Reports
dpmcentralizedreporting
Next
Cancel

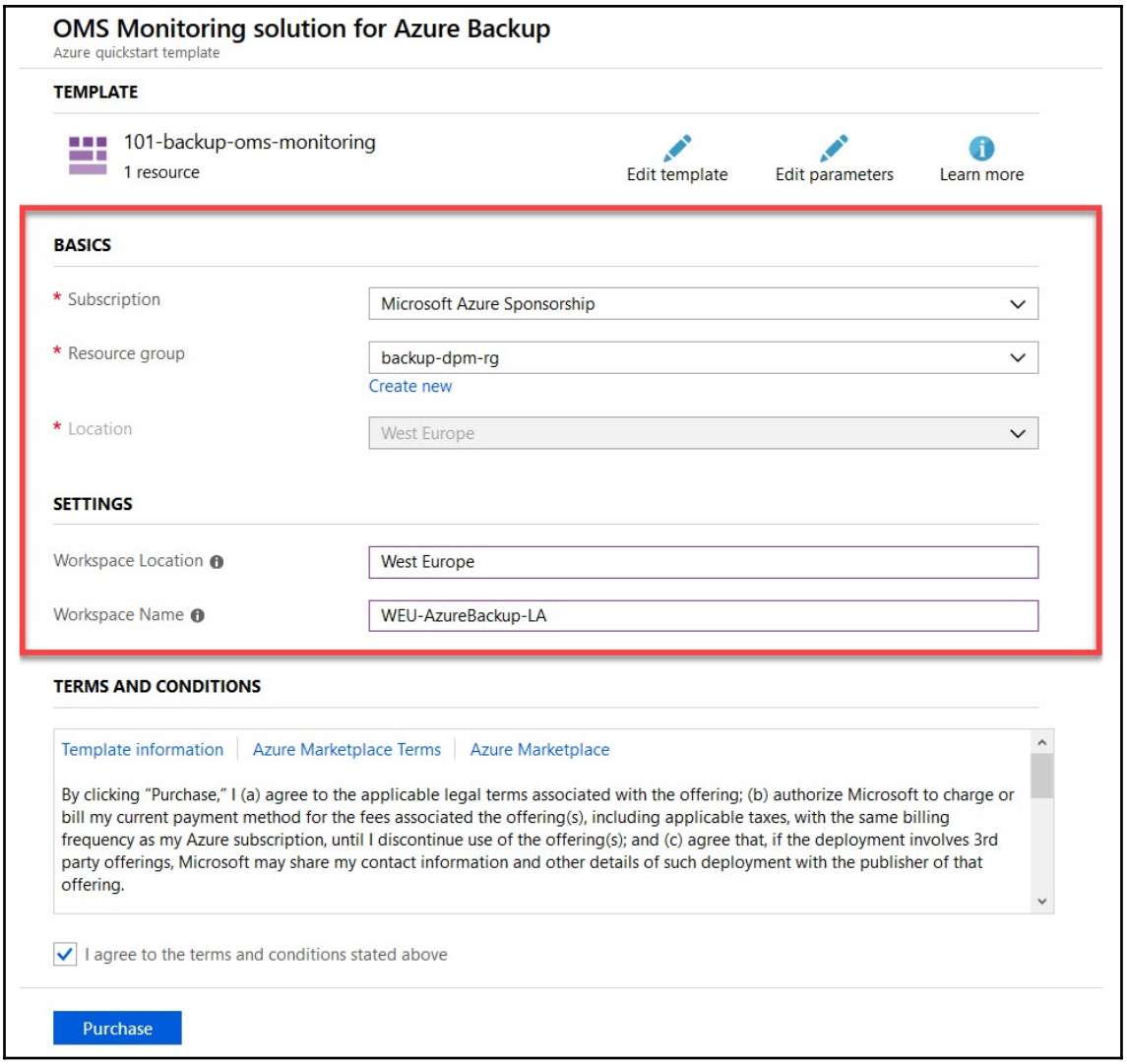

Connect to Azure Backup
account
dpmcentralizedreporting
domain
blob.core.windows.net
Authentication method
Key
Account key
Need help connecting? Learn more
Sign in
Cancel

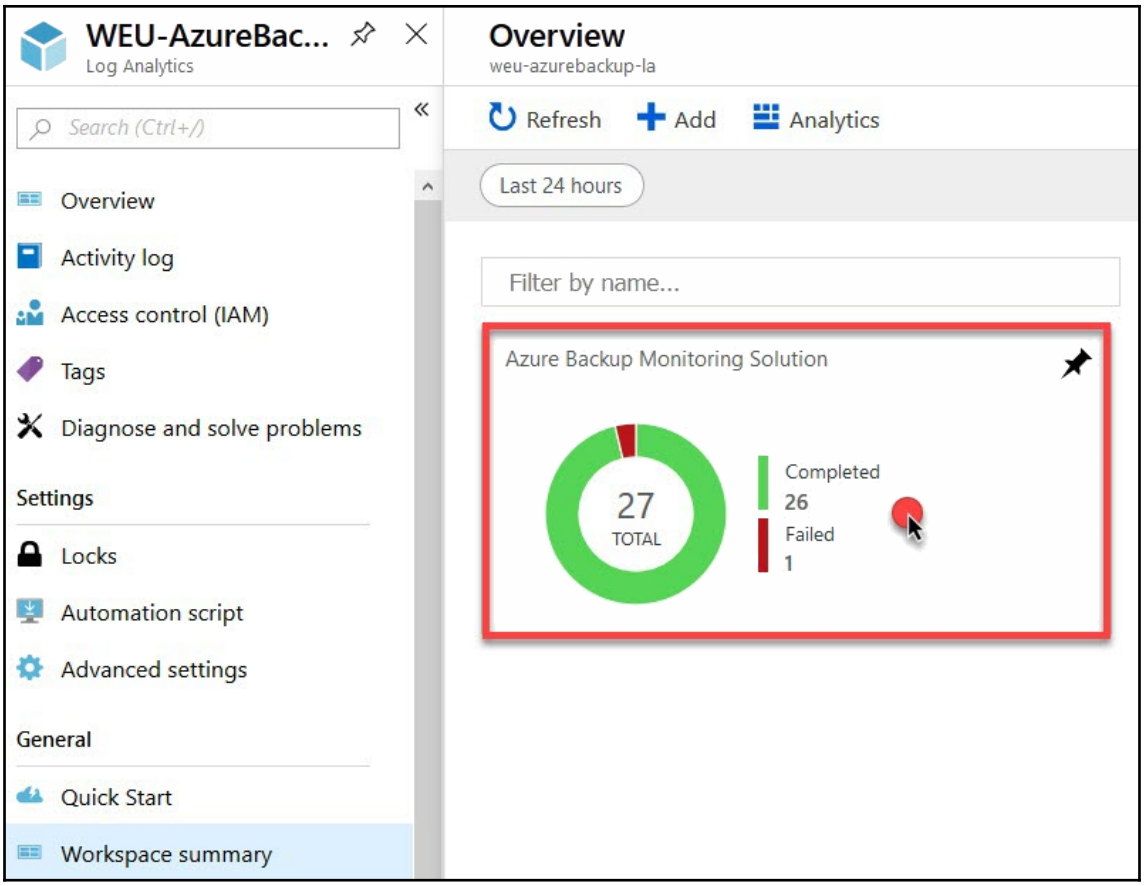

Search content...
Home (preview)
Favorites
Recent
Apps
Shared with me
Workspaces
My Workspace
Azure Backup
OCT 25, 2018
Get more apps from Microsoft AppSource

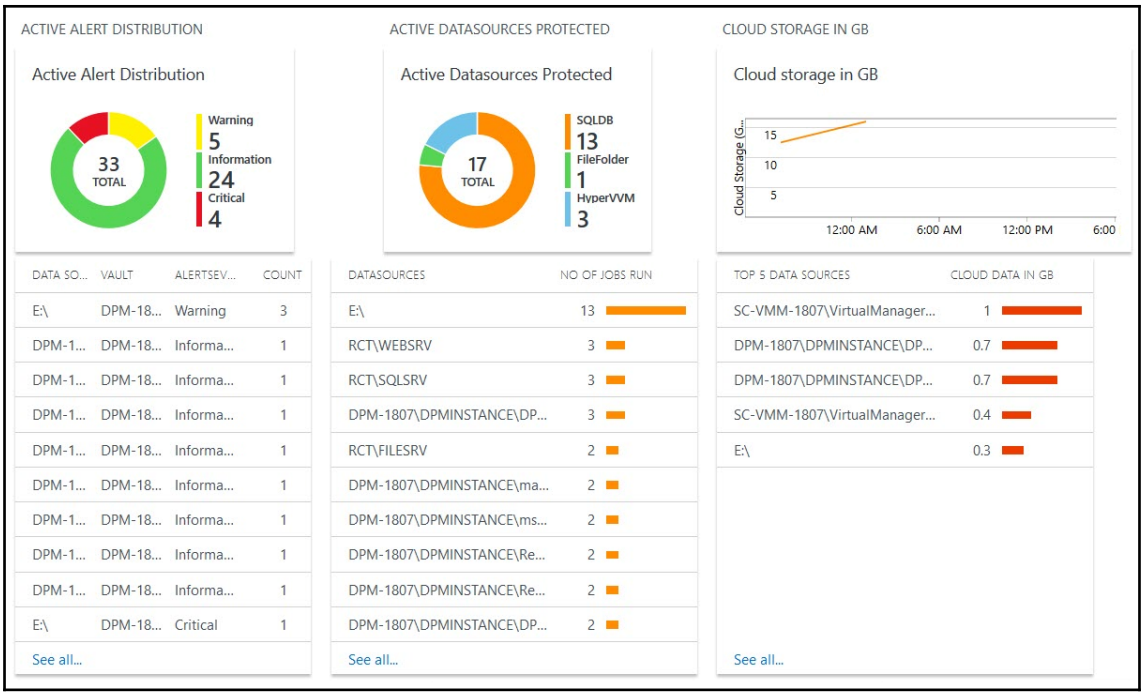

Backup Items
BackupManagementType
All
Number of Backup Items
19
Number of Protected Containers
3
Number of Backup Management Servers
3
Number of Vaults
2
Backup Items by Backup Management Type
Azure VM
MABS
DPM
Backup Items by Backup Item Type
Azure VM
VMware...
SQL Database
Top 5 Backup Items by Jobs created in period
BackupItemFriendlyName #JobsCreatedInPeriod
SQLDB1 2
VM1 1
Total 3
Top 5 Backup Items by Alerts created in period
BackupItemFriendlyName #AlertsCreatedInPeriod
SQLDB1 1
VM1 2
Total 3
Top 5 Backup Items by Failed Jobs in Period
BackupItemFriendlyName #JobsCreatedInPeriod
SQLDB1 2
VM1 1
Total 3
Top 5 Backup Items by Critical Alerts in period
BackupItemFriendlyName #AlertsCreatedInPeriod
SQLDB1 1
VM1 2
Total 3
Overview
Billing Details
Compliance
Storage
Backup Items
Alerts
Jobs


Home > Storage accounts > dpmcentralizedreporting - Blobs > insights-logs-azurebackupreport
insights-logs-azurebackupreport
Container
Search (Ctrl+/)
Overview
Access Control (IAM)
Settings
Access policy
Properties
Metadata
Upload
Refresh
Delete
Acquire lease
Break lease
Azure now supports using Role-Based Access Control (RBAC) to manage access to blobs. Learn more.
Location: insights-logs-azurebackupreport / resourceId= / SUBSCRIPTIONS / / RESOURCEGROUPS / BACKUP-DPM-RG / PROVIDERS / MICROSOFT.RECOVERYSERVICES / VAULTS / SC-DPM-RSV / y=2018 / m=10 / d=25 / h=00 / m=00
Search blobs by prefix (case-sensitive)
Show deleted blobs
NAME
MODIFIED
ACCESS TIER
BLOB TYPE
SIZE
LEASE STATE
[..]
PT1H.json
10/25/2018, 2:53:10 AM
Hot (Inferred)
Block blob
20.63 KiB
Available


Diagnostics settings
Save
Discard
Delete
You'll be charged normal data rates for storage and transactions when you send diagnostics to a storage account.
* Name
DPM Backup Reports
Archive to a storage account
Storage account
dpmcentralizedreporting
Stream to an event hub
Send to Log Analytics
Log Analytics
Configure
OMS Workspaces
Create New Workspace
DefaultWorkspace-4c78931...
westeurope
oms-azurebootcamp
westeurope
WEU-AzureBackup-LA
westeurope


OMS Monitoring solution for Azure Backup
Azure quickstart template
TEMPLATE
101-backup-oms-monitoring
1 resource
Edit template
Edit parameters
Learn more
BASICS
* Subscription
Microsoft Azure Sponsorship
* Resource group
backup-dpm-rg
Create new
* Location
West Europe
SETTINGS
Workspace Location
West Europe
Workspace Name
WEU-AzureBackup-LA
TERMS AND CONDITIONS
Template information
Azure Marketplace Terms
Azure Marketplace
By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.
I agree to the terms and conditions stated above
Purchase


WEU-AzureBac...
Log Analytics
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Locks
Automation script
Advanced settings
General
Quick Start
Workspace summary
Overview
weu-azurebackup-la
Refresh
Add
Analytics
Last 24 hours
Filter by name...
Azure Backup Monitoring Solution
27
TOTAL
Completed
26
Failed
1


ACTIVE ALERT DISTRIBUTION
Active Alert Distribution
33
TOTAL
Warning
5
Information
24
Critical
4
DATA SO... VAULT ALERTSEV... COUNT
E:\ DPM-18... Warning 3
DPM-1... DPM-18... Informa... 1
DPM-1... DPM-18... Informa... 1
DPM-1... DPM-18... Informa... 1
DPM-1... DPM-18... Informa... 1
DPM-1... DPM-18... Informa... 1
DPM-1... DPM-18... Informa... 1
DPM-1... DPM-18... Informa... 1
DPM-1... DPM-18... Informa... 1
E:\ DPM-18... Critical 1
See all...
ACTIVE DATASOURCES PROTECTED
Active Datasources Protected
17
TOTAL
SQLDB
13
FileFolder
1
HyperVVM
3
DATASOURCES NO OF JOBS RUN
E:\ 13
RCT\WEBSRV 3
RCT\SQLSRV 3
DPM-1807\DPMINSTANCE\DP... 3
RCT\FILESRV 2
DPM-1807\DPMINSTANCE\ma... 2
DPM-1807\DPMINSTANCE\ms... 2
DPM-1807\DPMINSTANCE\Re... 2
DPM-1807\DPMINSTANCE\Re... 2
DPM-1807\DPMINSTANCE\DP... 2
See all...
CLOUD STORAGE IN GB
Cloud storage in GB
Cloud Storage (G...
15
10
5
12:00 AM
6:00 AM
12:00 PM
6:00
TOP 5 DATA SOURCES CLOUD DATA IN GB
SC-VMM-1807\VirtualManager... 1
DPM-1807\DPMINSTANCE\DP... 0.7
DPM-1807\DPMINSTANCE\DP... 0.7
SC-VMM-1807\VirtualManager... 0.4
E:\ 0.3
See all...