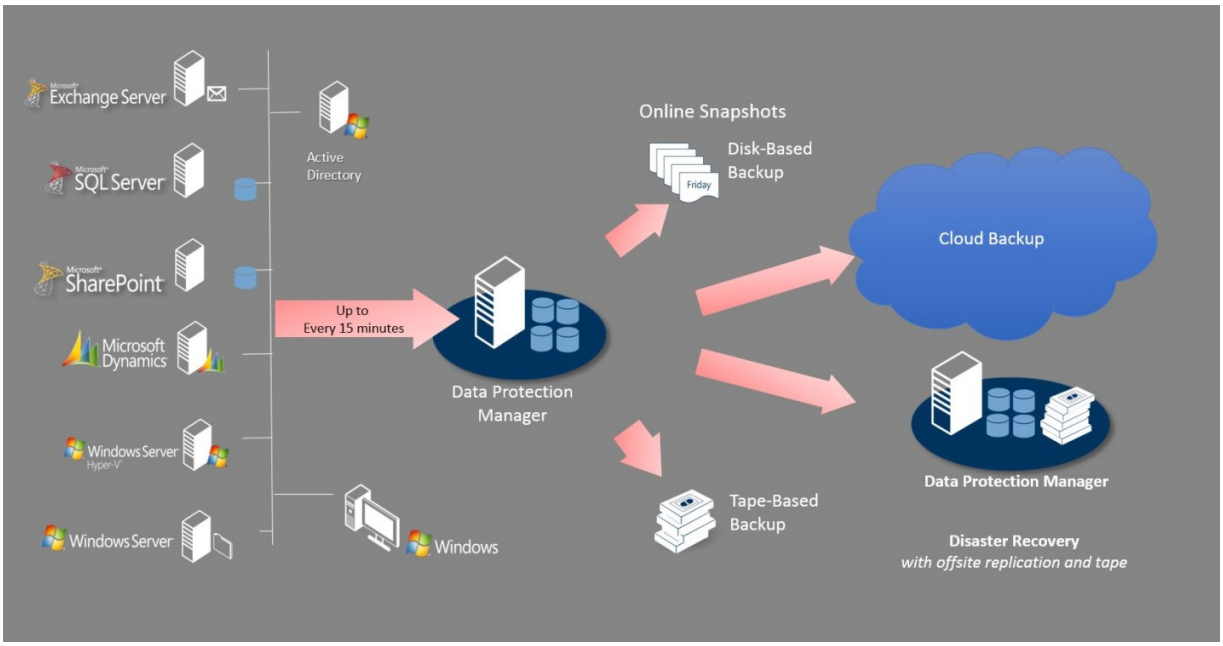
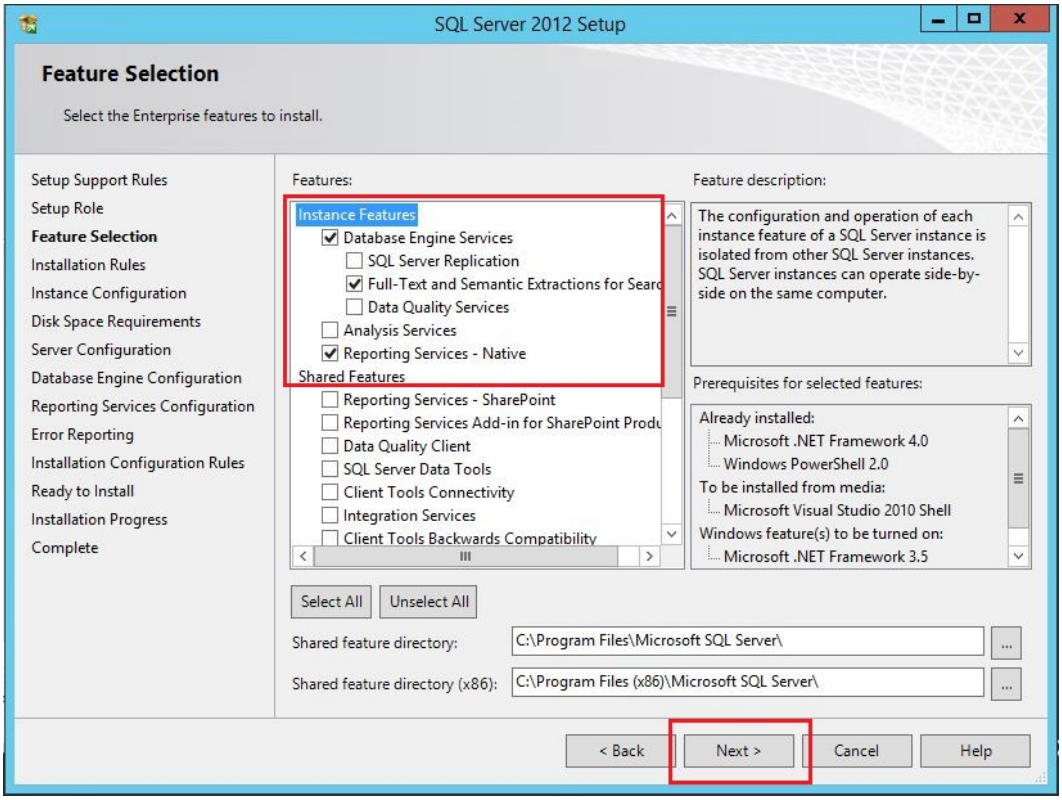
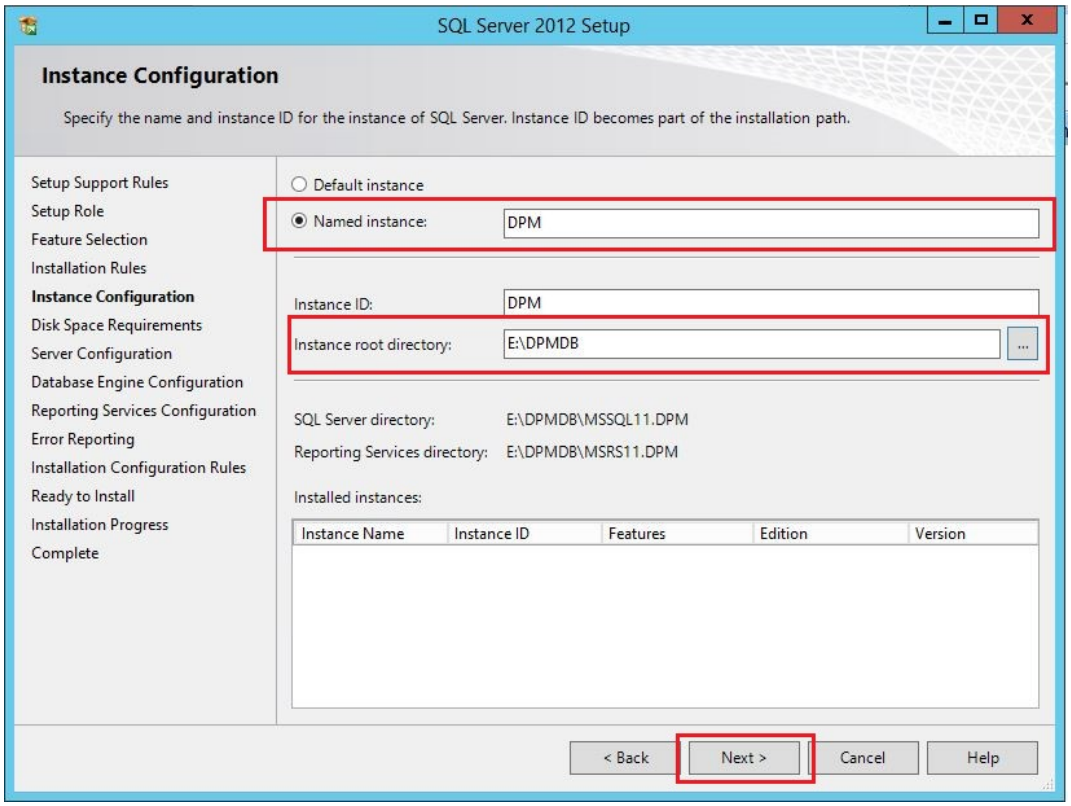
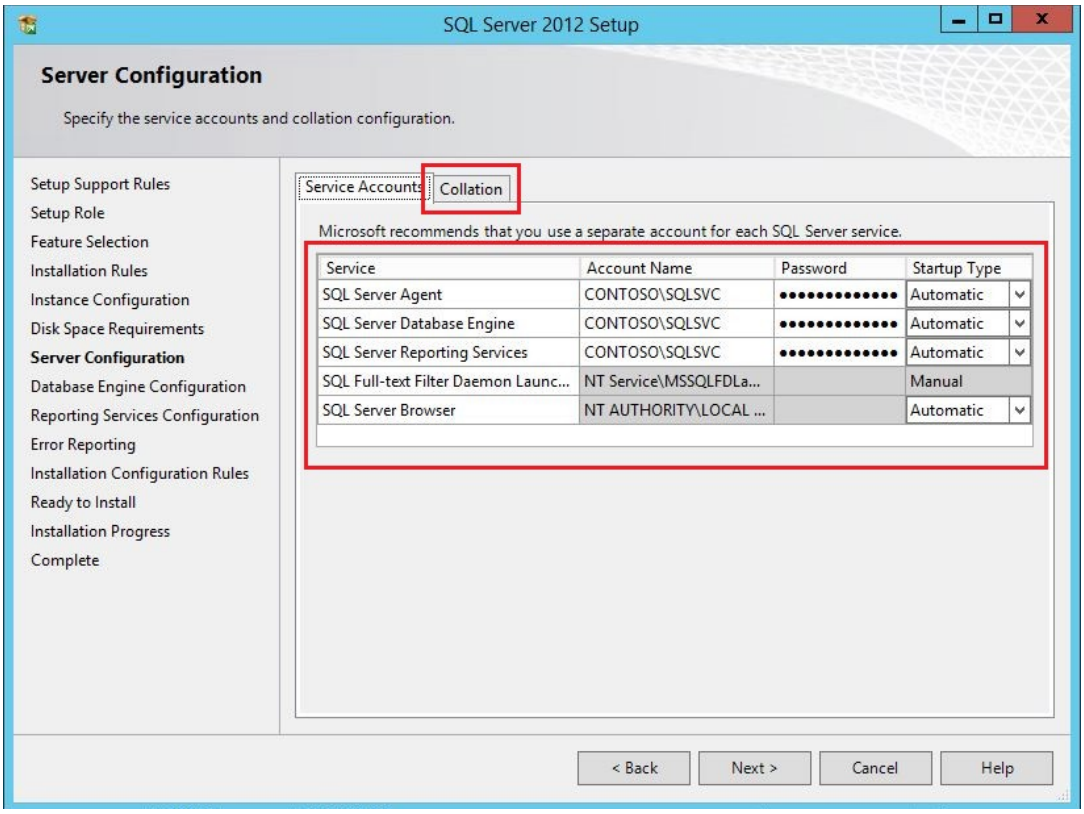
Chapter 1


Exchange Server
SQL Server
SharePoint
Microsoft Dynamics
Windows Server Hyper-V
Windows Server
Active Directory
Windows
Up to Every 15 minutes
Data Protection Manager
Online Snapshots
Disk-Based Backup
Friday
Cloud Backup
Tape-Based Backup
Data Protection Manager
Disaster Recovery
with offsite replication and tape

Chapter 2


SQL Server 2012 Setup
Feature Selection
Select the Enterprise features to install.
Setup Support Rules
Setup Role
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Error Reporting
Installation Configuration Rules
Ready to Install
Installation Progress
Complete
Features:
Instance Features
Database Engine Services
SQL Server Replication
Full-Text and Semantic Extractions for Searc
Data Quality Services
Analysis Services
Reporting Services - Native
Shared Features
Reporting Services - SharePoint
Reporting Services Add-in for SharePoint Produ
Data Quality Client
SQL Server Data Tools
Client Tools Connectivity
Integration Services
Client Tools Backwards Compatibility
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 the same computer.
Prerequisites for selected features:
Already installed:
Microsoft .NET Framework 4.0
Windows PowerShell 2.0
To be installed from media:
Microsoft Visual Studio 2010 Shell
Windows feature(s) to be turned on:
Microsoft .NET Framework 3.5
Select All
Unselect All
Shared feature directory:
C:\Program Files\Microsoft SQL Server\
Shared feature directory (x86):
C:\Program Files (x86)\Microsoft SQL Server\
< Back
Next >
Cancel
Help

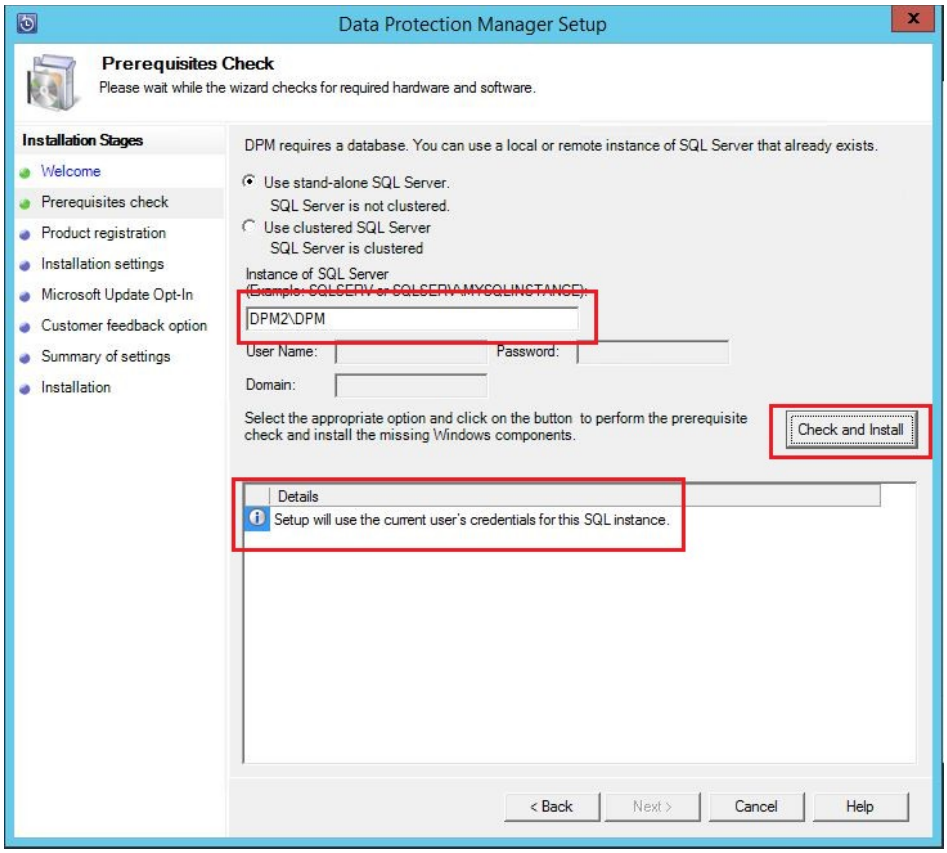

SQL Server 2012 Setup
Instance Configuration
Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.
Setup Support Rules
Setup Role
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Error Reporting
Installation Configuration Rules
Ready to Install
Installation Progress
Complete
Default instance
Named instance:
DPM
Instance ID:
DPM
Instance root directory:
E:\DPMDB
...
SQL Server directory:
E:\DPMDB\MSSQL11.DPM
Reporting Services directory:
E:\DPMDB\MSRS11.DPM
Installed instances:
Instance Name
Instance ID
Features
Edition
Version
< Back
Next >
Cancel
Help

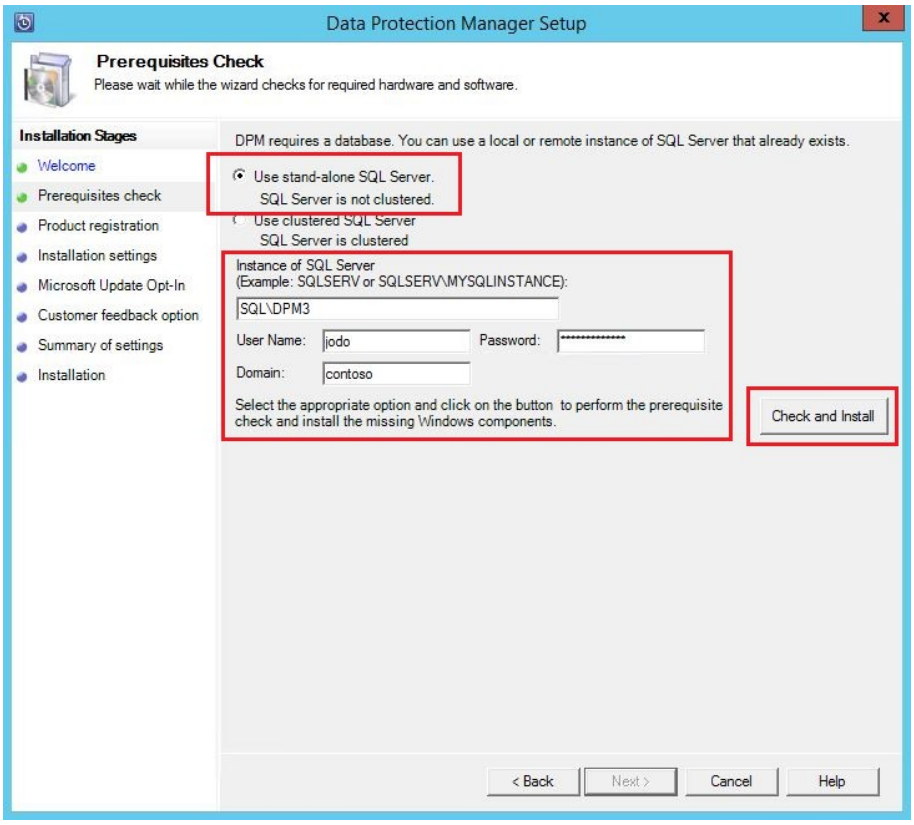

SQL Server 2012 Setup
Server Configuration
Specify the service accounts and collation configuration.
Setup Support Rules
Setup Role
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Error Reporting
Installation 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
CONTOSO\SQLSVC
Automatic
SQL Server Database Engine
CONTOSO\SQLSVC
Automatic
SQL Server Reporting Services
CONTOSO\SQLSVC
Automatic
SQL Full-text Filter Daemon Launc...
NT Service\MSSQLFDLa...
Manual
SQL Server Browser
NT AUTHORITY\LOCAL ...
Automatic
< Back
Next >
Cancel
Help

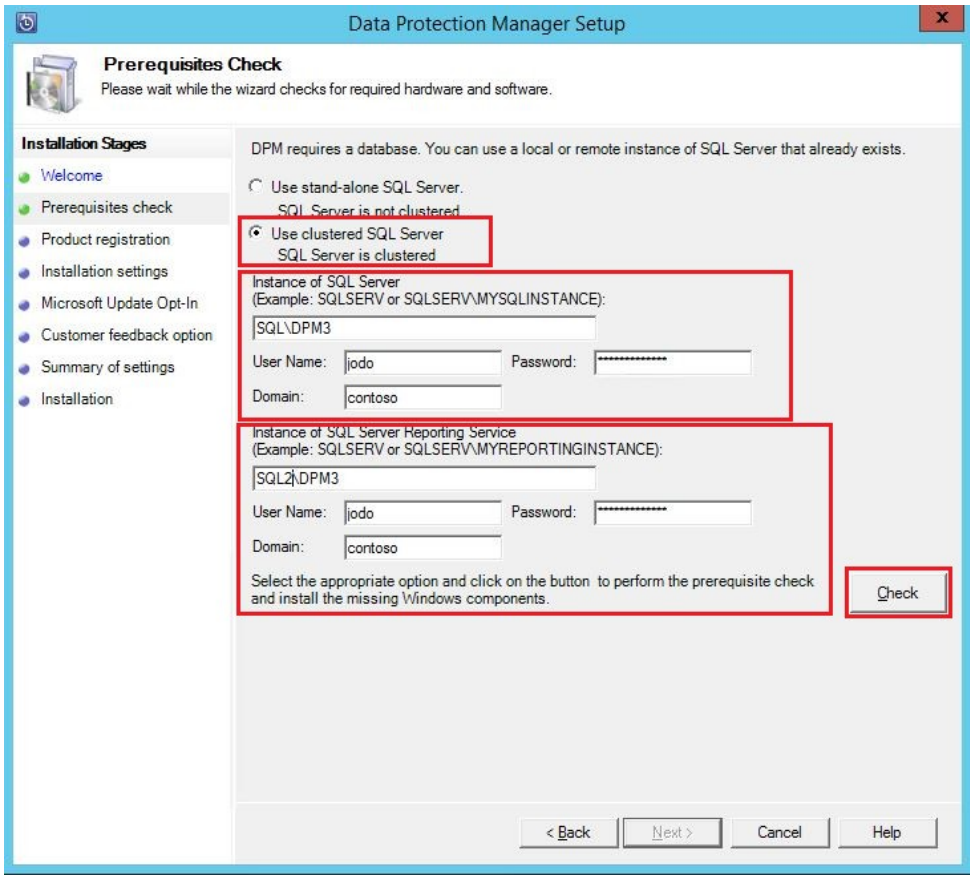
Microsoft
Microsoft System Center 2012 R2
Data Protection Manager
Install
Data Protection Manager
DPM Central Console
DPM Protection Agent
DPM Remote Administration
DPM Self Service Recovery
DPM Remote SQL Prep
Before you begin
View Release Notes
Read Installation Guide
Run the Prerequisite Checker
Additional Resources
Review License Terms
Visit DPM Web Site
R2
© 2013 Microsoft Corporation. All rights reserved.
Exit

System Center 2012 R2 DPM Support Files
System Center 2012 R2 DPM Support Files installation has completed successfully.
OK

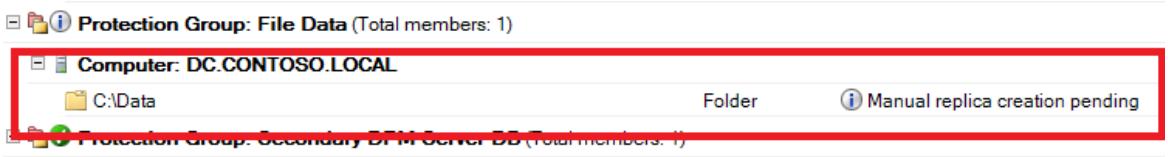
Microsoft
Microsoft System Center 2012 R2
Data Protection Manager
Install
Data Protection Manager
DPM Central Console
DPM Protection Agent
DPM Remote Administration
DPM Self Service Recovery
DPM Remote SQL Prep
Before you begin
View Release Notes
Read Installation Guide
Run the Prerequisite Checker
Additional Resources
Review License Terms
Visit DPM Web Site
R2
© 2013 Microsoft Corporation. All rights reserved.
Exit

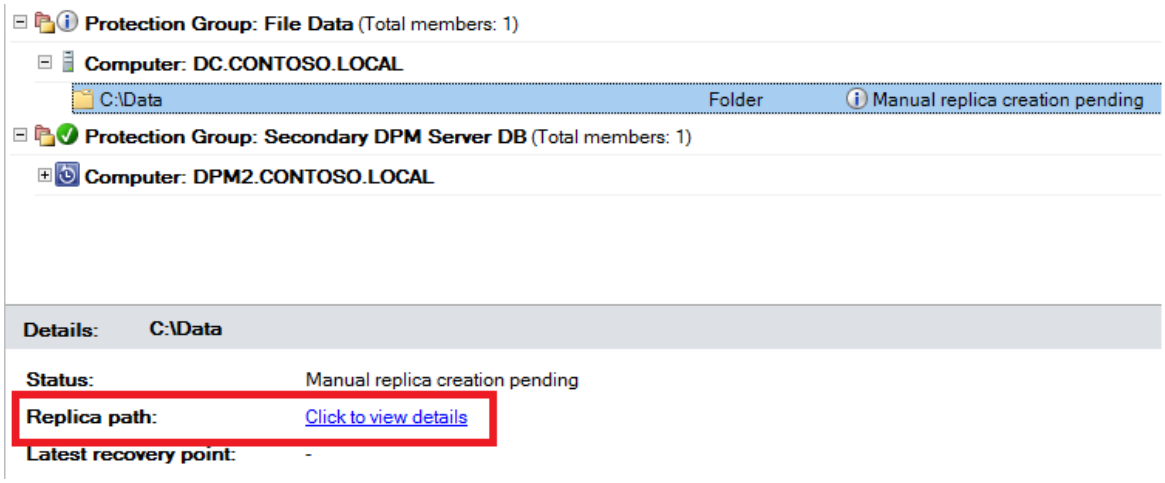

Data Protection Manager Setup
Prerequisites Check
Please wait while the wizard checks for required hardware and software.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Customer feedback option
Summary of settings
Installation
DPM requires 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):
DPM2\DPM
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

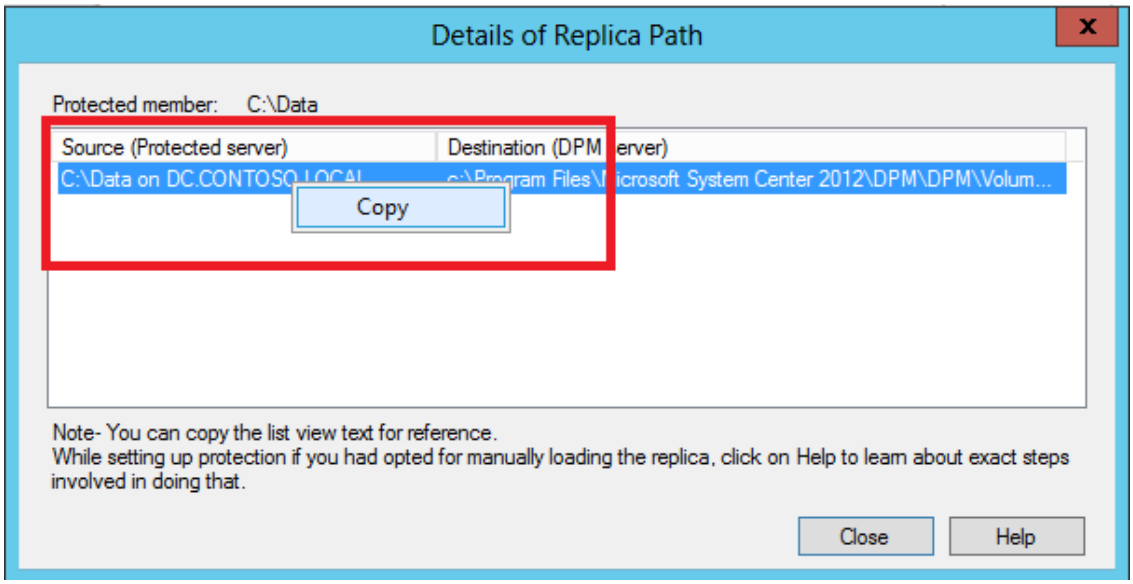

Data Protection Manager Setup
Prerequisites Check
Please wait while the wizard checks for required hardware and software.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Customer feedback option
Summary of settings
Installation
DPM requires 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):
SQL\DPM3
User Name:
jodo
Password:
Domain:
contoso
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

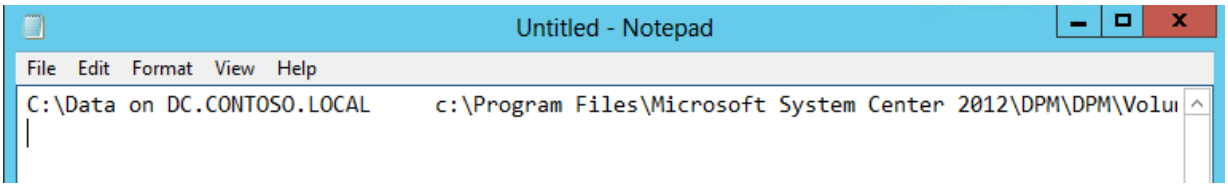

Data Protection Manager Setup
Prerequisites Check
Please wait while the wizard checks for required hardware and software.
Installation Stages
Welcome
Prerequisites check
Product registration
Installation settings
Microsoft Update Opt-In
Customer feedback option
Summary of settings
Installation
DPM requires 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):
SQL\DPM3
User Name:
jodo
Password:
Domain:
contoso
Instance of SQL Server Reporting Service
(Example: SQLSERV or SQLSERV\MYREPORTINGINSTANCE):
SQL2\DPM3
User Name:
jodo
Password:
Domain:
contoso
Select the appropriate option and click on the button to perform the prerequisite check and install the missing Windows components.
Check
< Back
Next >
Cancel
Help

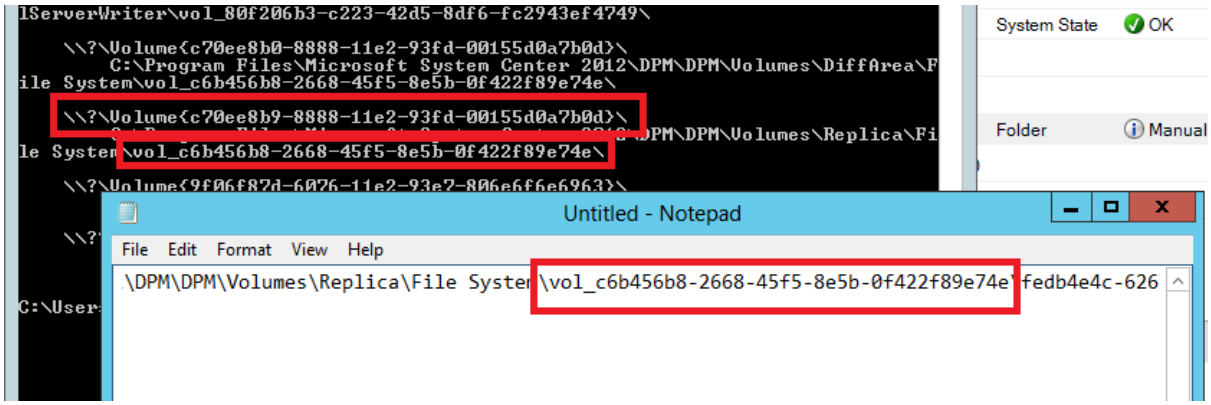
Chapter 3

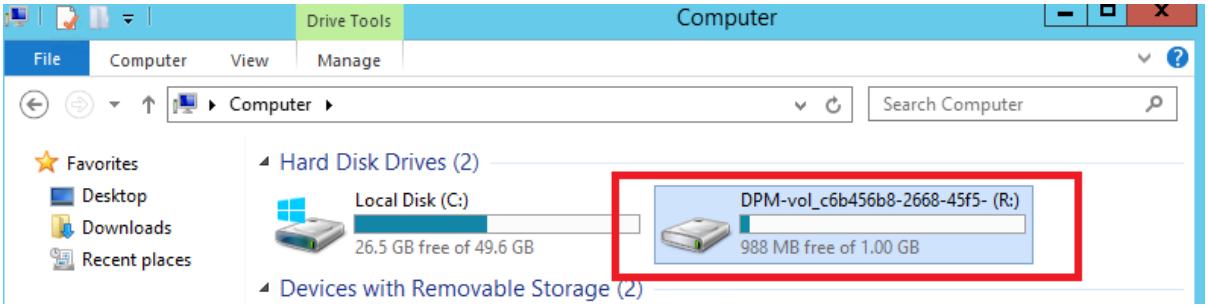

Protection Group: File Data (Total members: 1)
Computer: DC.CONTOSO.LOCAL
C:\Data
Folder
Manual replica creation pending

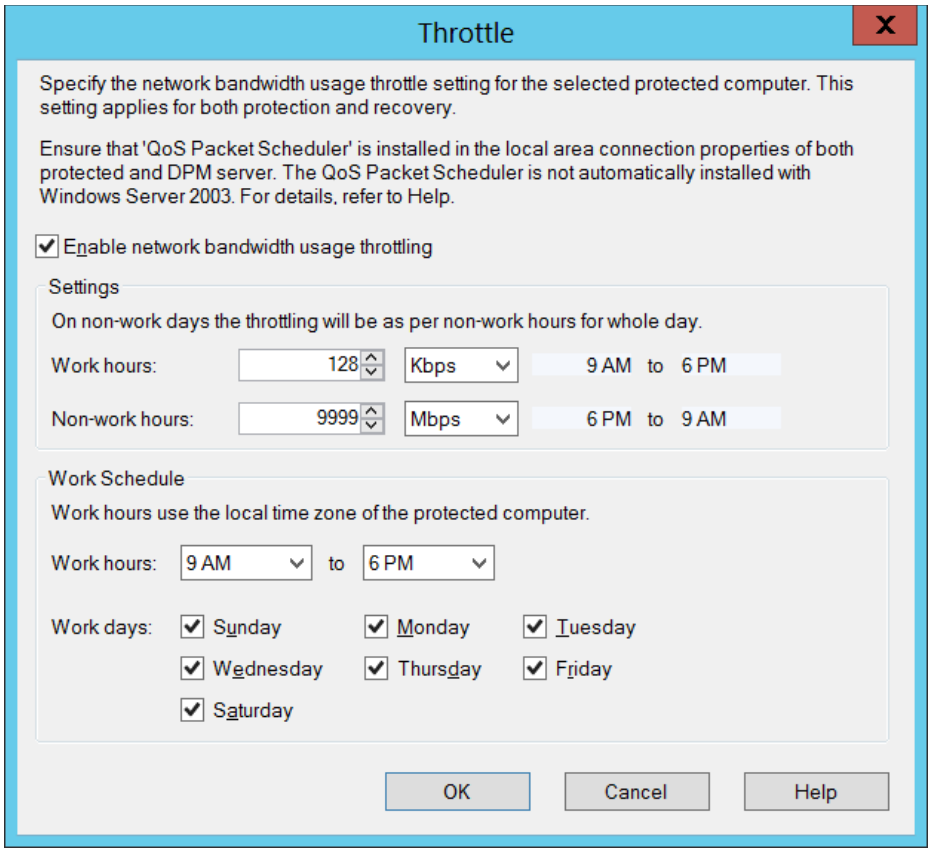

Protection Group: File Data (Total members: 1)
Computer: DC.CONTOSO.LOCAL
C:\Data
Folder
Manual replica creation pending
Protection Group: Secondary DPM Server DB (Total members: 1)
Computer: DPM2.CONTOSO.LOCAL
Details: C:\Data
Status: Manual replica creation pending
Replica path: Click to view details
Latest recovery point: -


Details of Replica Path
Protected member: C:\Data
Source (Protected server)
Destination (DPM
erver)
C:\Data on DC.CONTOSO.LOCAL
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
C:\Data on DC.CONTOSO.LOCAL c:\Program Files\Microsoft System Center 2012\DPM\DPM\Volu

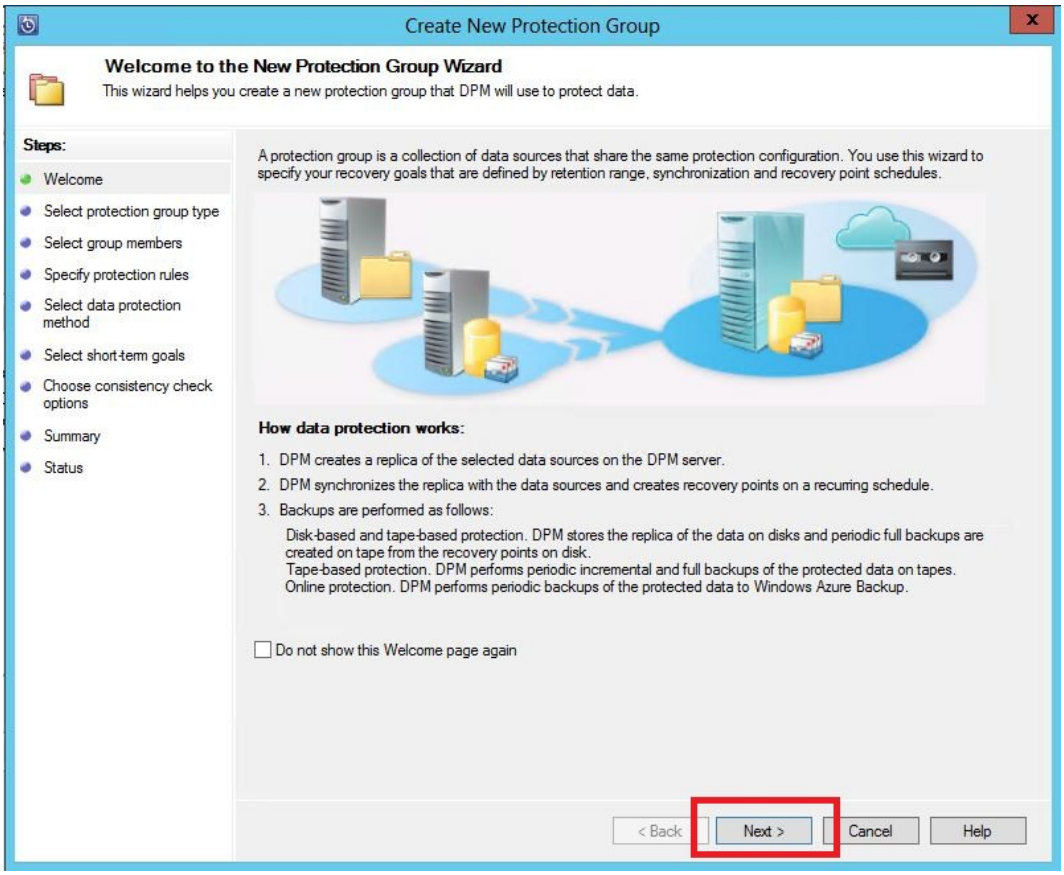

lServerWriter\vol_80f206b3-c223-42d5-8df6-fc2943ef4749\
\\?\Volume{c70ee8b0-8888-11e2-93fd-00155d0a7b0d}\
C:\Program Files\Microsoft System Center 2012\DPM\DPM\Volumes\DiffArea\F
ile System\vol_c6b456b8-2668-45f5-8e5b-0f422f89e74e\
\\?\Volume{c70ee8b9-8888-11e2-93fd-00155d0a7b0d}\
\vol_c6b456b8-2668-45f5-8e5b-0f422f89e74e\
System State OK
Folder Manual
Untitled - Notepad
File Edit Format View Help
\DPM\DPM\Volumes\Replica\File Syste \vol_c6b456b8-2668-45f5-8e5b-0f422f89e74e fedb4e4c-626

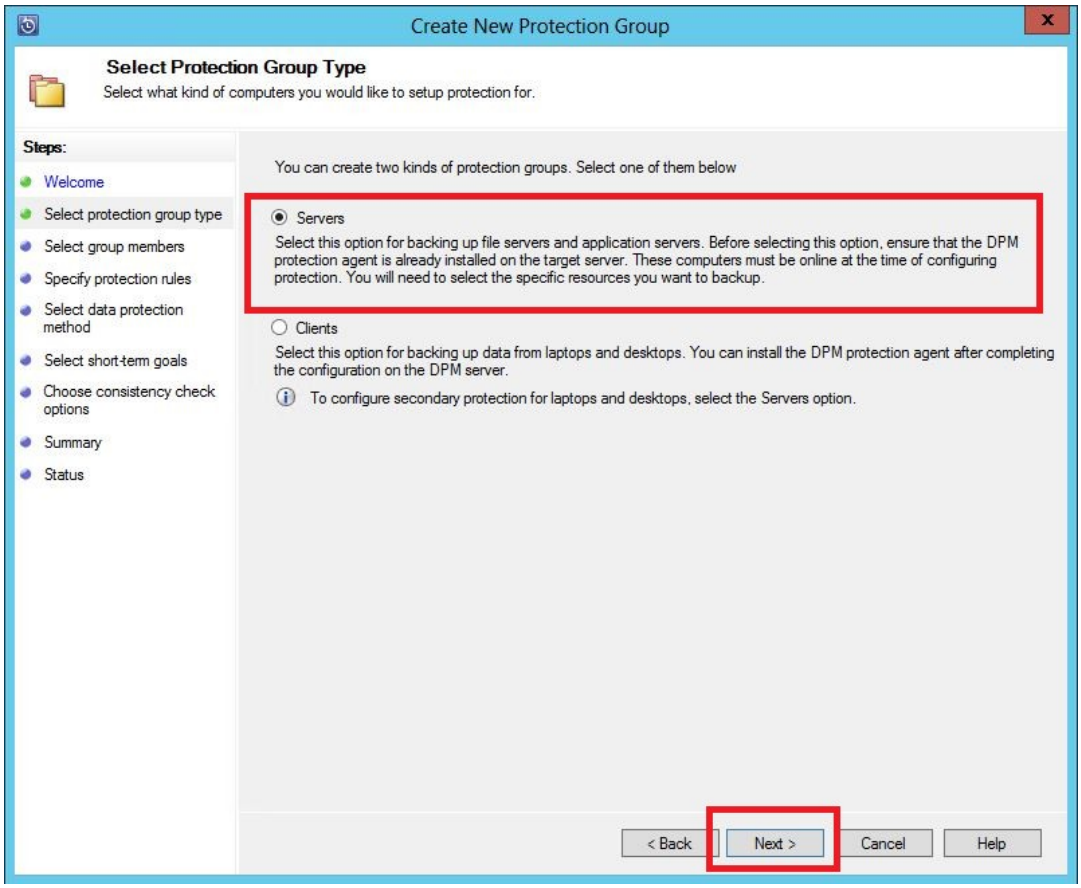

Drive Tools
Computer
File Computer View Manage
Computer
Search Computer
Favorites
Desktop
Downloads
Recent places
Hard Disk Drives (2)
Local Disk (C:)
26.5 GB free of 49.6 GB
DPM-vol_c6b456b8-2668-45f5- (R:)
988 MB free of 1.00 GB
Devices with Removable Storage (2)

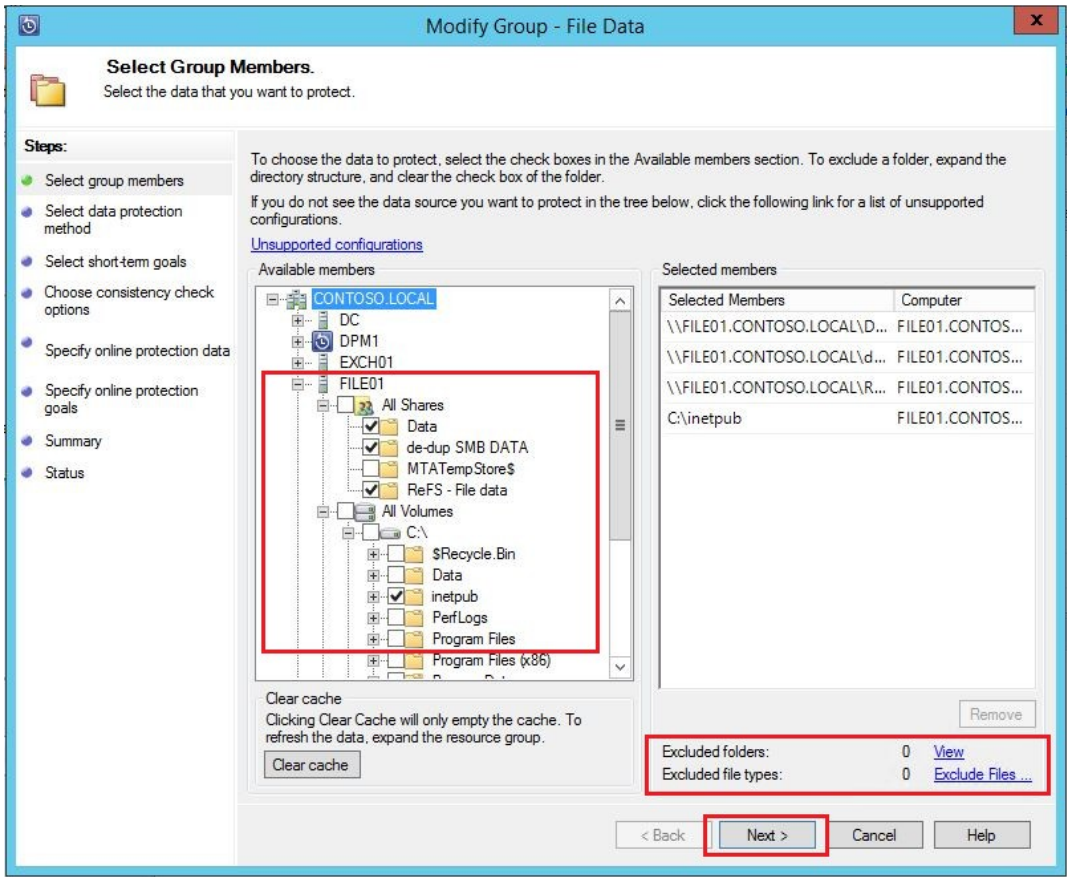

Throttle
Specify the network bandwidth usage throttle setting for the selected protected computer. This setting applies for both protection and recovery.
Ensure that 'QoS Packet Scheduler' is installed in the local area connection properties of both protected and DPM server. The QoS Packet Scheduler 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:
128
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

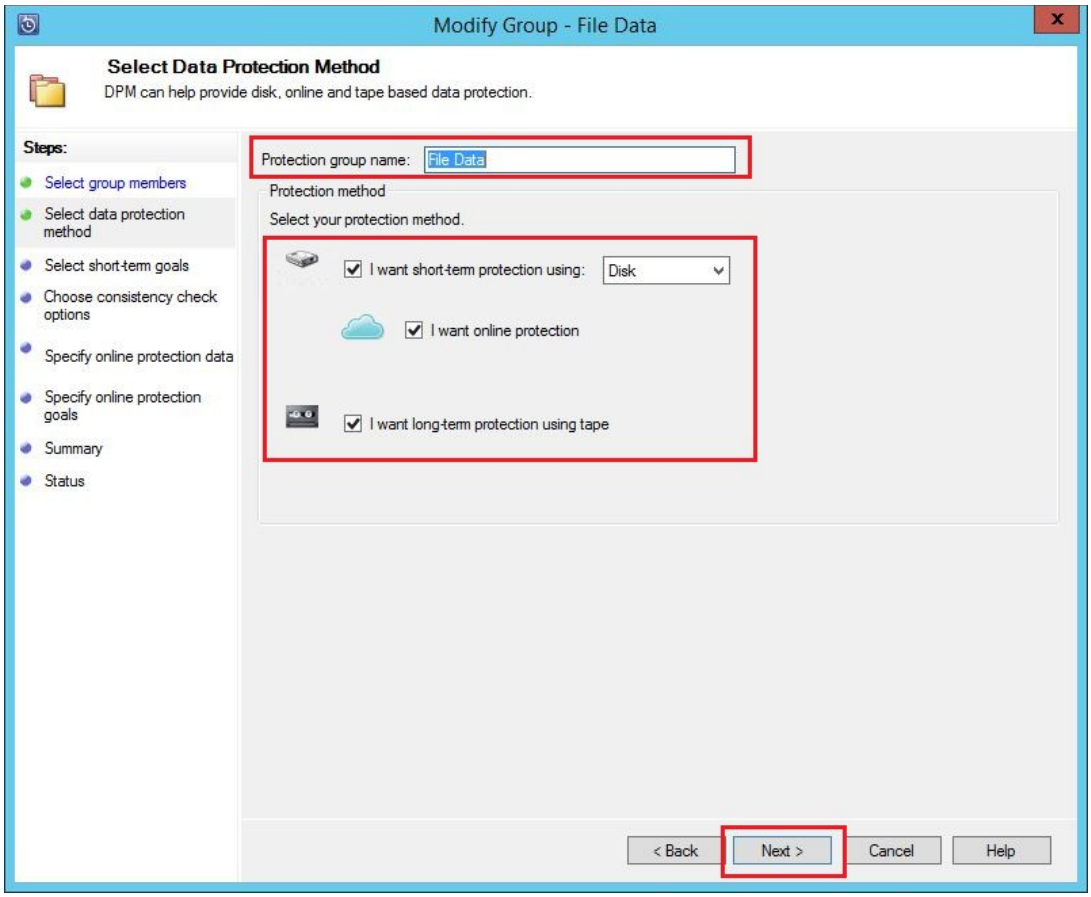
Chapter 4

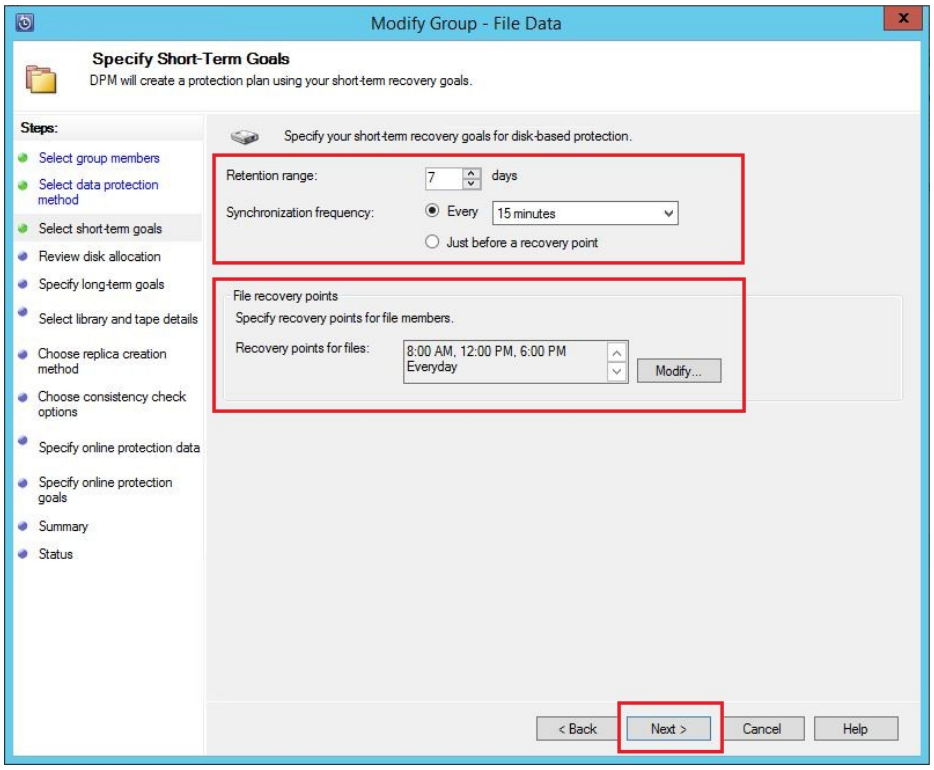
New
Modify
Delete
Optimize
Protection group

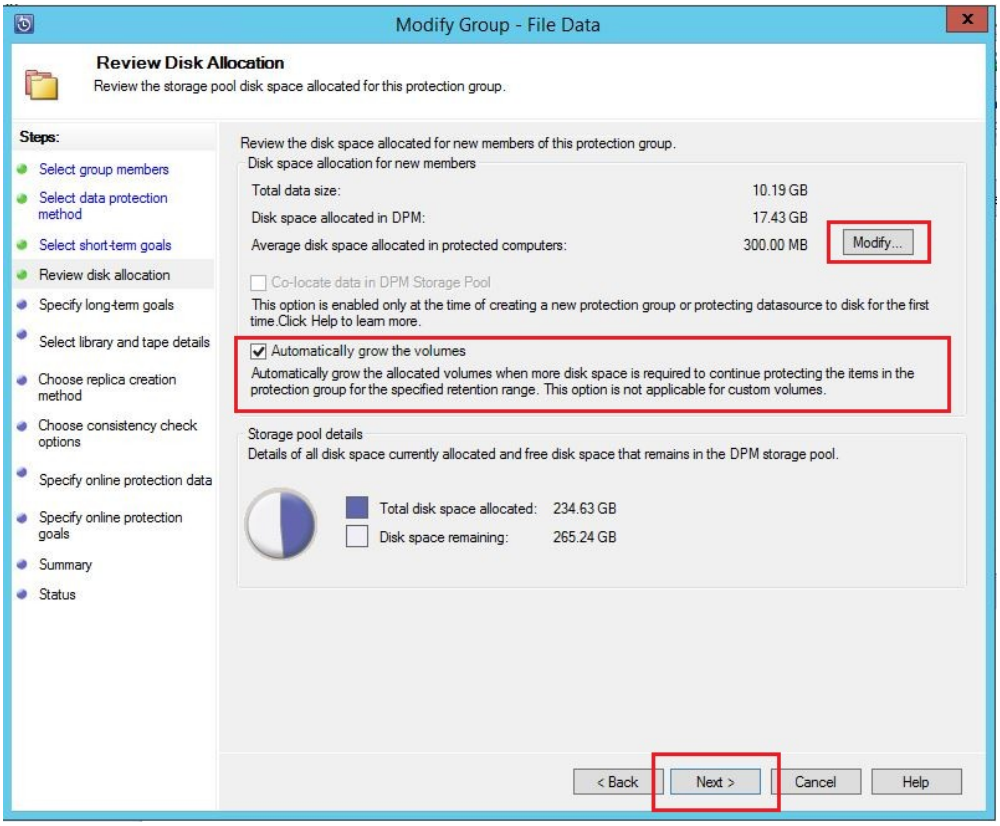

Create New Protection Group
Welcome to the New Protection Group Wizard
This wizard helps you create a new protection group that DPM will use to protect data.
Steps:
Welcome
Select protection group type
Select group members
Specify protection rules
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
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 Windows Azure Backup.
Do not show this Welcome page again
< Back
Next >
Cancel
Help

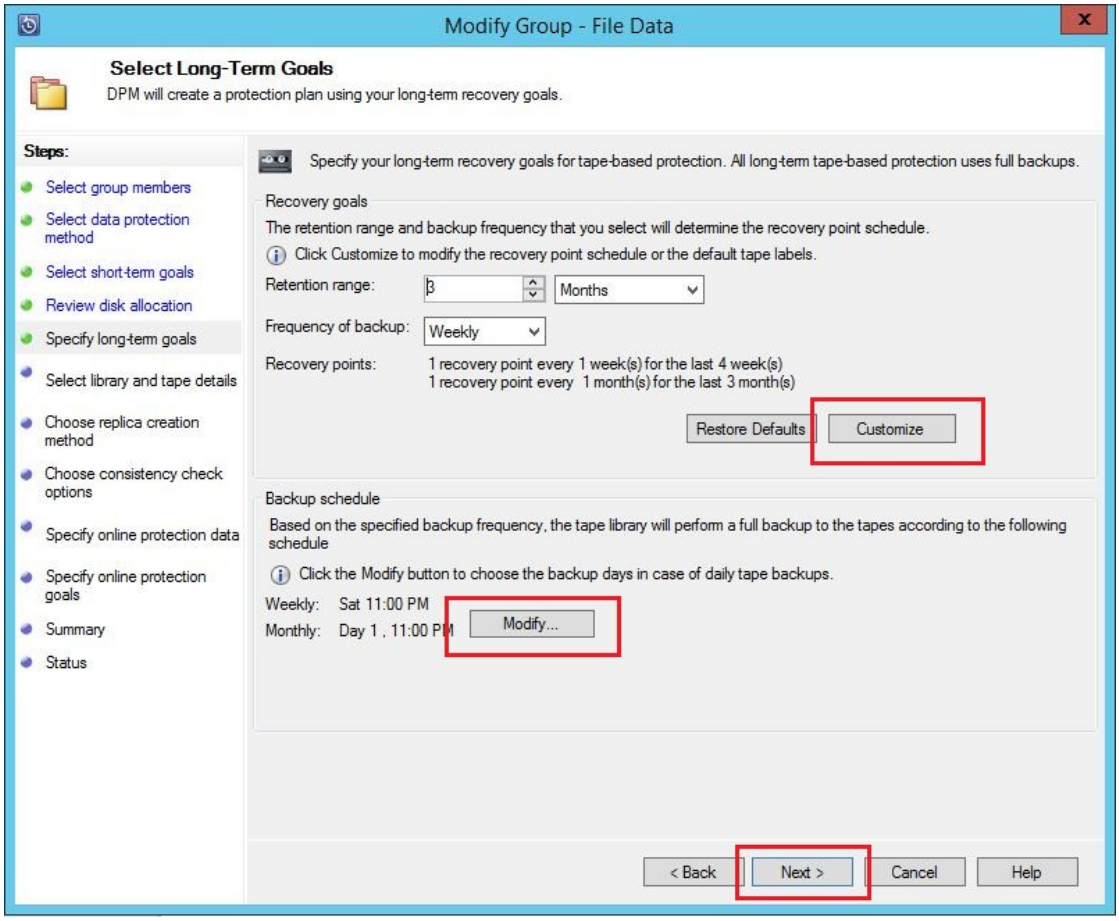

Create New Protection Group
Select Protection Group Type
Select what kind of computers you would like to setup protection for.
Steps:
Welcome
Select protection group type
Select group members
Specify protection rules
Select data protection method
Select short-term goals
Choose consistency check options
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

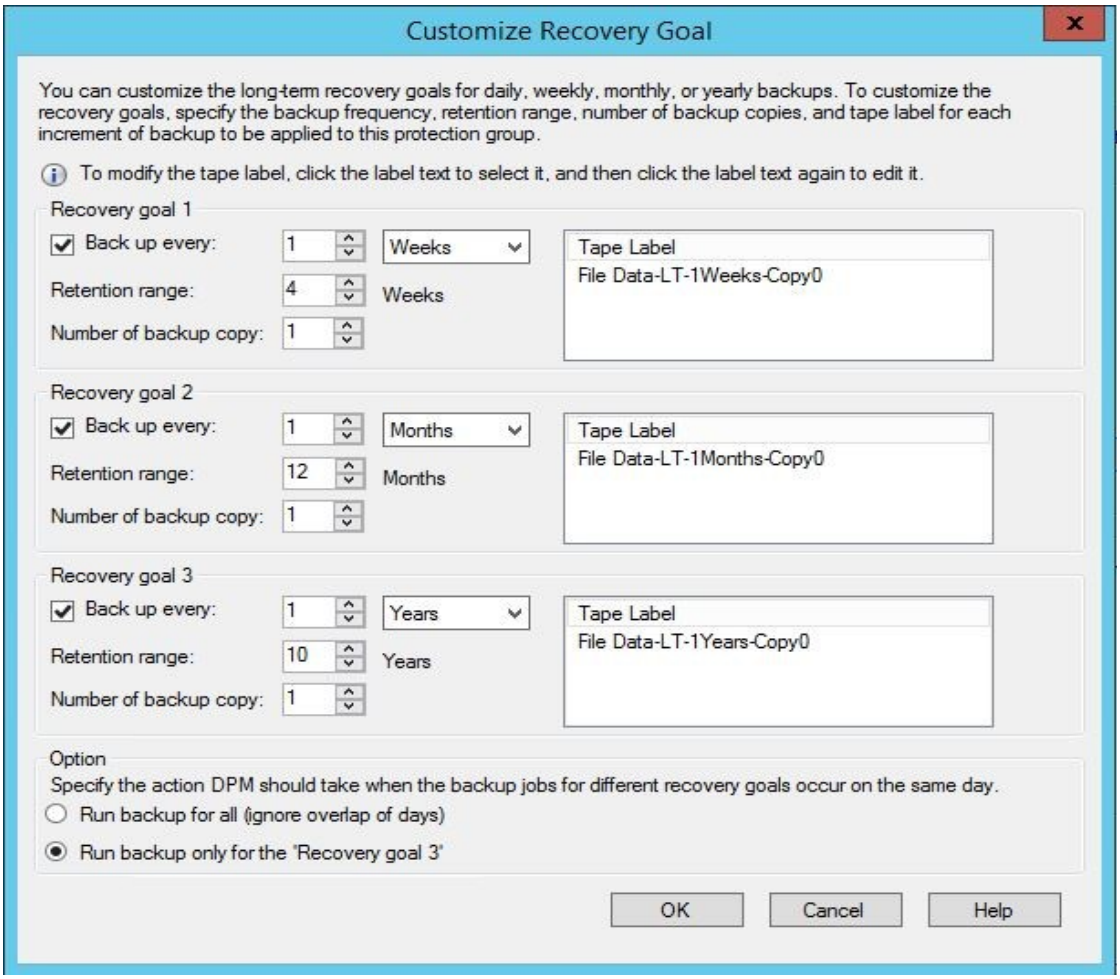

Modify Group - File Data
Select Group Members.
Select the data that you want to protect.
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.LOCAL
DC
DPM1
EXCH01
FILE01
All Shares
Data
de-dup SMB DATA
MTATempStore$
ReFS - File data
All Volumes
C:\
$Recycle.Bin
Data
inetpub
PerfLogs
Program Files
Program Files (x86)
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Selected members
Selected Members
Computer
\\FILE01.CONTOSO.LOCAL\D...
FILE01.CONTOS...
\\FILE01.CONTOSO.LOCAL\d...
FILE01.CONTOS...
\\FILE01.CONTOSO.LOCAL\R...
FILE01.CONTOS...
C:\inetpub
FILE01.CONTOS...
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

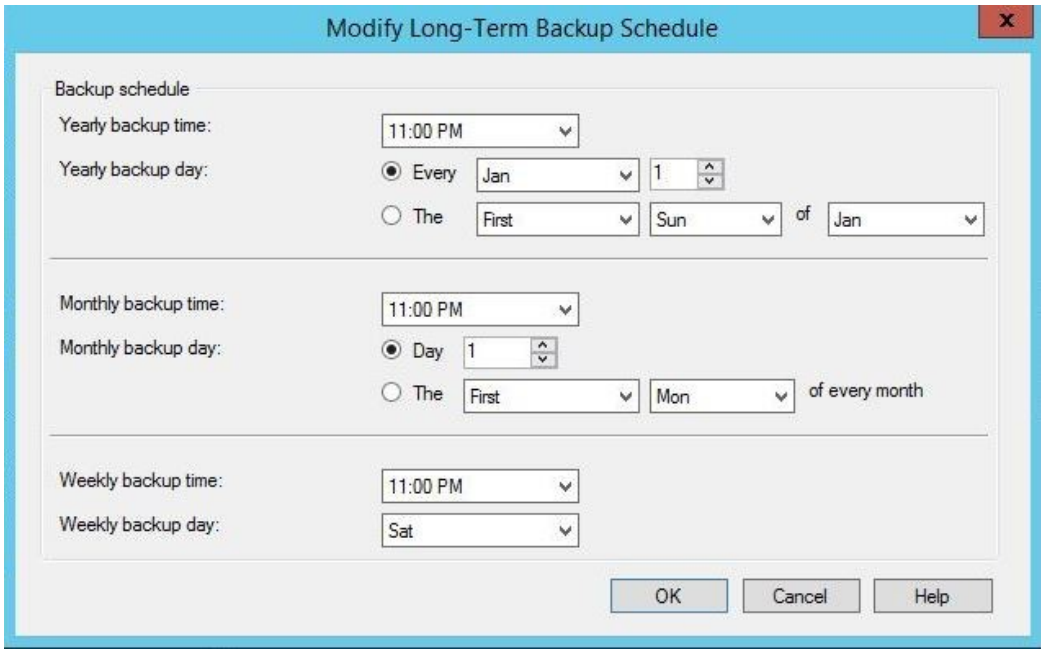

Modify Group - File Data
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Protection group name:
File Data
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
I want long-term protection using tape
< Back
Next >
Cancel
Help

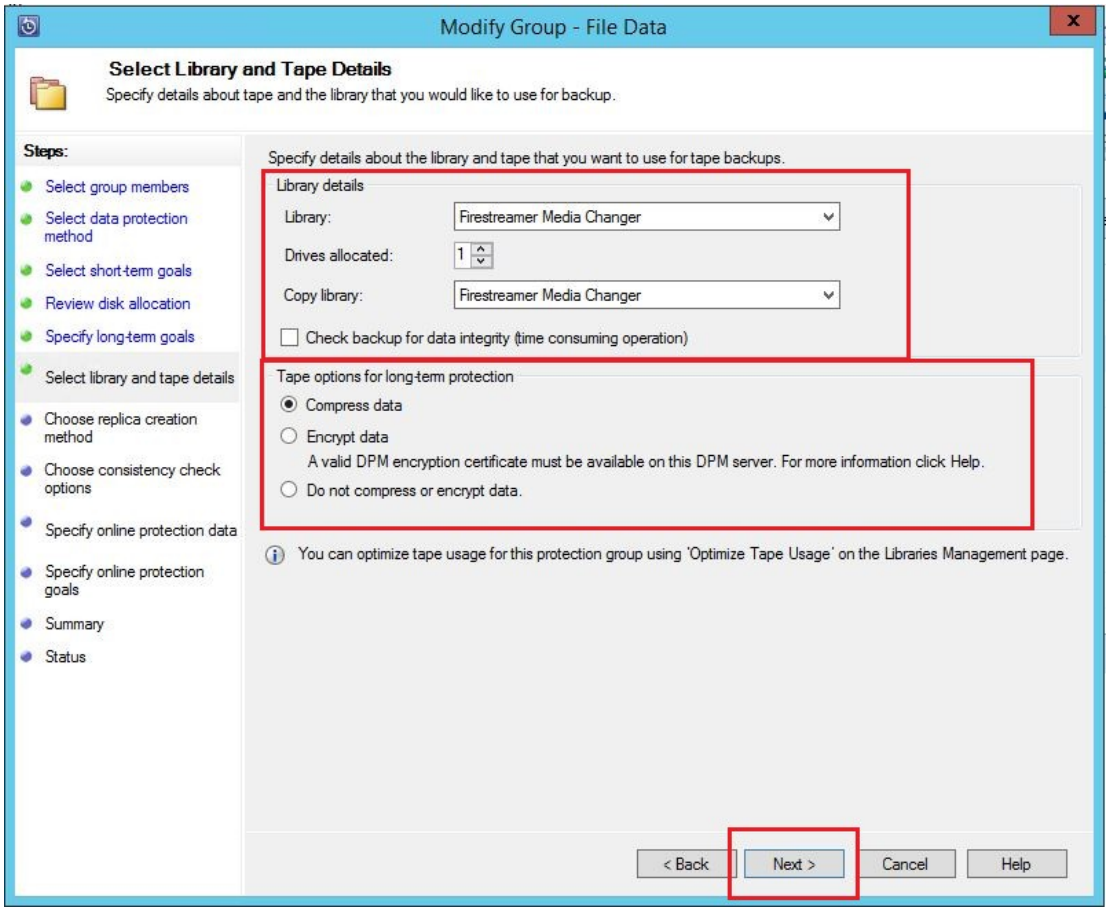

Modify Group - File Data
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
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

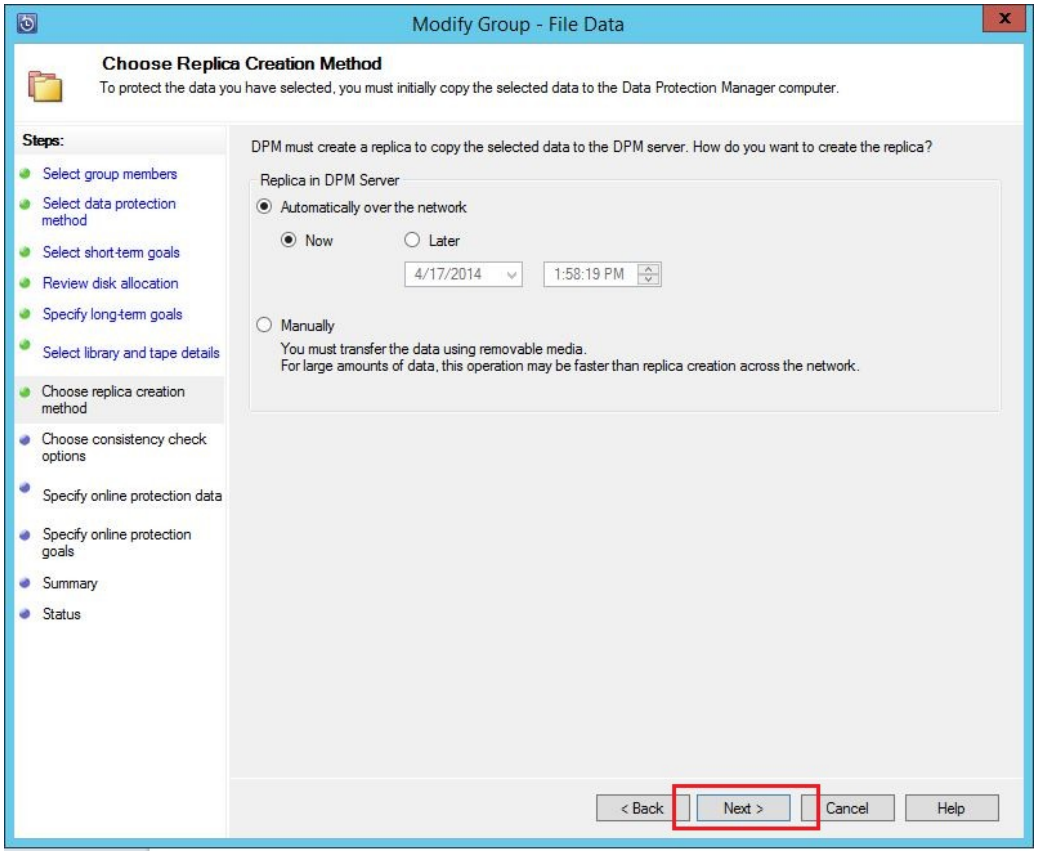

Modify Group - File Data
Review Disk Allocation
Review the storage pool disk space allocated for this protection group.
Steps:
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Review the disk space allocated for new members of this protection group.
Disk space allocation for new members
Total data size:
10.19 GB
Disk space allocated in DPM:
17.43 GB
Average disk space allocated in protected computers:
300.00 MB
Modify...
Co-locate data in DPM Storage Pool
This option is enabled only at the time of creating a new protection group or protecting datasource to disk for the first time.Click Help to learn more.
Automatically grow the volumes
Automatically grow the allocated volumes when more disk space is required to continue protecting the items in the protection group for the specified retention range. This option is not applicable for custom volumes.
Storage pool details
Details of all disk space currently allocated and free disk space that remains in the DPM storage pool.
Total disk space allocated:
234.63 GB
Disk space remaining:
265.24 GB
< Back
Next >
Cancel
Help

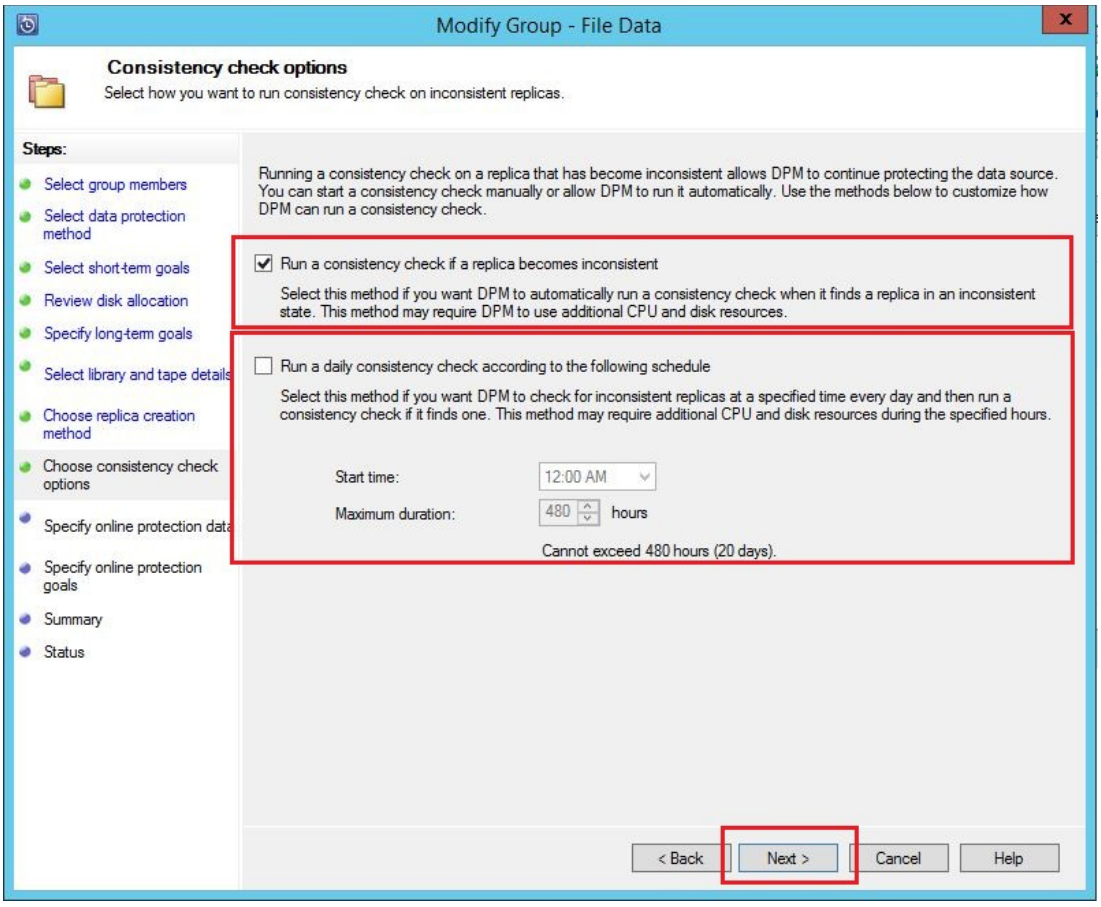

Modify Group - File Data
Select Long-Term Goals
DPM will create a protection plan using your long-term recovery goals.
Steps:
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Specify your long-term recovery goals for tape-based protection. All long-term tape-based protection uses full backups.
Recovery goals
The retention range and backup frequency that you select will determine the recovery point schedule.
Click Customize to modify the recovery point schedule or the default tape labels.
Retention range:
3
Months
Frequency of backup:
Weekly
Recovery points:
1 recovery point every 1 week(s) for the last 4 week(s)
1 recovery point every 1 month(s) for the last 3 month(s)
Restore Defaults
Customize
Backup schedule
Based on the specified backup frequency, the tape library will perform a full backup to the tapes according to the following schedule
Click the Modify button to choose the backup days in case of daily tape backups.
Weekly: Sat 11:00 PM
Monthly: Day 1 , 11:00 PM
Modify...
< Back
Next >
Cancel
Help

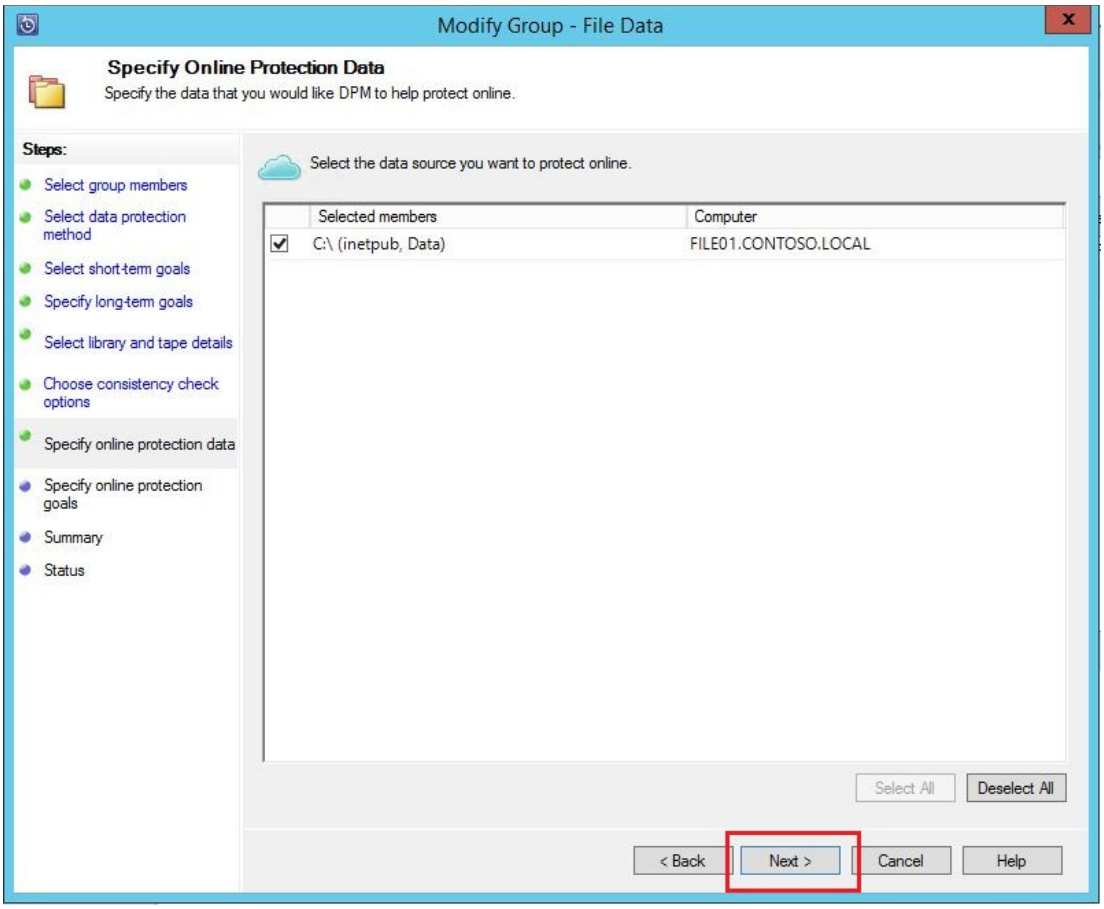

Customize Recovery Goal
You can customize the long-term recovery goals for daily, weekly, monthly, or yearly backups. To customize the recovery goals, specify the backup frequency, retention range, number of backup copies, and tape label for each increment of backup to be applied to this protection group.
To modify the tape label, click the label text to select it, and then click the label text again to edit it.
Recovery goal 1
Back up every: 1 Weeks
Retention range: 4 Weeks
Number of backup copy: 1
Tape Label
File Data-LT-1Weeks-Copy0
Recovery goal 2
Back up every: 1 Months
Retention range: 12 Months
Number of backup copy: 1
Tape Label
File Data-LT-1Months-Copy0
Recovery goal 3
Back up every: 1 Years
Retention range: 10 Years
Number of backup copy: 1
Tape Label
File Data-LT-1Years-Copy0
Option
Specify the action DPM should take when the backup jobs for different recovery goals occur on the same day.
Run backup for all (ignore overlap of days)
Run backup only for the "Recovery goal 3"
OK
Cancel
Help

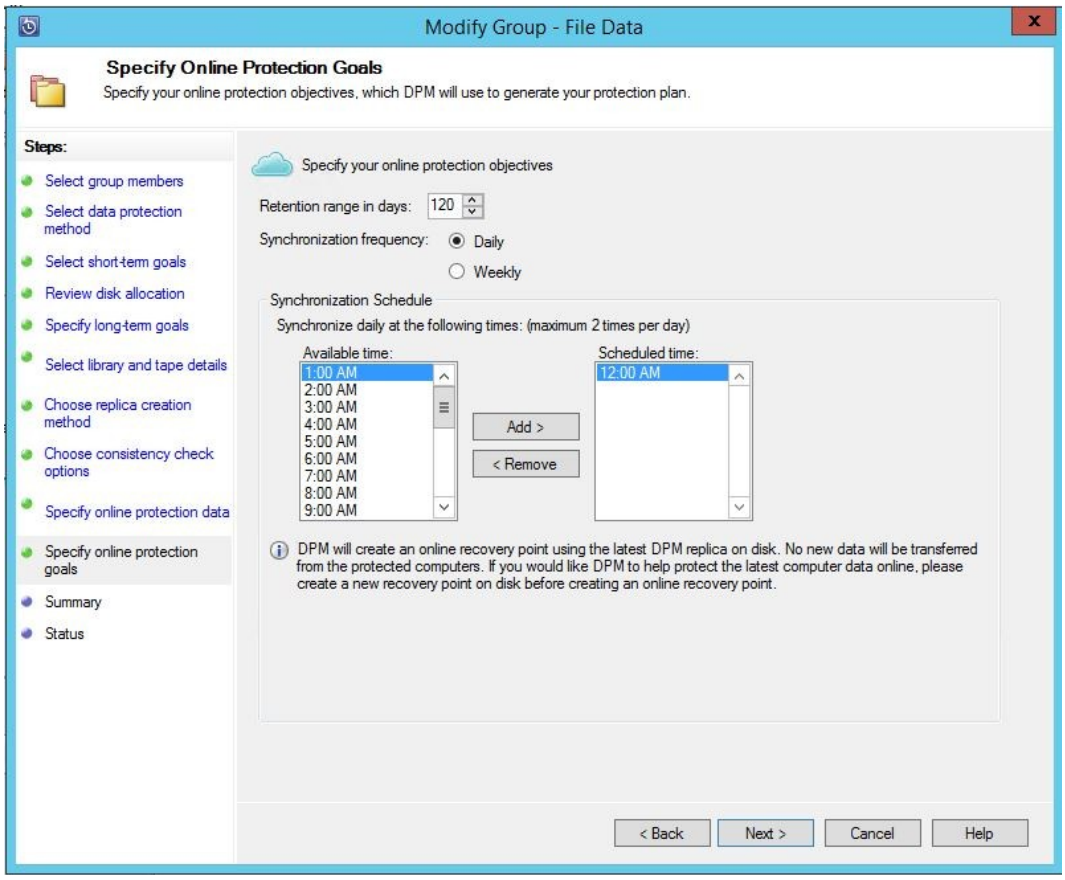

Modify Long-Term Backup Schedule
Backup schedule
Yearly backup time:
11:00 PM
Yearly backup day:
Every
Jan
1
The
First
Sun
of
Jan
Monthly backup time:
11:00 PM
Monthly backup day:
Day
1
The
First
Mon
of every month
Weekly backup time:
11:00 PM
Weekly backup day:
Sat
OK
Cancel
Help

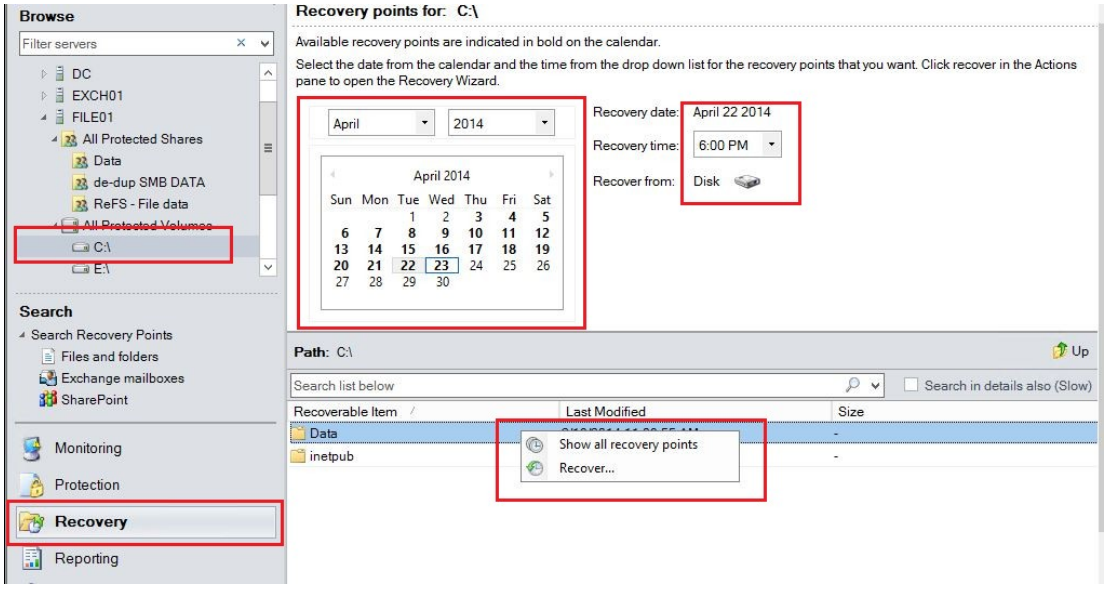

Modify Group - File Data
Select Library and Tape Details
Specify details about tape and the library that you would like to use for backup.
Steps:
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Specify details about the library and tape that you want to use for tape backups.
Library details
Library:
Firestreamer Media Changer
Drives allocated:
1
Copy library:
Firestreamer Media Changer
Check backup for data integrity (time consuming operation)
Tape options for long-term protection
Compress data
Encrypt data
A valid DPM encryption certificate must be available on this DPM server. For more information click Help.
Do not compress or encrypt data.
You can optimize tape usage for this protection group using 'Optimize Tape Usage' on the Libraries Management page.
< Back
Next >
Cancel
Help

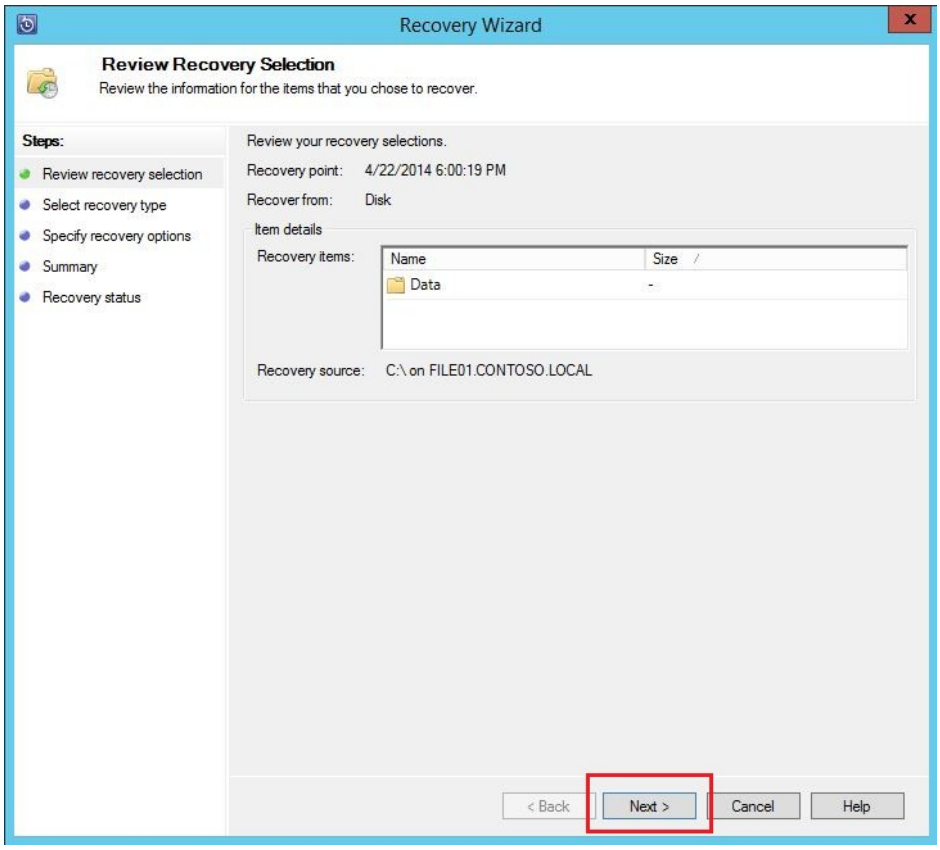

Modify Group - File Data
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
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
4/17/2014
1:58:19 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

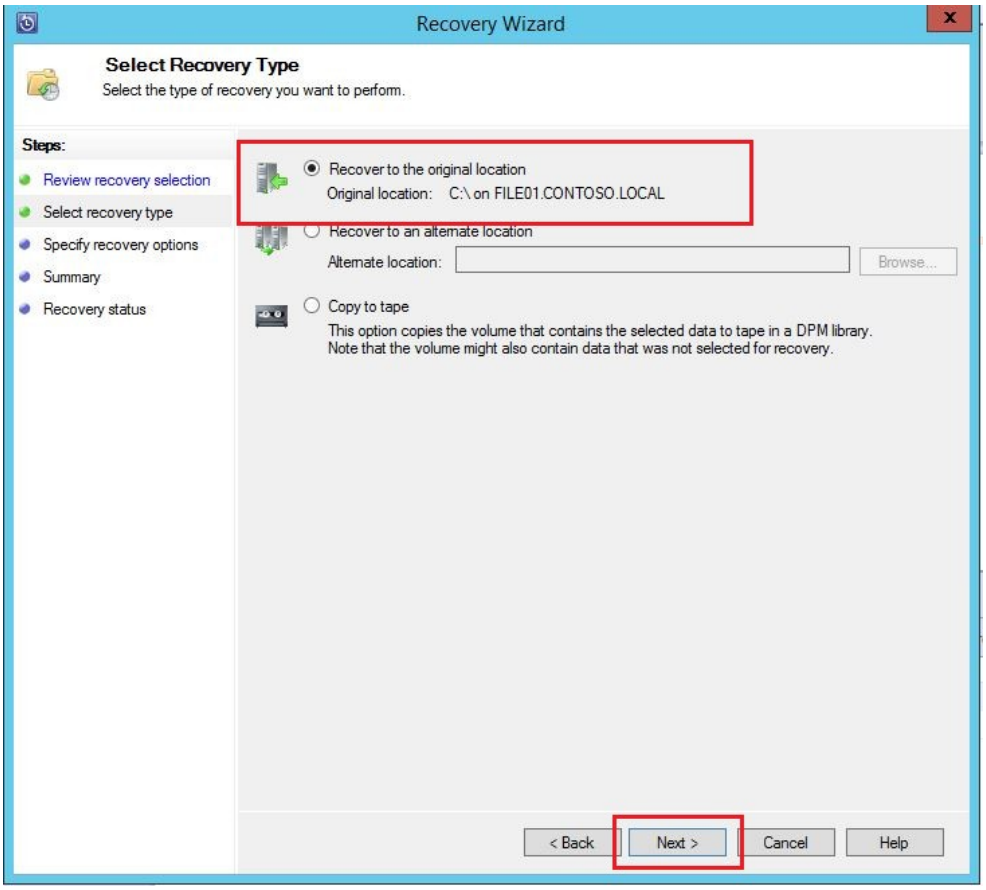

Modify Group - File Data
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
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

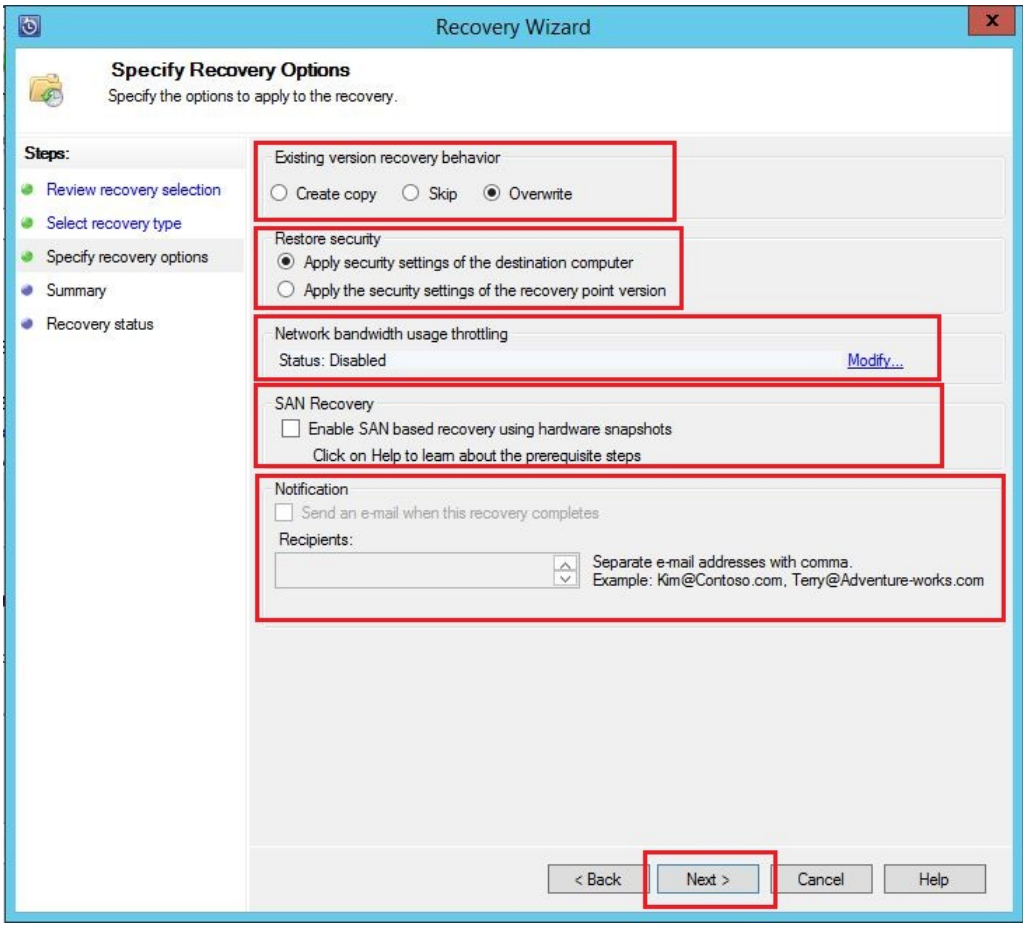

Modify Group - File Data
Specify Online Protection Data
Specify the data that you would like DPM to help protect online.
Steps:
Select group members
Select data protection method
Select short-term goals
Specify long-term goals
Select library and tape details
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Select the data source you want to protect online.
Selected members
Computer
C:\ (inetpub, Data)
FILE01.CONTOSO.LOCAL
Select All
Deselect All
< Back
Next >
Cancel
Help

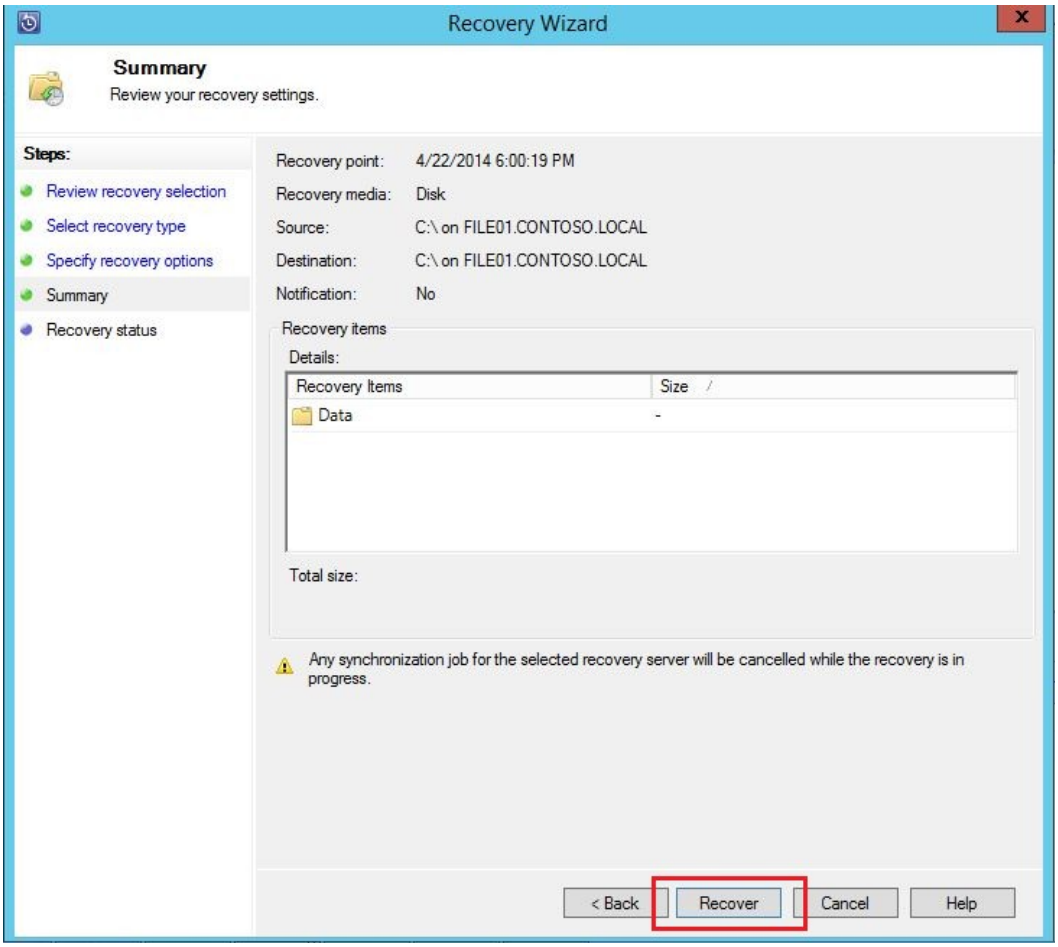

Modify Group - File Data
Specify Online Protection Goals
Specify your online protection objectives, which DPM will use to generate your protection plan.
Steps:
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Specify your online protection objectives
Retention range in days: 120
Synchronization frequency: Daily
Weekly
Synchronization Schedule
Synchronize daily at the following times: (maximum 2 times per day)
Available time:
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
9:00 AM
Add >
< Remove
Scheduled time:
12:00 AM
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

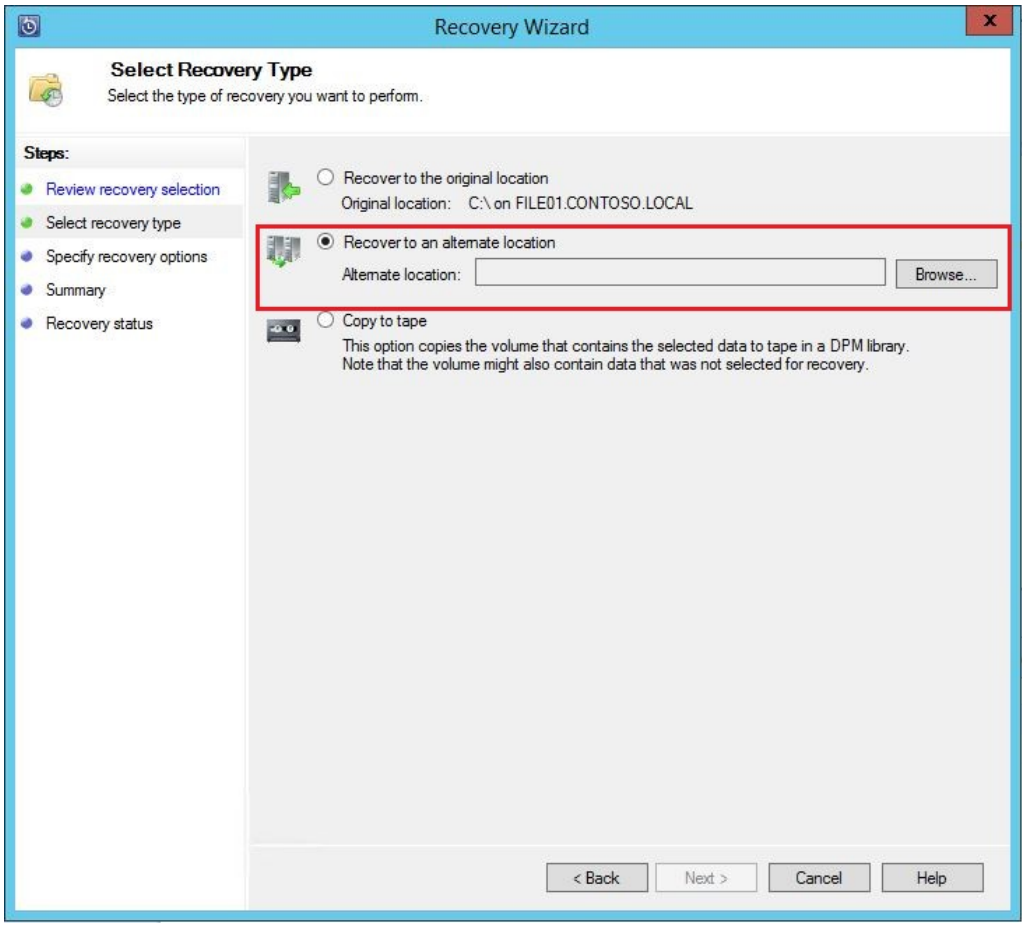

Browse
Filter servers
DC
EXCH01
FILE01
All Protected Shares
Data
de-dup SMB DATA
ReFS - File data
All Protected Volumes
C:\
E:\
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Recovery points for: C:\
Available recovery points are 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.
April
2014
April 2014
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: April 22 2014
Recovery time: 6:00 PM
Recover from: Disk
Path: C:\
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
Data
inetpub
Show all recovery points
Recover...

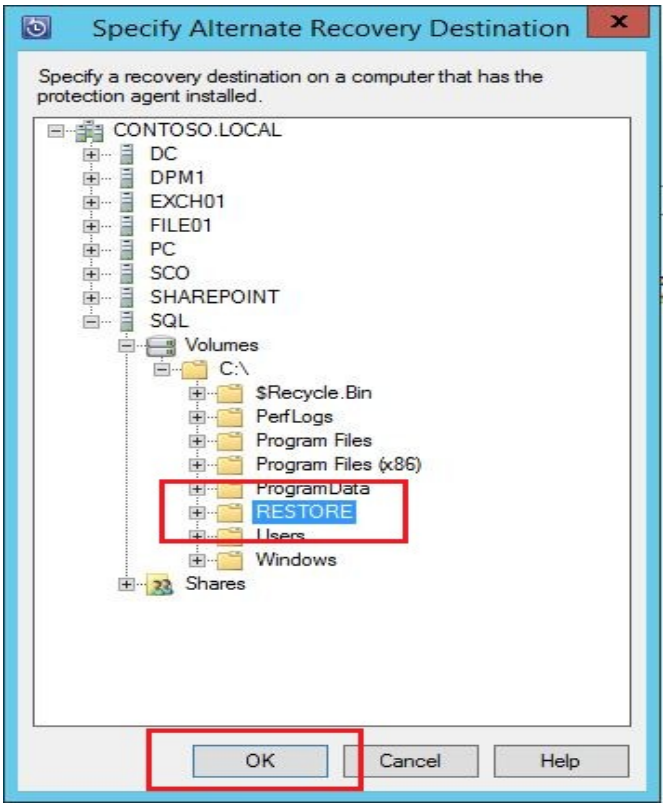

Recovery Wizard
Review Recovery Selection
Review the infomation for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 4/22/2014 6:00:19 PM
Recover from: Disk
Item details
Recovery items:
Name
Size
Data
-
Recovery source: C:\ on FILE01.CONTOSO.LOCAL
< Back
Next >
Cancel
Help

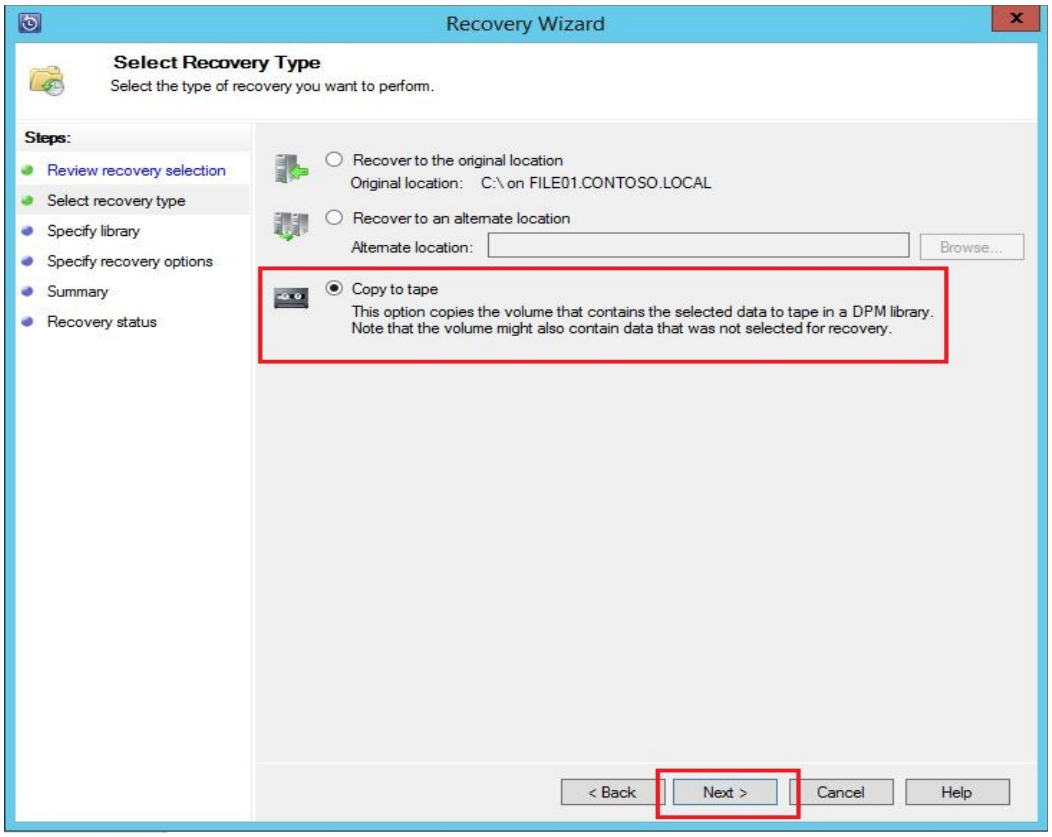

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to the original location
Original location: C:\ on FILE01.CONTOSO.LOCAL
Recover to an alternate location
Alternate location:
Browse...
Copy to tape
This option copies the volume that contains the selected data to tape in a DPM library.
Note that the volume might also contain data that was not selected for recovery.
< Back
Next >
Cancel
Help

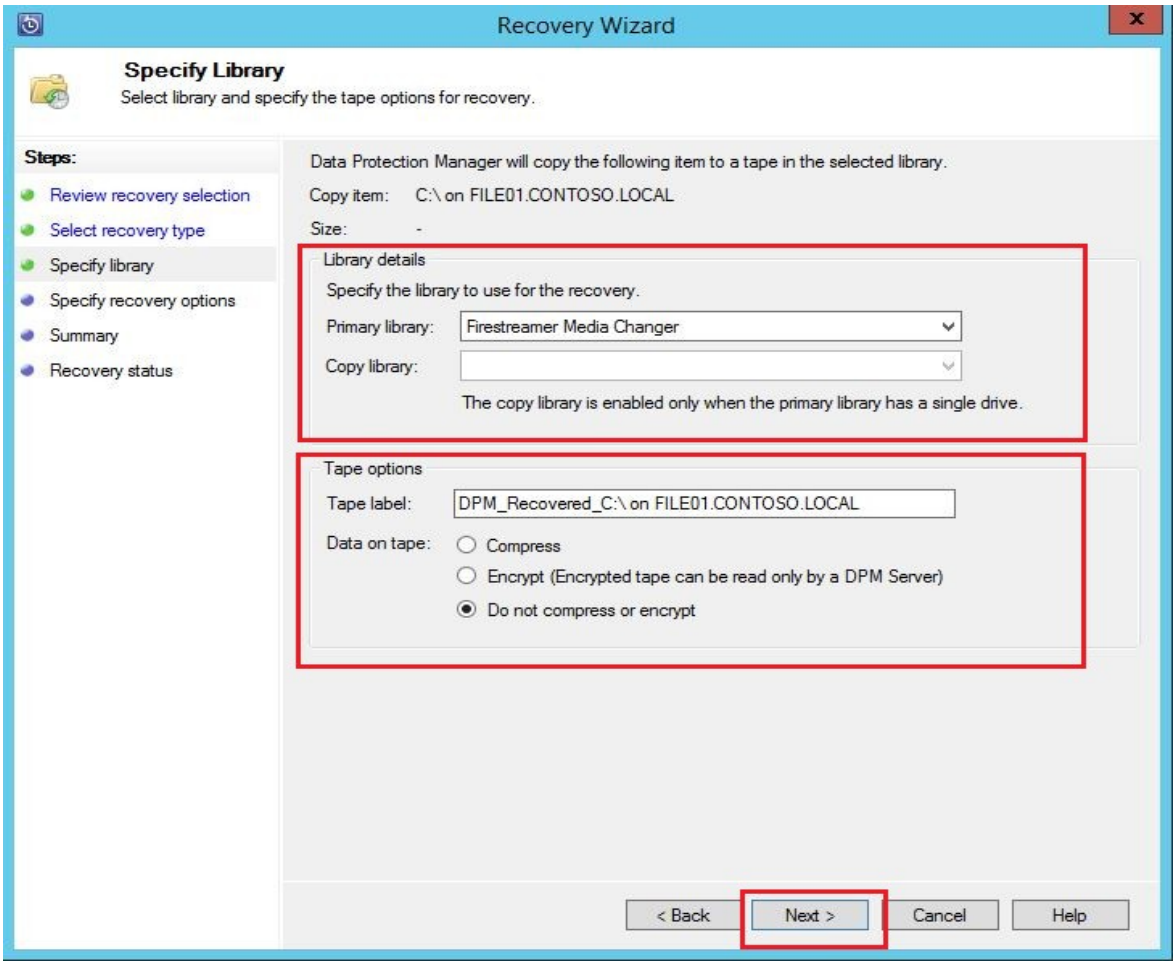

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Existing version recovery behavior
Create copy
Skip
Overwrite
Restore security
Apply security settings of the destination 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

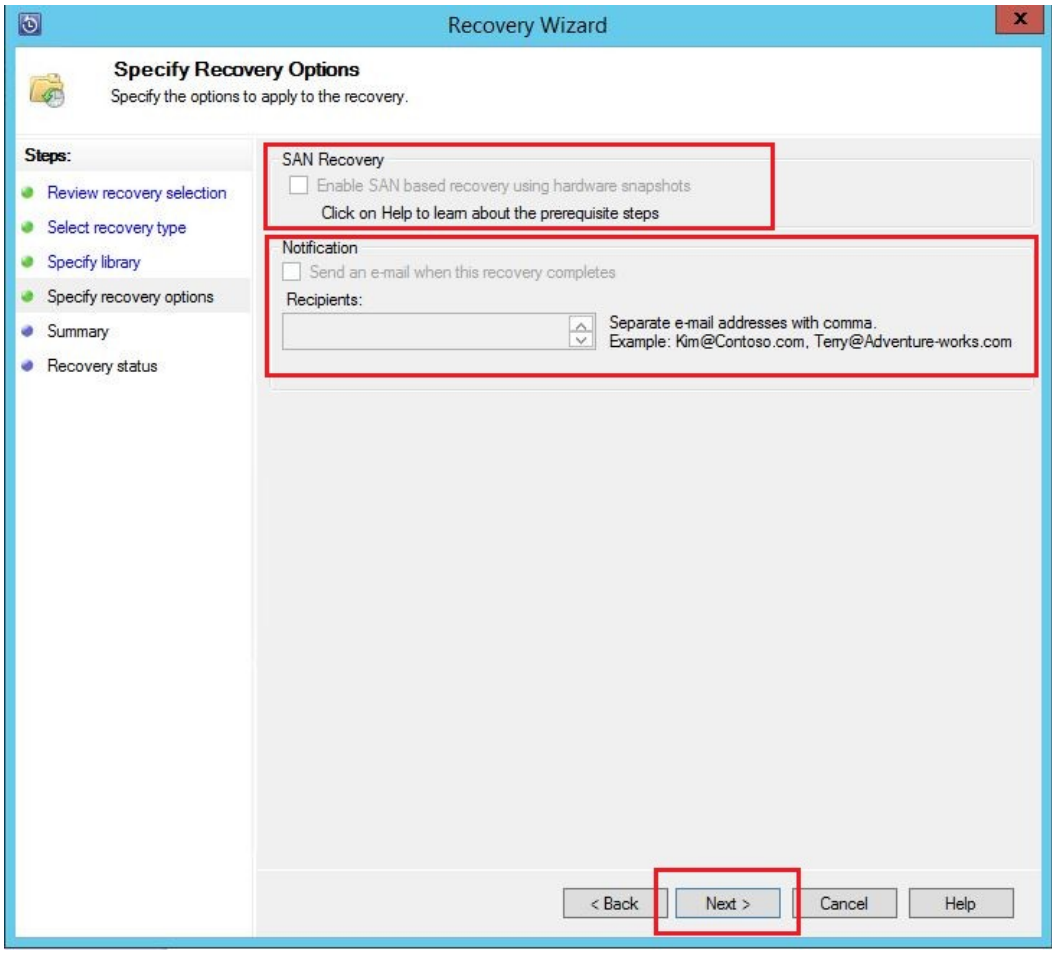

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery point: 4/22/2014 6:00:19 PM
Recovery media: Disk
Source: C:\ on FILE01.CONTOSO.LOCAL
Destination: C:\ on FILE01.CONTOSO.LOCAL
Notification: No
Recovery items
Details:
Recovery Items
Size
Data
-
Total size:
Any synchronization job for the selected recovery server will be cancelled while the recovery is in progress.
< Back
Recover
Cancel
Help

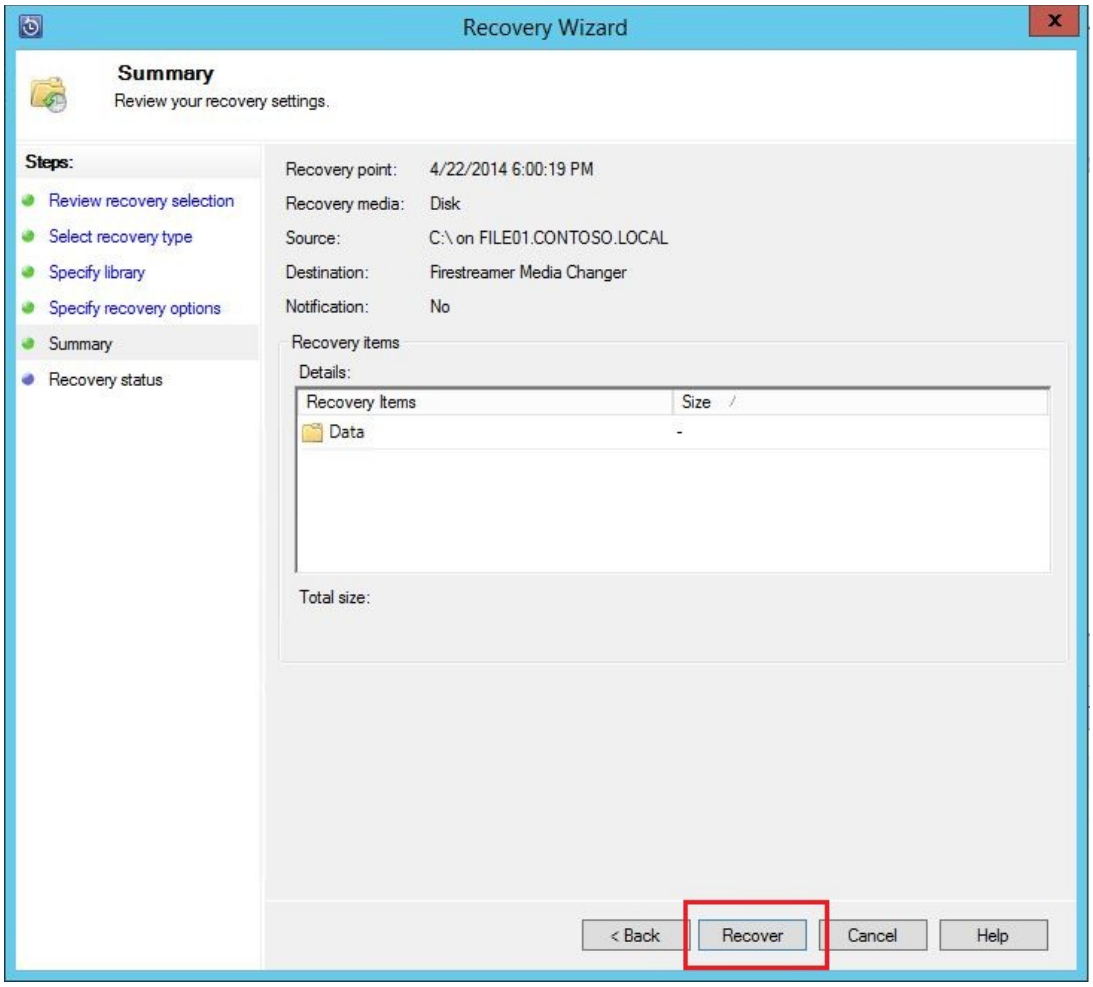

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to the original location
Original location: C:\ on FILE01.CONTOSO.LOCAL
Recover to an alternate location
Alternate location:
Browse...
Copy to tape
This option copies the volume that contains the selected data to tape in a DPM library.
Note that the volume might also contain data that was not selected for recovery.
< Back
Next >
Cancel
Help

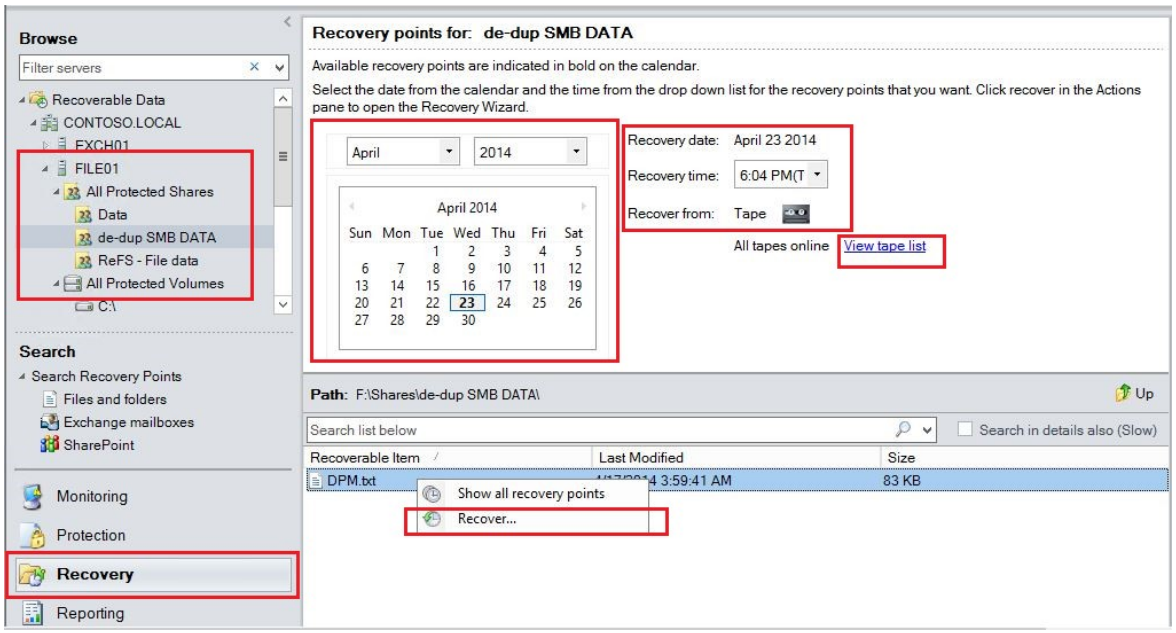

Specify Alternate Recovery Destination
Specify a recovery destination on a computer that has the protection agent installed.
CONTOSO.LOCAL
DC
DPM1
EXCH01
FILE01
PC
SCO
SHAREPOINT
SQL
Volumes
C:\
$Recycle.Bin
PerfLogs
Program Files
Program Files (x86)
ProgramData
RESTORE
Users
Windows
Shares
OK
Cancel
Help

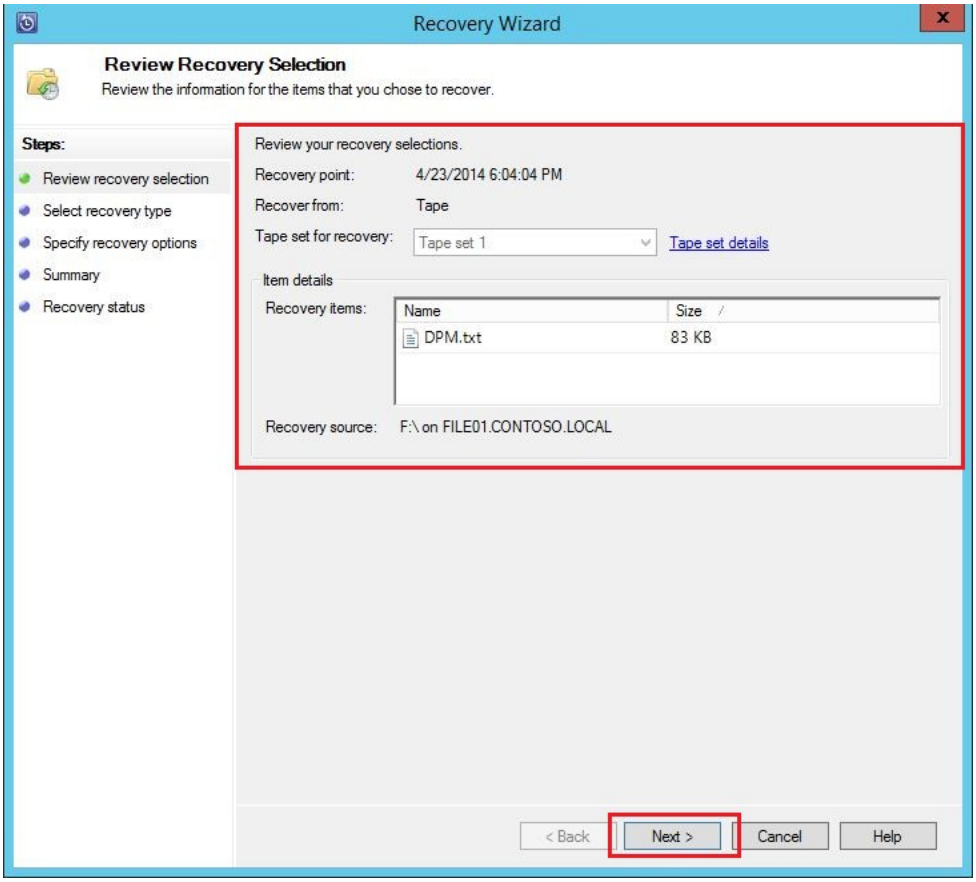

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify library
Specify recovery options
Summary
Recovery status
Recover to the original location
Original location: C:\ on FILE01.CONTOSO.LOCAL
Recover to an alternate location
Alternate location:
Browse...
Copy to tape
This option copies the volume that contains the selected data to tape in a DPM library.
Note that the volume might also contain data that was not selected for recovery.
< Back
Next >
Cancel
Help

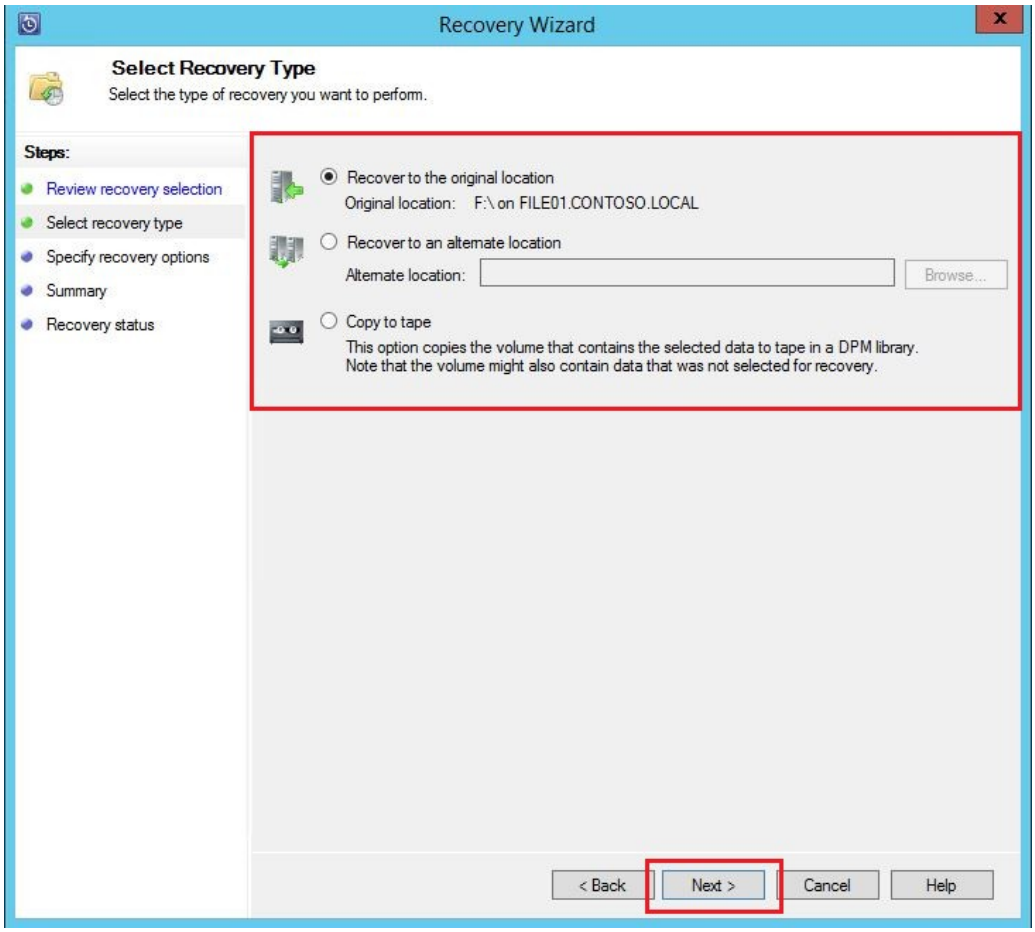

Recovery Wizard
Specify Library
Select library and specify the tape options for recovery.
Steps:
Review recovery selection
Select recovery type
Specify library
Specify recovery options
Summary
Recovery status
Data Protection Manager will copy the following item to a tape in the selected library.
Copy item: C:\ on FILE01.CONTOSO.LOCAL
Size: -
Library details
Specify the library to use for the recovery.
Primary library: Firestreamer Media Changer
Copy library:
The copy library is enabled only when the primary library has a single drive.
Tape options
Tape label: DPM_Recovered_C:\ on FILE01.CONTOSO.LOCAL
Data on tape:
Compress
Encrypt (Encrypted tape can be read only by a DPM Server)
Do not compress or encrypt
< Back
Next >
Cancel
Help

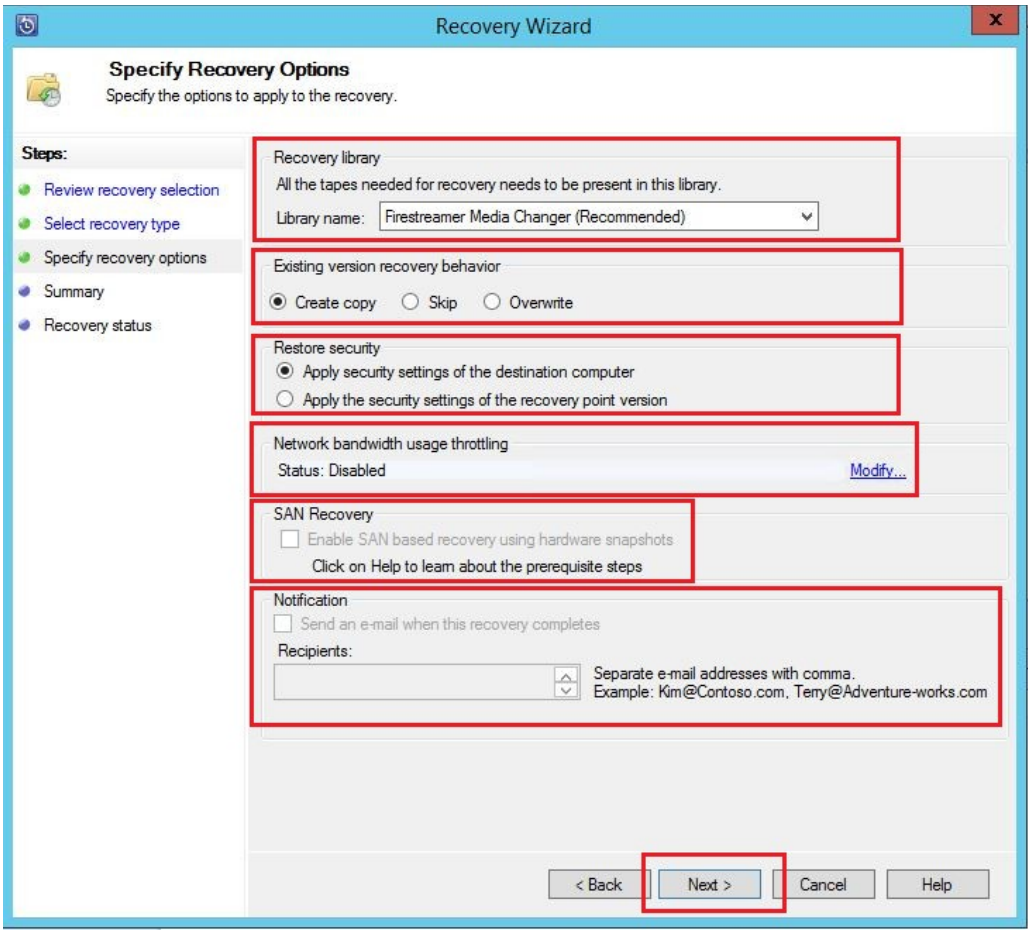

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify library
Specify recovery options
Summary
Recovery status
SAN Recovery
Enable SAN based recovery using hardware snapshots
Click on Help to learn about the 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

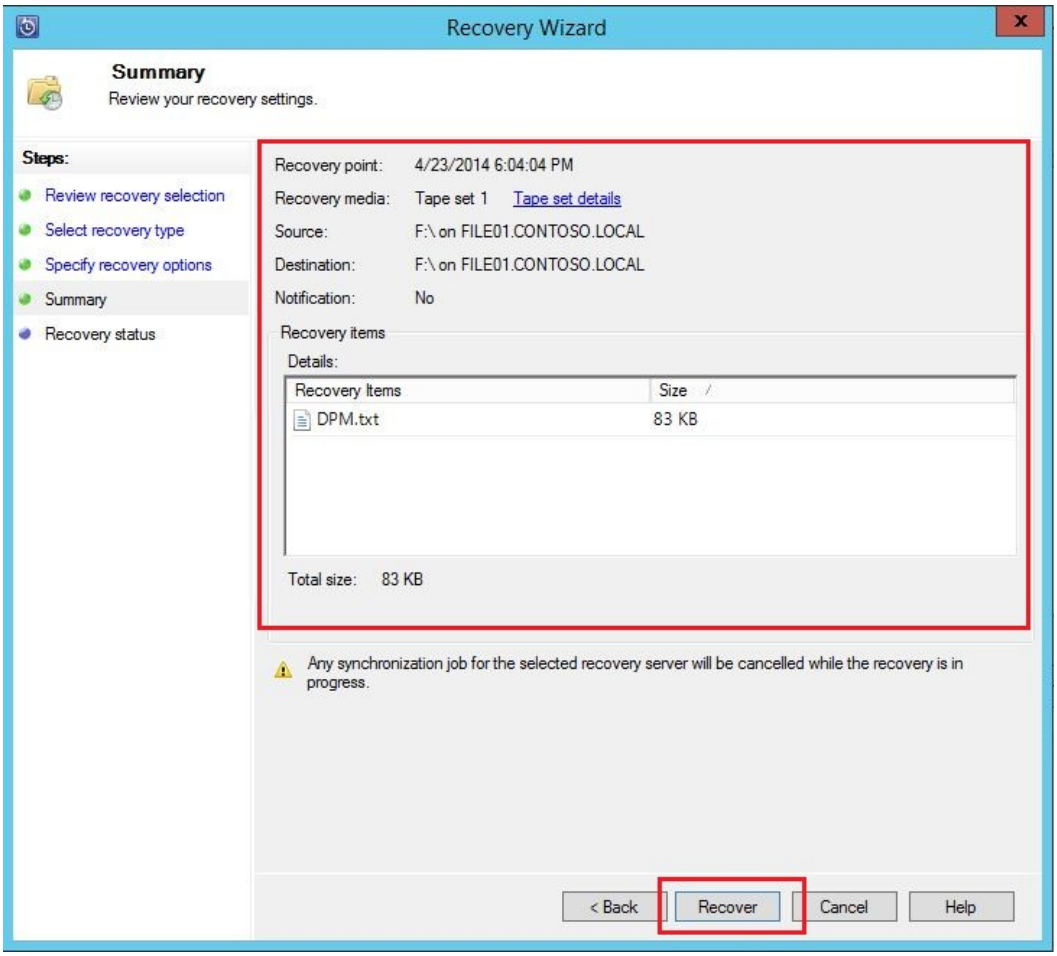

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify library
Specify recovery options
Summary
Recovery status
Recovery point: 4/22/2014 6:00:19 PM
Recovery media: Disk
Source: C:\ on FILE01.CONTOSO.LOCAL
Destination: Firestreamer Media Changer
Notification: No
Recovery items
Details:
Recovery Items
Size
Data
-
Total size:
< Back
Recover
Cancel
Help

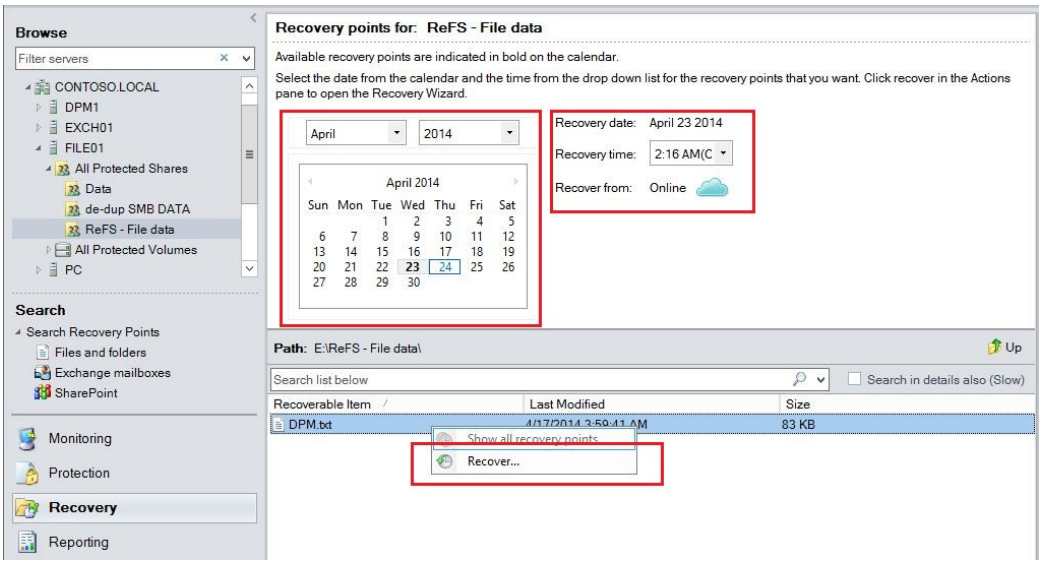

Browse
Filter servers
Recoverable Data
CONTOSO.LOCAL
EXCH01
FILE01
All Protected Shares
Data
de-dup SMB DATA
ReFS - File data
All Protected Volumes
C:\
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Recovery points for: de-dup SMB 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 Recovery Wizard.
April
2014
April 2014
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: April 23 2014
Recovery time: 6:04 PM(T
Recover from: Tape
All tapes online
View tape list
Path: F:\Shares\de-dup SMB DATA\
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
DPM.txt
3:59:41 AM
83 KB
Show all recovery points
Recover...

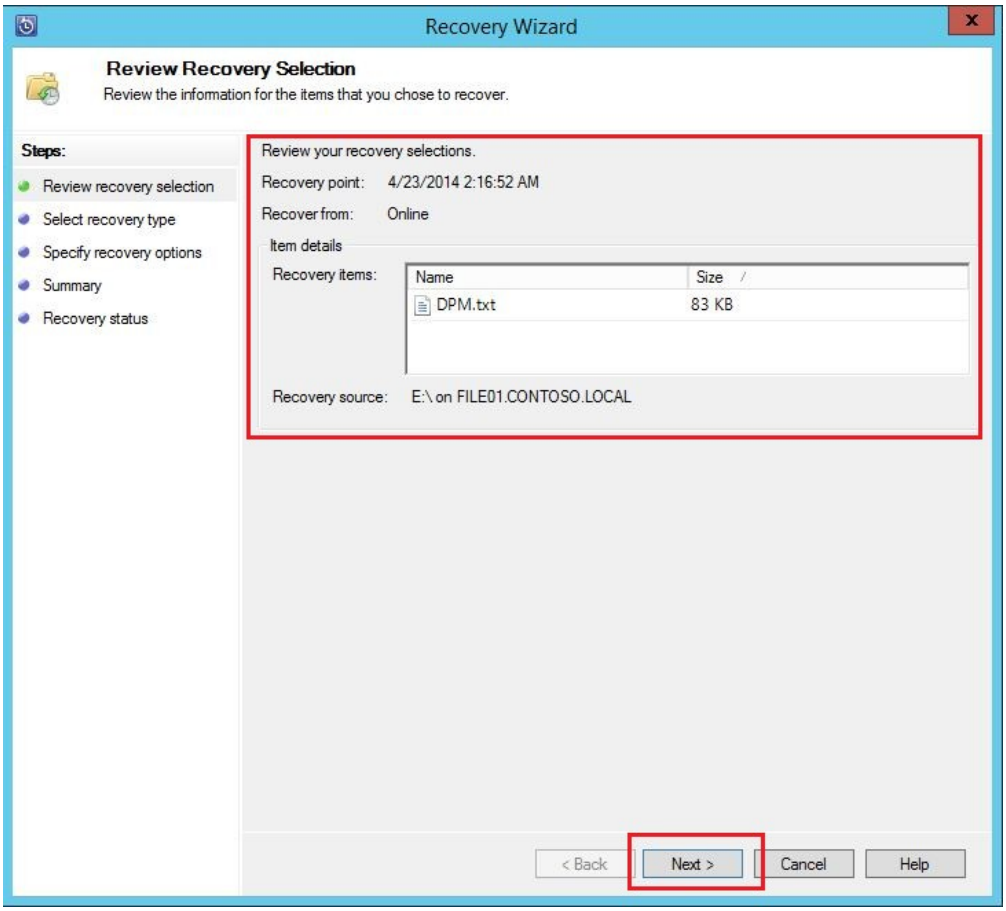

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 4/23/2014 6:04:04 PM
Recover from: Tape
Tape set for recovery: Tape set 1
Tape set details
Item details
Recovery items:
Name
Size
DPM.txt
83 KB
Recovery source: F:\ on FILE01.CONTOSO.LOCAL
< Back
Next >
Cancel
Help

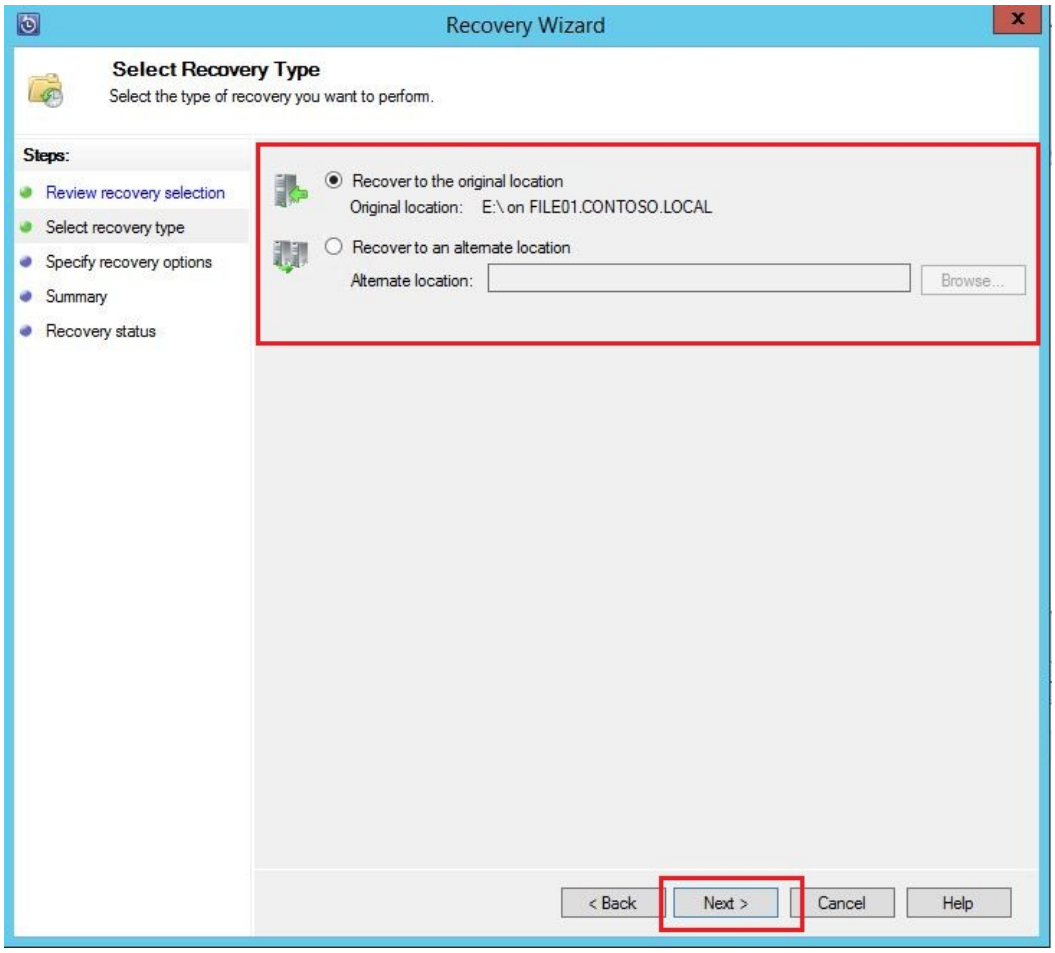

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to the original location
Original location: F:\ on FILE01.CONTOSO.LOCAL
Recover to an alternate location
Alternate location:
Browse...
Copy to tape
This option copies the volume that contains the selected data to tape in a DPM library.
Note that the volume might also contain data that was not selected for recovery.
< Back
Next >
Cancel
Help

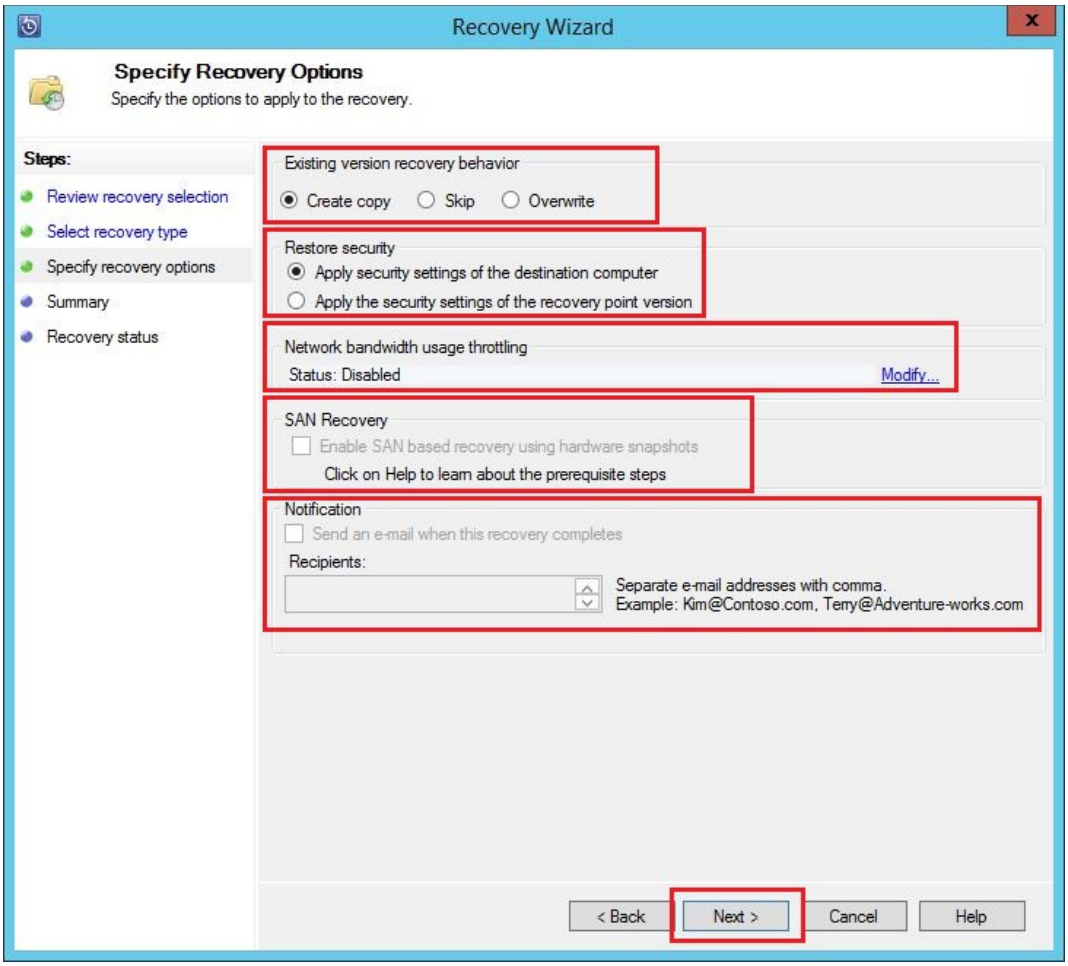

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery library
All the tapes needed for recovery needs to be present in this library.
Library name:
Firestreamer Media Changer (Recommended)
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

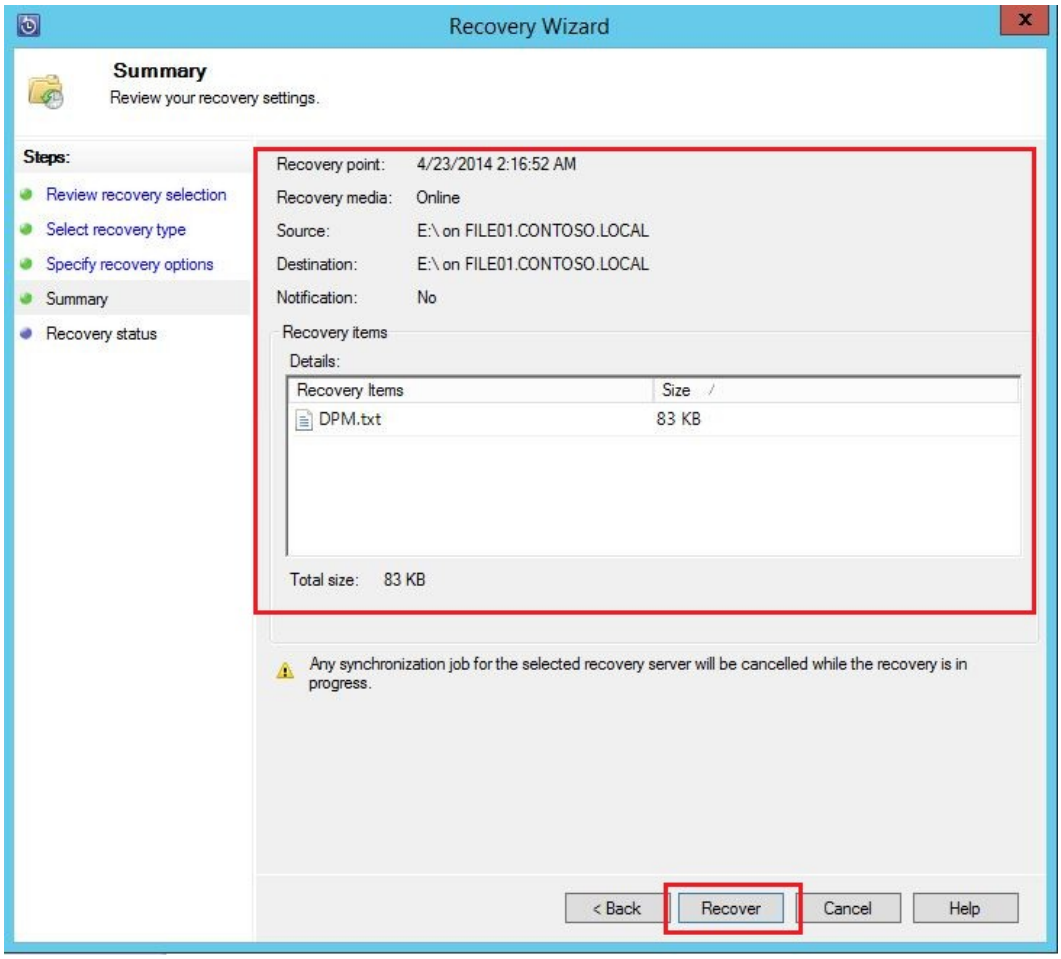

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery point: 4/23/2014 6:04:04 PM
Recovery media: Tape set 1 Tape set details
Source: F:\ on FILE01.CONTOSO.LOCAL
Destination: F:\ on FILE01.CONTOSO.LOCAL
Notification: No
Recovery items
Details:
Recovery Items
Size
DPM.txt
83 KB
Total size: 83 KB
Any synchronization job for the selected recovery server will be cancelled while the recovery is in progress.
< Back
Recover
Cancel
Help

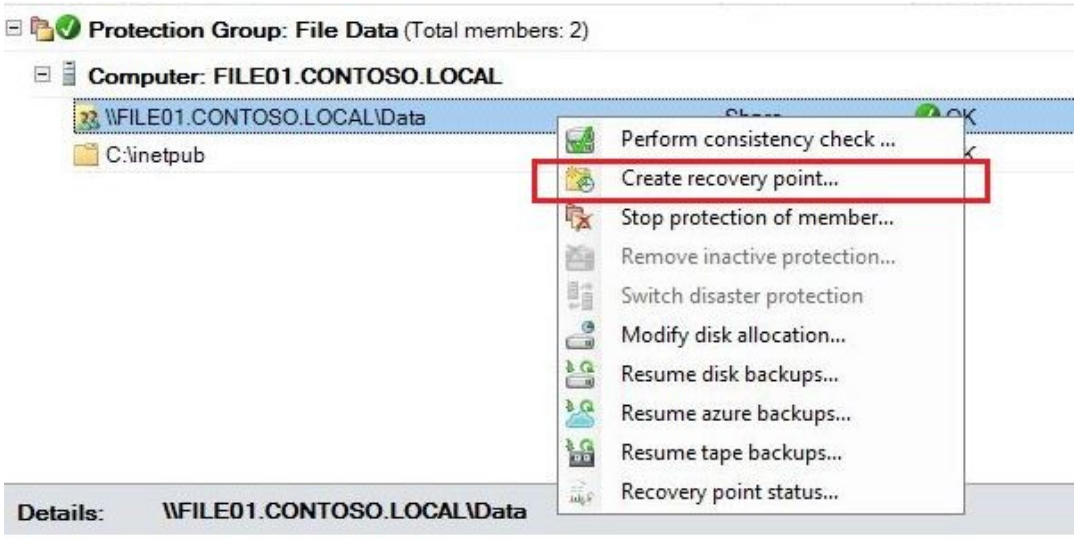

Browse
Filter servers
CONTOSO.LOCAL
DPM1
EXCH01
FILE01
All Protected Shares
Data
de-dup SMB DATA
ReFS - File data
All Protected Volumes
PC
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Recovery points for: ReFS - File data
Available 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 Recovery Wizard.
April
2014
April 2014
Sun Mon Tue Wed Thu Fri Sat
Recovery date: April 23 2014
Recovery time: 2:16 AM(C
Recover from: Online
Path: E:\ReFS - File data\
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
DPM.txt
83 KB
Show all recovery points
Recover...

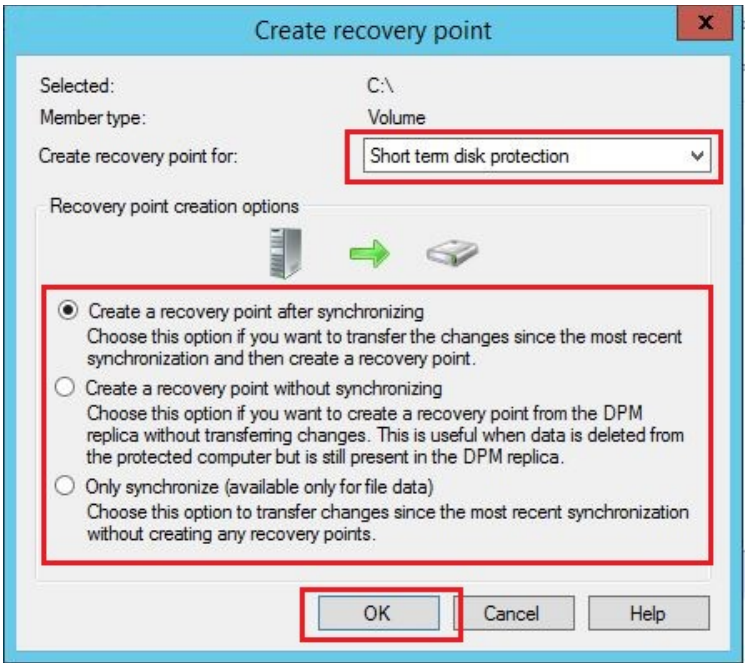

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 4/23/2014 2:16:52 AM
Recover from: Online
Item details
Recovery items:
Name
Size
DPM.txt
83 KB
Recovery source: E:\ on FILE01.CONTOSO.LOCAL
< Back
Next >
Cancel
Help

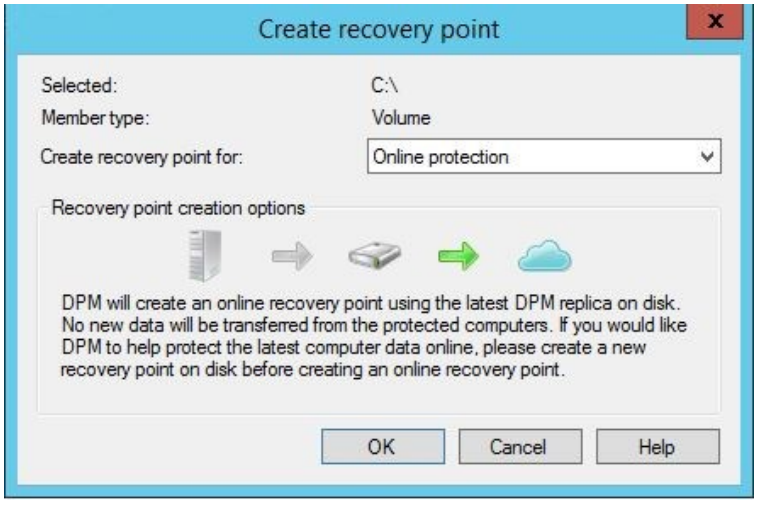

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to the original location
Original location: E:\ on FILE01.CONTOSO.LOCAL
Recover to an alternate location
Alternate location:
Browse...
< Back
Next >
Cancel
Help

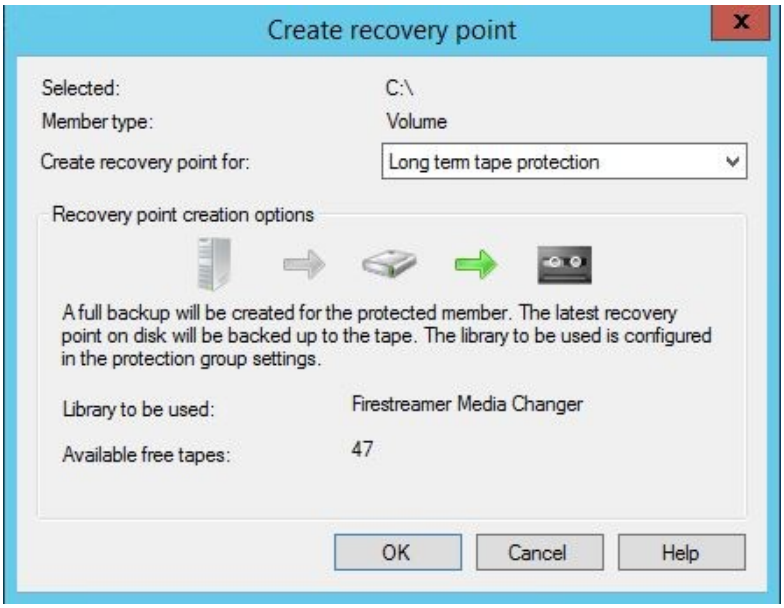

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Existing version recovery behavior
Create copy
Skip
Overwrite
Restore security
Apply security settings of the destination 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

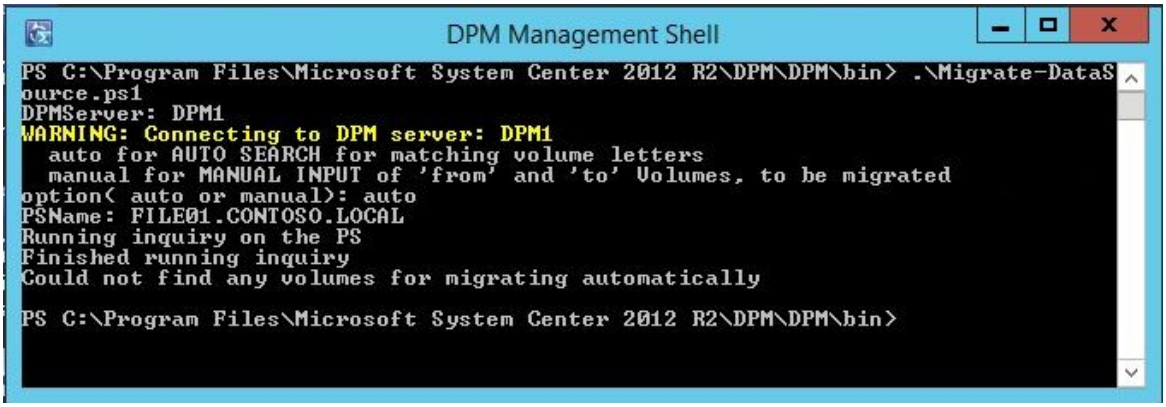

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery point: 4/23/2014 2:16:52 AM
Recovery media: Online
Source: E:\ on FILE01.CONTOSO.LOCAL
Destination: E:\ on FILE01.CONTOSO.LOCAL
Notification: No
Recovery items
Details:
Recovery Items
Size
DPM.txt
83 KB
Total size: 83 KB
Any synchronization job for the selected recovery server will be cancelled while the recovery is in progress.
< Back
Recover
Cancel
Help


Protection Group: File Data (Total members: 2)
Computer: FILE01.CONTOSO.LOCAL
\\FILE01.CONTOSO.LOCAL\Data
C:\inetpub
Perform consistency check ...
Create recovery point...
Stop protection of member...
Remove inactive protection...
Switch disaster protection
Modify disk allocation...
Resume disk backups...
Resume azure backups...
Resume tape backups...
Recovery point status...
Details: \\FILE01.CONTOSO.LOCAL\Data


Create recovery point
Selected:
C:\
Member type:
Volume
Create recovery point for:
Short term disk protection
Recovery point creation options
Create a recovery point after synchronizing
Choose this option if you want to transfer the changes since the most recent synchronization and then create a recovery point.
Create a recovery point without synchronizing
Choose this option if you want to create a recovery point from the DPM replica without transferring changes. This is useful when data is deleted from the protected computer but is still present in the DPM replica.
Only synchronize (available only for file data)
Choose this option to transfer changes since the most recent synchronization without creating any recovery points.
OK
Cancel
Help


Create recovery point
Selected:
C:\
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

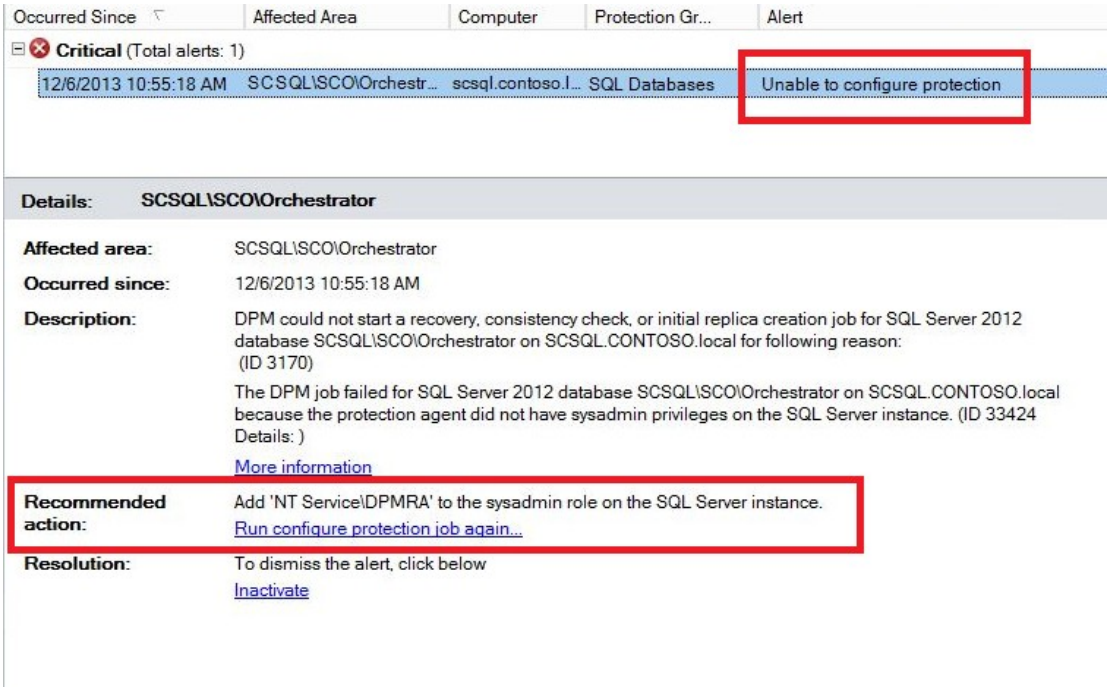

Create recovery point
Selected:
C:\
Member type:
Volume
Create recovery point for:
Long term tape protection
Recovery point creation options
A full backup will be created for the protected member. The latest recovery point on disk will be backed up to the tape. The library to be used is configured in the protection group settings.
Library to be used:
Firestreamer Media Changer
Available free tapes:
47
OK
Cancel
Help

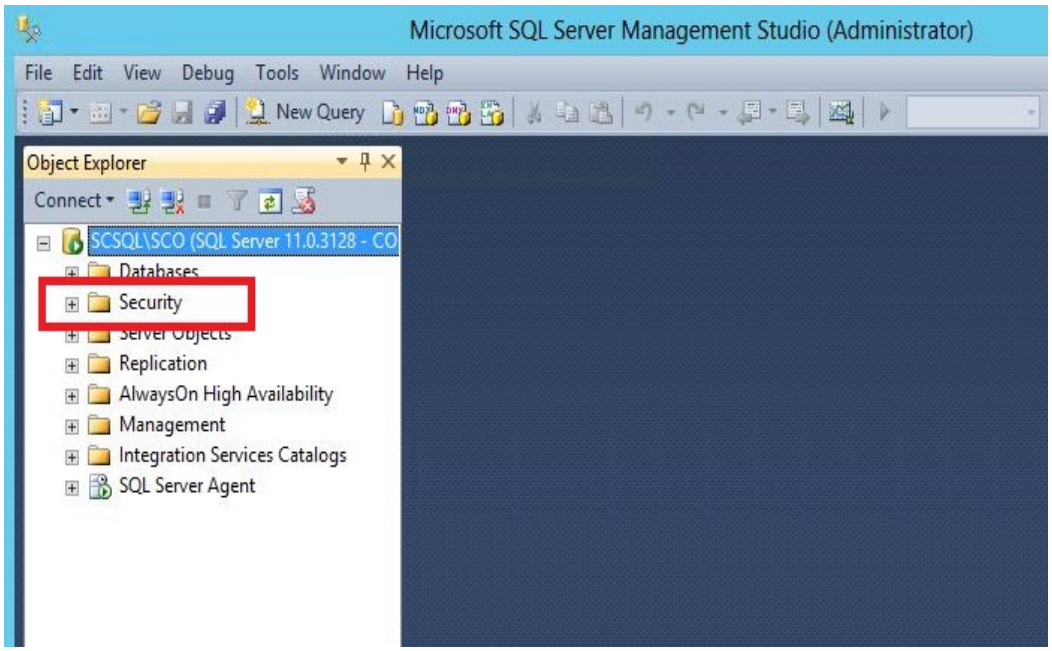

DPM Management Shell
PS C:\Program Files\Microsoft System Center 2012 R2\DPM\DPM\bin> .\Migrate-DataSource.ps1
DPMServer: DPM1
WARNING: Connecting to DPM server: DPM1
auto for AUTO SEARCH for matching volume letters
manual for MANUAL INPUT of 'from' and 'to' Volumes, to be migrated
option(auto or manual): auto
PSName: FILE01.CONTOSO.LOCAL
Running inquiry on the PS
Finished running inquiry
Could not find any volumes for migrating automatically
PS C:\Program Files\Microsoft System Center 2012 R2\DPM\DPM\bin>

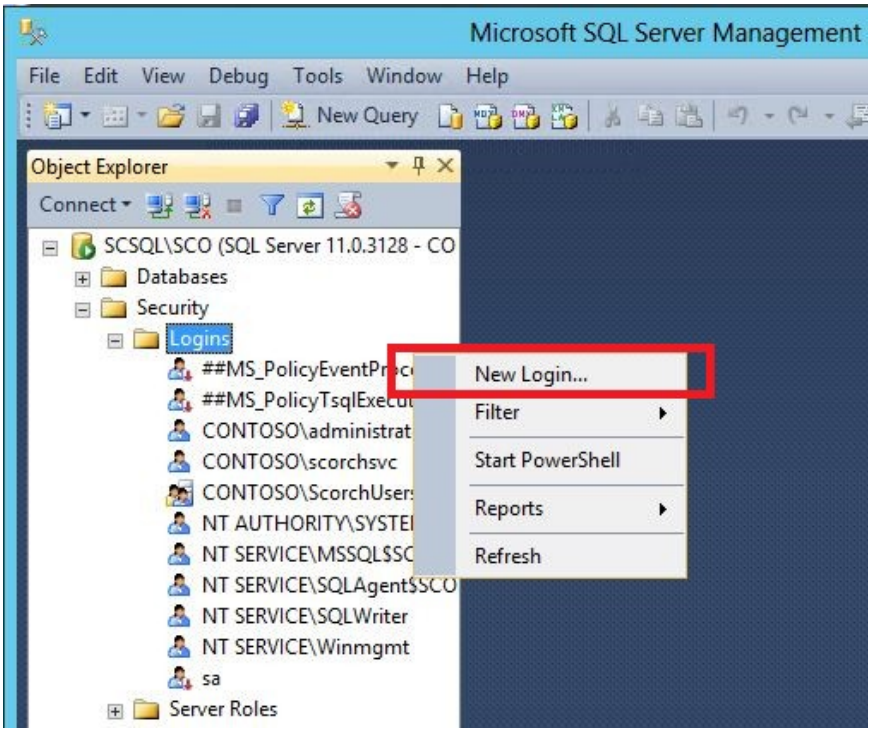
Chapter 5

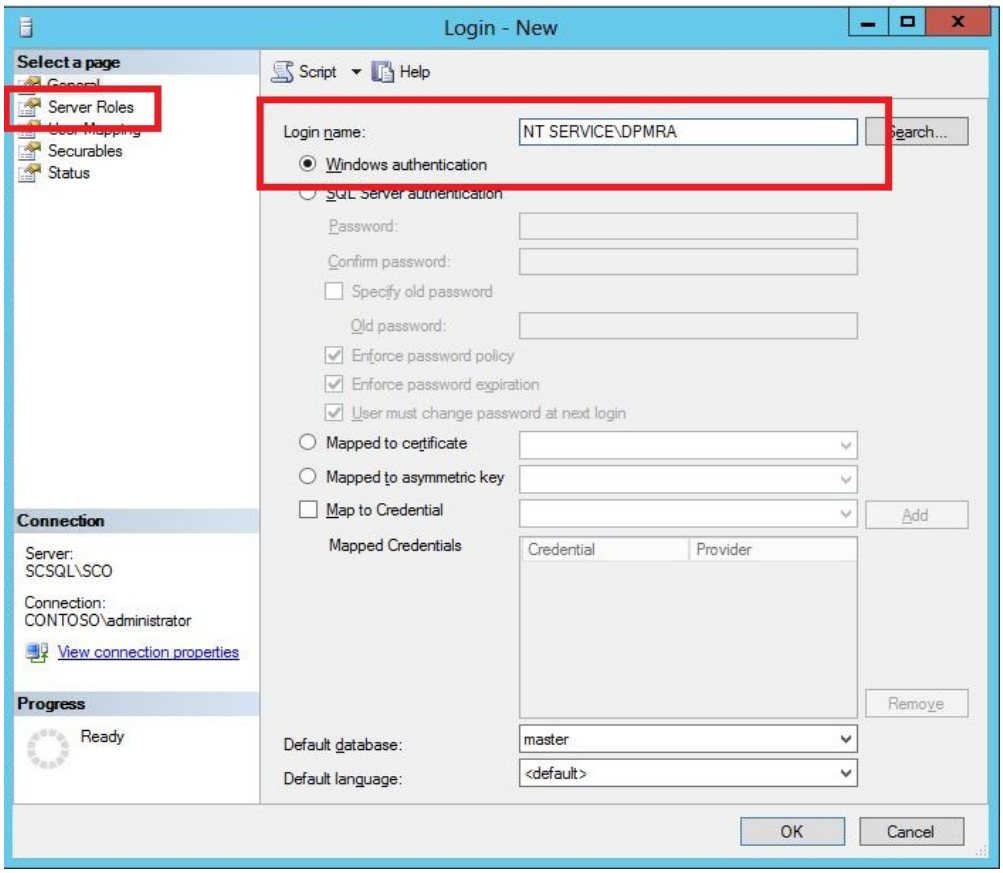
Protection Group: SQL Databases (Total members: 1)
Computer: SCSQL.CONTOSO.local
SCSQL\SCO\Orchestrator
SQL Data
Unable to configure protection
Enabled

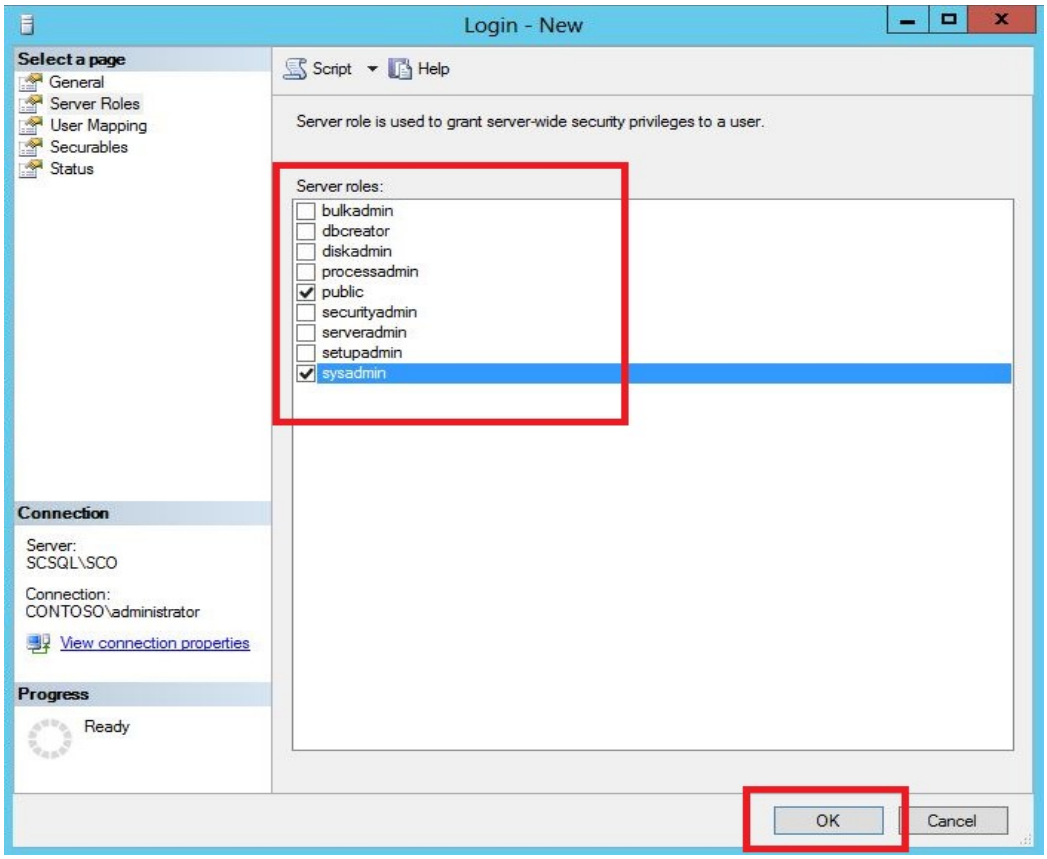
f


Occurred Since
Affected Area
Computer
Protection Gr...
Alert
Critical (Total alerts: 1)
12/6/2013 10:55:18 AM
SCSQL\SCO\Orchestr...
scsql.contoso.l...
SQL Databases
Unable to configure protection
Details: SCSQL\SCO\Orchestrator
Affected area: SCSQL\SCO\Orchestrator
Occurred since: 12/6/2013 10:55:18 AM
Description: DPM could not start a recovery, consistency check, or initial replica creation job for SQL Server 2012 database SCSQL\SCO\Orchestrator on SCSQL.CONTOSO.local for following reason: (ID 3170)
The DPM job failed for SQL Server 2012 database SCSQL\SCO\Orchestrator on SCSQL.CONTOSO.local because the protection agent did not have sysadmin privileges on the SQL Server instance. (ID 33424 Details:)
More information
Recommended action: Add 'NT Service\DPMRA' to the sysadmin role on the SQL Server instance.
Run configure protection job again...
Resolution: To dismiss the alert, click below
Inactivate

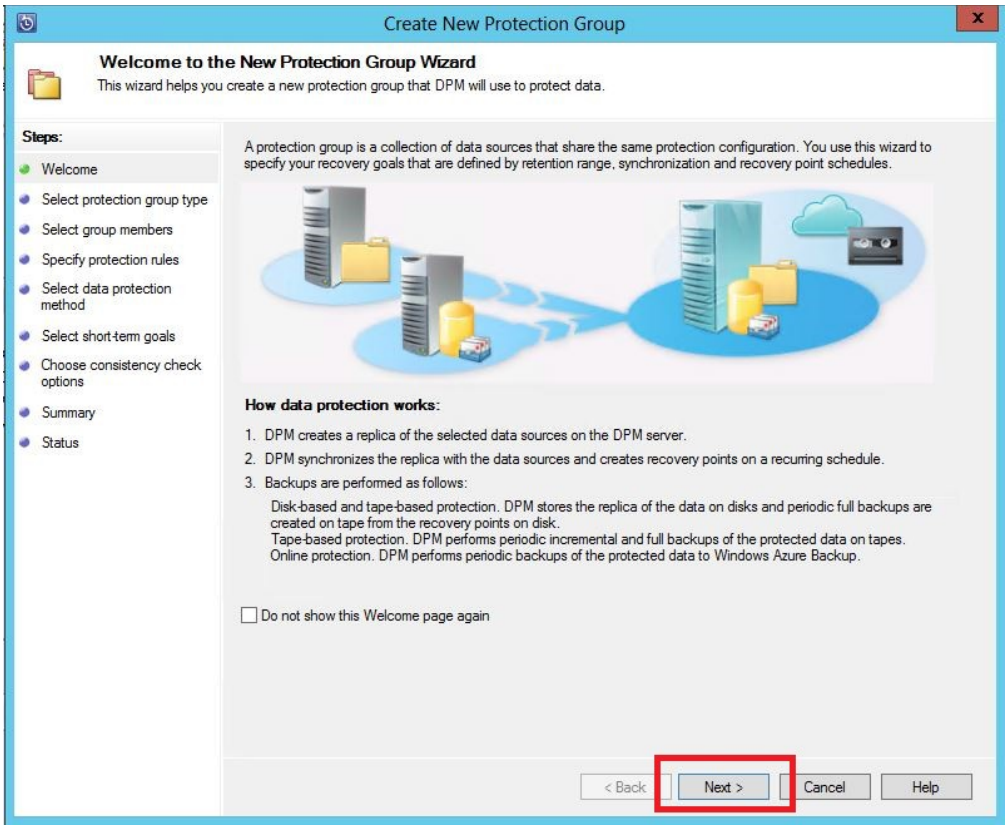

Microsoft SQL Server Management Studio (Administrator)
File Edit View Debug Tools Window Help
New Query
Object Explorer
Connect
SCSQL\SCO (SQL Server 11.0.3128 - CO
Databases
Security
Replication
AlwaysOn High Availability
Management
Integration Services Catalogs
SQL Server Agent

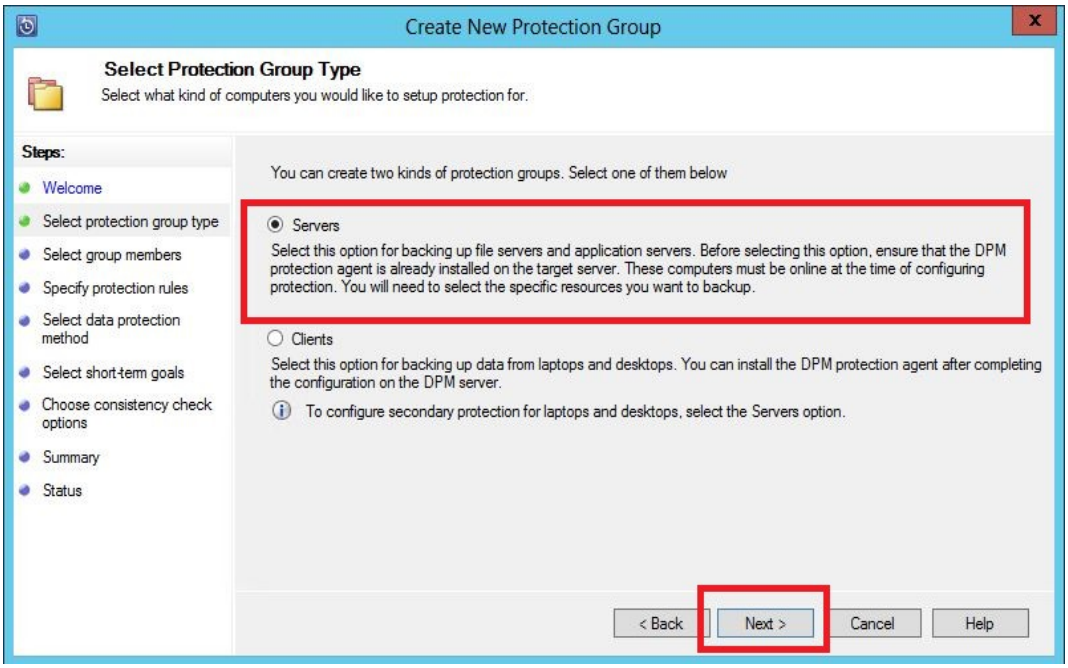

Microsoft SQL Server Management
File Edit View Debug Tools Window Help
New Query
Object Explorer
Connect
SCSQL\SCO (SQL Server 11.0.3128 - CO
Databases
Security
Logins
##MS_PolicyEventPr
##MS_PolicyTsqlExecut
CONTOSO\administrat
CONTOSO\scorchsvc
CONTOSO\ScorchUser
NT AUTHORITY\SYSTE
NT SERVICE\MSSQL$SC
NT SERVICE\SQLAgent$SCO
NT SERVICE\SQLWriter
NT SERVICE\Winmgmt
sa
Server Roles
New Login...
Filter
Start PowerShell
Reports
Refresh

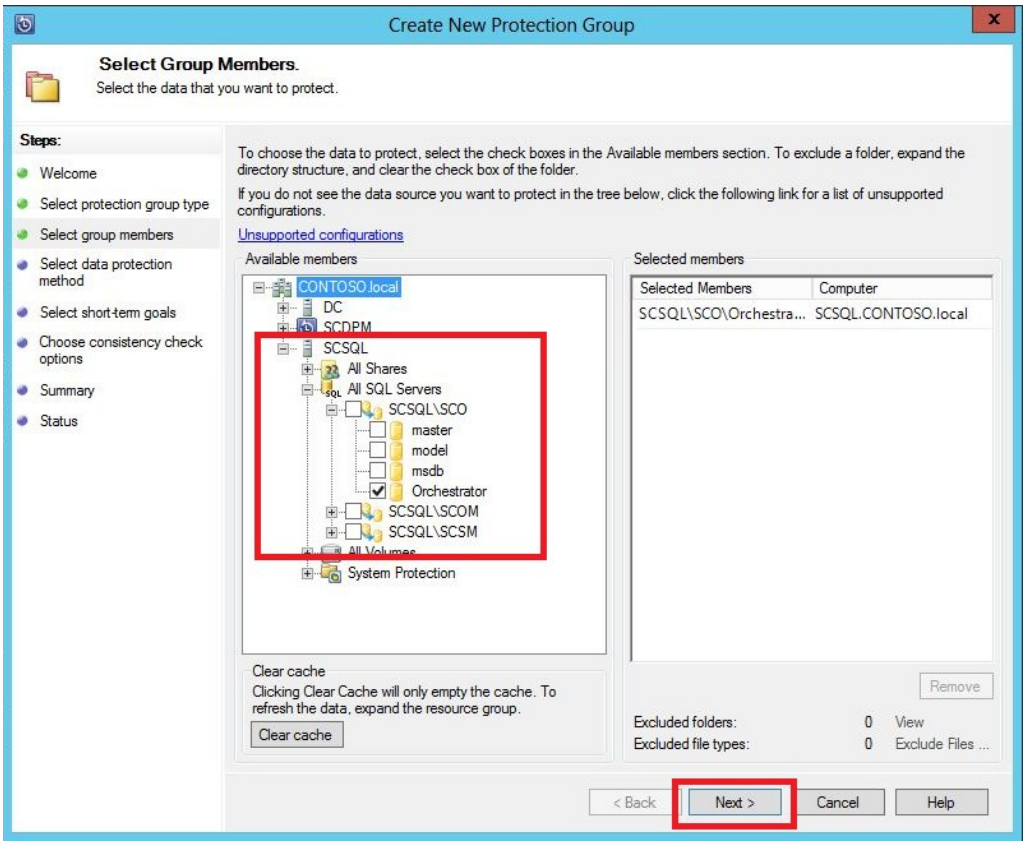

Login - New
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Login name:
NT SERVICE\DPMRA
Search...
Windows authentication
SQL Server authentication
Password:
Confirm password:
Specify old password
Old password:
Enforce password policy
Enforce password expiration
User must change password at next login
Mapped to certificate
Mapped to asymmetric key
Map to Credential
Add
Mapped Credentials
Credential
Provider
Remove
Default database:
master
Default language:
<default>
Connection
Server:
SCSQL\SCO
Connection:
CONTOSO\administrator
View connection properties
Progress
Ready
OK
Cancel

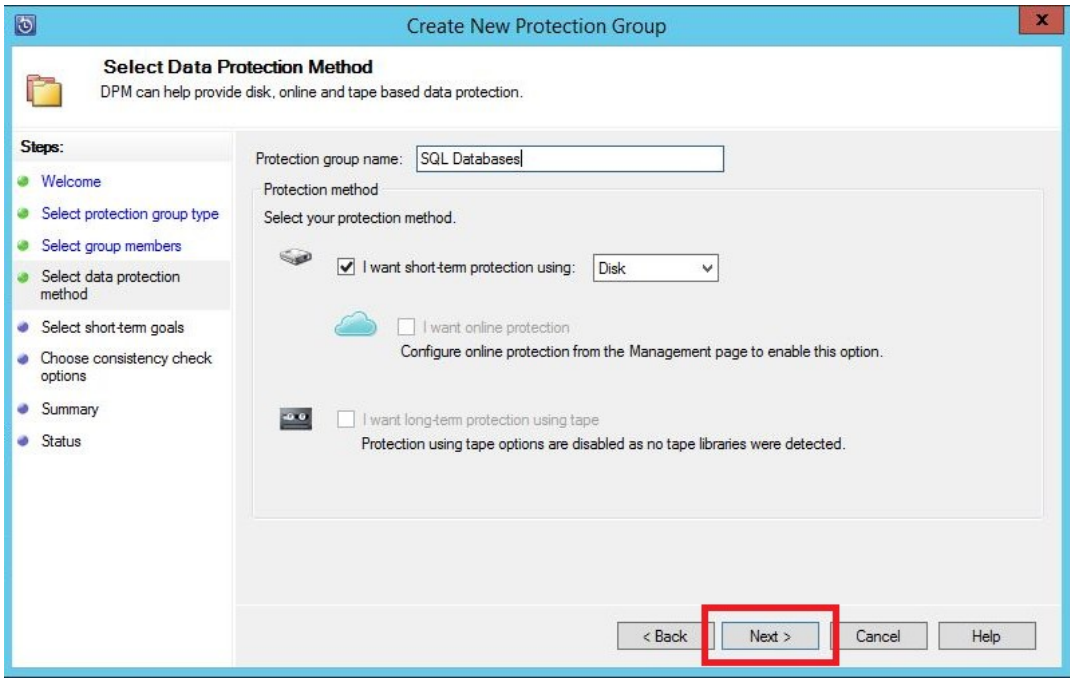

Login - New
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Server role is used to grant server-wide security privileges to a user.
Server roles:
bulkadmin
dbcreator
diskadmin
processadmin
public
securityadmin
serveradmin
setupadmin
sysadmin
Connection
Server:
SCSQL\SCO
Connection:
CONTOSO\administrator
View connection properties
Progress
Ready
OK
Cancel

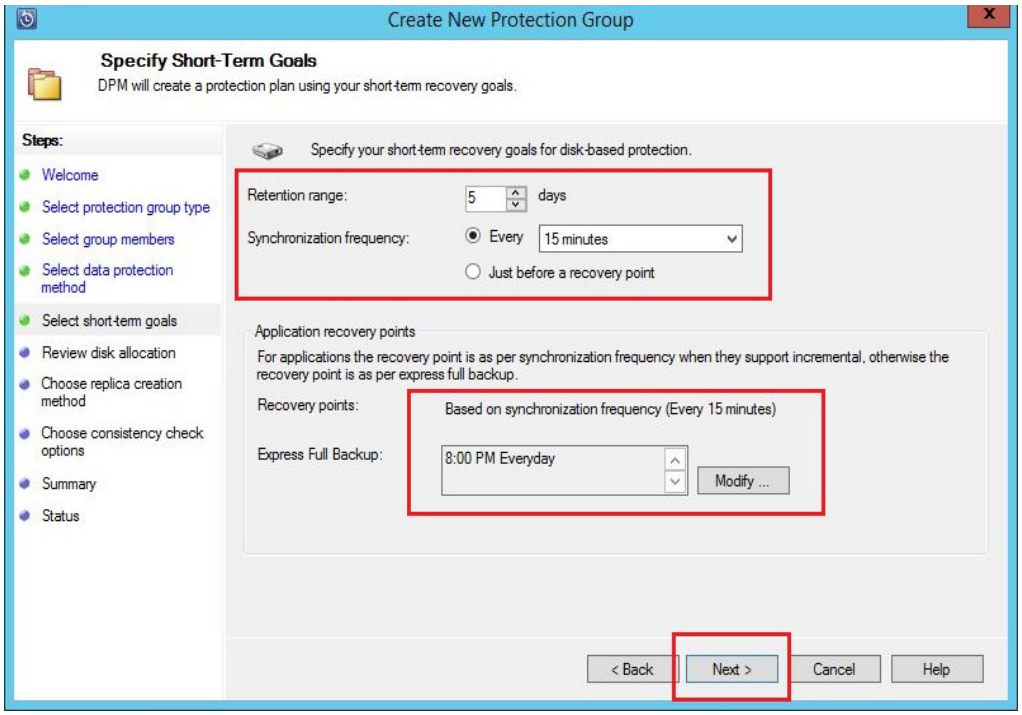
New
Modify
Delete
Optimize
Protection group

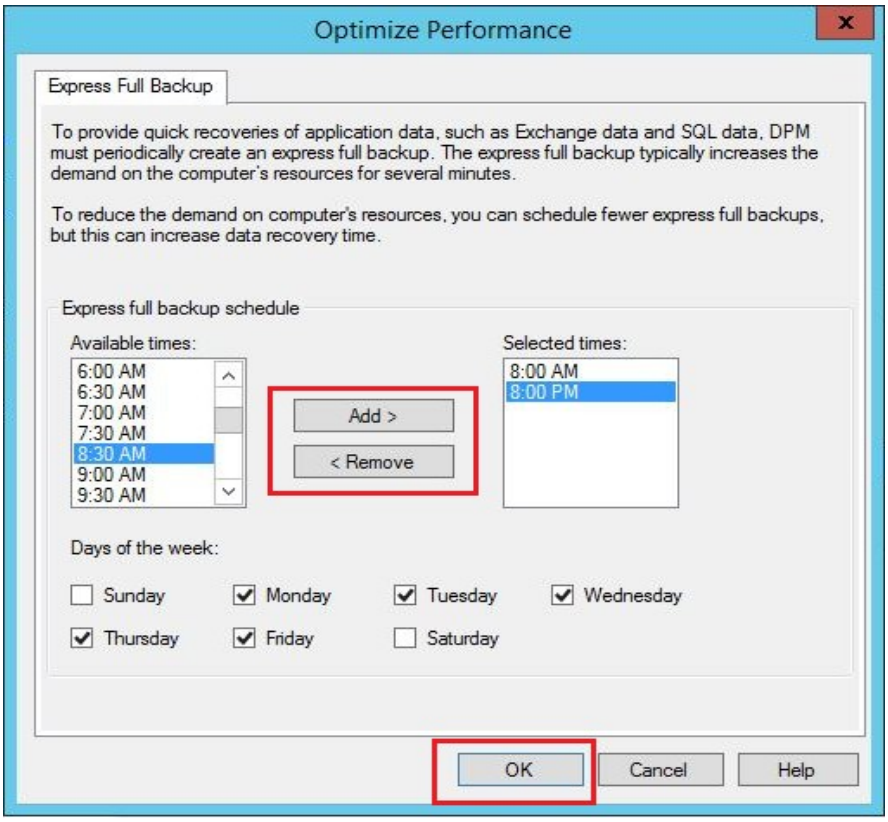

Create New Protection Group
Welcome to the New Protection Group Wizard
This wizard helps you create a new protection group that DPM will use to protect data.
Steps:
Welcome
Select protection group type
Select group members
Specify protection rules
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
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 Windows Azure Backup.
Do not show this Welcome page again
< Back
Next >
Cancel
Help

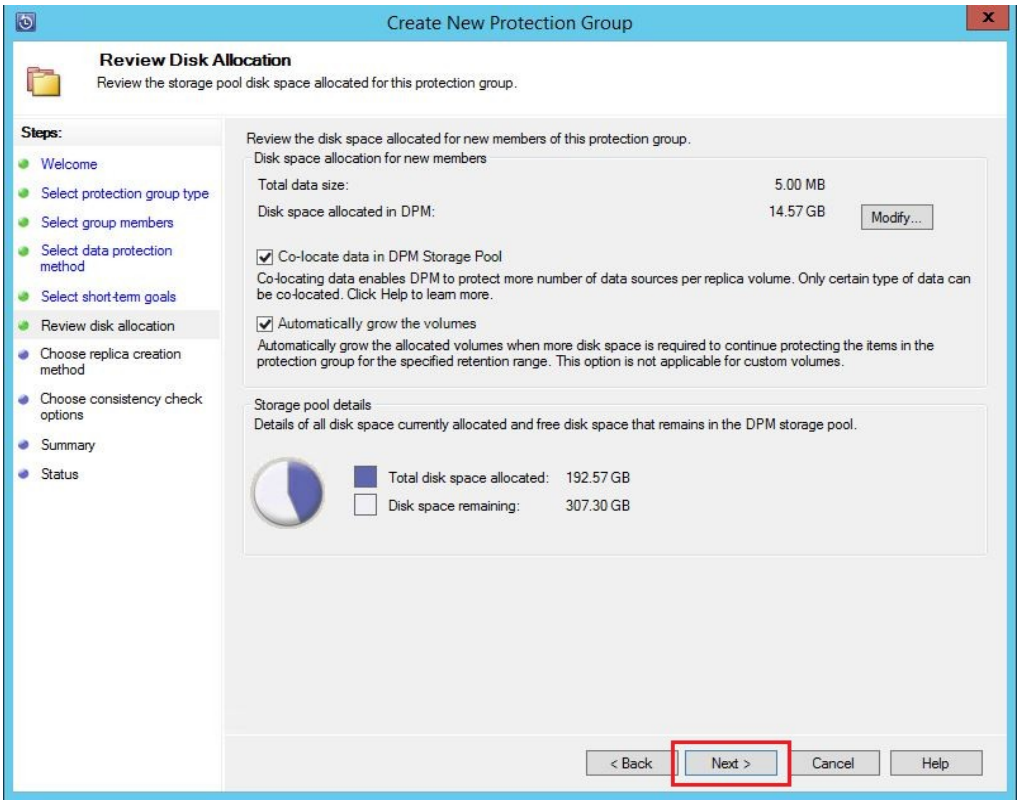

Create New Protection Group
Select Protection Group Type
Select what kind of computers you would like to setup protection for.
Steps:
Welcome
Select protection group type
Select group members
Specify protection rules
Select data protection method
Select short-term goals
Choose consistency check options
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

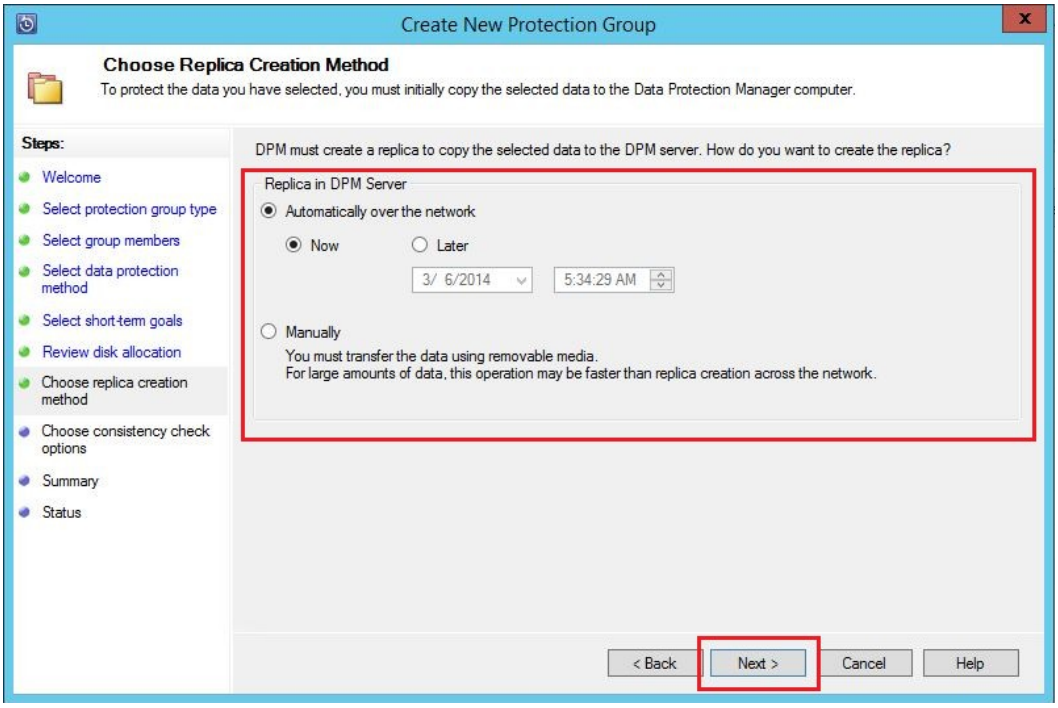

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.local
DC
SCDPM
SCSQL
All Shares
All SQL Servers
SCSQL\SCO
master
model
msdb
Orchestrator
SCSQL\SCOM
SCSQL\SCSM
System Protection
Selected members
Selected Members
Computer
SCSQL\SCO\Orchestra...
SCSQL.CONTOSO.local
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

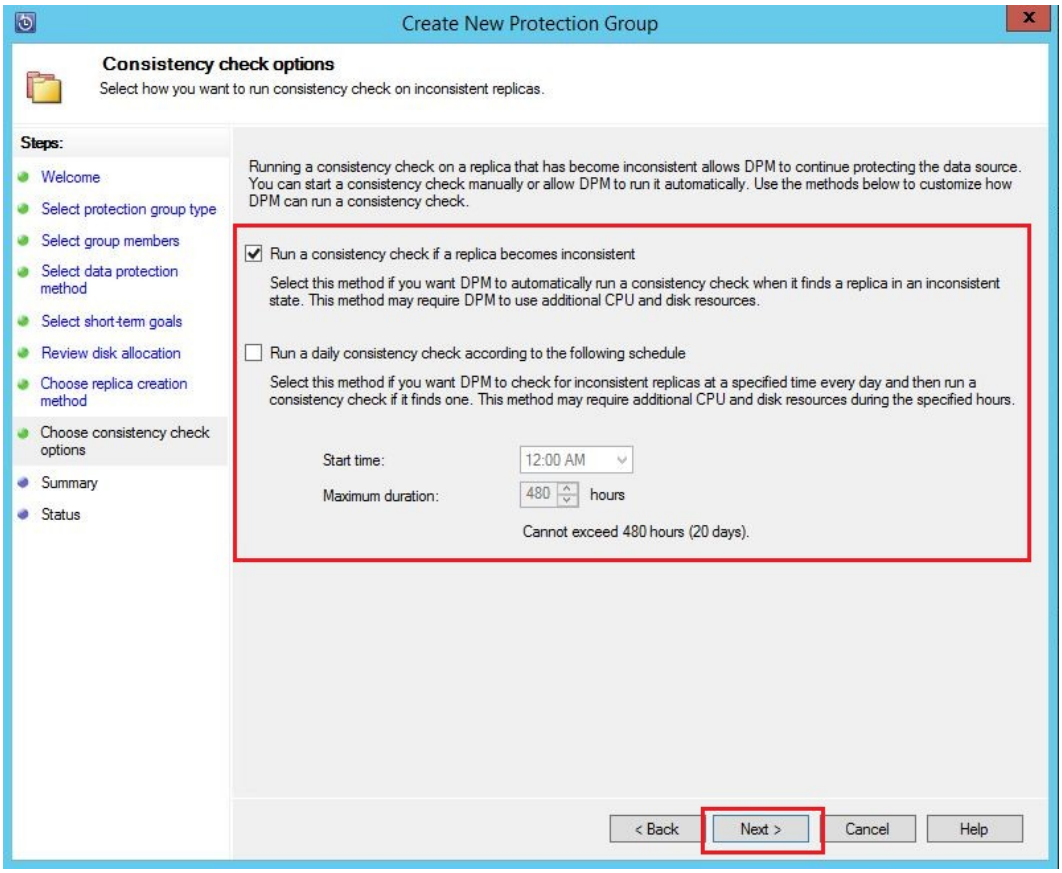

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
Protection group name: SQL Databases
Protection method
Select your protection method.
I want short-term protection using: Disk
I want online protection
Configure online protection from the Management page to enable this option.
I want long-term protection using tape
Protection using tape options are disabled as no tape libraries were detected.
< Back
Next >
Cancel
Help

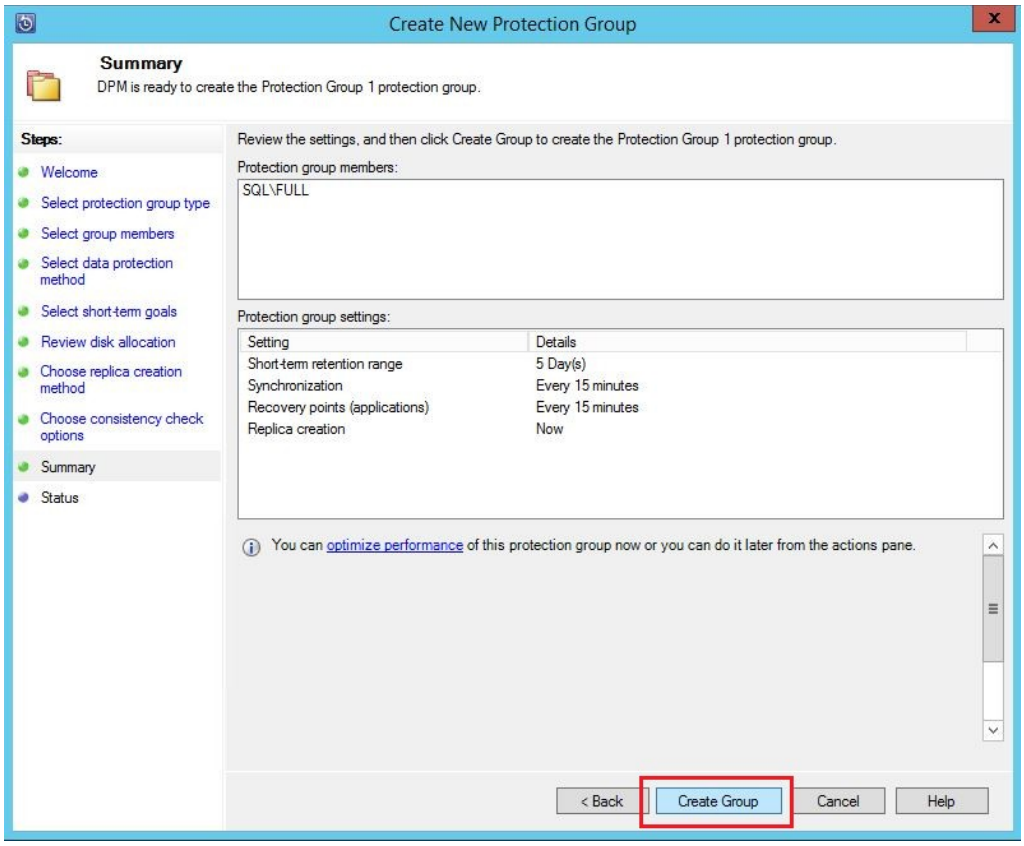

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
5
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 ...
< Back
Next >
Cancel
Help

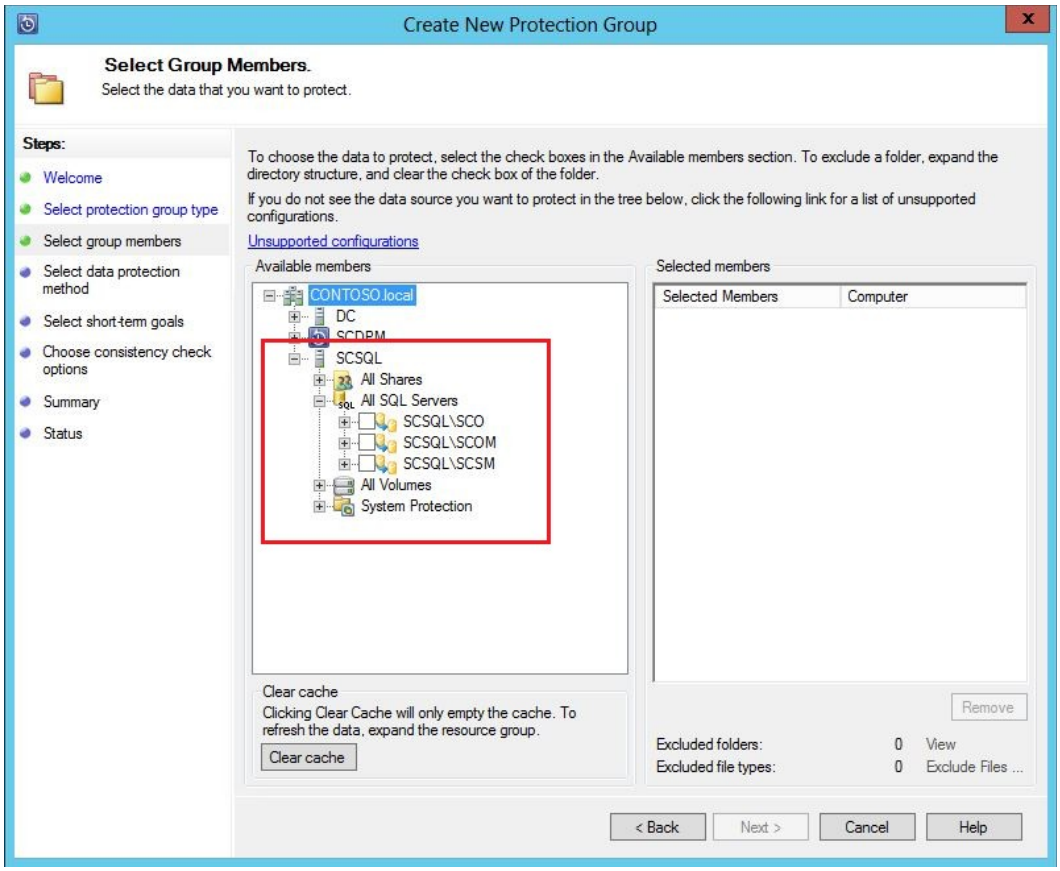

Optimize Performance
Express Full Backup
To provide quick recoveries of application data, such as Exchange data and SQL data, DPM must periodically create an express full backup. The express full backup typically increases the demand on the computer's resources for several minutes.
To reduce the demand on computer's resources, you can schedule fewer express full backups, but this can increase data recovery time.
Express full backup schedule
Available times:
6:00 AM
6:30 AM
7:00 AM
7:30 AM
8:30 AM
9:00 AM
9:30 AM
Add >
< Remove
Selected times:
8:00 AM
8:00 PM
Days of the week:
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
OK
Cancel
Help

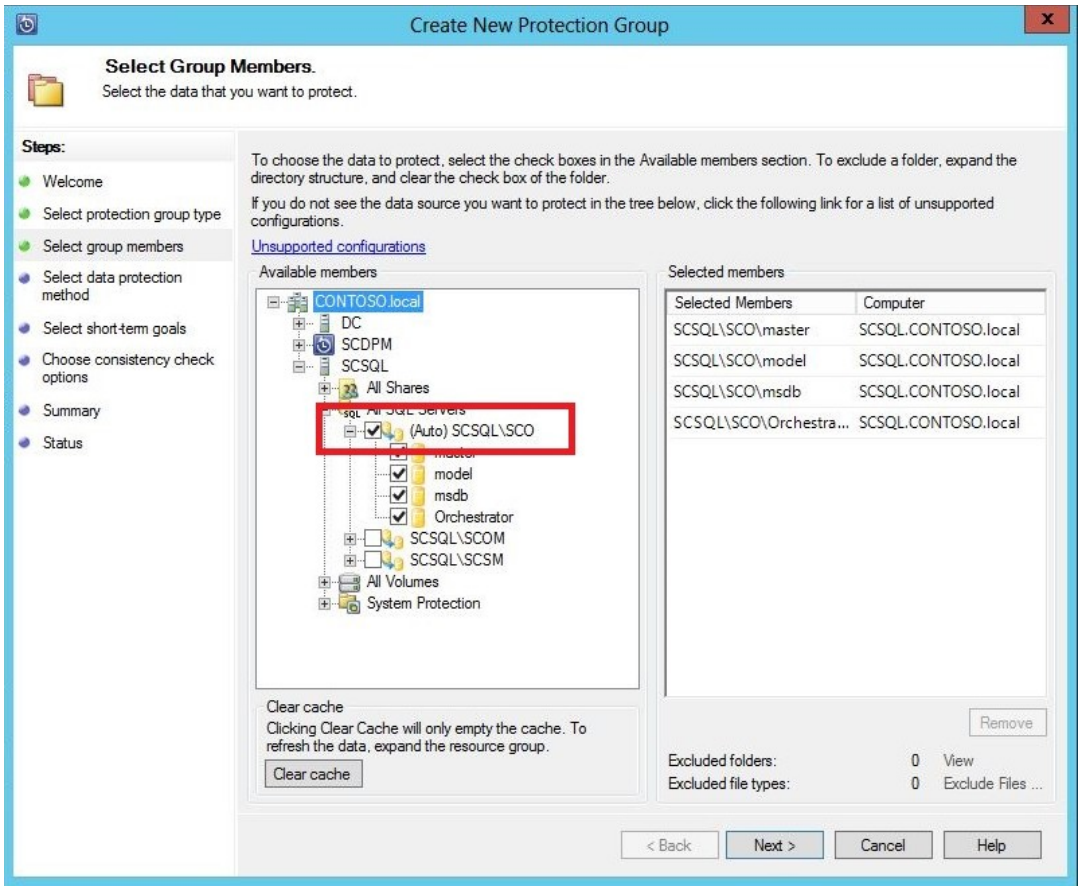

Create New Protection Group
Review Disk Allocation
Review the storage pool disk space allocated for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review the disk space allocated for new members of this protection group.
Disk space allocation for new members
Total data size: 5.00 MB
Disk space allocated in DPM: 14.57 GB
Modify...
Co-locate data in DPM Storage Pool
Co-locating data enables DPM to protect more number of data sources per replica volume. Only certain type of data can be co-located. Click Help to learn more.
Automatically grow the volumes
Automatically grow the allocated volumes when more disk space is required to continue protecting the items in the protection group for the specified retention range. This option is not applicable for custom volumes.
Storage pool details
Details of all disk space currently allocated and free disk space that remains in the DPM storage pool.
Total disk space allocated: 192.57 GB
Disk space remaining: 307.30 GB
< Back
Next >
Cancel
Help

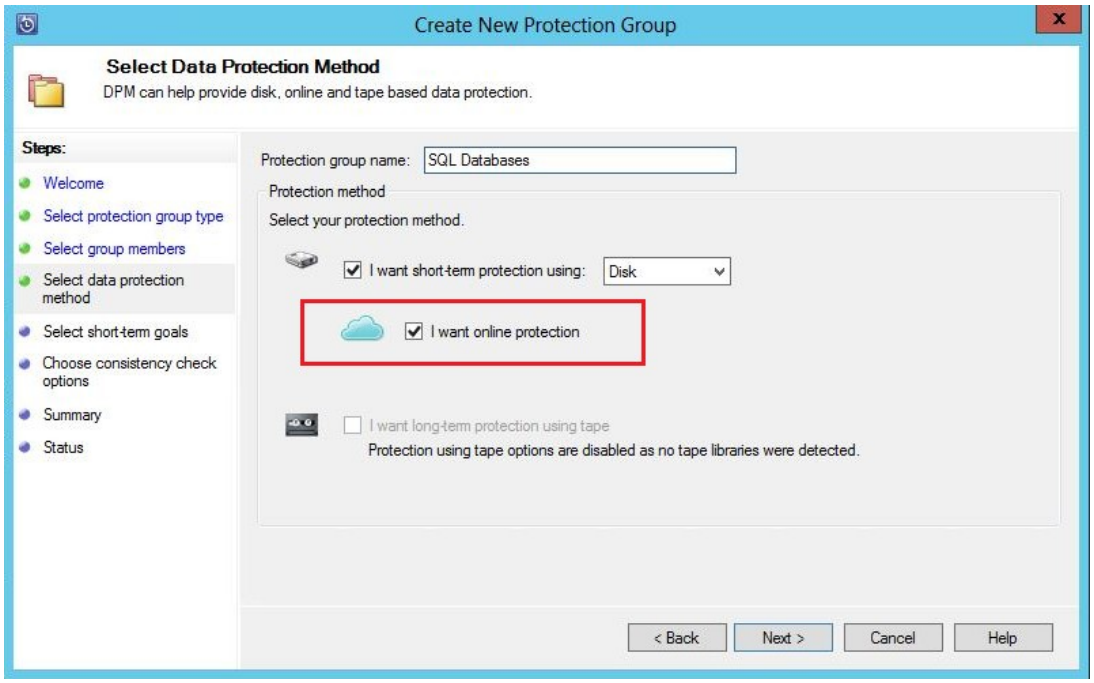

Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk 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
3/ 6/2014
5:34:29 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

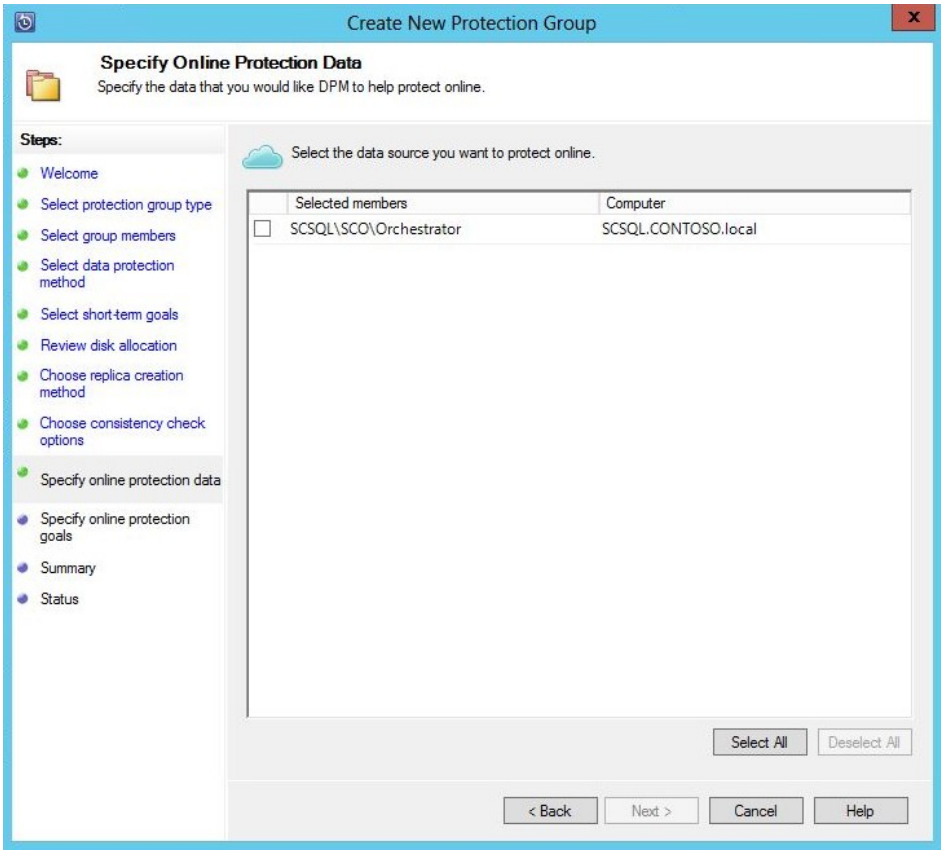

Create New Protection Group
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose 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

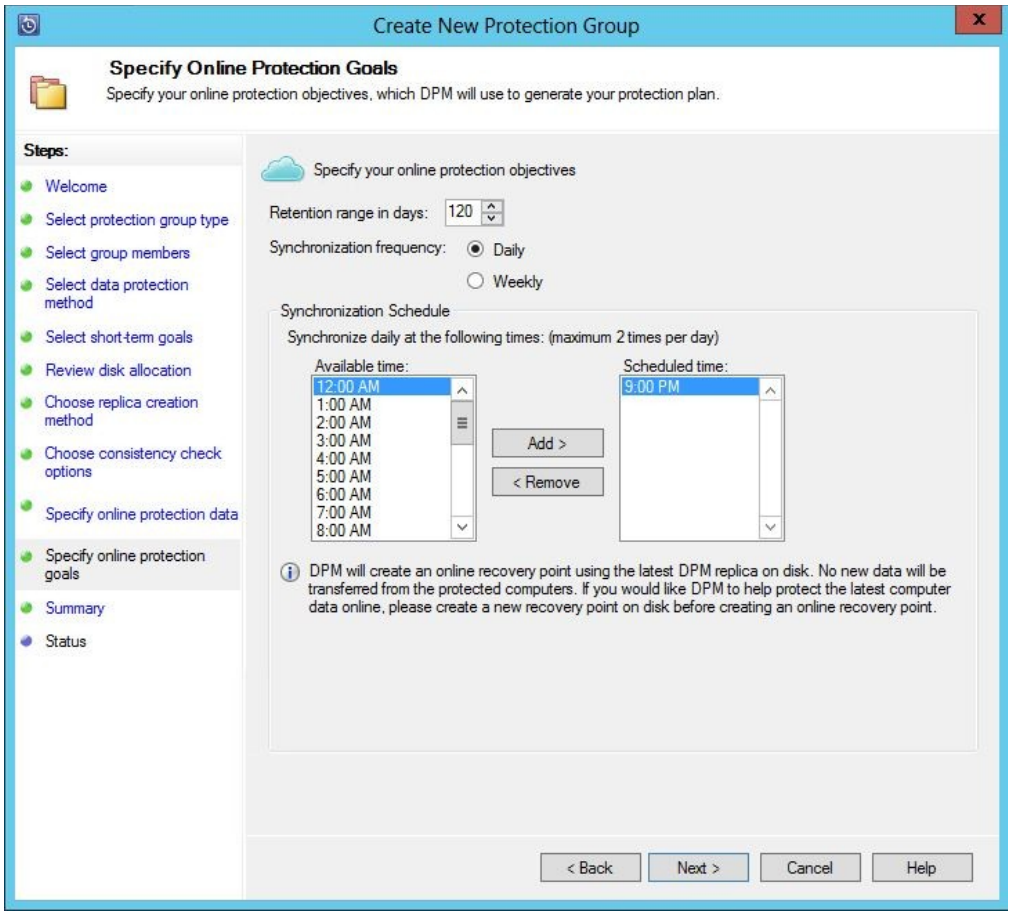

Create New Protection Group
Summary
DPM is ready to create the Protection Group 1 protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review the settings, and then click Create Group to create the Protection Group 1 protection group.
Protection group members:
SQL\FULL
Protection group settings:
Setting
Details
Short-term retention range
5 Day(s)
Synchronization
Every 15 minutes
Recovery points (applications)
Every 15 minutes
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

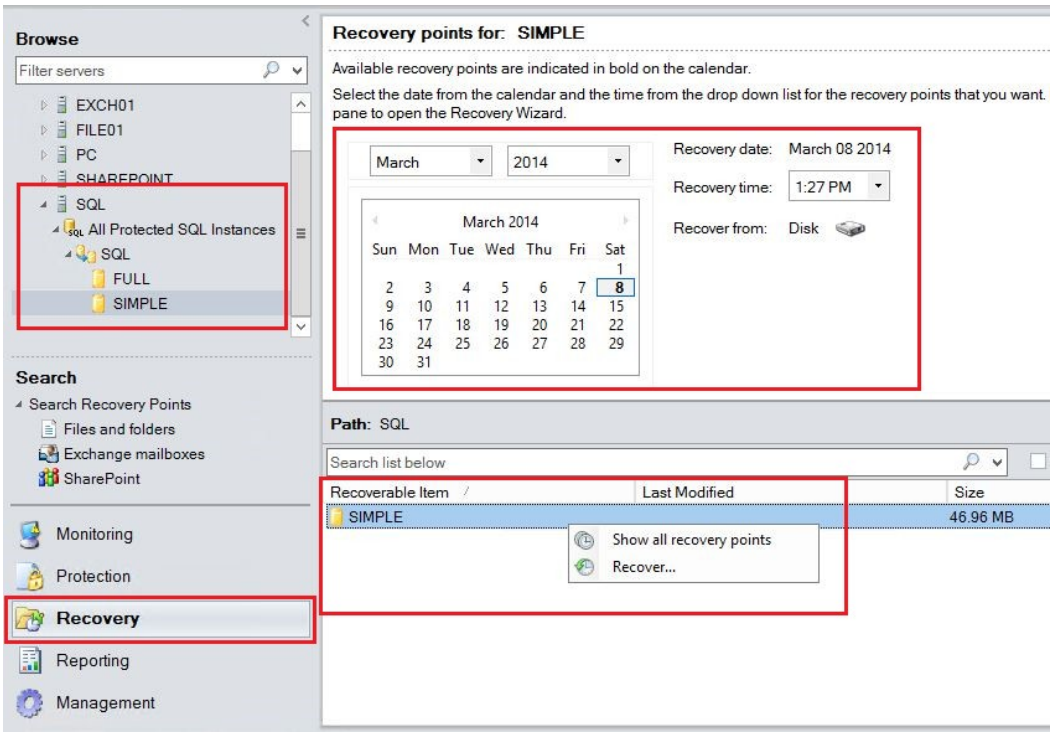

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.local
DC
SCDPM
SCSQL
All Shares
All SQL Servers
SCSQL\SCO
SCSQL\SCOM
SCSQL\SCSM
All Volumes
System Protection
Selected members
Selected Members
Computer
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

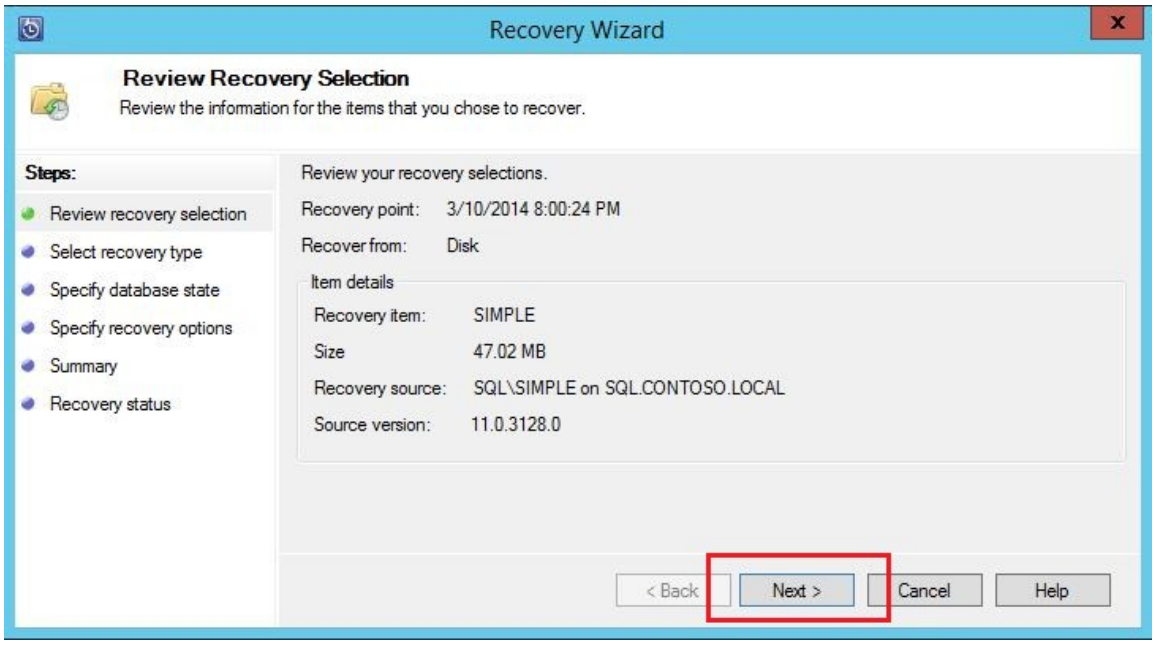

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.local
DC
SCDPM
SCSQL
All Shares
(Auto) SCSQL\SCO
model
msdb
Orchestrator
SCSQL\SCOM
SCSQL\SCSM
All Volumes
System Protection
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Selected members
Selected Members
Computer
SCSQL\SCO\master
SCSQL.CONTOSO.local
SCSQL\SCO\model
SCSQL.CONTOSO.local
SCSQL\SCO\msdb
SCSQL.CONTOSO.local
SCSQL\SCO\Orchestra...
SCSQL.CONTOSO.local
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

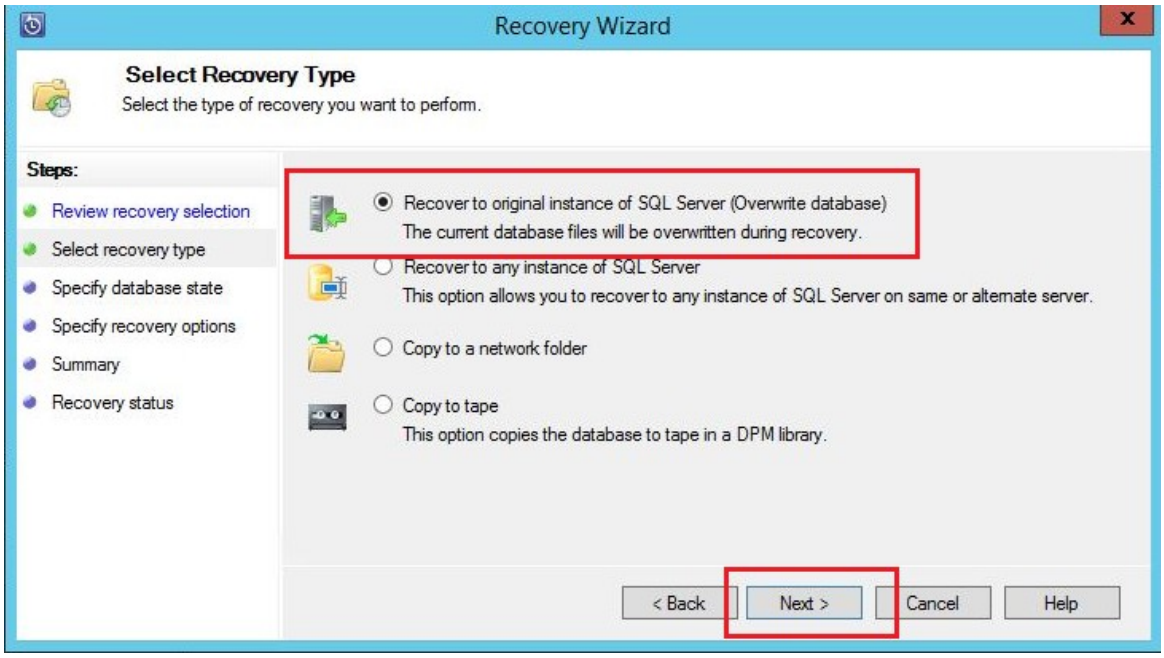

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
Protection group name: SQL Databases
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.
< Back
Next >
Cancel
Help

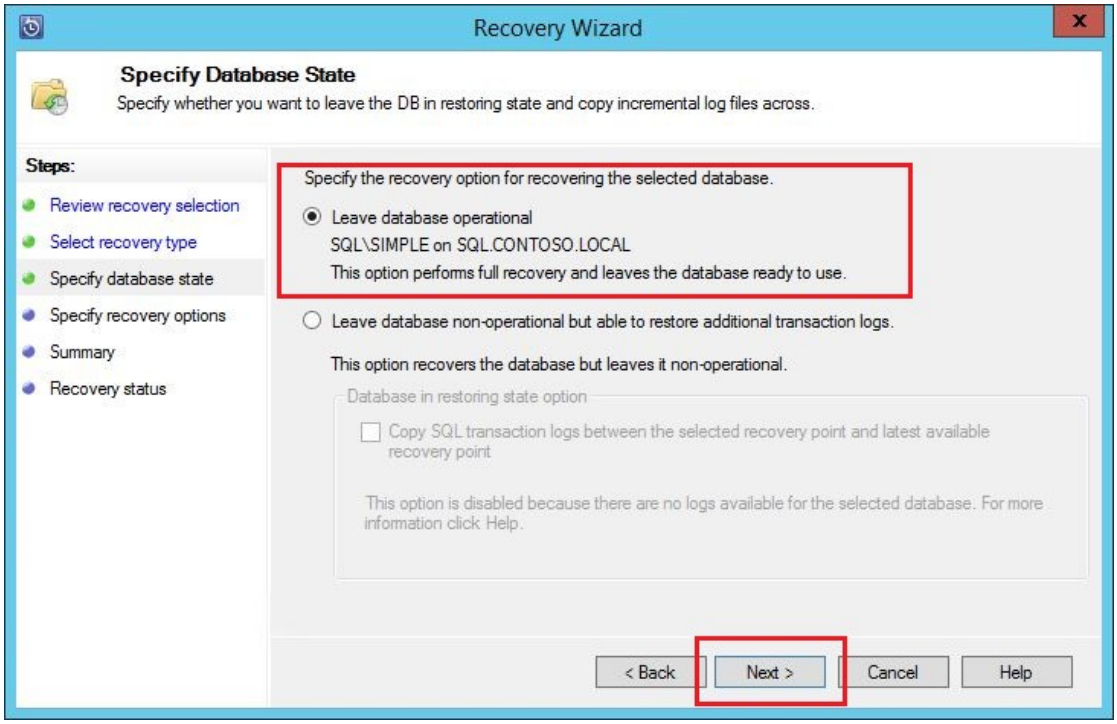

Create New Protection Group
Specify Online Protection Data
Specify the data that you would like DPM to help protect online.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Select the data source you want to protect online.
Selected members
Computer
SCSQL\SCO\Orchestrator
SCSQL.CONTOSO.local
Select All
Deselect All
< Back
Next >
Cancel
Help

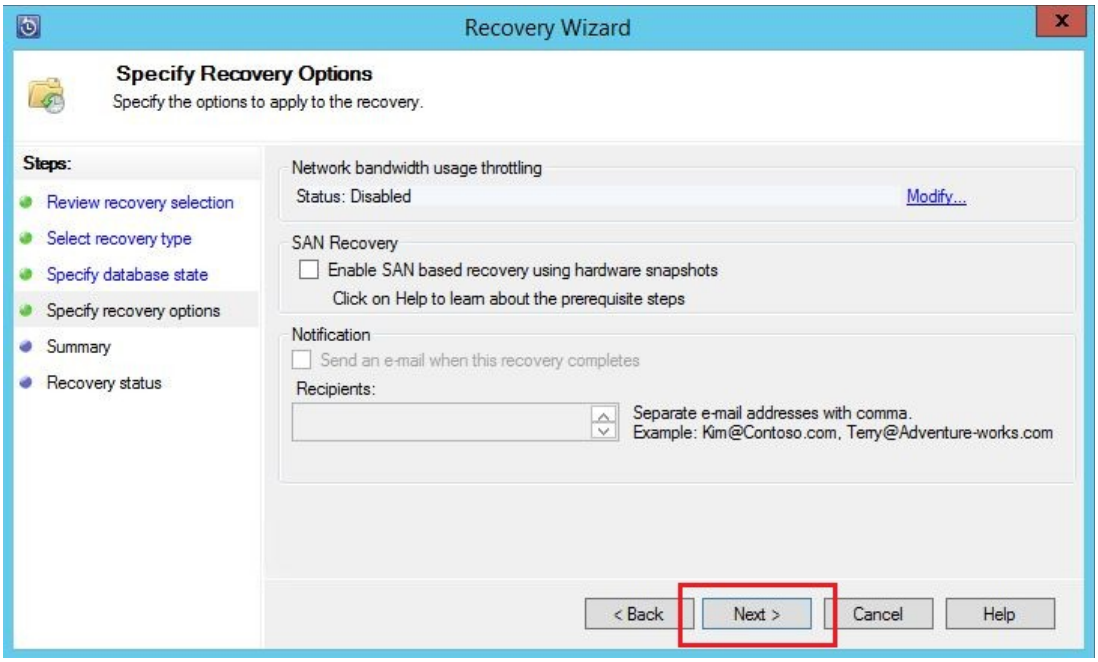

Create New Protection Group
Specify Online Protection Goals
Specify your online protection objectives, which DPM will use to generate your protection plan.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Specify your online protection objectives
Retention range in days: 120
Synchronization frequency: Daily
Weekly
Synchronization Schedule
Synchronize daily at the following times: (maximum 2 times per day)
Available time:
12:00 AM
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
Add >
< Remove
Scheduled time:
9:00 PM
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

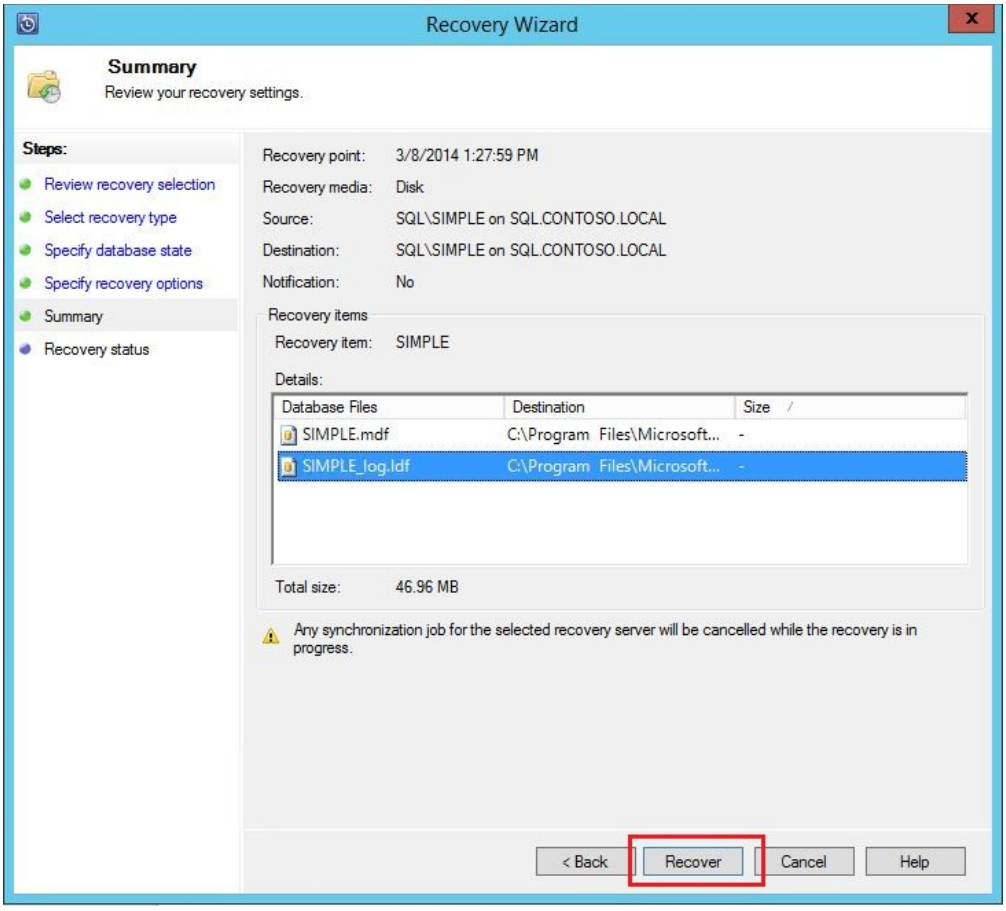

Browse
Filter servers
EXCH01
FILE01
PC
SHAREPOINT
SQL
All Protected SQL Instances
SQL
FULL
SIMPLE
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: SIMPLE
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want.
pane to open the Recovery Wizard.
March
2014
March 2014
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: March 08 2014
Recovery time: 1:27 PM
Recover from: Disk
Path: SQL
Search list below
Recoverable Item
Last Modified
Size
SIMPLE
46.96 MB
Show all recovery points
Recover...

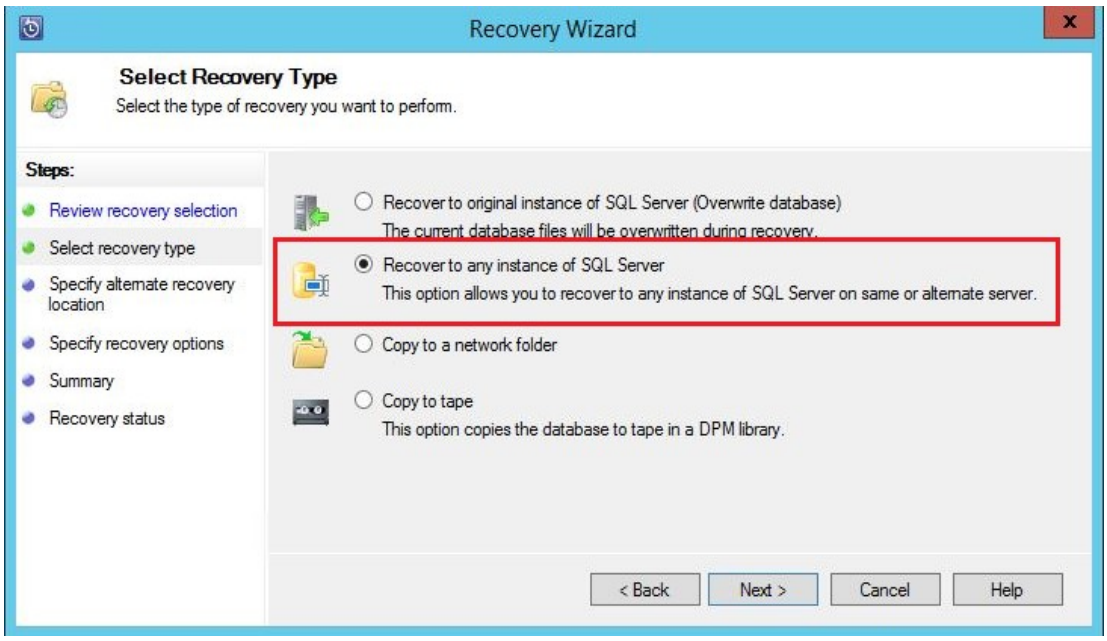

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify database state
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 3/10/2014 8:00:24 PM
Recover from: Disk
Item details
Recovery item: SIMPLE
Size 47.02 MB
Recovery source: SQL\SIMPLE on SQL.CONTOSO.LOCAL
Source version: 11.0.3128.0
< Back
Next >
Cancel
Help

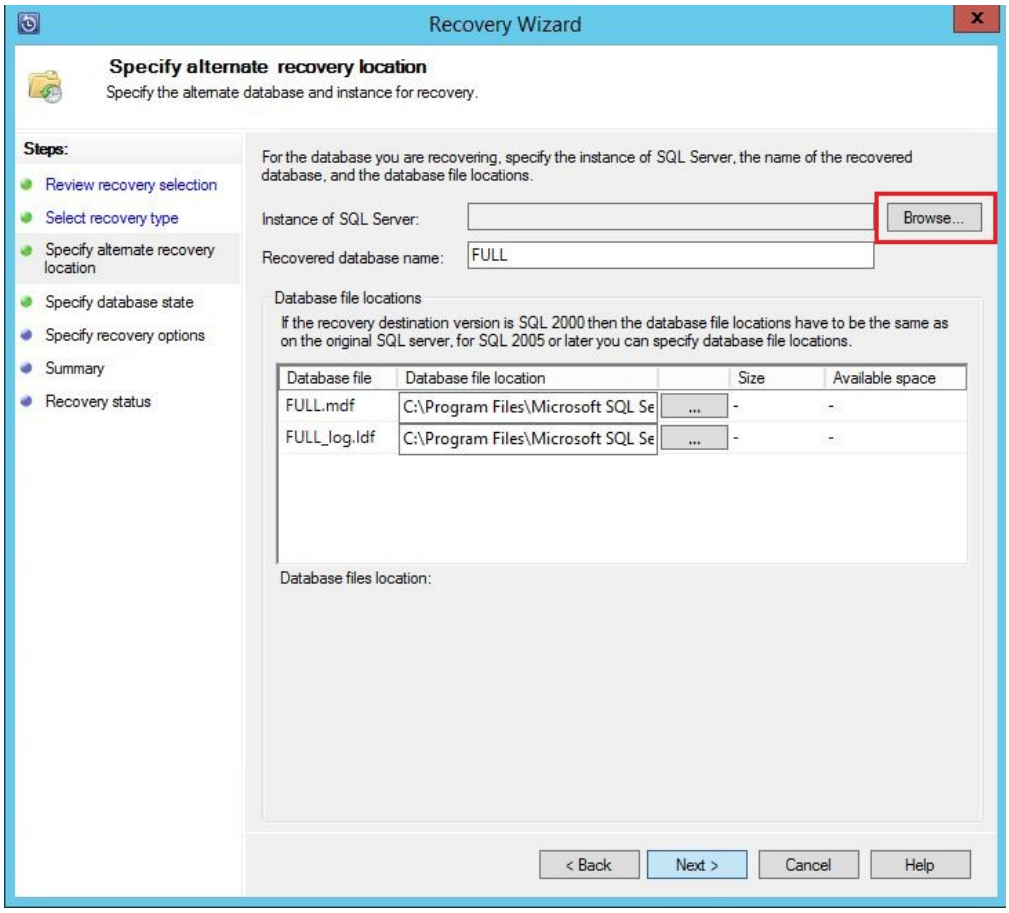

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify database state
Specify recovery options
Summary
Recovery status
Recover to original instance of SQL Server (Overwrite database)
The current database files will be overwritten during recovery.
Recover to any instance of SQL Server
This option allows you to recover to any instance of SQL Server on same or alternate server.
Copy to a network folder
Copy to tape
This option copies the database to tape in a DPM library.
< Back
Next >
Cancel
Help

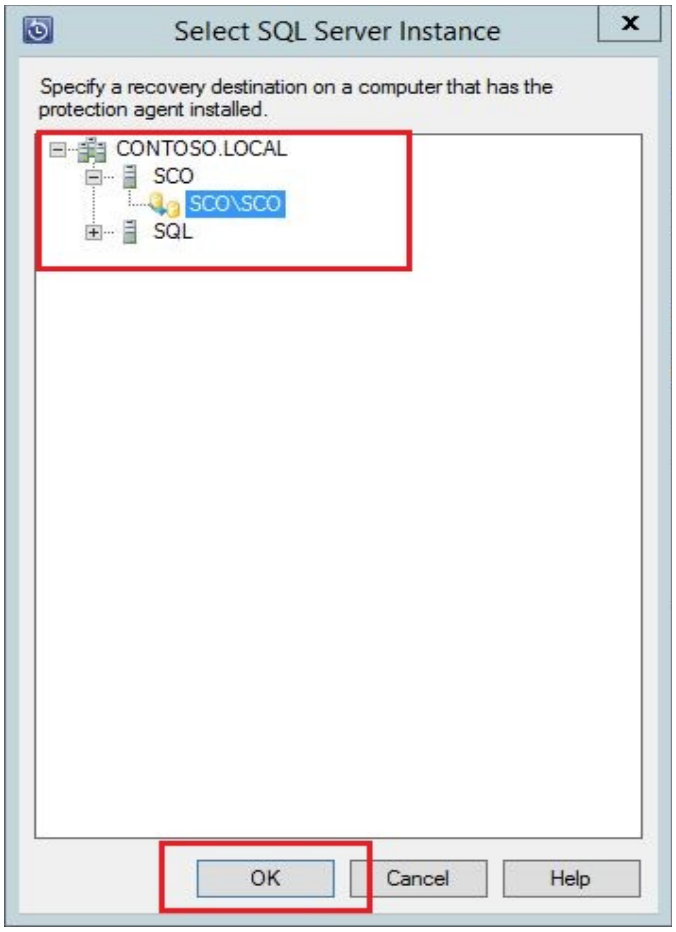

Recovery Wizard
Specify Database State
Specify whether you want to leave the DB in restoring state and copy incremental log files across.
Steps:
Review recovery selection
Select recovery type
Specify database state
Specify recovery options
Summary
Recovery status
Specify the recovery option for recovering the selected database.
Leave database operational
SQL\SIMPLE on SQL.CONTOSO.LOCAL
This option performs full recovery and leaves the database ready to use.
Leave database non-operational but able to restore additional transaction logs.
This option recovers the database but leaves it non-operational.
Database in restoring state option
Copy SQL transaction logs between the selected recovery point and latest available recovery point
This option is disabled because there are no logs available for the selected database. For more information click Help.
< Back
Next >
Cancel
Help

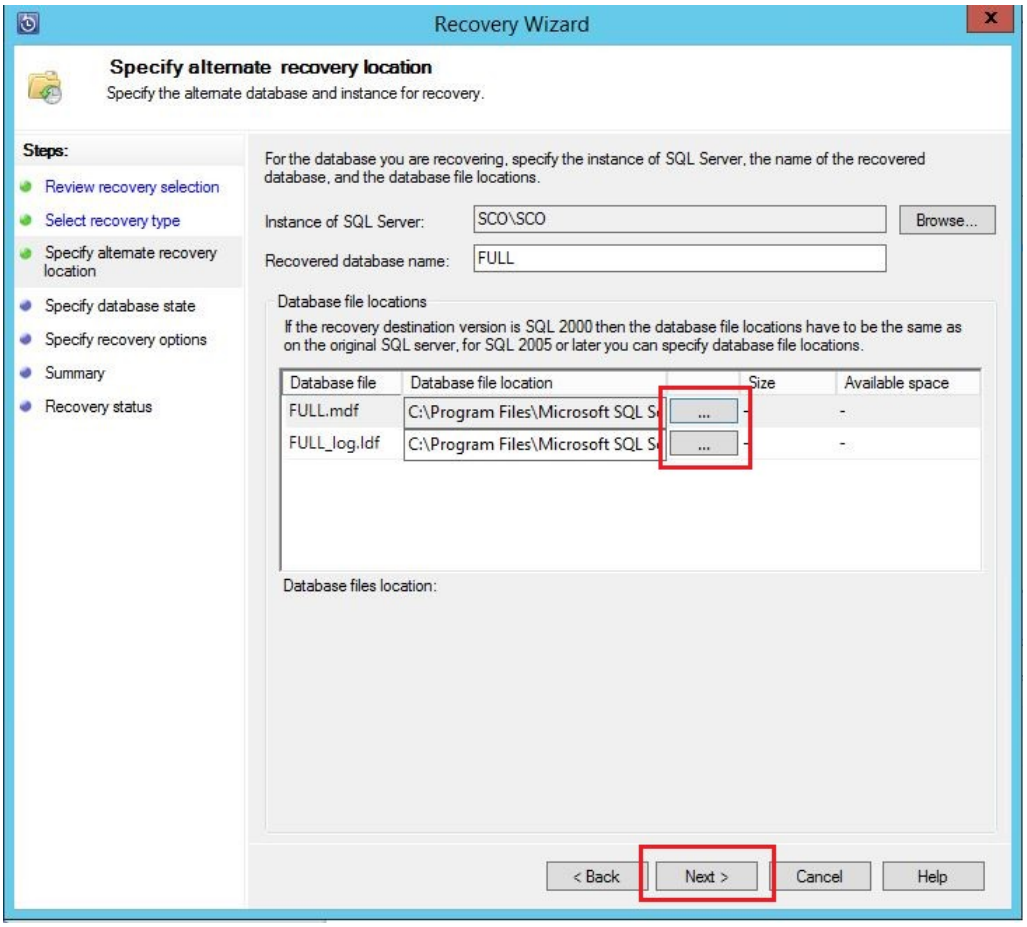

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify database state
Specify recovery options
Summary
Recovery status
Network bandwidth usage throttling
Status: Disabled
Modify...
SAN Recovery
Enable SAN based 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

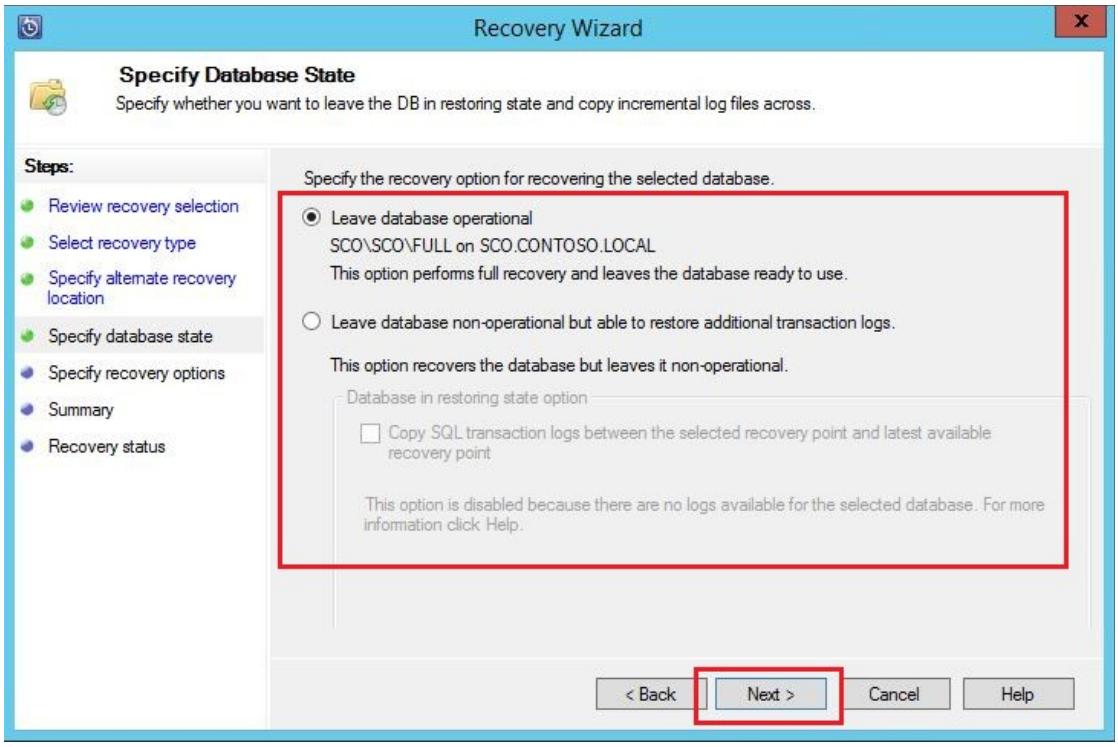

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify database state
Specify recovery options
Summary
Recovery status
Recovery point: 3/8/2014 1:27:59 PM
Recovery media: Disk
Source: SQL\SIMPLE on SQL.CONTOSO.LOCAL
Destination: SQL\SIMPLE on SQL.CONTOSO.LOCAL
Notification: No
Recovery items
Recovery item: SIMPLE
Details:
Database Files
Destination
Size
SIMPLE.mdf
C:\Program Files\Microsoft...
-
SIMPLE_log.ldf
C:\Program Files\Microsoft...
-
Total size: 46.96 MB
Any synchronization job for the selected recovery server will be cancelled while the recovery is in progress.
< Back
Recover
Cancel
Help

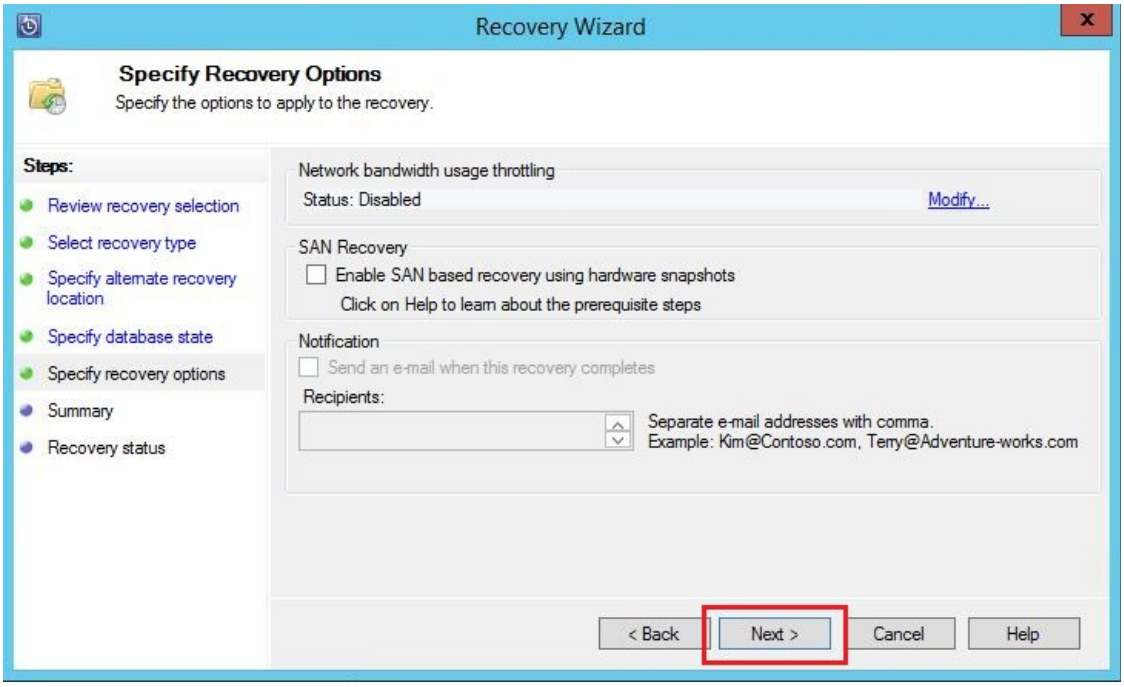

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify recovery options
Summary
Recovery status
Recover to original instance of SQL Server (Overwrite database)
The current database files will be overwritten during recovery.
Recover to any instance of SQL Server
This option allows you to recover to any instance of SQL Server on same or alternate server.
Copy to a network folder
Copy to tape
This option copies the database to tape in a DPM library.
< Back
Next >
Cancel
Help

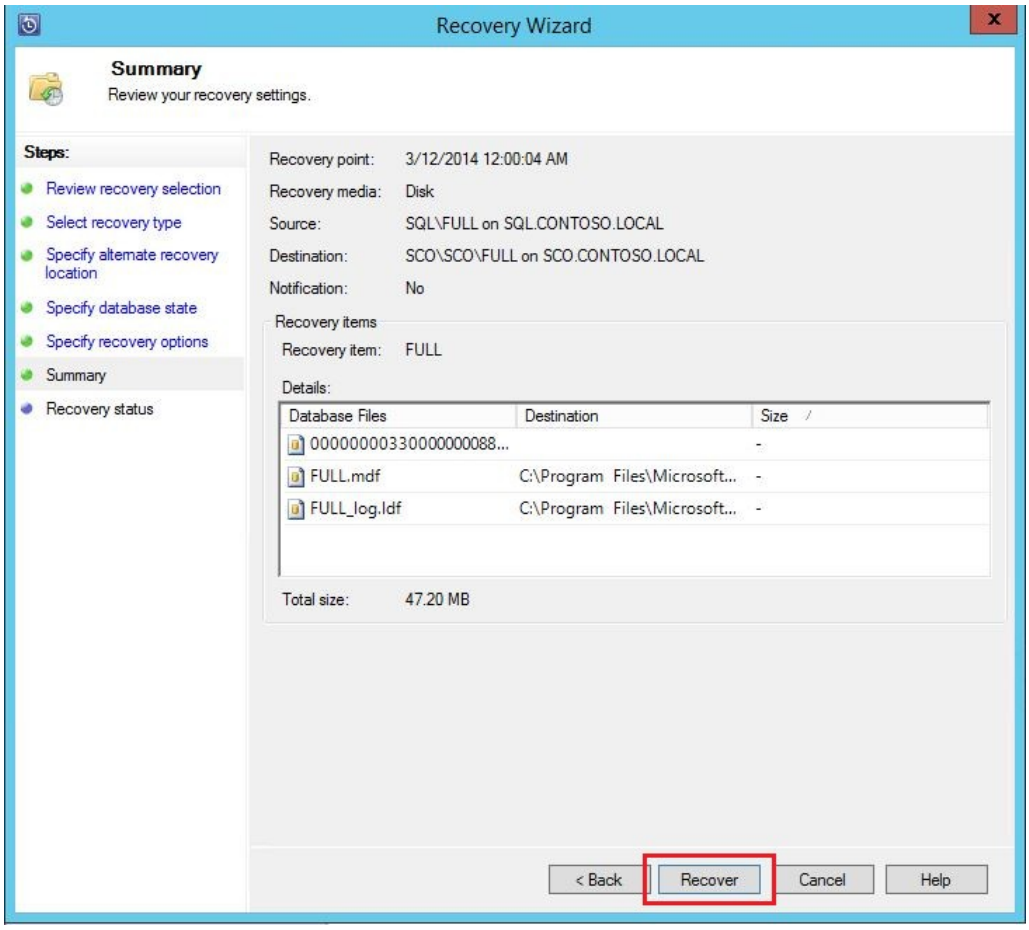

Recovery Wizard
Specify alternate recovery location
Specify the alternate database and instance for recovery.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
For the database you are recovering, specify the instance of SQL Server, the name of the recovered database, and the database file locations.
Instance of SQL Server:
Browse...
Recovered database name:
FULL
Database file locations
If the recovery destination version is SQL 2000 then the database file locations have to be the same as on the original SQL server, for SQL 2005 or later you can specify database file locations.
Database file
Database file location
Size
Available space
FULL.mdf
C:\Program Files\Microsoft SQL Se
...
-
-
FULL_log.ldf
C:\Program Files\Microsoft SQL Se
...
-
-
Database files location:
< Back
Next >
Cancel
Help

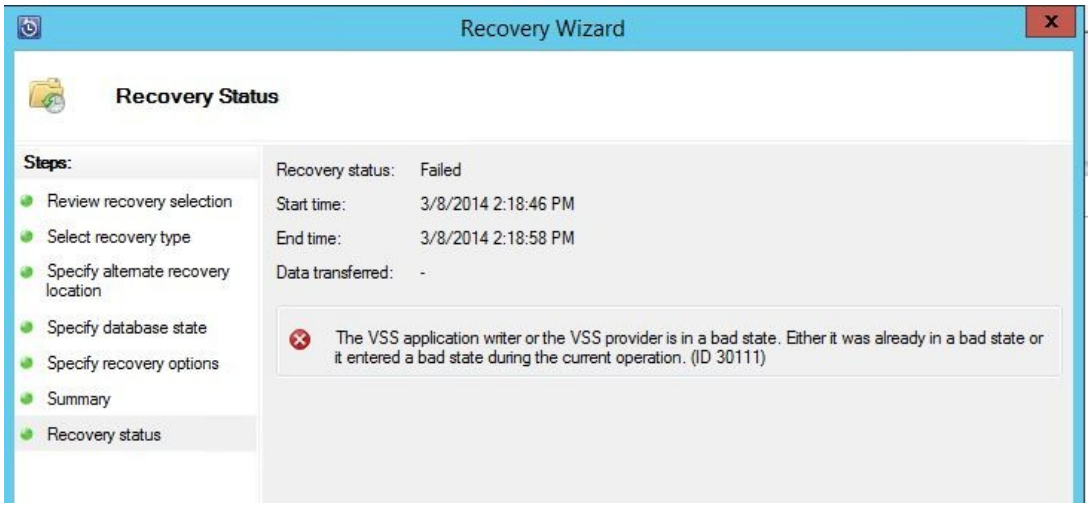

Select SQL Server Instance
Specify a recovery destination on a computer that has the protection agent installed.
CONTOSO.LOCAL
SCO
SCO\SCO
SQL
OK
Cancel
Help

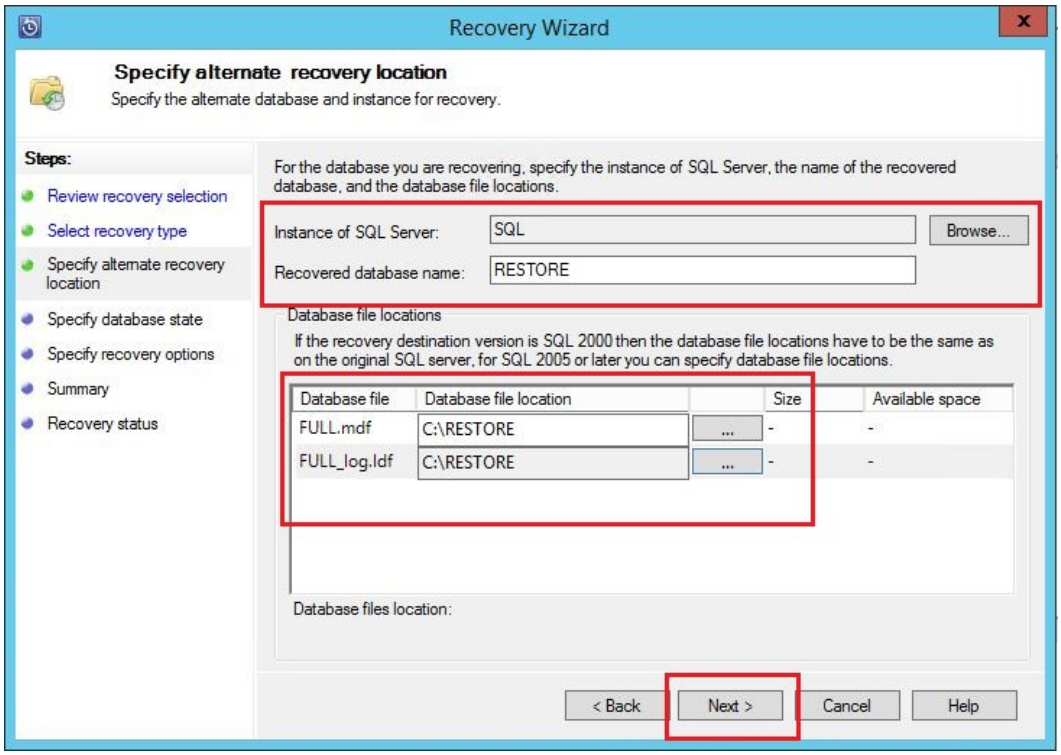

Recovery Wizard
Specify alternate recovery location
Specify the alternate database and instance for recovery.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
For the database you are recovering, specify the instance of SQL Server, the name of the recovered database, and the database file locations.
Instance of SQL Server:
SCO\SCO
Browse...
Recovered database name:
FULL
Database file locations
If the recovery destination version is SQL 2000 then the database file locations have to be the same as on the original SQL server, for SQL 2005 or later you can specify database file locations.
Database file
Database file location
Size
Available space
FULL.mdf
C:\Program Files\Microsoft SQL S
...
-
-
FULL_log.ldf
C:\Program Files\Microsoft SQL S
...
-
-
Database files location:
< Back
Next >
Cancel
Help

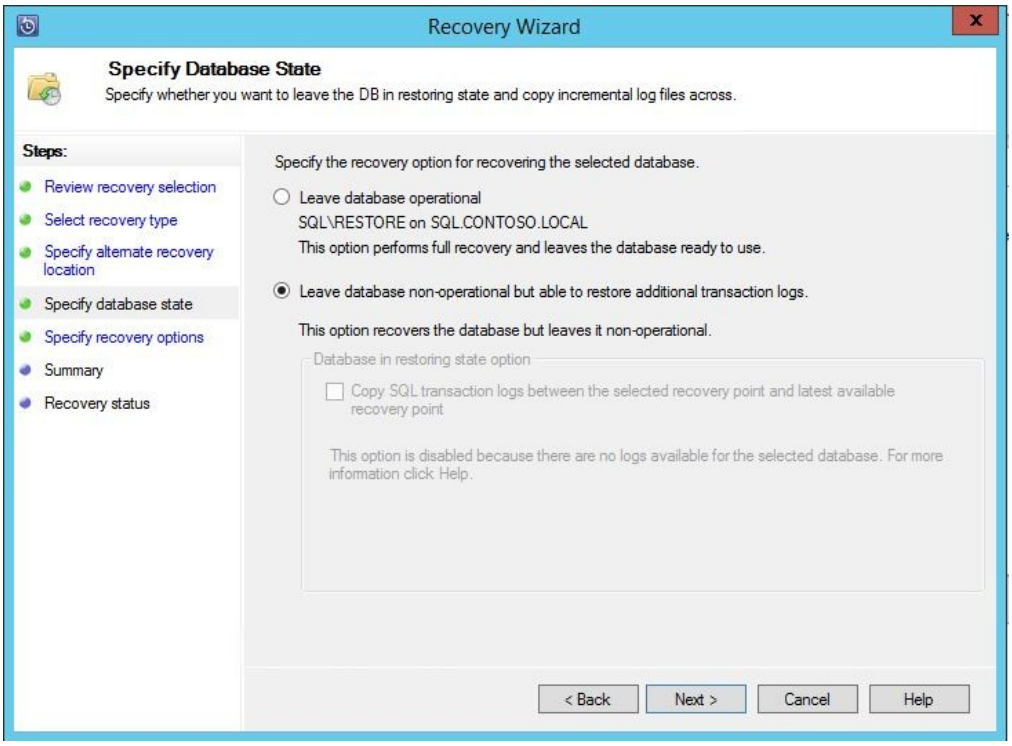

Recovery Wizard
Specify Database State
Specify whether you want to leave the DB in restoring state and copy incremental log files across.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
Specify the recovery option for recovering the selected database.
Leave database operational
SCO\SCO\FULL on SCO.CONTOSO.LOCAL
This option performs full recovery and leaves the database ready to use.
Leave database non-operational but able to restore additional transaction logs.
This option recovers the database but leaves it non-operational.
Database in restoring state option
Copy SQL transaction logs between the selected recovery point and latest available recovery point
This option is disabled because there are no logs available for the selected database. For more information click Help.
< Back
Next >
Cancel
Help

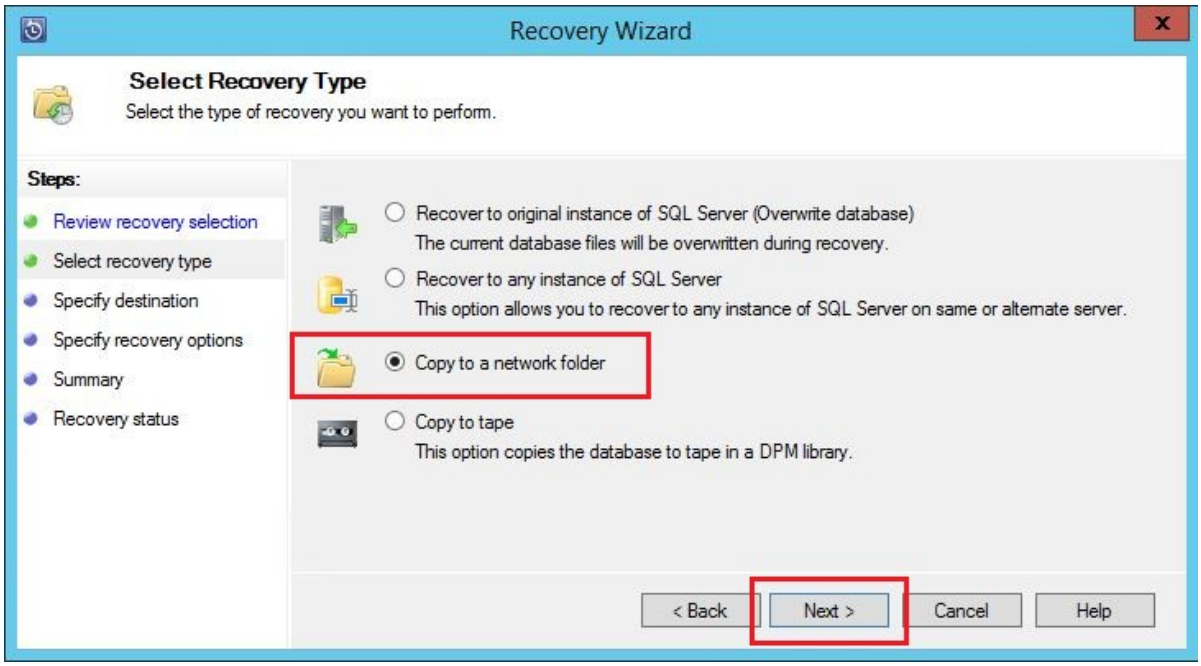

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
Network bandwidth usage throttling
Status: Disabled
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

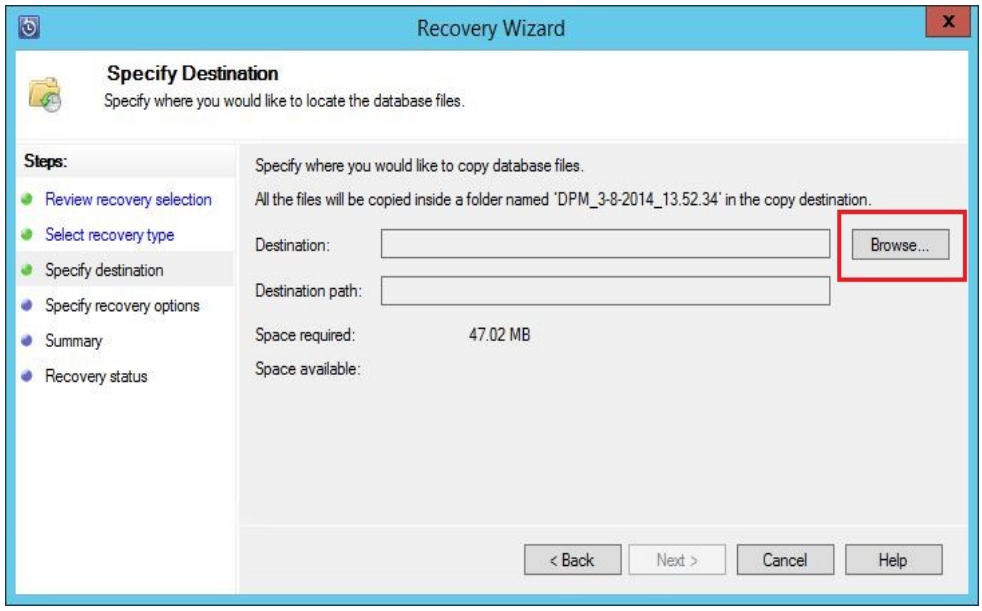

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
Recovery point: 3/12/2014 12:00:04 AM
Recovery media: Disk
Source: SQL\FULL on SQL.CONTOSO.LOCAL
Destination: SCO\SCO\FULL on SCO.CONTOSO.LOCAL
Notification: No
Recovery items
Recovery item: FULL
Details:
Database Files
Destination
Size
00000000330000000088...
FULL.mdf C:\Program Files\Microsoft... -
FULL_log.ldf C:\Program Files\Microsoft... -
Total size: 47.20 MB
< Back
Recover
Cancel
Help

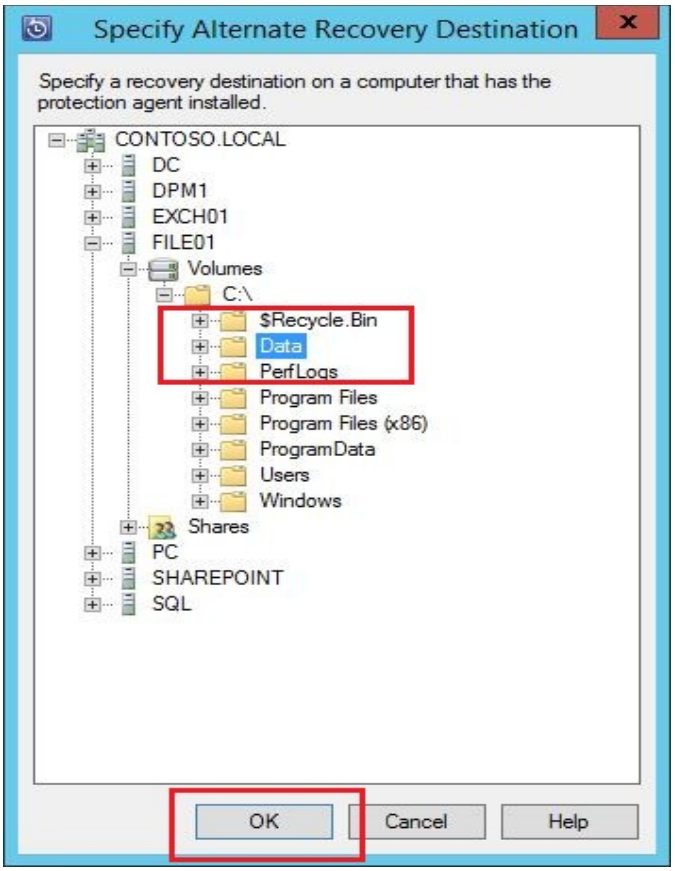

Recovery Wizard
Recovery Status
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
Recovery status: Failed
Start time: 3/8/2014 2:18:46 PM
End time: 3/8/2014 2:18:58 PM
Data transferred: -
The VSS application writer or the VSS provider is in a bad state. Either it was already in a bad state or it entered a bad state during the current operation. (ID 30111)

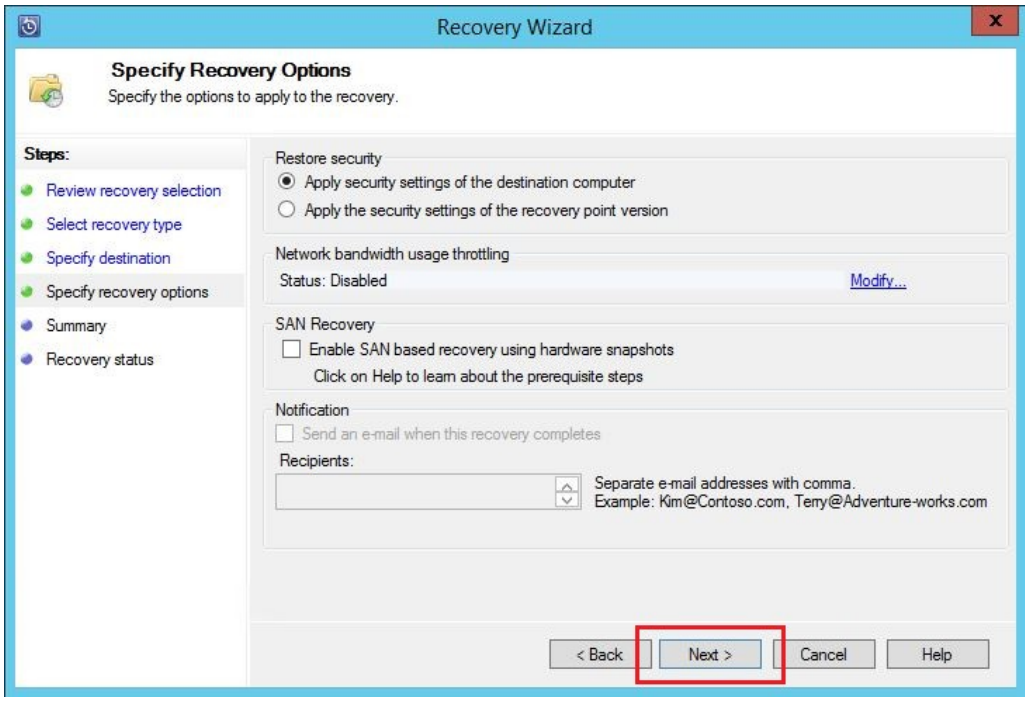

Recovery Wizard
Specify alternate recovery location
Specify the alternate database and instance for recovery.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
For the database you are recovering, specify the instance of SQL Server, the name of the recovered database, and the database file locations.
Instance of SQL Server:
SQL
Browse...
Recovered database name:
RESTORE
Database file locations
If the recovery destination version is SQL 2000 then the database file locations have to be the same as on the original SQL server, for SQL 2005 or later you can specify database file locations.
Database file
Database file location
Size
Available space
FULL.mdf
C:\RESTORE
FULL_log.ldf
C:\RESTORE
Database files location:
< Back
Next >
Cancel
Help

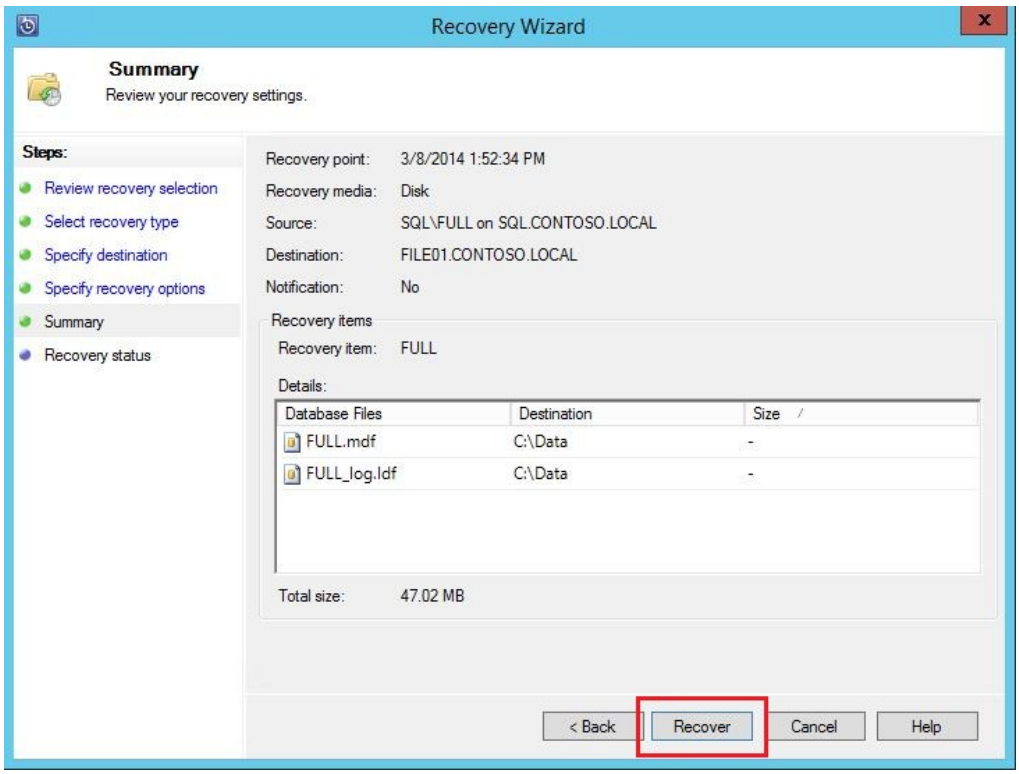

Recovery Wizard
Specify Database State
Specify whether you want to leave the DB in restoring state and copy incremental log files across.
Steps:
Review recovery selection
Select recovery type
Specify alternate recovery location
Specify database state
Specify recovery options
Summary
Recovery status
Specify the recovery option for recovering the selected database.
Leave database operational
SQL\RESTORE on SQL.CONTOSO.LOCAL
This option performs full recovery and leaves the database ready to use.
Leave database non-operational but able to restore additional transaction logs.
This option recovers the database but leaves it non-operational.
Database in restoring state option
Copy SQL transaction logs between the selected recovery point and latest available recovery point
This option is disabled because there are no logs available for the selected database. For more information click Help.
< 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
Recover to original instance of SQL Server (Overwrite database)
The current database files will be overwritten during recovery.
Recover to any instance of SQL Server
This option allows you to recover to any instance of SQL Server on same or alternate server.
Copy to a network folder
Copy to tape
This option copies the database to tape in a DPM library.
< Back
Next >
Cancel
Help

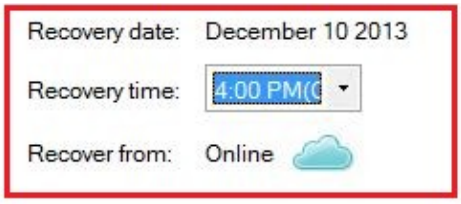

Recovery Wizard
Specify Destination
Specify where you would like to locate the database files.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Specify where you would like to copy database files.
All the files will be copied inside a folder named 'DPM_3-8-2014_13.52.34' in the copy destination.
Destination:
Browse...
Destination path:
Space required:
47.02 MB
Space available:
< Back
Next >
Cancel
Help

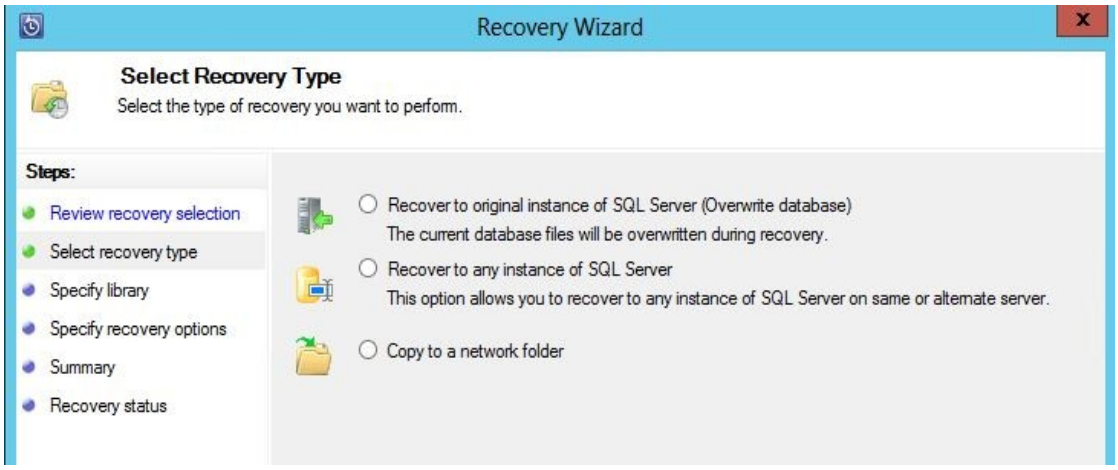

Specify Alternate Recovery Destination
Specify a recovery destination on a computer that has the protection agent installed.
CONTOSO.LOCAL
DC
DPM1
EXCH01
FILE01
Volumes
C:\
$Recycle.Bin
Data
PerfLogs
Program Files
Program Files (x86)
ProgramData
Users
Windows
Shares
PC
SHAREPOINT
SQL
OK
Cancel
Help

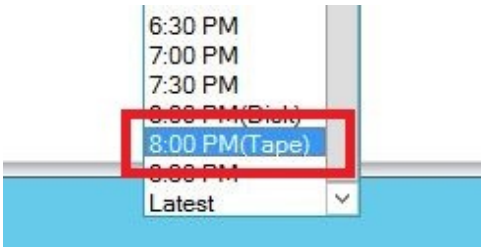

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Restore security
Apply security settings of the destination computer
Apply the security settings 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

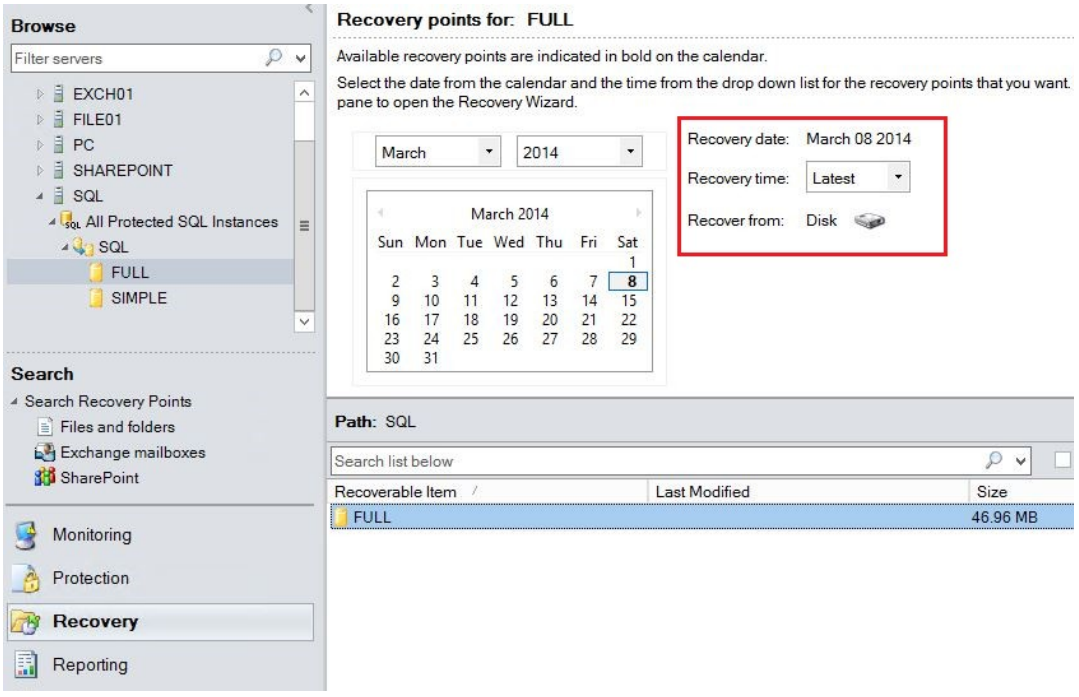

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recovery point: 3/8/2014 1:52:34 PM
Recovery media: Disk
Source: SQL\FULL on SQL.CONTOSO.LOCAL
Destination: FILE01.CONTOSO.LOCAL
Notification: No
Recovery items
Recovery item: FULL
Details:
Database Files
Destination
Size
FULL.mdf
C:\Data
FULL_log.ldf
C:\Data
Total size: 47.02 MB
< Back
Recover
Cancel
Help

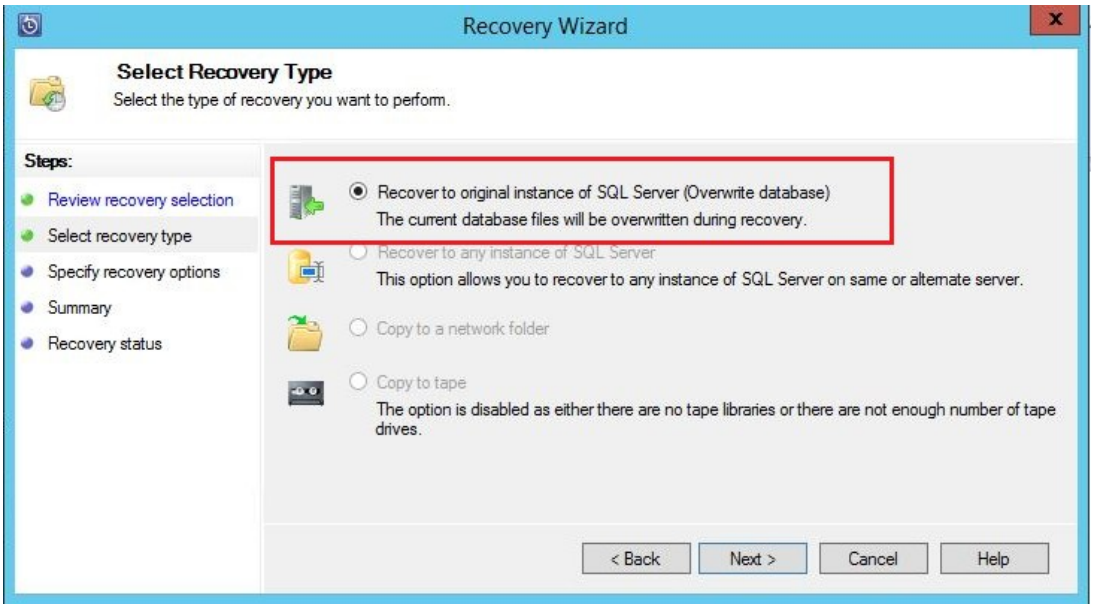
December
2013
December 2013
Sun Mon Tue Wed Thu Fri Sat
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31


Recovery date: December 10 2013
Recovery time: 4:00 PM
Recover from: Online

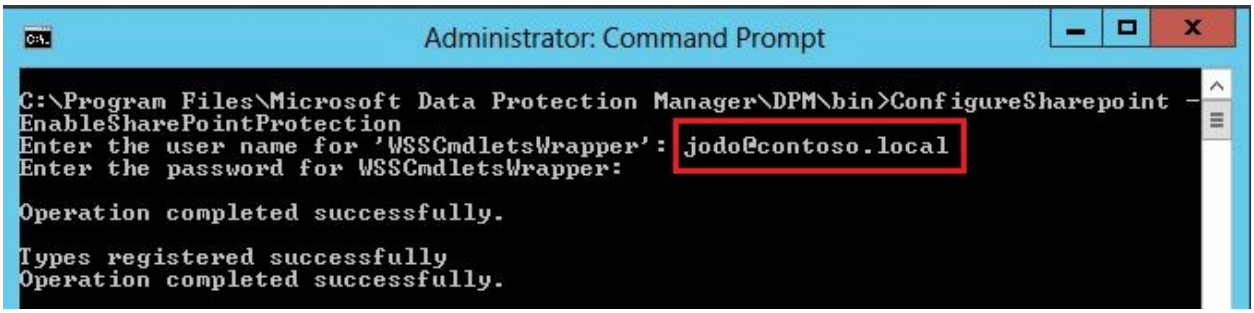

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify library
Specify recovery options
Summary
Recovery status
Recover to original instance of SQL Server (Overwrite database)
The current database files will be overwritten during recovery.
Recover to any instance of SQL Server
This option allows you to recover to any instance of SQL Server on same or alternate server.
Copy to a network folder


6:30 PM
7:00 PM
7:30 PM
8:00 PM(Tape)
Latest

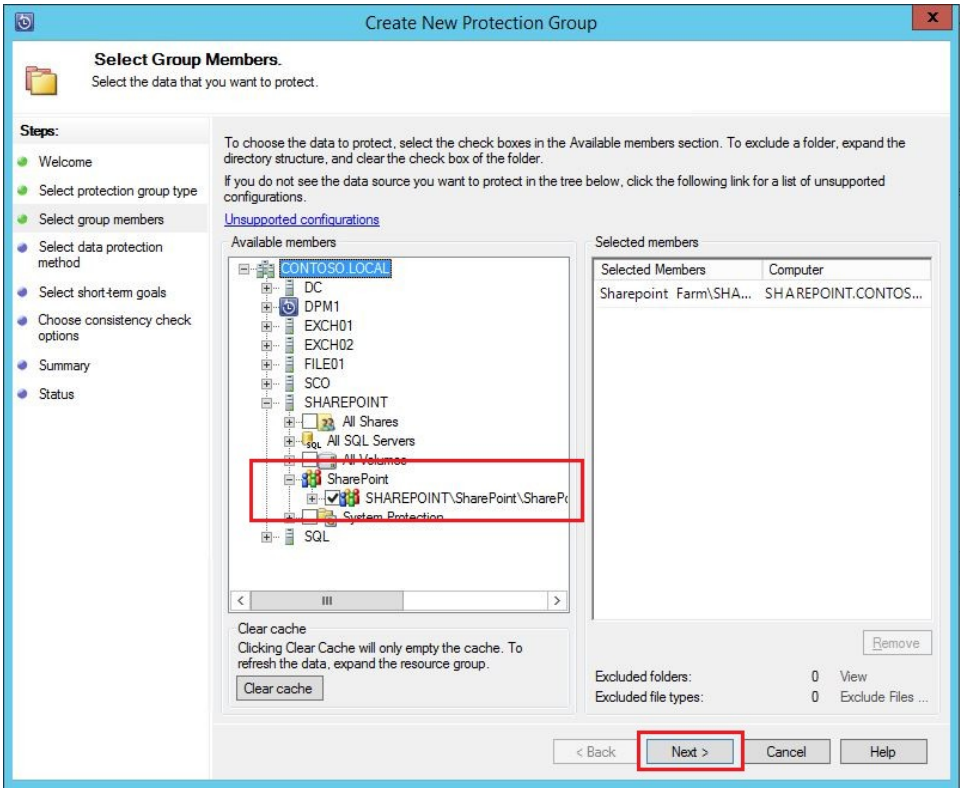

Browse
Filter servers
EXCH01
FILE01
PC
SHAREPOINT
SQL
All Protected SQL Instances
SQL
FULL
SIMPLE
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Recovery points for: FULL
Available recovery points are indicated in bold on the calendar.
Select the date from the calendar and the time from the drop down list for the recovery points that you want.
pane to open the Recovery Wizard.
March
2014
March 2014
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: March 08 2014
Recovery time: Latest
Recover from: Disk
Path: SQL
Search list below
Recoverable Item
Last Modified
Size
FULL
46.96 MB

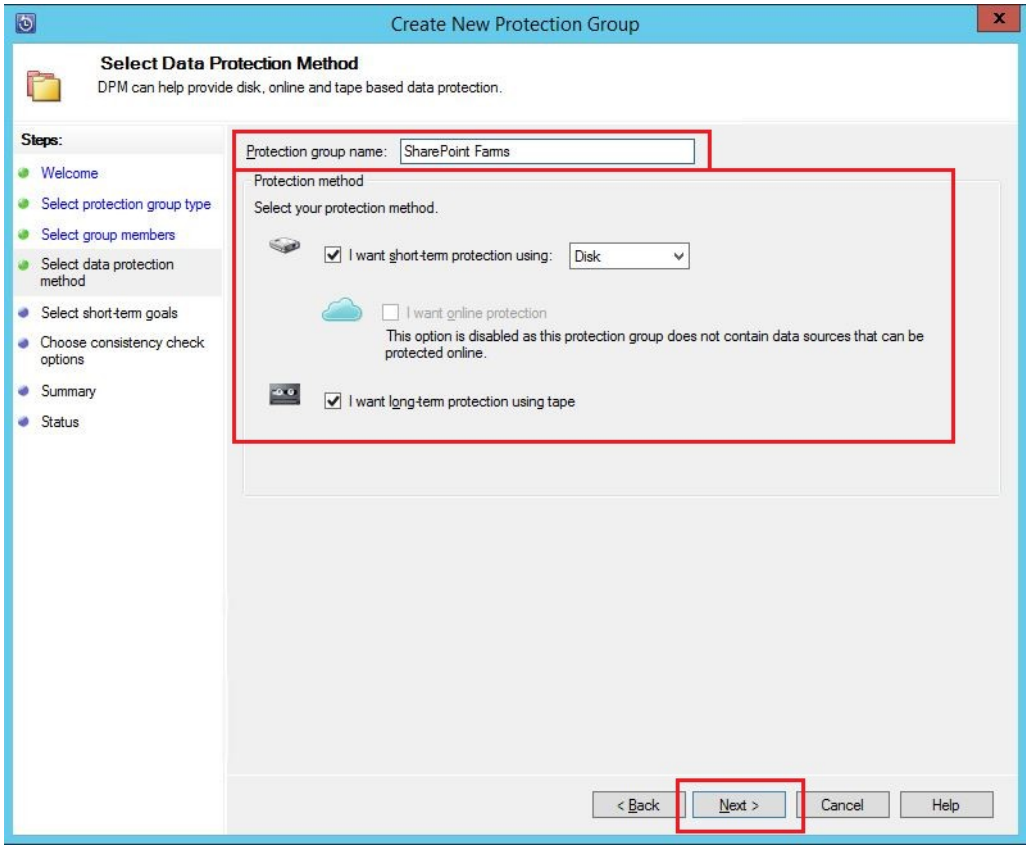

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to original instance of SQL Server (Overwrite database)
The current database files will be overwritten during recovery.
Recover to any instance of SQL Server
This option allows you to recover to any instance of SQL Server on same or alternate server.
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 drives.
< Back
Next >
Cancel
Help

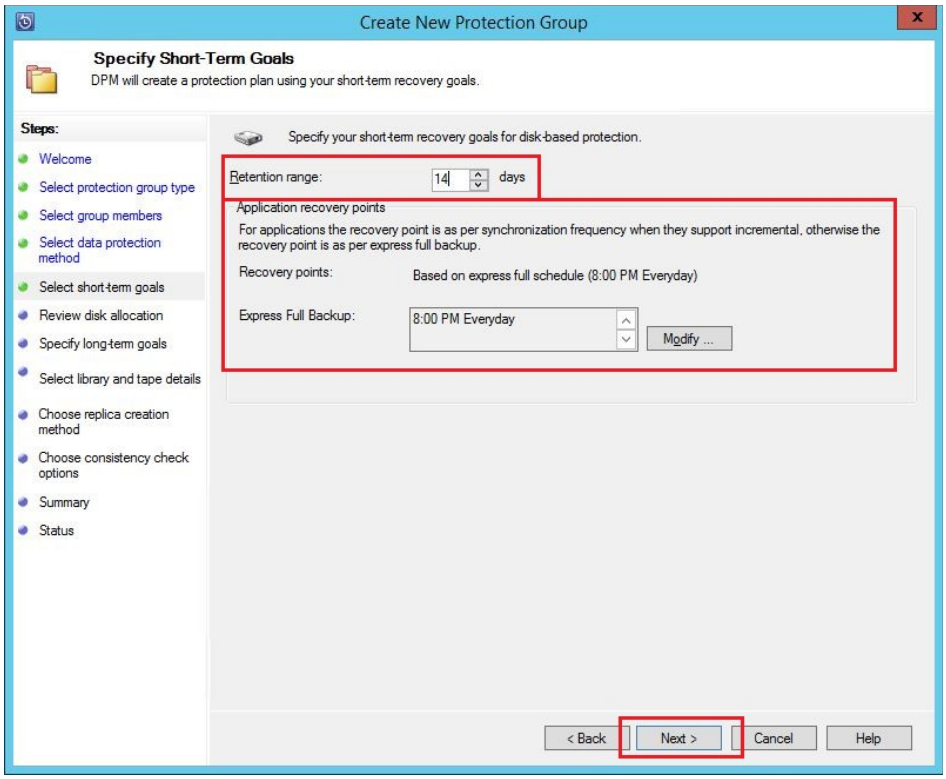
Chapter 7

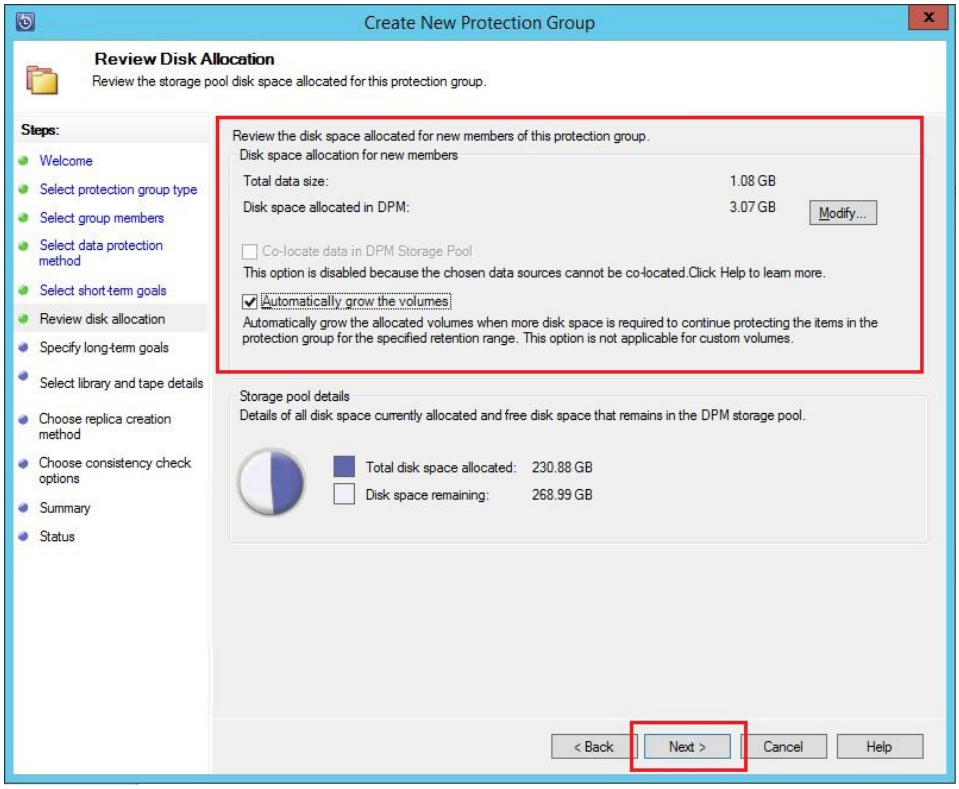

Administrator: Command Prompt
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>ConfigureSharepoint -EnableSharePointProtection
Enter the user name for 'WSSCmdletsWrapper': jodo@contoso.local
Enter the password for WSSCmdletsWrapper:
Operation completed successfully.
Types registered successfully
Operation completed successfully.

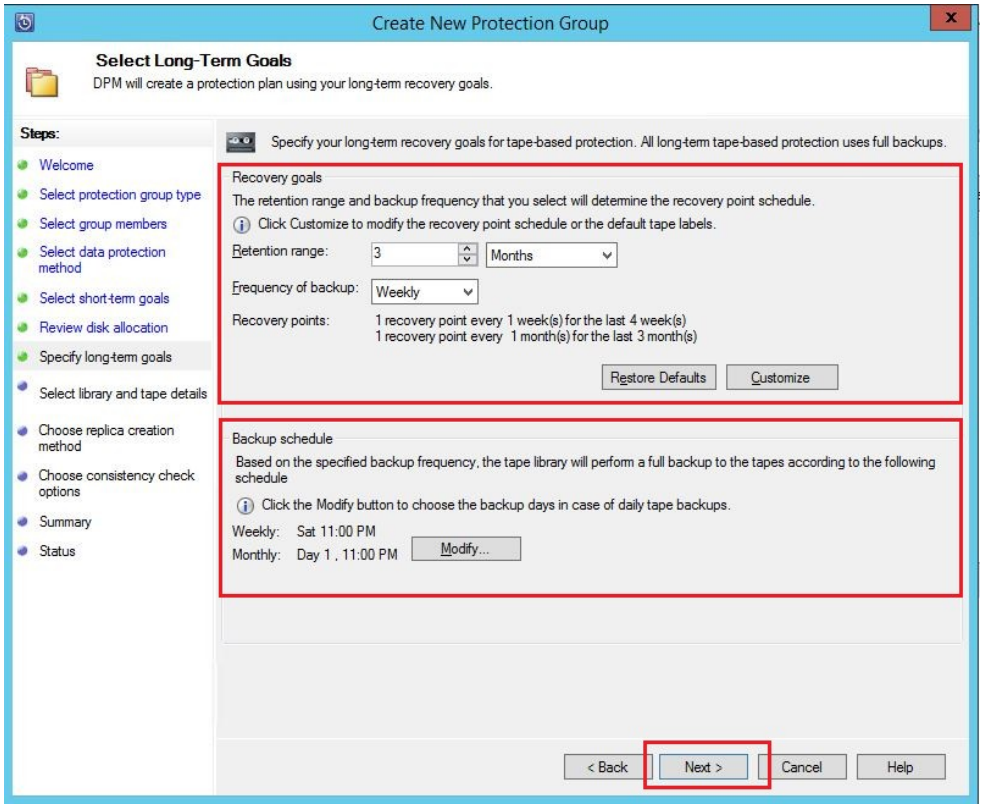
New
Modify
Delete
Optimize
Protection group

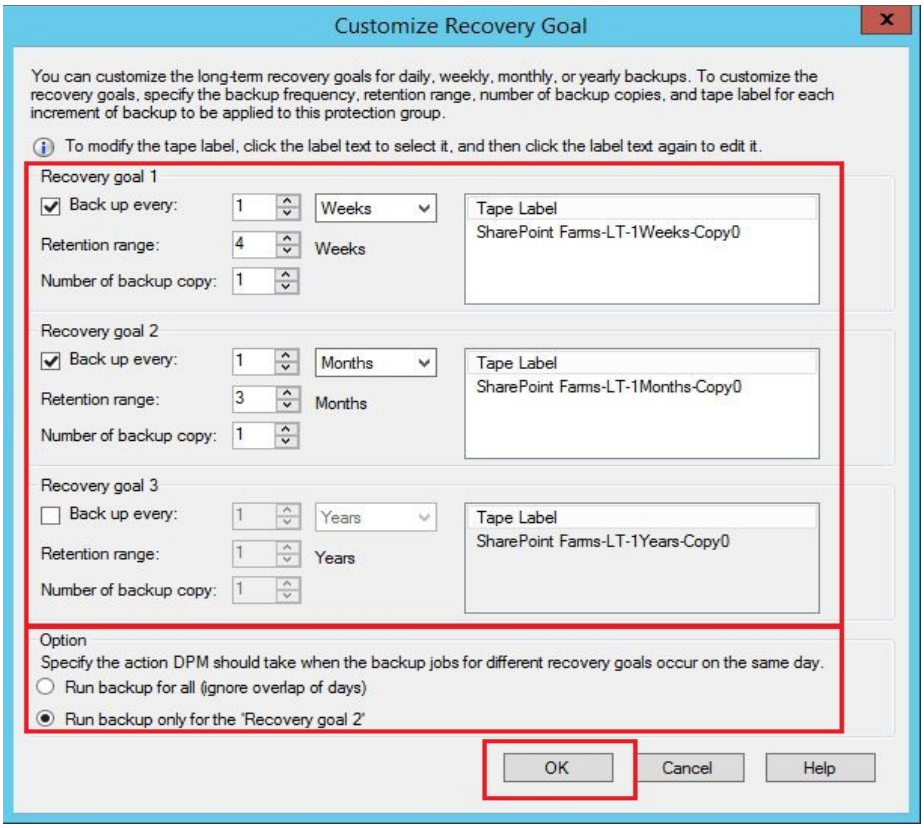

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.LOCAL
DC
DPM1
EXCH01
EXCH02
FILE01
SCO
SHAREPOINT
All Shares
All SQL Servers
All Volumes
SharePoint
SHAREPOINT\SharePoint\SharePo
System Protection
SQL
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Selected members
Selected Members
Computer
Sharepoint Farm\SHA...
SHAREPOINT.CONTOS...
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

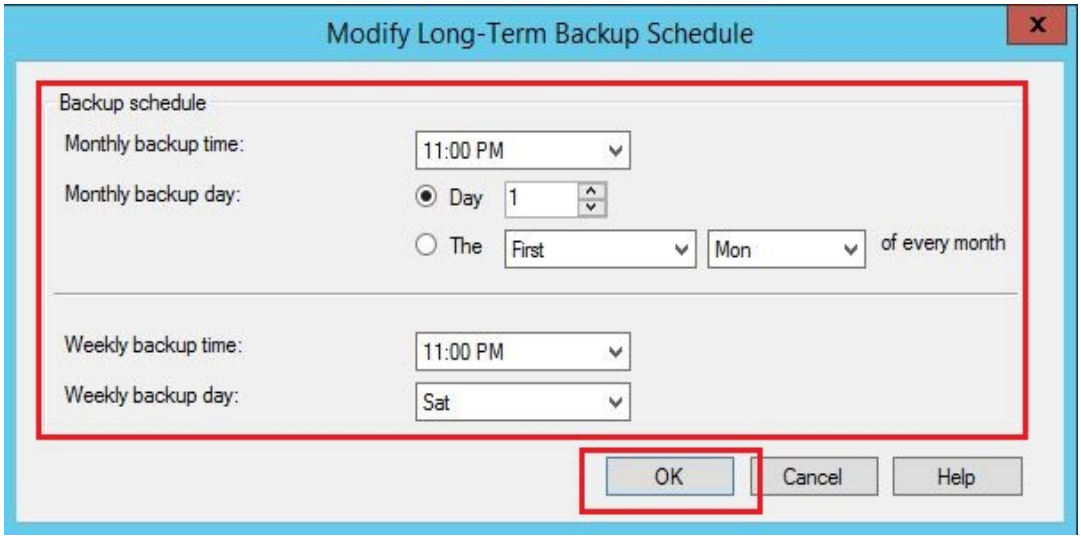

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
Protection group name:
SharePoint Farms
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
This option is disabled as this protection group does not contain data sources that can be protected online.
I want long-term protection using tape
< Back
Next >
Cancel
Help

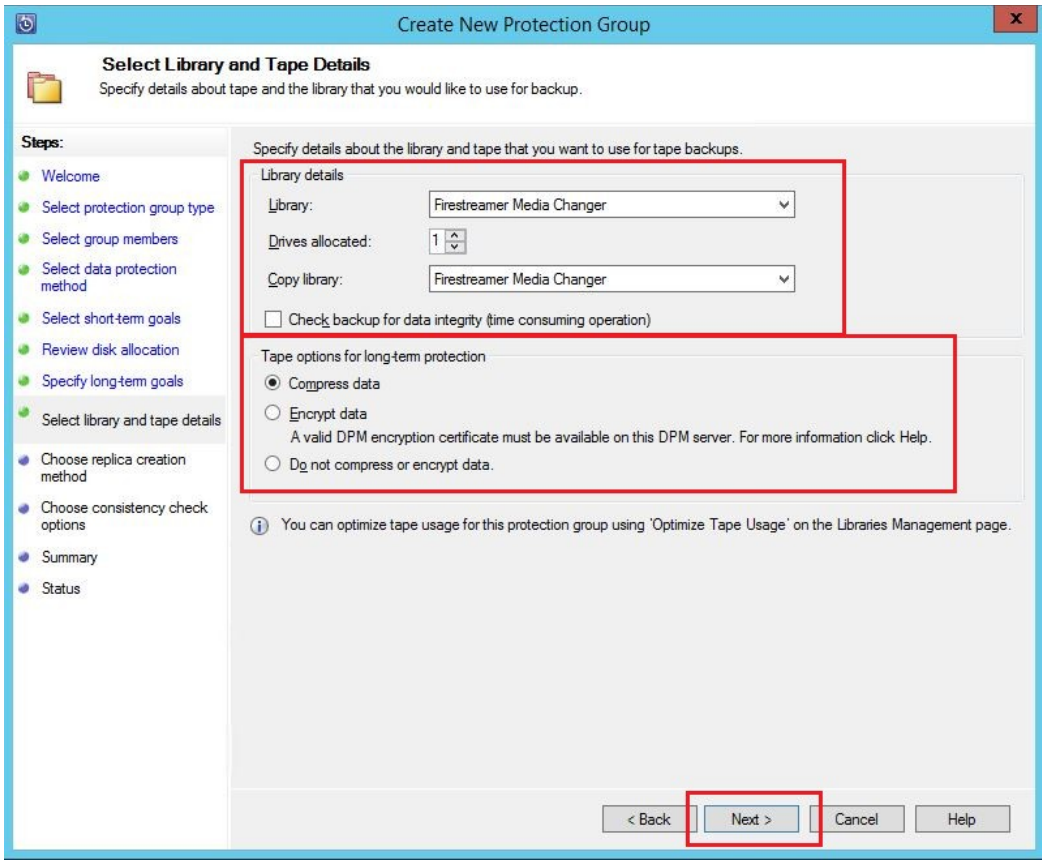

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
14
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

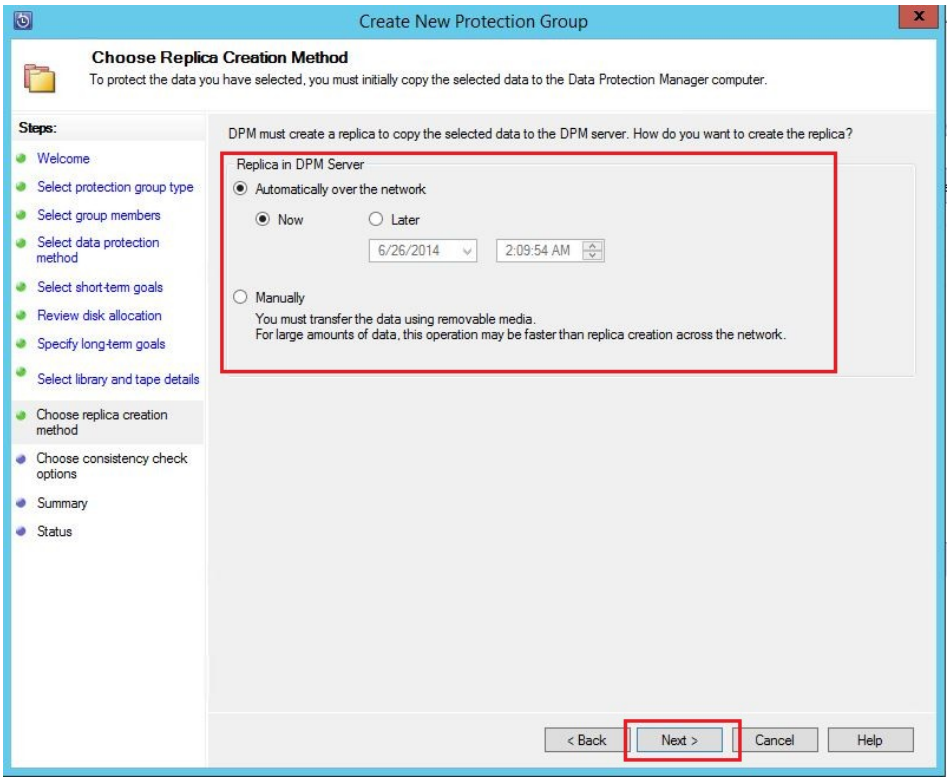

Create New Protection Group
Review Disk Allocation
Review the storage pool disk space allocated for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Review the disk space allocated for new members of this protection group.
Disk space allocation for new members
Total data size:
1.08 GB
Disk space allocated in DPM:
3.07 GB
Modify...
Co-locate data in DPM Storage Pool
This option is disabled because the chosen data sources cannot be co-located.Click Help to learn more.
Automatically grow the volumes
Automatically grow the allocated volumes when more disk space is required to continue protecting the items in the protection group for the specified retention range. This option is not applicable for custom volumes.
Storage pool details
Details of all disk space currently allocated and free disk space that remains in the DPM storage pool.
Total disk space allocated:
230.88 GB
Disk space remaining:
268.99 GB
< Back
Next >
Cancel
Help

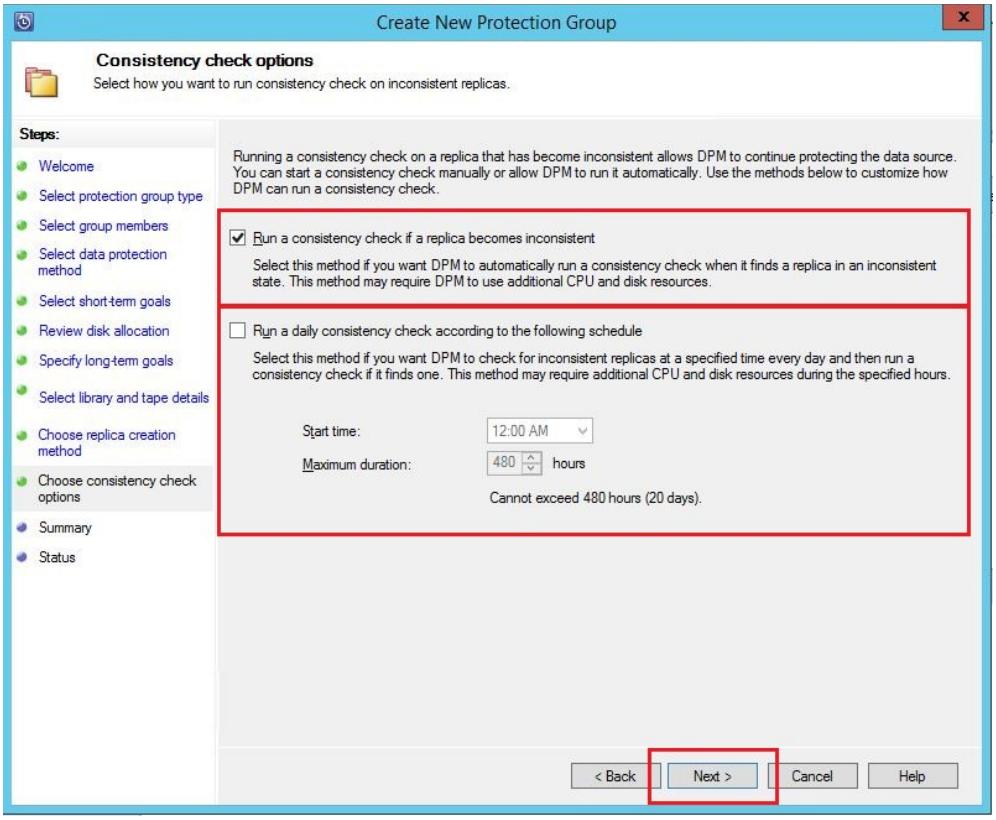

Create New Protection Group
Select Long-Term Goals
DPM will create a protection plan using your long-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your long-term recovery goals for tape-based protection. All long-term tape-based protection uses full backups.
Recovery goals
The retention range and backup frequency that you select will determine the recovery point schedule.
Click Customize to modify the recovery point schedule or the default tape labels.
Retention range:
3
Months
Frequency of backup:
Weekly
Recovery points:
1 recovery point every 1 week(s) for the last 4 week(s)
1 recovery point every 1 month(s) for the last 3 month(s)
Restore Defaults
Customize
Backup schedule
Based on the specified backup frequency, the tape library will perform a full backup to the tapes according to the following schedule
Click the Modify button to choose the backup days in case of daily tape backups.
Weekly: Sat 11:00 PM
Monthly: Day 1 , 11:00 PM
Modify...
< Back
Next >
Cancel
Help

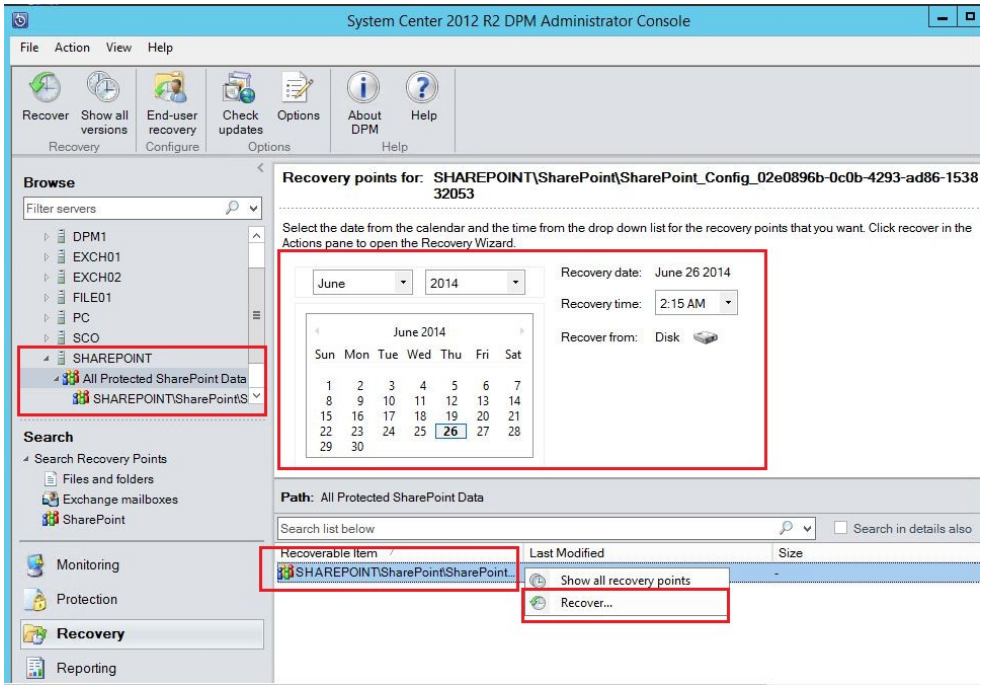

Customize Recovery Goal
You can customize the long-term recovery goals for daily, weekly, monthly, or yearly backups. To customize the recovery goals, specify the backup frequency, retention range, number of backup copies, and tape label for each increment of backup to be applied to this protection group.
To modify the tape label, click the label text to select it, and then click the label text again to edit it.
Recovery goal 1
Back up every: 1 Weeks
Retention range: 4 Weeks
Number of backup copy: 1
Tape Label
SharePoint Farms-LT-1Weeks-Copy0
Recovery goal 2
Back up every: 1 Months
Retention range: 3 Months
Number of backup copy: 1
Tape Label
SharePoint Farms-LT-1Months-Copy0
Recovery goal 3
Back up every: 1 Years
Retention range: 1 Years
Number of backup copy: 1
Tape Label
SharePoint Farms-LT-1Years-Copy0
Option
Specify the action DPM should take when the backup jobs for different recovery goals occur on the same day.
Run backup for all (ignore overlap of days)
Run backup only for the 'Recovery goal 2'
OK
Cancel
Help

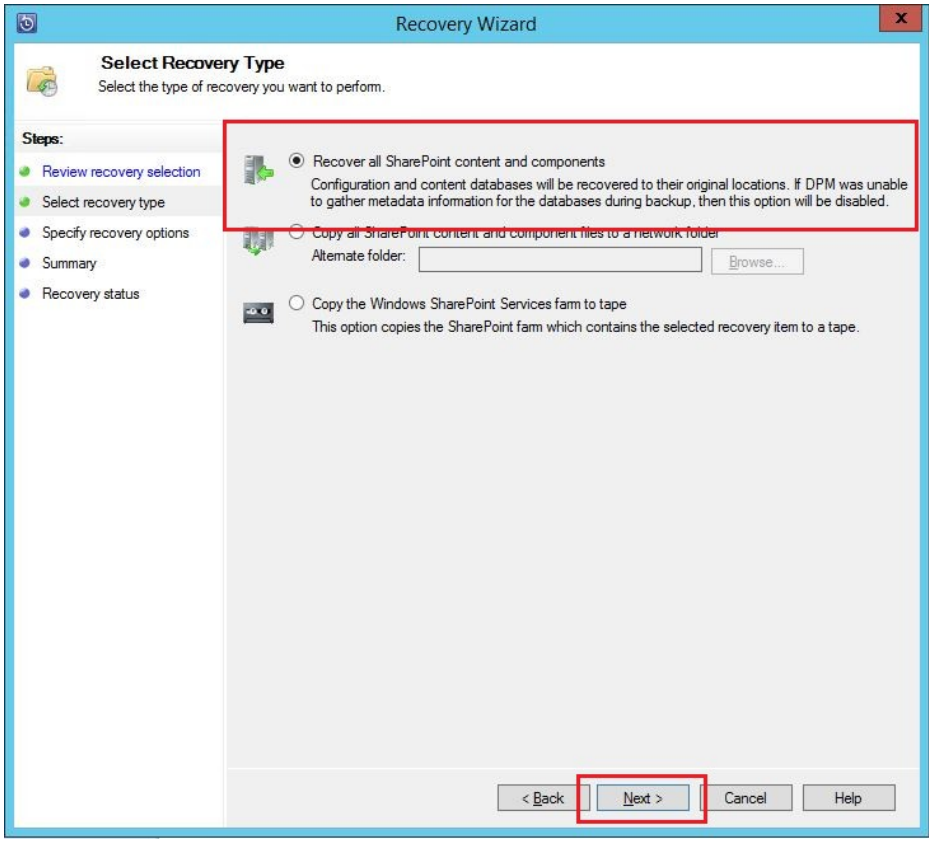

Modify Long-Term Backup Schedule
Backup schedule
Monthly backup time: 11:00 PM
Monthly backup day:
Day 1
The First Mon of every month
Weekly backup time: 11:00 PM
Weekly backup day: Sat
OK
Cancel
Help

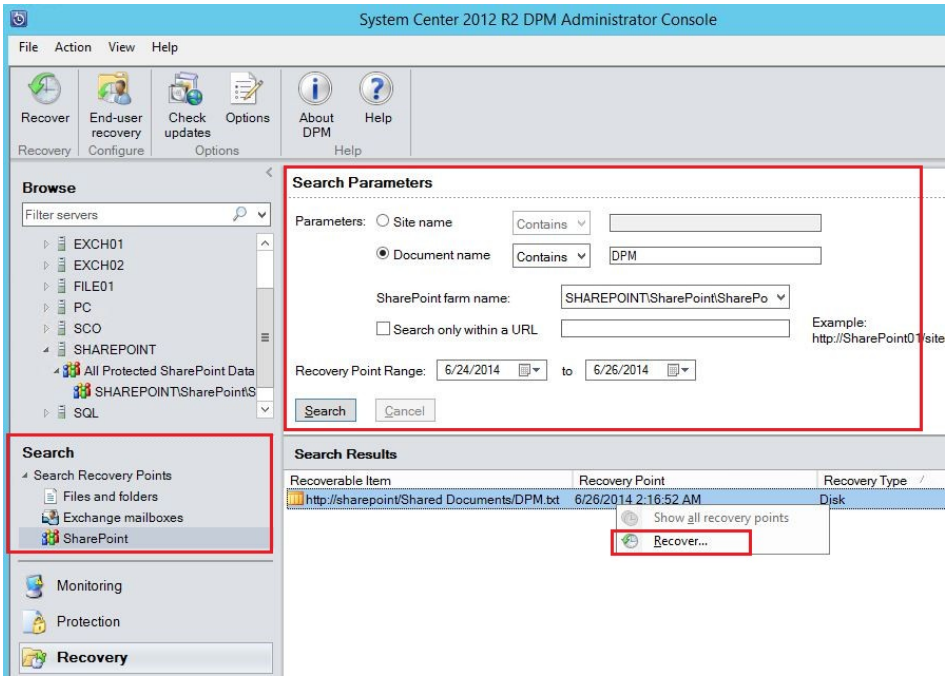

Create New Protection Group
Select Library and Tape Details
Specify details about tape and the library that you would like to use for backup.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Specify details about the library and tape that you want to use for tape backups.
Library details
Library:
Firestreamer Media Changer
Drives allocated:
1
Copy library:
Firestreamer Media Changer
Check backup for data integrity (time consuming operation)
Tape options for long-term protection
Compress data
Encrypt data
A valid DPM encryption certificate must be available on this DPM server. For more information click Help.
Do not compress or encrypt data.
You can optimize tape usage for this protection group using 'Optimize Tape Usage' on the Libraries Management page.
< Back
Next >
Cancel
Help

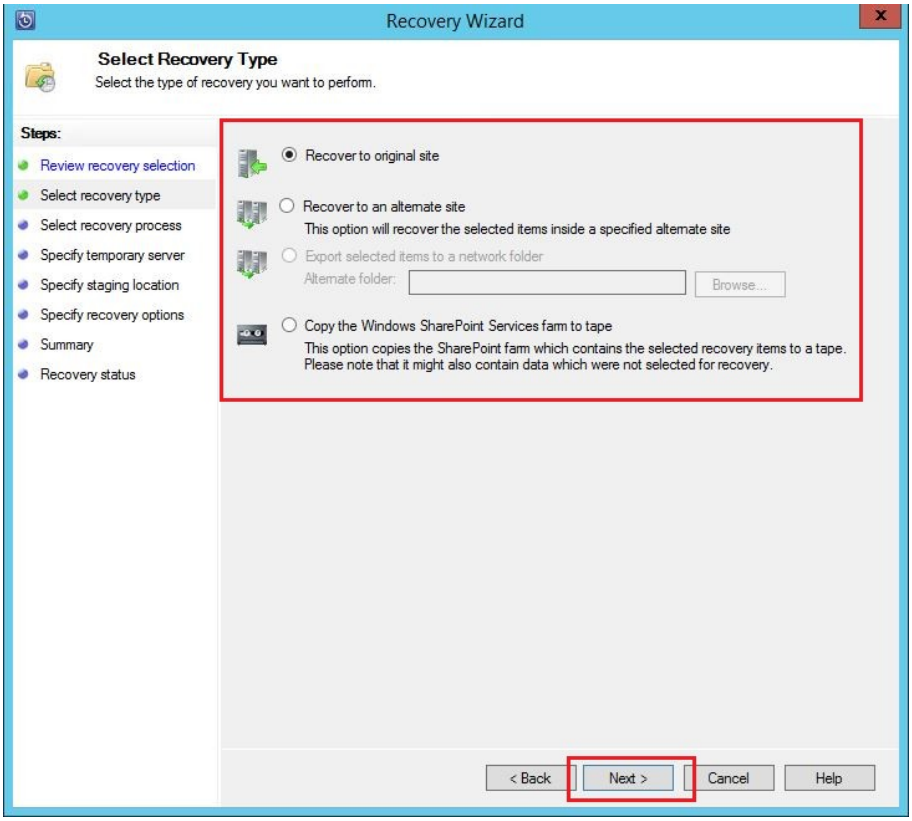

Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
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
6/26/2014
2:09:54 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 allocation
Specify long-term goals
Select library and tape details
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

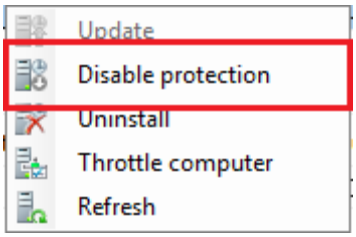

System Center 2012 R2 DPM Administrator Console
File Action View Help
Recover
Show all versions
End-user recovery
Check updates
Options
About DPM
Help
Recovery
Configure
Options
Help
Browse
Filter servers
DPM1
EXCH01
EXCH02
FILE01
PC
SCO
SHAREPOINT
All Protected SharePoint Data
SHAREPOINT\SharePoint\S
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Recovery points for: SHAREPOINT\SharePoint\SharePoint_Config_02e0896b-0c0b-4293-ad86-1538 32053
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.
June
2014
June 2014
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: June 26 2014
Recovery time: 2:15 AM
Recover from: Disk
Path: All Protected SharePoint Data
Search list below
Search in details also
Recoverable Item
Last Modified
Size
SHAREPOINT\SharePoint\SharePoint...
Show all recovery points
Recover...


Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover all SharePoint content and components
Configuration and content databases will be recovered to their original locations. If DPM was unable to gather metadata information for the databases during backup, then this option will be disabled.
Copy all SharePoint content and component files to a network folder
Alternate folder:
Browse...
Copy the Windows SharePoint Services farm to tape
This option copies the SharePoint farm which contains the selected recovery item to a tape.
< Back
Next >
Cancel
Help

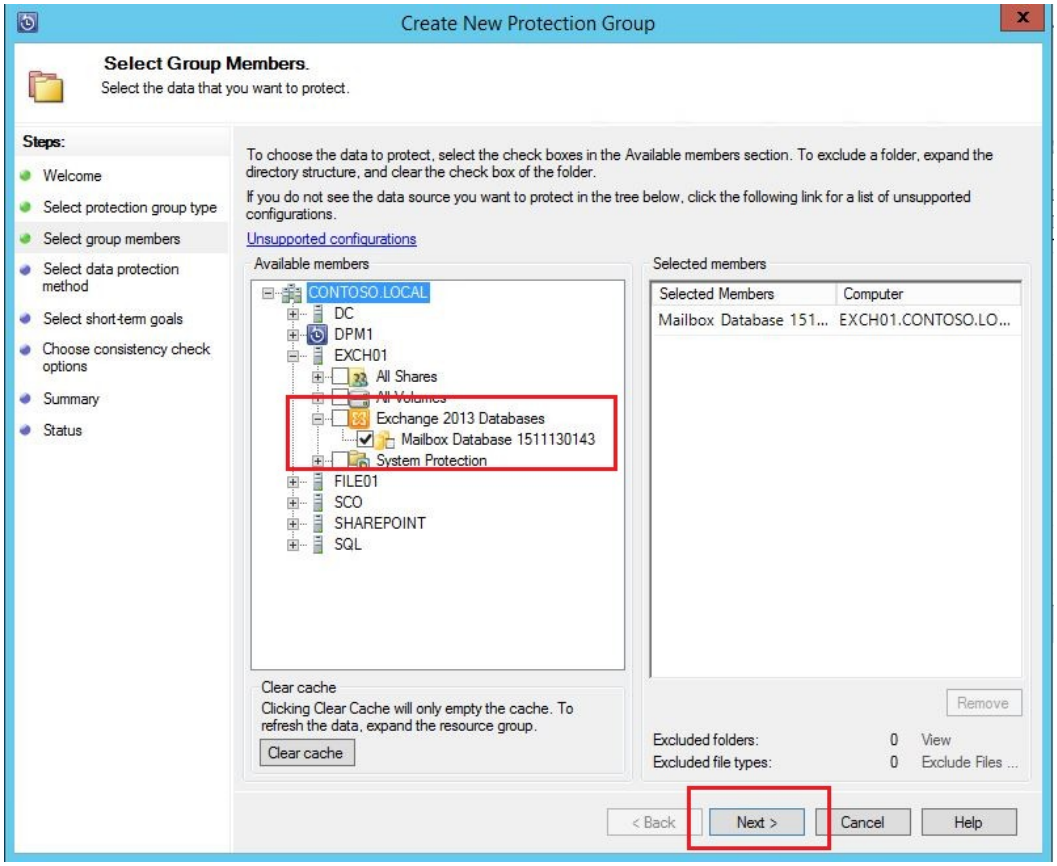

System Center 2012 R2 DPM Administrator Console
File Action View Help
Recover
End-user recovery
Check updates
Options
About DPM
Help
Recovery Configure Options Help
Browse
Filter servers
EXCH01
EXCH02
FILE01
PC
SCO
SHAREPOINT
All Protected SharePoint Data
SHAREPOINT\SharePoint\S
SQL
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Search Parameters
Parameters: Site name Contains
Document name Contains DPM
SharePoint farm name: SHAREPOINT\SharePoint\SharePo
Search only within a URL
Example: http://SharePoint01/site
Recovery Point Range: 6/24/2014 to 6/26/2014
Search Cancel
Search Results
Recoverable Item Recovery Point Recovery Type
http://sharepoint/Shared Documents/DPM.txt 6/26/2014 2:16:52 AM Disk
Show all recovery points
Recover...

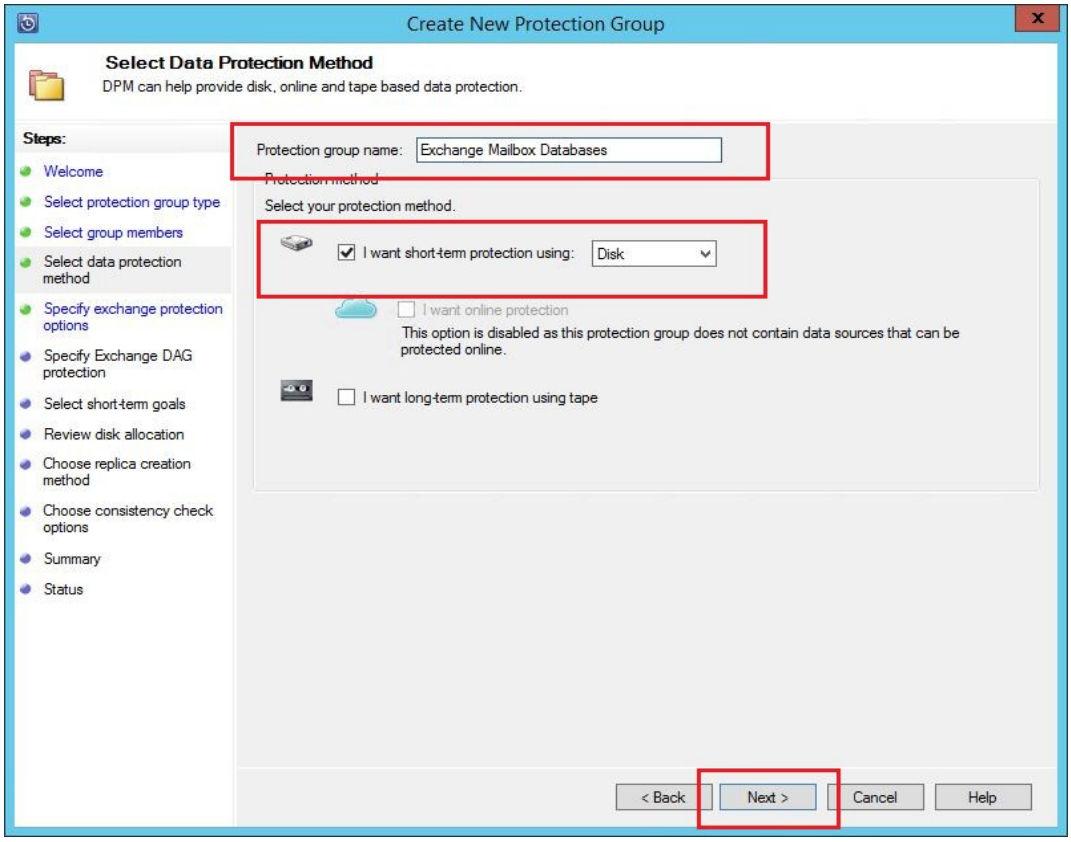

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Select recovery process
Specify temporary server
Specify staging location
Specify recovery options
Summary
Recovery status
Recover to original site
Recover to an alternate site
This option will recover the selected items inside a specified alternate site
Export selected items to a network folder
Alternate folder:
Browse...
Copy the Windows SharePoint Services farm to tape
This option copies the SharePoint farm which contains the selected recovery items to a tape. Please note that it might also contain data which were not selected for recovery.
< Back
Next >
Cancel
Help

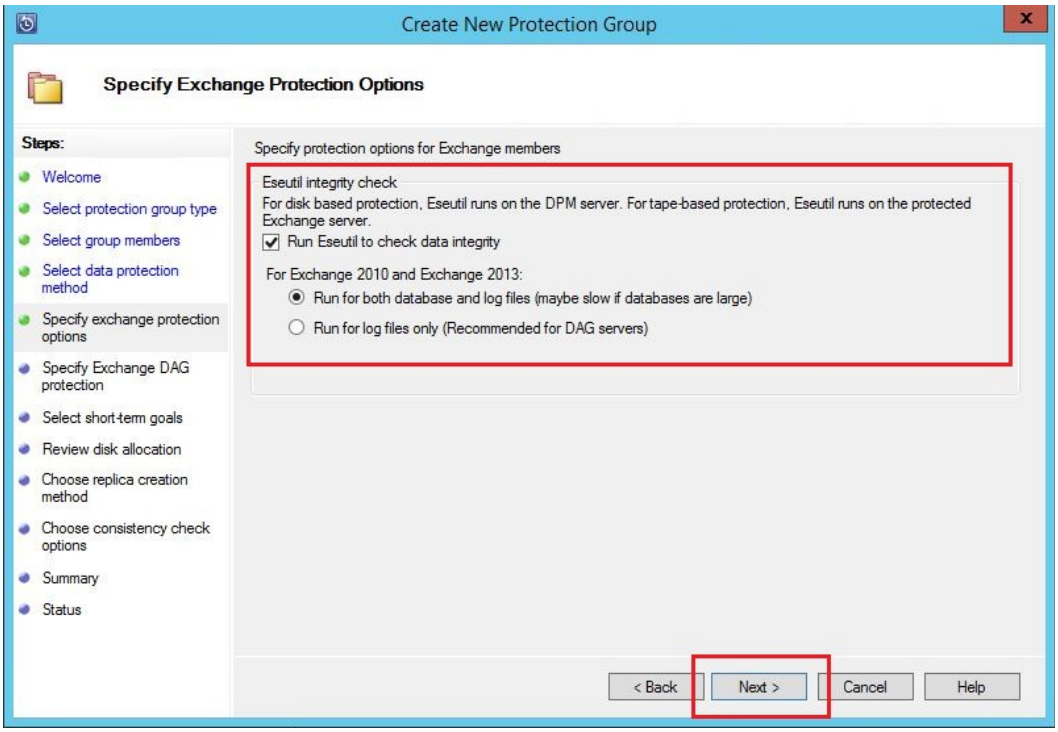
Chapter 8

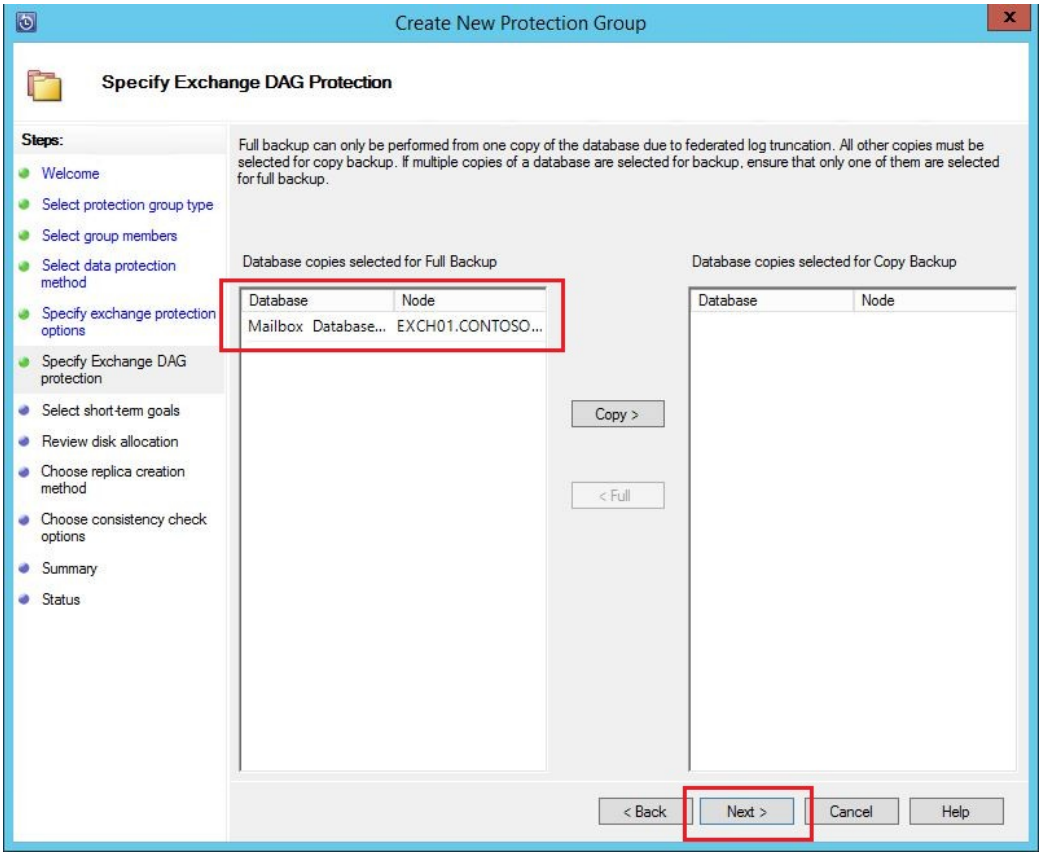

Update
Disable protection
Uninstall
Throttle computer
Refresh

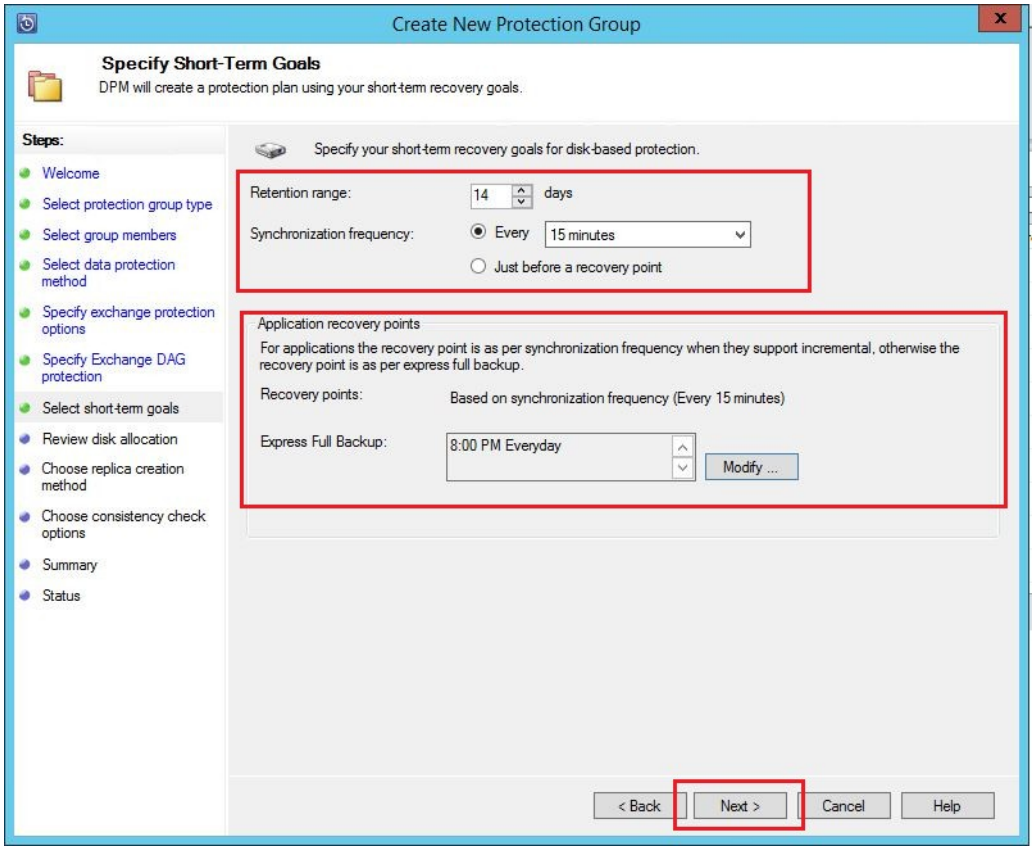
New
Modify
Delete
Optimize
Protection group

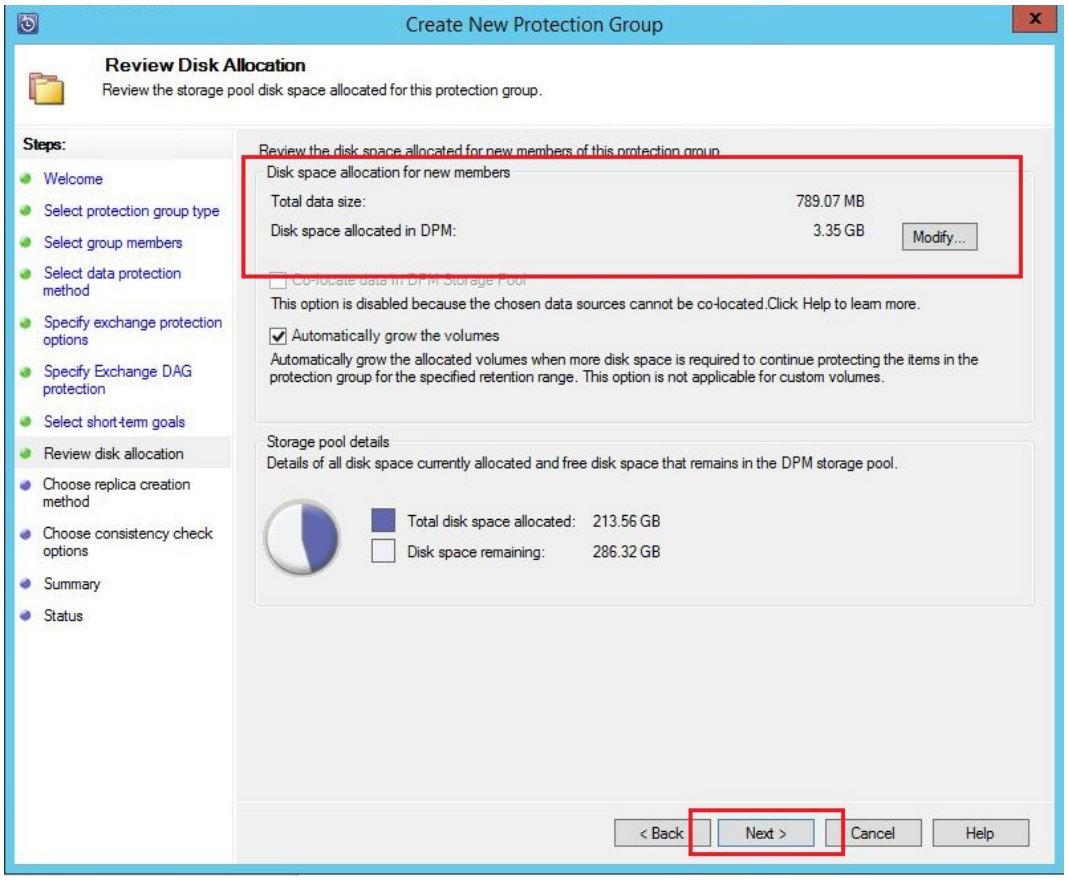

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.LOCAL
DC
DPM1
EXCH01
All Shares
Exchange 2013 Databases
Mailbox Database 1511130143
System Protection
FILE01
SCO
SHAREPOINT
SQL
Selected members
Selected Members
Computer
Mailbox Database 151...
EXCH01.CONTOSO.LO...
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

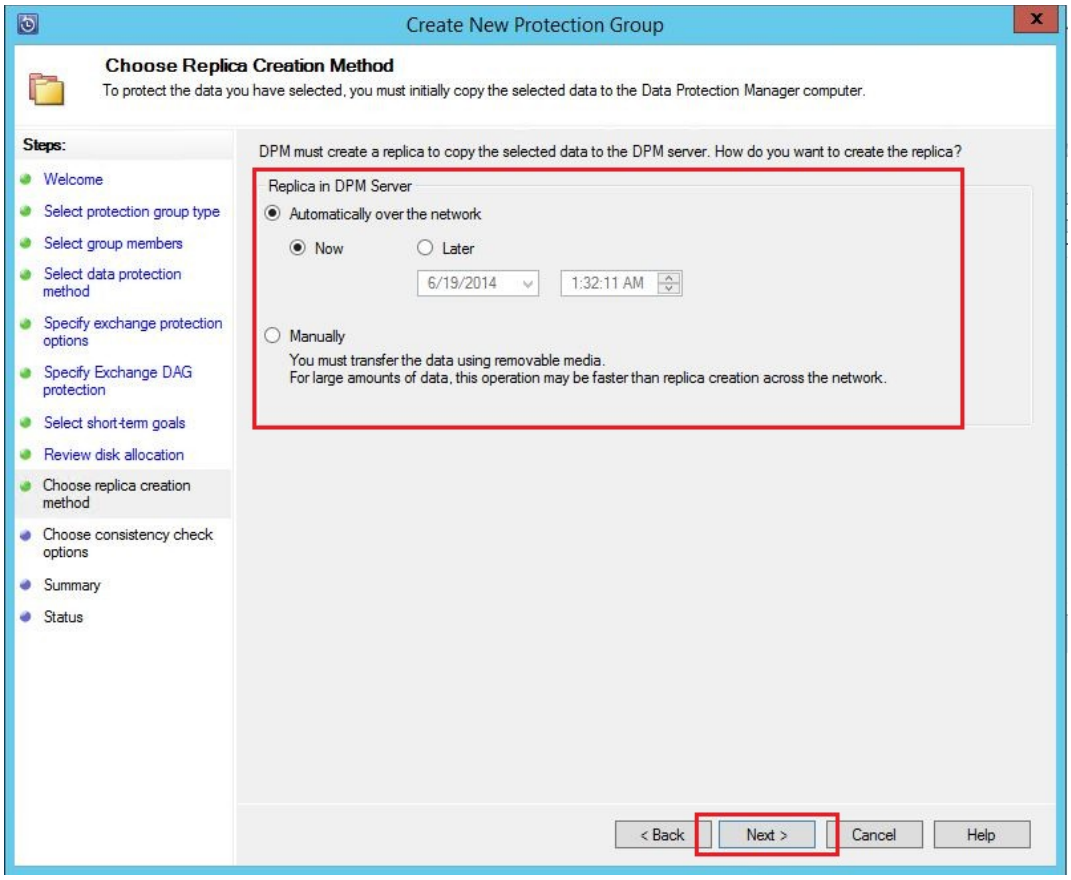

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Protection group name:
Exchange Mailbox Databases
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
This option is disabled as this protection group does not contain data sources that can be protected online.
I want long-term protection using tape
< Back
Next >
Cancel
Help

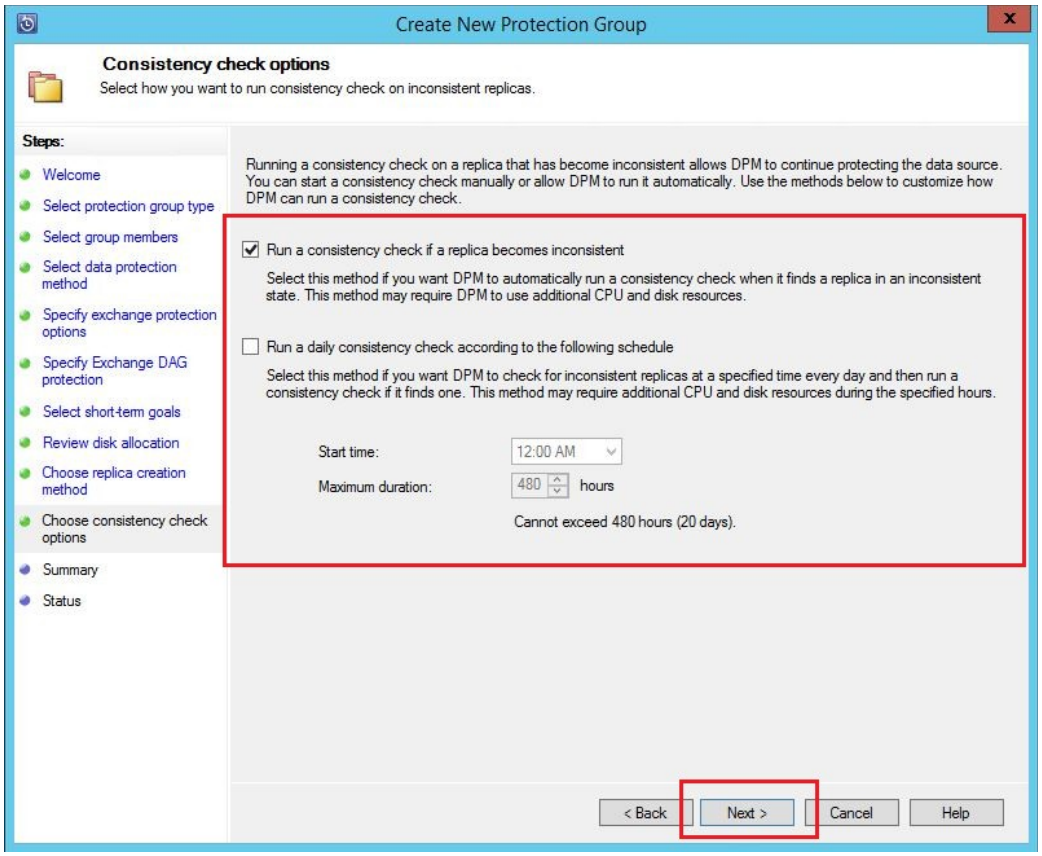

Create New Protection Group
Specify Exchange Protection Options
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Specify protection options for Exchange members
Eseutil integrity check
For disk based protection, Eseutil runs on the DPM server. For tape-based protection, Eseutil runs on the protected Exchange server.
Run Eseutil to check data integrity
For Exchange 2010 and Exchange 2013:
Run for both database and log files (maybe slow if databases are large)
Run for log files only (Recommended for DAG servers)
< Back
Next >
Cancel
Help

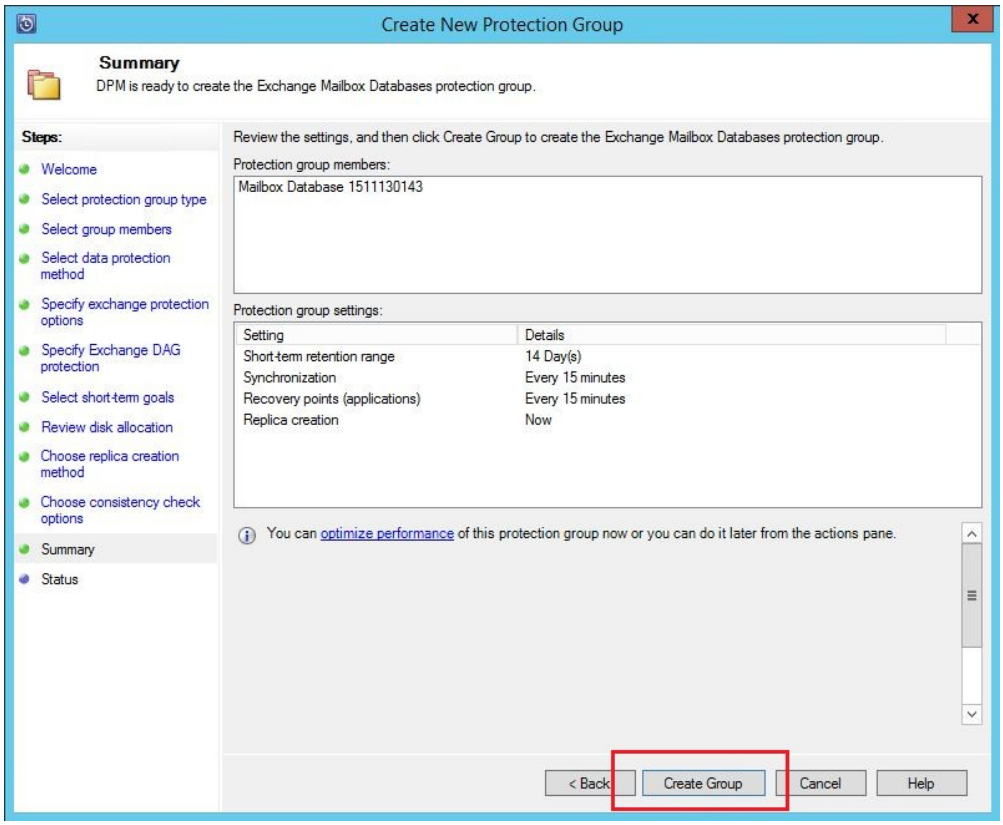

Create New Protection Group
Specify Exchange DAG Protection
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Full backup can only be performed from one copy of the database due to federated log truncation. All other copies must be selected for copy backup. If multiple copies of a database are selected for backup, ensure that only one of them are selected for full backup.
Database copies selected for Full Backup
Database
Node
Mailbox Database...
EXCH01.CONTOSO...
Copy >
< Full
Database copies selected for Copy Backup
Database
Node
< Back
Next >
Cancel
Help

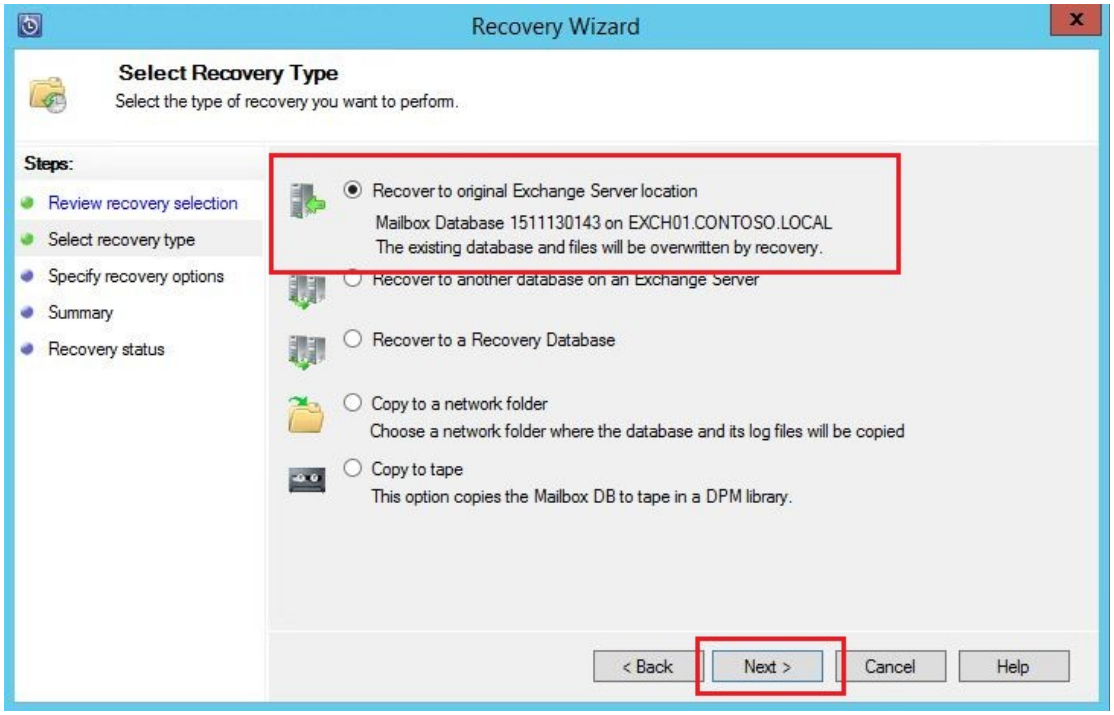

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
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 ...
< Back
Next >
Cancel
Help

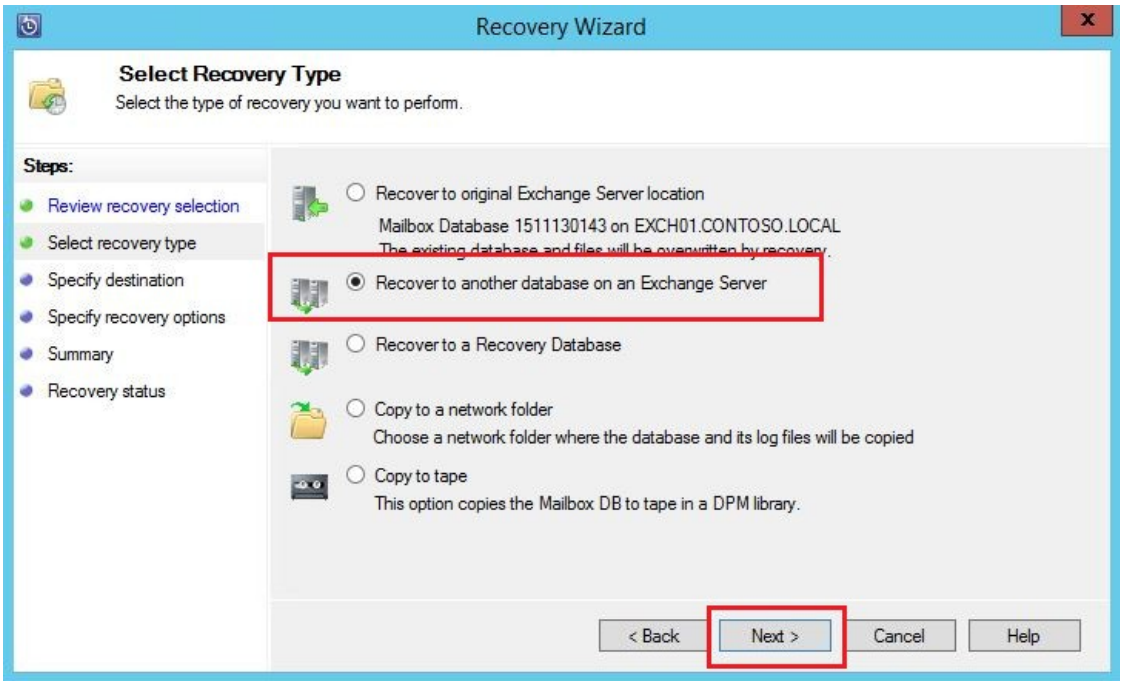

Create New Protection Group
Review Disk Allocation
Review the storage pool disk space allocated for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review the disk space allocated for new members of this protection group.
Disk space allocation for new members
Total data size: 789.07 MB
Disk space allocated in DPM: 3.35 GB
Modify...
This option is disabled because the chosen data sources cannot be co-located.Click Help to learn more.
Automatically grow the volumes
Automatically grow the allocated volumes when more disk space is required to continue protecting the items in the protection group for the specified retention range. This option is not applicable for custom volumes.
Storage pool details
Details of all disk space currently allocated and free disk space that remains in the DPM storage pool.
Total disk space allocated: 213.56 GB
Disk space remaining: 286.32 GB
< Back
Next >
Cancel
Help

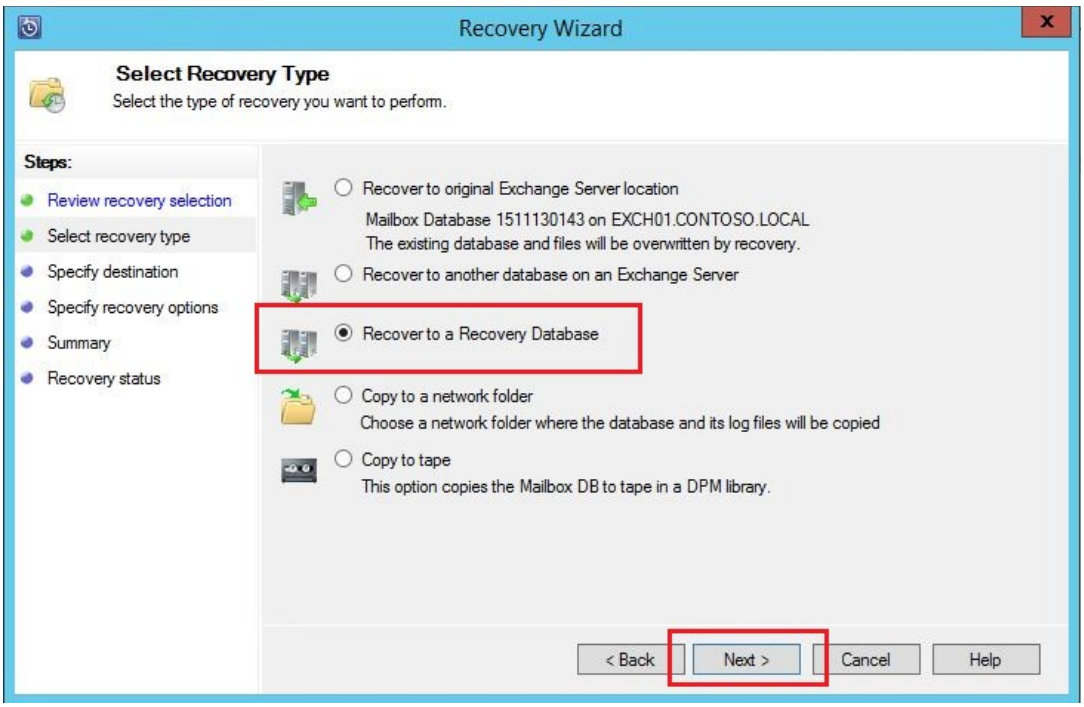

Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk 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
6/19/2014
1:32:11 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

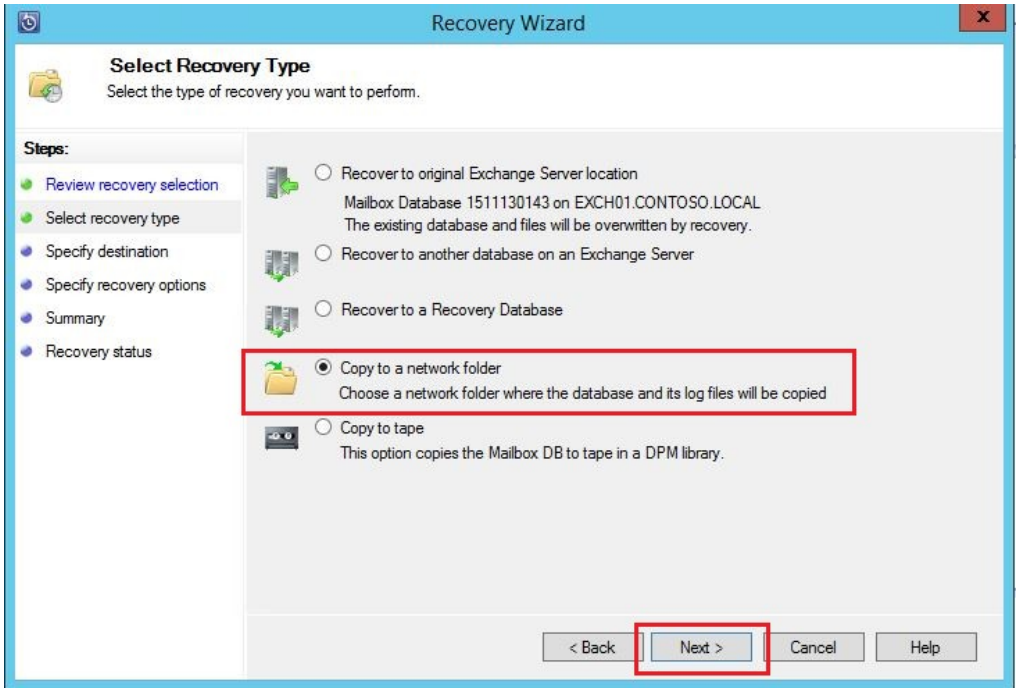

Create New Protection Group
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk 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

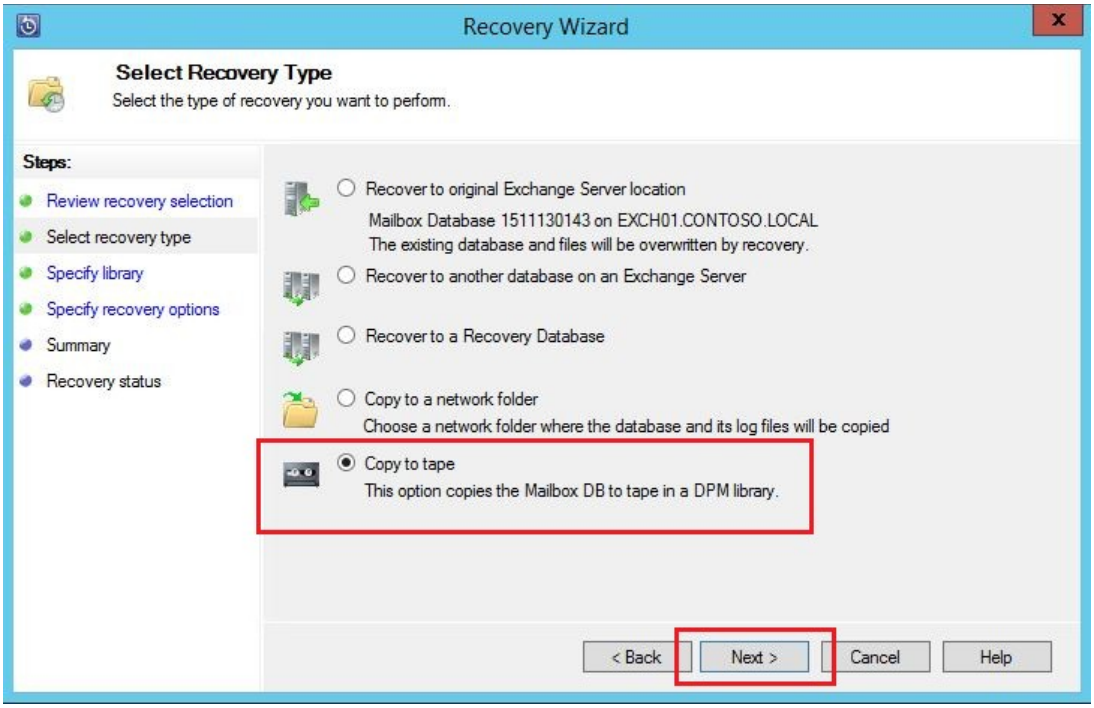

Create New Protection Group
Summary
DPM is ready to create the Exchange Mailbox Databases protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Review the settings, and then click Create Group to create the Exchange Mailbox Databases protection group.
Protection group members:
Mailbox Database 1511130143
Protection group settings:
Setting
Details
Short-term retention range
14 Day(s)
Synchronization
Every 15 minutes
Recovery points (applications)
Every 15 minutes
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

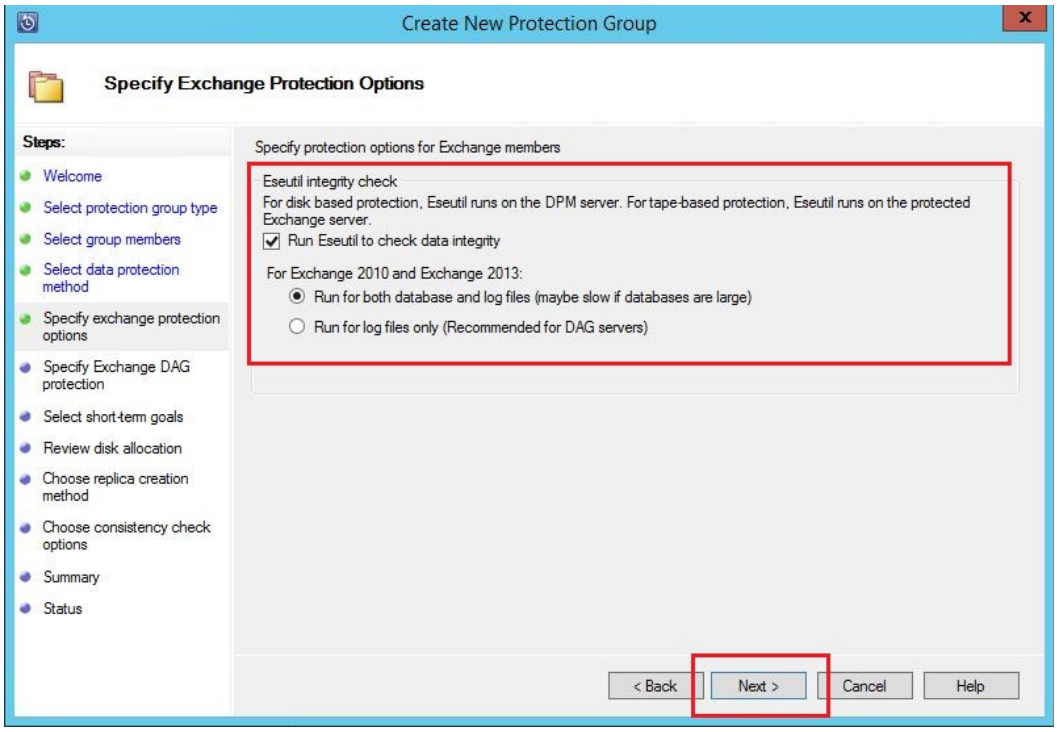

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to original Exchange Server location
Mailbox Database 1511130143 on EXCH01.CONTOSO.LOCAL
The existing database and files will be overwritten by recovery.
Recover to another database on an Exchange Server
Recover to a Recovery Database
Copy to a network folder
Choose a network folder where the database and its log files will be copied
Copy to tape
This option copies the Mailbox DB to tape in a DPM library.
< 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
Recover to original Exchange Server location
Mailbox Database 1511130143 on EXCH01.CONTOSO.LOCAL
The existing database and files will be overwritten by recovery.
Recover to another database on an Exchange Server
Recover to a Recovery Database
Copy to a network folder
Choose a network folder where the database and its log files will be copied
Copy to tape
This option copies the Mailbox DB to tape in a DPM library.
< Back
Next >
Cancel
Help

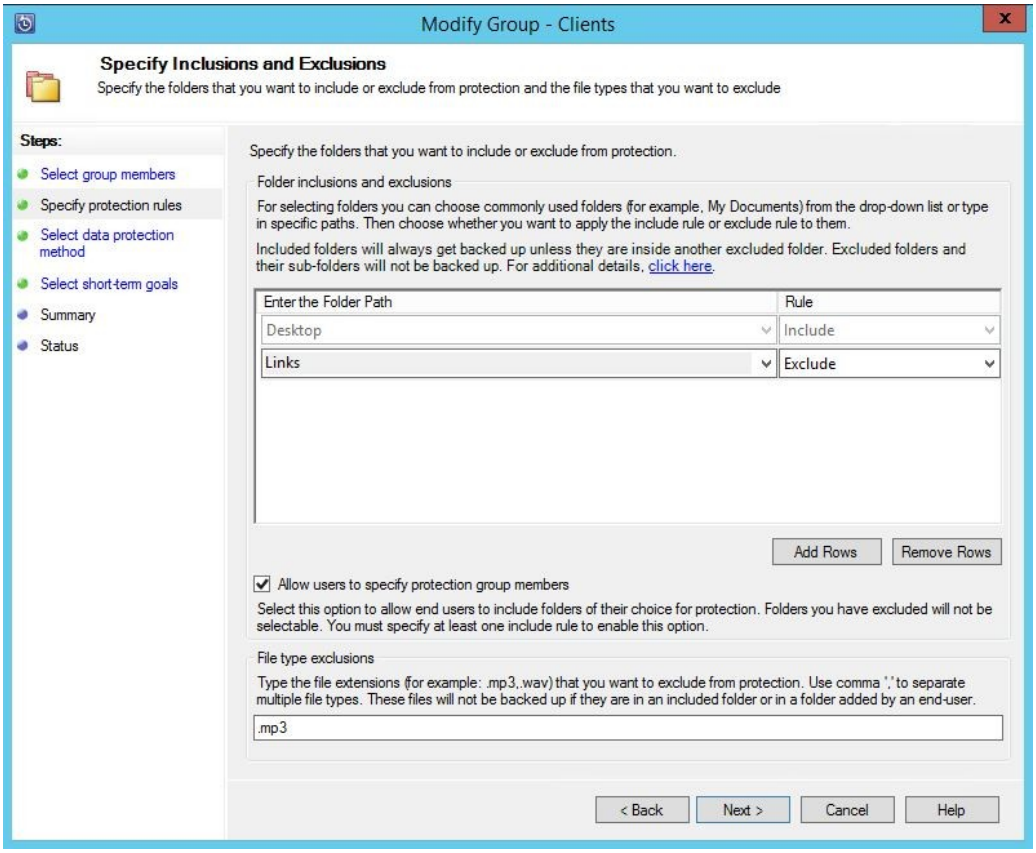

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recover to original Exchange Server location
Mailbox Database 1511130143 on EXCH01.CONTOSO.LOCAL
The existing database and files will be overwritten by recovery.
Recover to another database on an Exchange Server
Recover to a Recovery Database
Copy to a network folder
Choose a network folder where the database and its log files will be copied
Copy to tape
This option copies the Mailbox DB to tape in a DPM library.
< Back
Next >
Cancel
Help

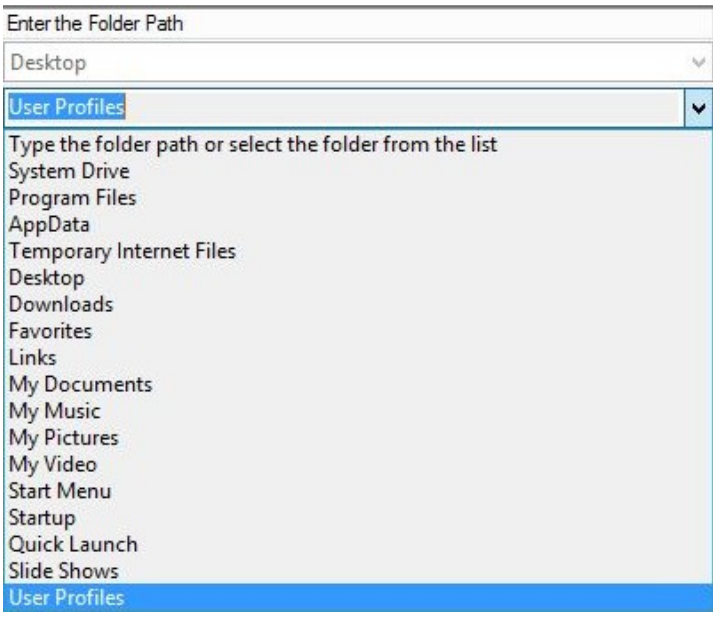

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify destination
Specify recovery options
Summary
Recovery status
Recover to original Exchange Server location
Mailbox Database 1511130143 on EXCH01.CONTOSO.LOCAL
The existing database and files will be overwritten by recovery.
Recover to another database on an Exchange Server
Recover to a Recovery Database
Copy to a network folder
Choose a network folder where the database and its log files will be copied
Copy to tape
This option copies the Mailbox DB to tape in a DPM library.
< Back
Next >
Cancel
Help

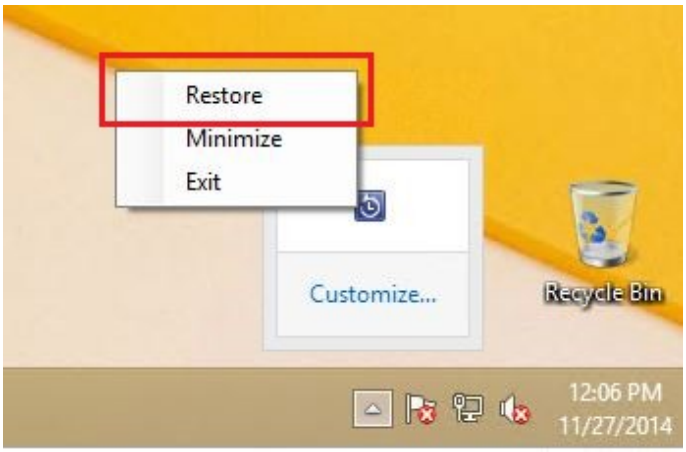

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify library
Specify recovery options
Summary
Recovery status
Recover to original Exchange Server location
Mailbox Database 1511130143 on EXCH01.CONTOSO.LOCAL
The existing database and files will be overwritten by recovery.
Recover to another database on an Exchange Server
Recover to a Recovery Database
Copy to a network folder
Choose a network folder where the database and its log files will be copied
Copy to tape
This option copies the Mailbox DB to tape in a DPM library.
< Back
Next >
Cancel
Help

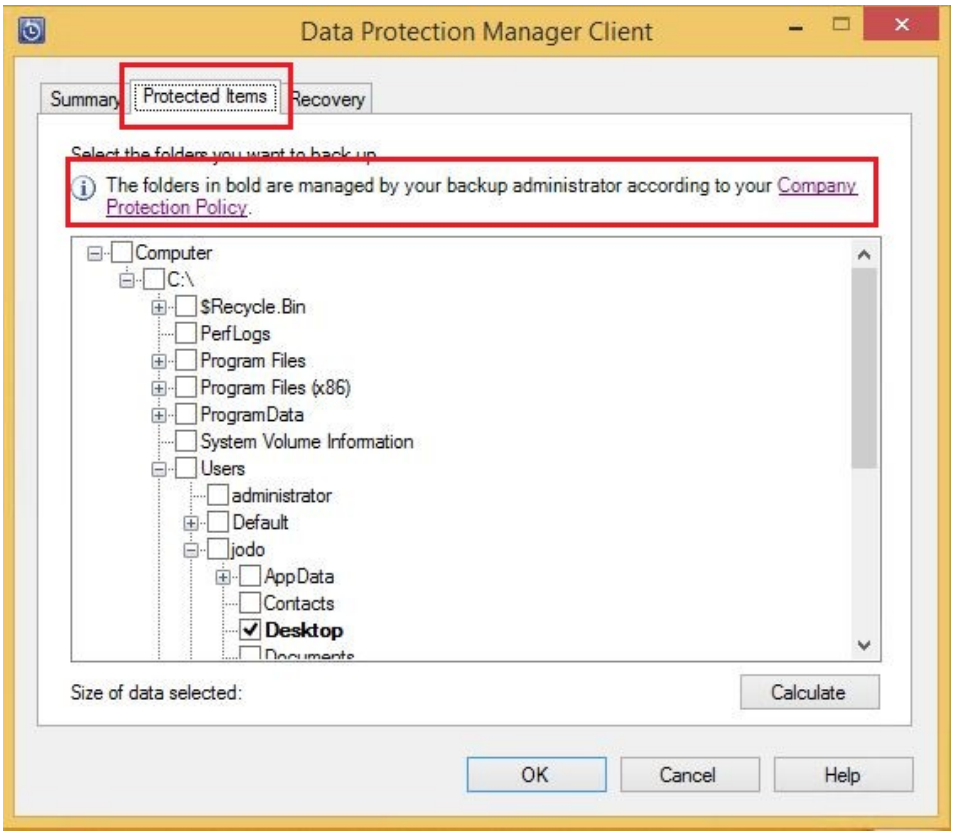

Create New Protection Group
Specify Exchange Protection Options
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Specify exchange protection options
Specify Exchange DAG protection
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Summary
Status
Specify protection options for Exchange members
Eseutil integrity check
For disk based protection, Eseutil runs on the DPM server. For tape-based protection, Eseutil runs on the protected Exchange server.
Run Eseutil to check data integrity
For Exchange 2010 and Exchange 2013:
Run for both database and log files (maybe slow if databases are large)
Run for log files only (Recommended for DAG servers)
< Back
Next >
Cancel
Help

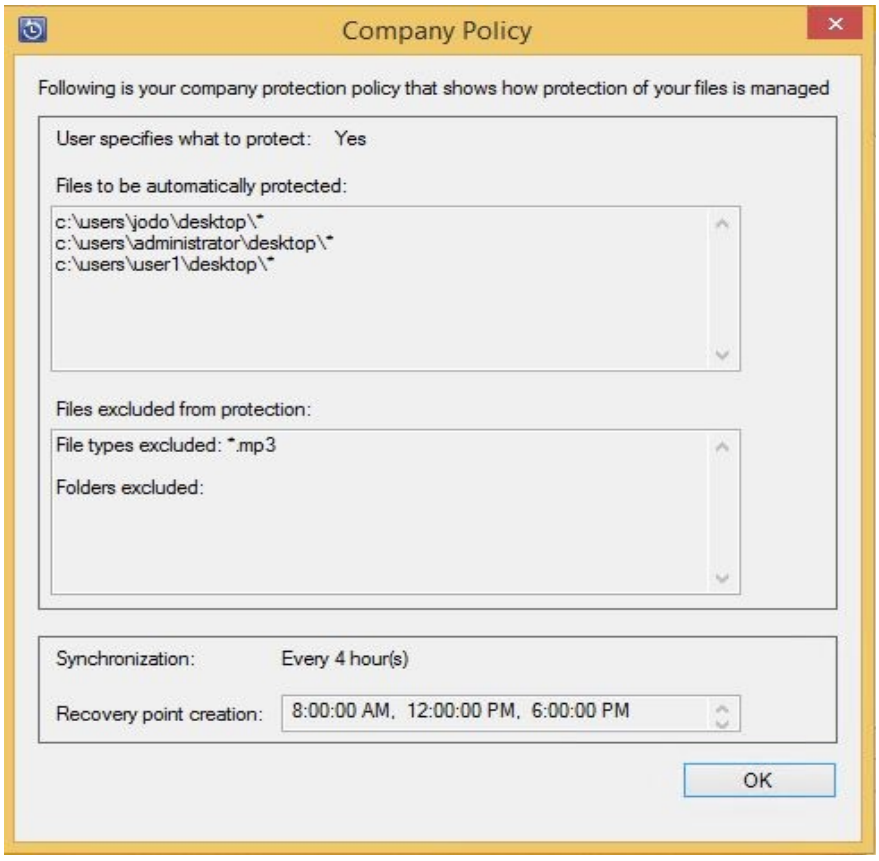
Chapter 9


Modify Group - Clients
Specify Inclusions and Exclusions
Specify the folders that you want to include or exclude from protection and the file types that you want to exclude
Steps:
Select group members
Specify protection rules
Select data protection method
Select short-term goals
Summary
Status
Specify the folders that you want to include or exclude from protection.
Folder inclusions and exclusions
For selecting folders you can choose commonly used folders (for example, My Documents) from the drop-down list or type in specific paths. Then choose whether you want to apply the include rule or exclude rule to them.
Included folders will always get backed up unless they are inside another excluded folder. Excluded folders and their sub-folders will not be backed up. For additional details, click here.
Enter the Folder Path
Rule
Desktop
Include
Links
Exclude
Add Rows
Remove Rows
Allow users to specify protection group members
Select this option to allow end users to include folders of their choice for protection. Folders you have excluded will not be selectable. You must specify at least one include rule to enable this option.
File type exclusions
Type the file extensions (for example: .mp3,.wav) that you want to exclude from protection. Use comma ',' to separate multiple file types. These files will not be backed up if they are in an included folder or in a folder added by an end-user.
.mp3
< Back
Next >
Cancel
Help

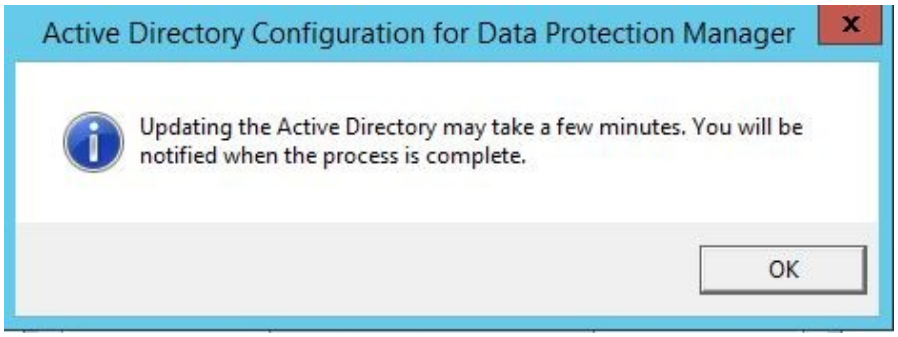

Enter the Folder Path
Desktop
User Profiles
Type the folder path or select the folder from the list
System Drive
Program Files
AppData
Temporary Internet Files
Desktop
Downloads
Favorites
Links
My Documents
My Music
My Pictures
My Video
Start Menu
Startup
Quick Launch
Slide Shows
User Profiles

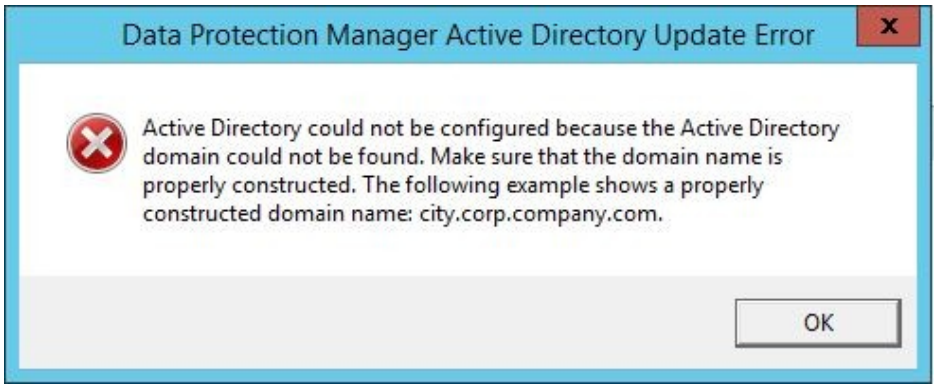

Restore
Minimize
Exit
Customize...
Recycle Bin
12:06 PM
11/27/2014

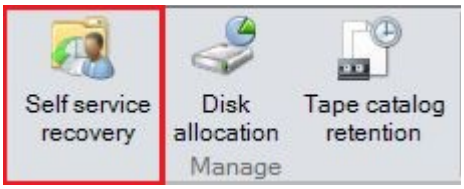

Data Protection Manager Client
Summary
Protected Items
Recovery
Select the folders you want to back up
The folders in bold are managed by your backup administrator according to your Company Protection Policy.
Computer
C:\
$Recycle.Bin
PerfLogs
Program Files
Program Files (x86)
ProgramData
System Volume Information
Users
administrator
Default
jodo
AppData
Contacts
Desktop
Size of data selected:
Calculate
OK
Cancel
Help

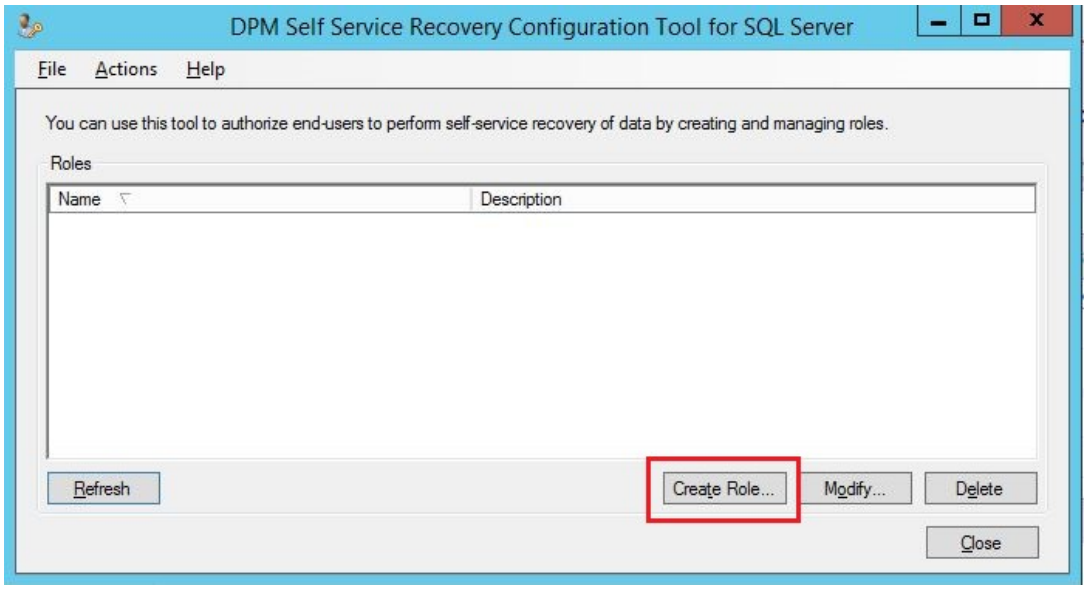

Company Policy
Following is your company protection policy that shows how protection of your files is managed
User specifies what to protect: Yes
Files to be automatically protected:
c:\users\jodo\desktop*
c:\users\administrator\desktop*
c:\users\user1\desktop*
Files excluded from protection:
File types excluded: *.mp3
Folders excluded:
Synchronization: Every 4 hour(s)
Recovery point creation: 8:00:00 AM, 12:00:00 PM, 6:00:00 PM
OK

Active Directory Configuration for Data Protection Manager
This package will configure your Active Directory to support end-user recovery for Data Protection Manager. Do you want to continue?
Yes
No


Active Directory Configuration for Data Protection Manager
Updating the Active Directory may take a few minutes. You will be notified when the process is complete.
OK


Data Protection Manager Active Directory Update Error
Active Directory could not be configured because the Active Directory domain could not be found. Make sure that the domain name is properly constructed. The following example shows a properly constructed domain name: city.corp.company.com.
OK


Self service recovery
Disk allocation
Tape catalog retention
Manage

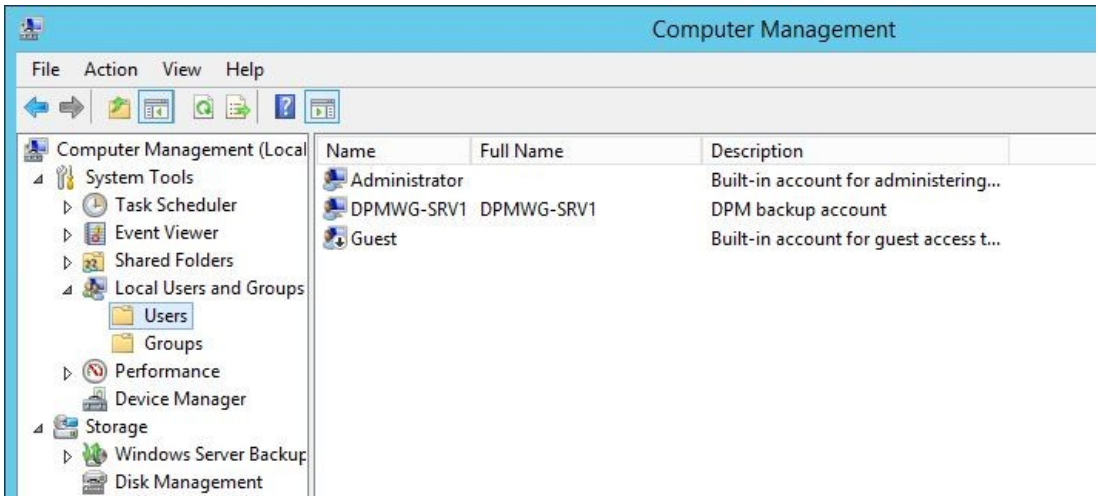

DPM Self Service Recovery Configuration Tool for SQL Server
File
Actions
Help
You can use this tool to authorize end-users to perform self-service recovery of data by creating and managing roles.
Roles
Name
Description
Refresh
Create Role...
Modify...
Delete
Close

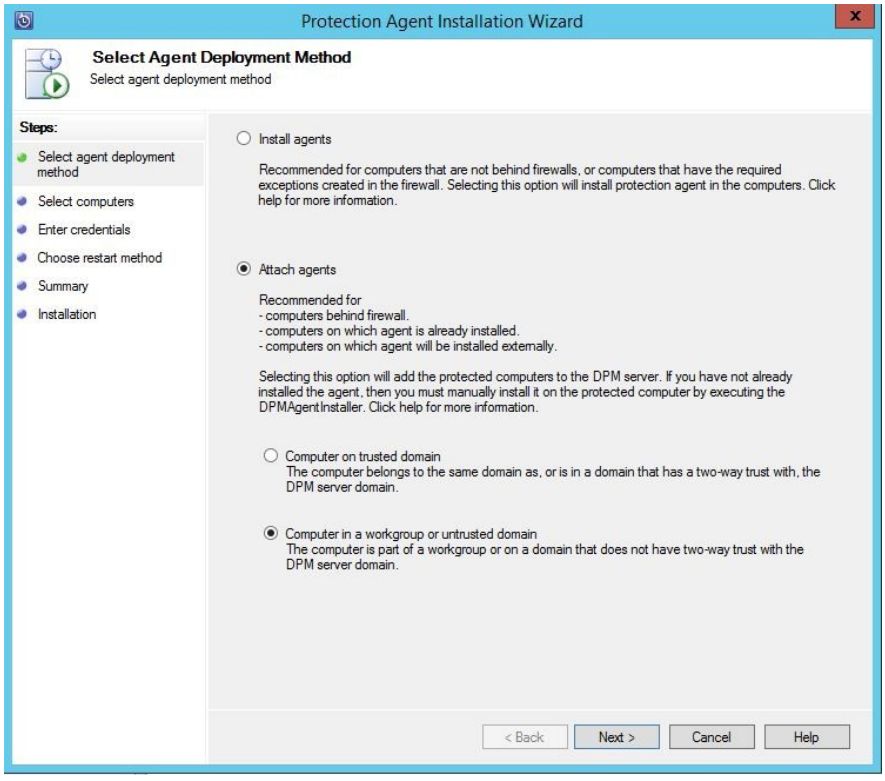
Chapter 10

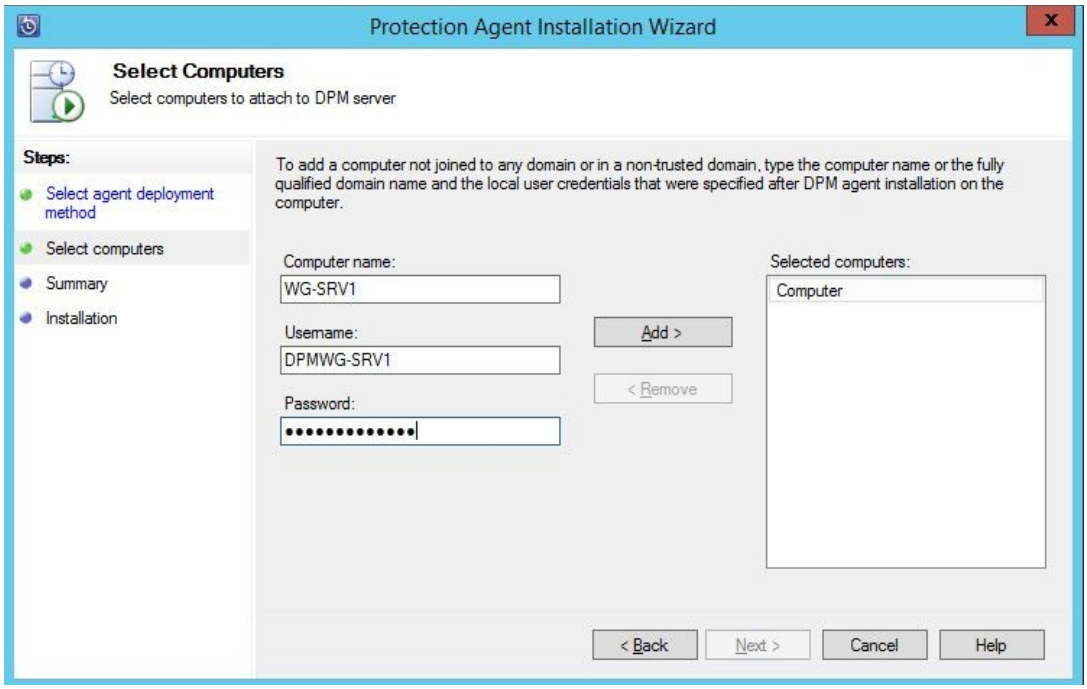
Administrator: Command Prompt
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>setdpmserver -dpmserv
ername DPM1 -isnondomainserver -username DPMWG-SRV1

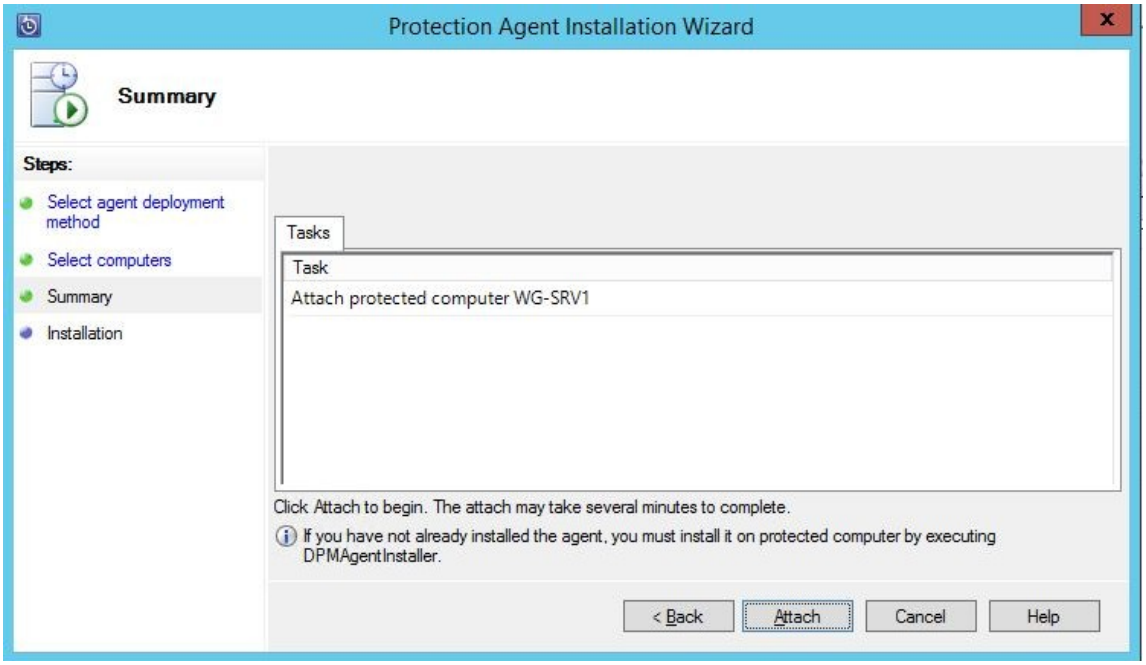
Administrator: Command Prompt - setdpmserver -dpmservername DPM1 -isno...
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>setdpmserver -dpmserv
ername DPM1 -isnondomainserver -username DPMWG-SRV1
Make sure that this computer is not part of a perimeter network. DPM does not su
pport protection of computers on a perimeter network.
Enter the password for 'DPMWG-SRV1' to connect to 'DPM1':

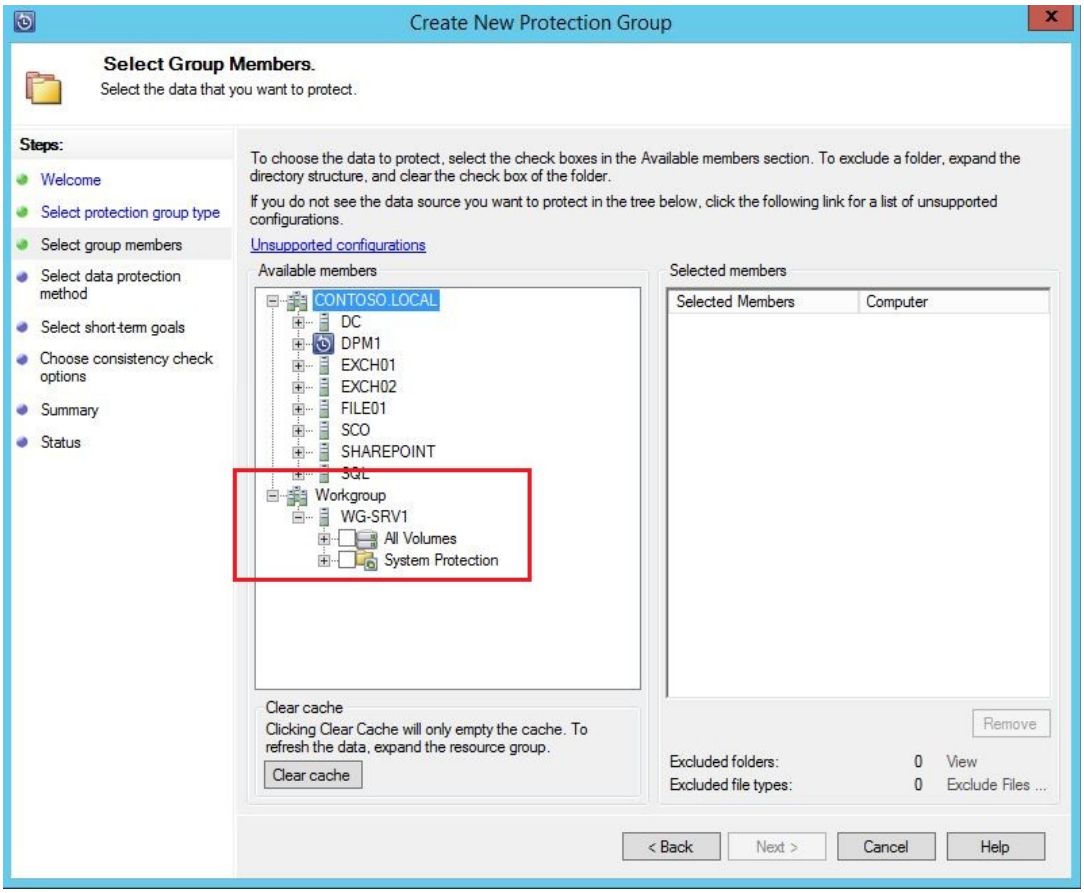
Administrator: Command Prompt
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>setdpmserver -dpmserv
ername DPM1 -isnondomainserver -username DPMWG-SRV1
Make sure that this computer is not part of a perimeter network. DPM does not su
pport protection of computers on a perimeter network.
Enter the password for 'DPMWG-SRV1' to connect to 'DPM1':
Retype the password to confirm:
Enter the password for 'DPMWG-SRV1' to connect to 'DPM1':
Configuring dpm server settings and firewall settings for dpm server =[DPM1]
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 prof
iles.
Configuration completed successfully!!!
C:\Program Files\Microsoft Data Protection Manager\DPM\bin>

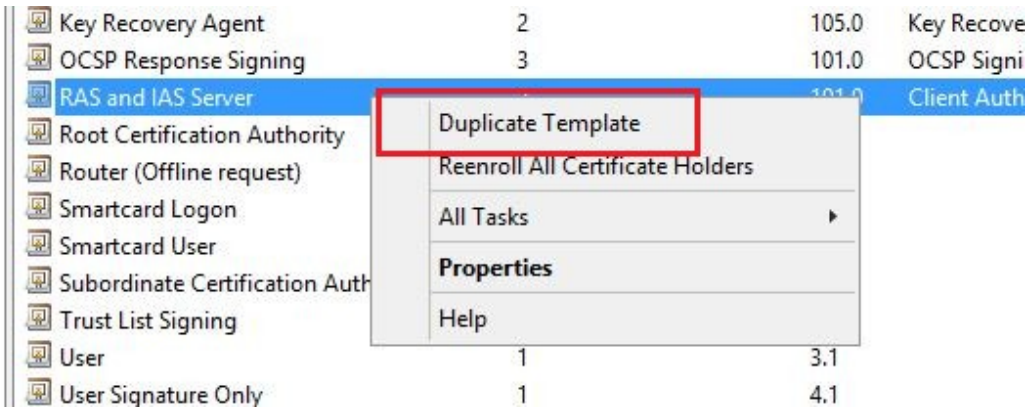

Computer Management
File Action View Help
Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Users
Groups
Performance
Device Manager
Storage
Windows Server Backup
Disk Management
Name
Full Name
Description
Administrator
Built-in account for administering...
DPMWG-SRV1
DPMWG-SRV1
DPM backup account
Guest
Built-in account for guest access t...

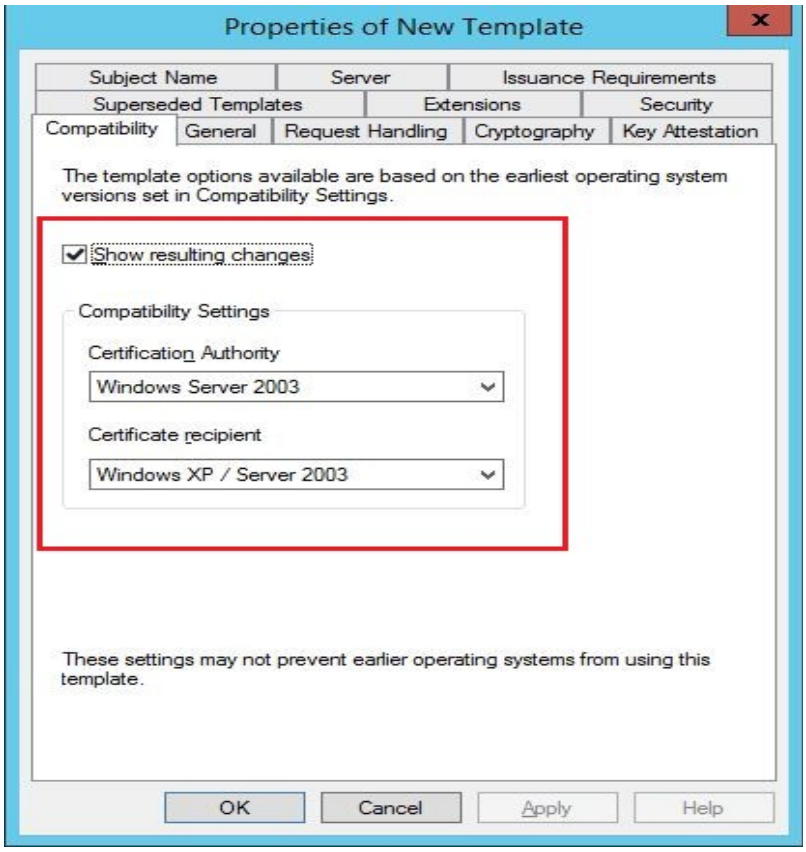

Protection Agent Installation Wizard
Select Agent Deployment Method
Select agent deployment method
Steps:
Select agent deployment method
Select computers
Enter credentials
Choose restart method
Summary
Installation
Install agents
Recommended for computers that are not behind firewalls, or computers that 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

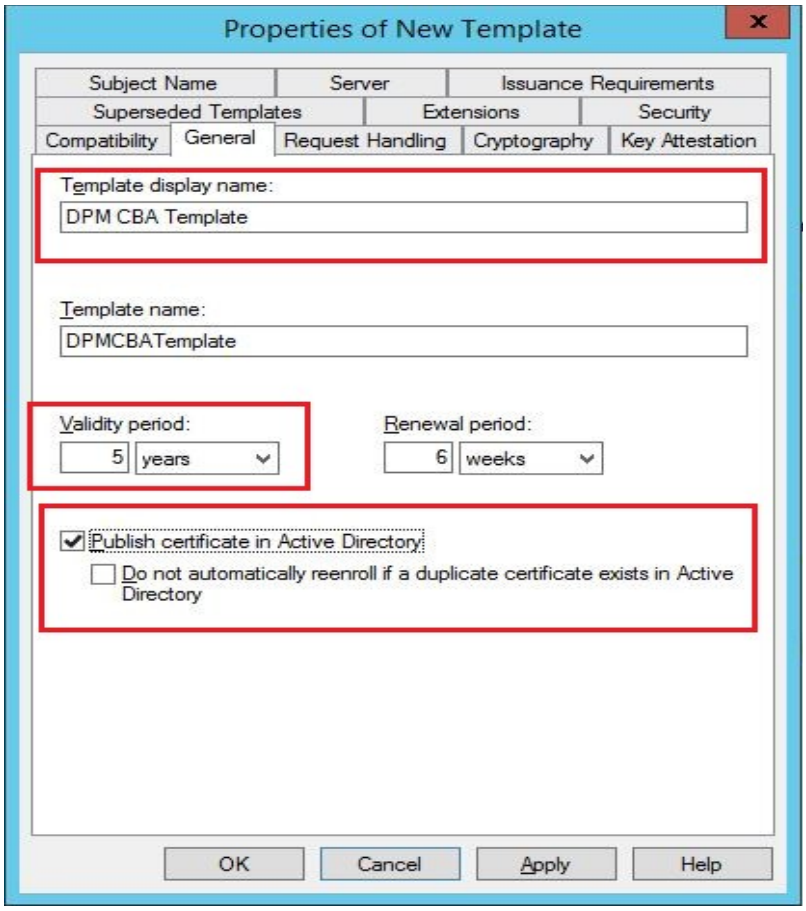

Protection Agent Installation Wizard
Select Computers
Select computers to attach to DPM server
Steps:
Select agent deployment method
Select computers
Summary
Installation
To add a computer not joined to any domain or in a non-trusted domain, type the computer name or the fully qualified domain name and the local user credentials that were specified after DPM agent installation on the computer.
Computer name:
WG-SRV1
Username:
DPMWG-SRV1
Password:
Add >
< Remove
Selected computers:
Computer
< Back
Next >
Cancel
Help

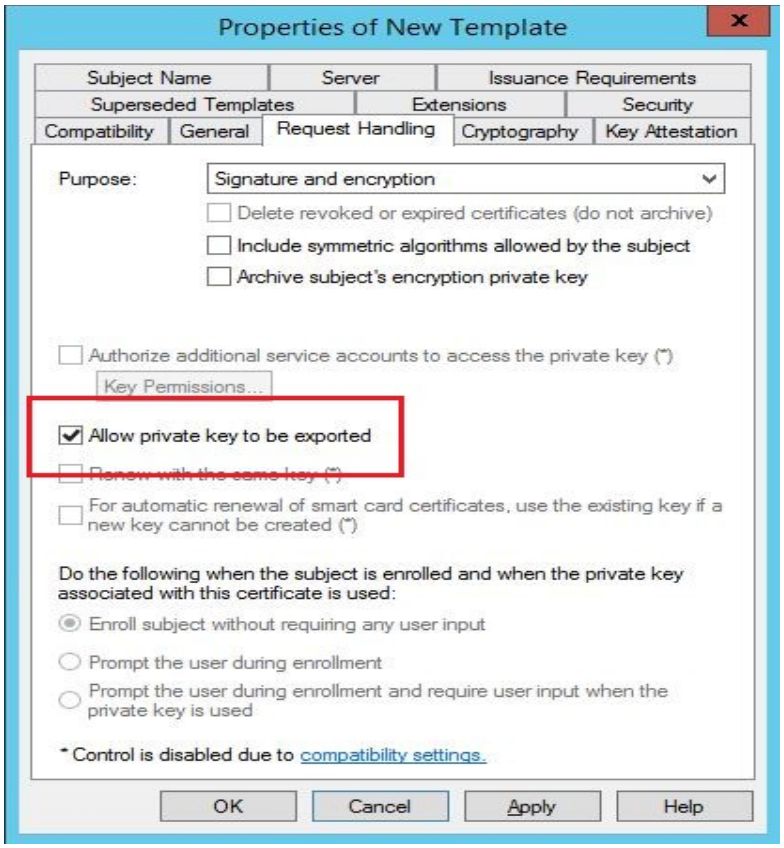

Protection Agent Installation Wizard
Summary
Steps:
Select agent deployment method
Select computers
Summary
Installation
Tasks
Task
Attach protected computer WG-SRV1
Click Attach to begin. The attach may take several minutes to complete.
If you have not already installed the agent, you must install it on protected computer by executing DPMAgentInstaller.
< Back
Attach
Cancel
Help

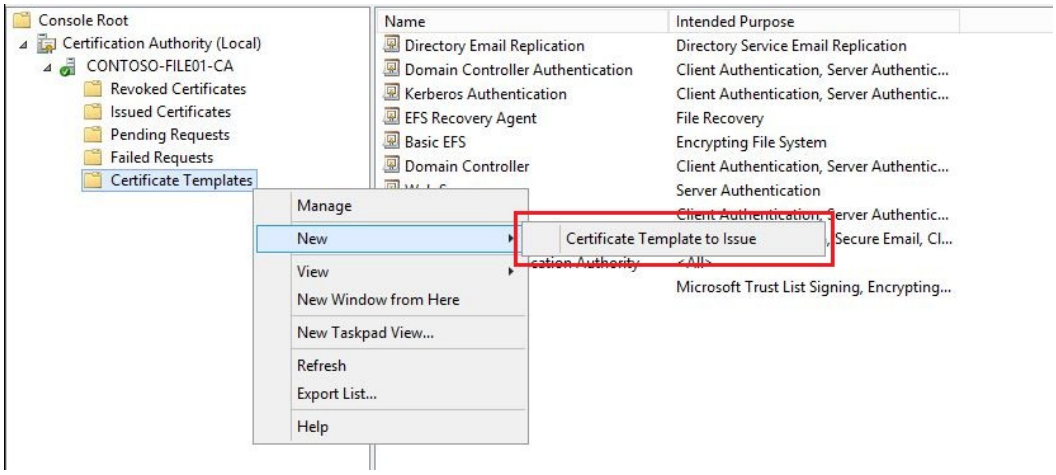

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.LOCAL
DC
DPM1
EXCH01
EXCH02
FILE01
SCO
SHAREPOINT
SQL
Workgroup
WG-SRV1
All Volumes
System Protection
Selected members
Selected Members
Computer
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Remove
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

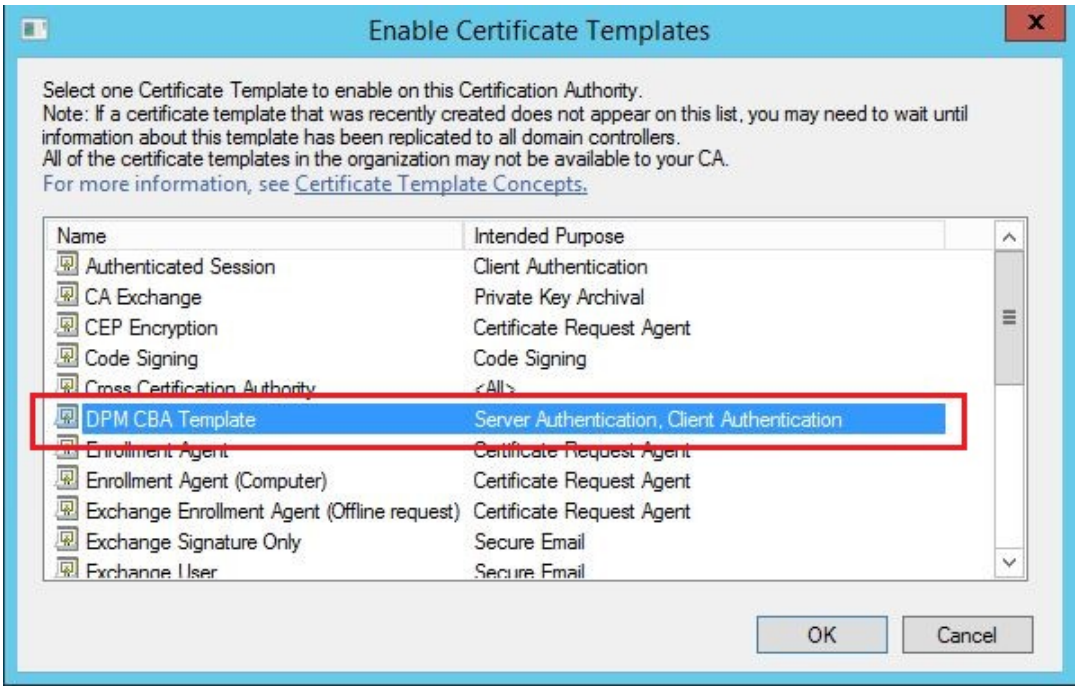

Key Recovery Agent 2 105.0 Key Recove
OCSP Response Signing 3 101.0 OCSP Signi
RAS and IAS Server Client Auth
Root Certification Authority
Router (Offline request)
Smartcard Logon
Smartcard User
Subordinate Certification Auth
Trust List Signing
User 1 3.1
User Signature Only 1 4.1
Duplicate Template
Reenroll All Certificate Holders
All Tasks
Properties
Help

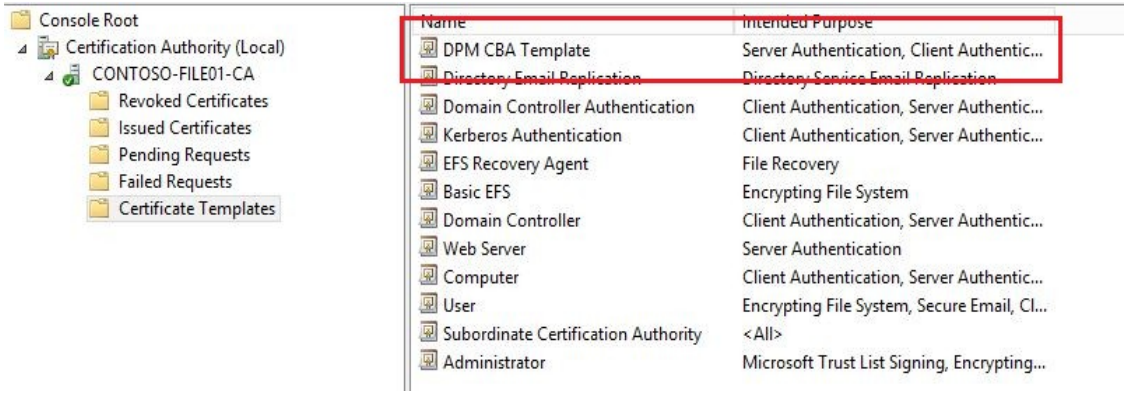

Properties of New Template
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
The template options available are based on the earliest operating system versions set in Compatibility Settings.
Show resulting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

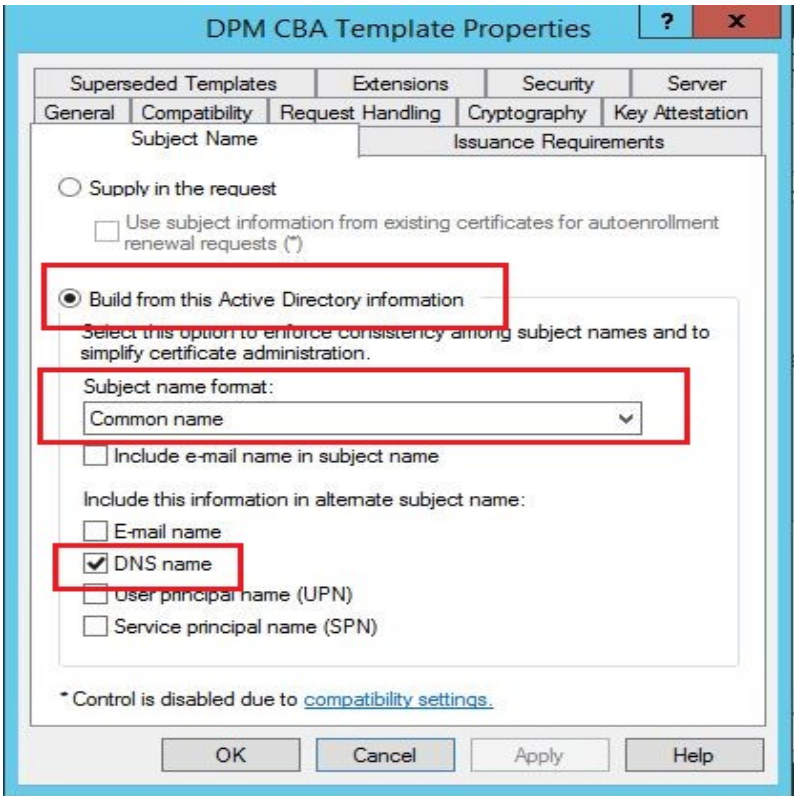

Properties of New Template
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
Template display name:
DPM CBA Template
Template name:
DPMCBATemplate
Validity period:
5
years
Renewal period:
6
weeks
Publish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

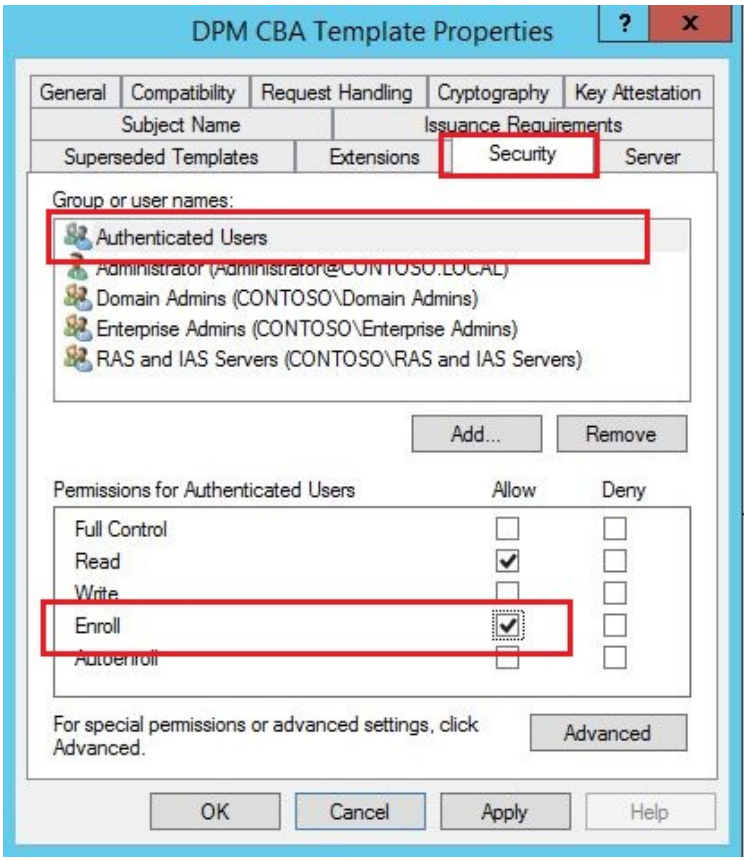

Properties of New Template
Subject Name
Server
Issuance Requirements
Superseded Templates
Extensions
Security
Compatibility
General
Request Handling
Cryptography
Key Attestation
Purpose:
Signature and encryption
Delete revoked or expired certificates (do not archive)
Include symmetric algorithms allowed 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

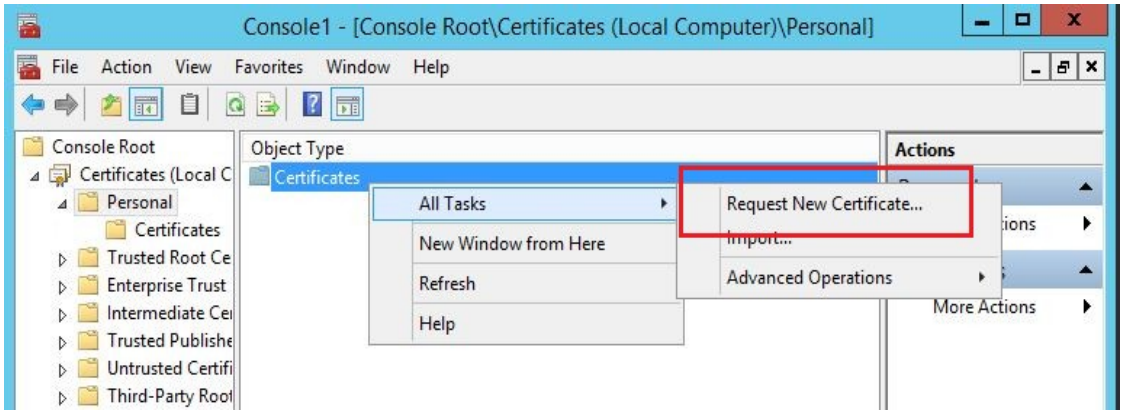

Console Root
Certification Authority (Local)
CONTOSO-FILE01-CA
Revoked Certificates
Issued Certificates
Pending Requests
Failed Requests
Certificate Templates
Name
Intended Purpose
Directory Email Replication
Directory Service Email Replication
Domain Controller Authentication
Client Authentication, Server Authentic...
Kerberos Authentication
Client Authentication, Server Authentic...
EFS Recovery Agent
File Recovery
Basic EFS
Encrypting File System
Domain Controller
Client Authentication, Server Authentic...
Server Authentication
Client Authentication, Server Authentic...
Secure Email, Cl...
<All>
Microsoft Trust List Signing, Encrypting...
Manage
New
View
New Window from Here
New Taskpad View...
Refresh
Export List...
Help
Certificate Template to Issue

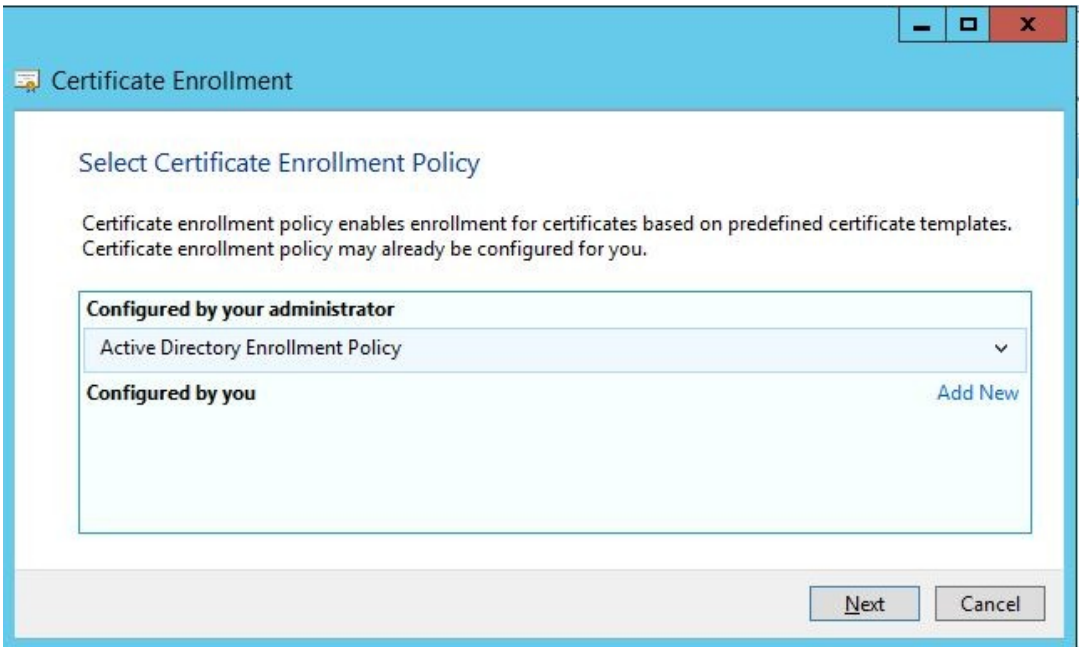

Enable Certificate Templates
Select one Certificate Template to enable on this Certification Authority.
Note: If a certificate template that was recently created does not appear on this list, you may need to wait until information about this template has been replicated to all domain controllers.
All 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>
DPM CBA Template
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

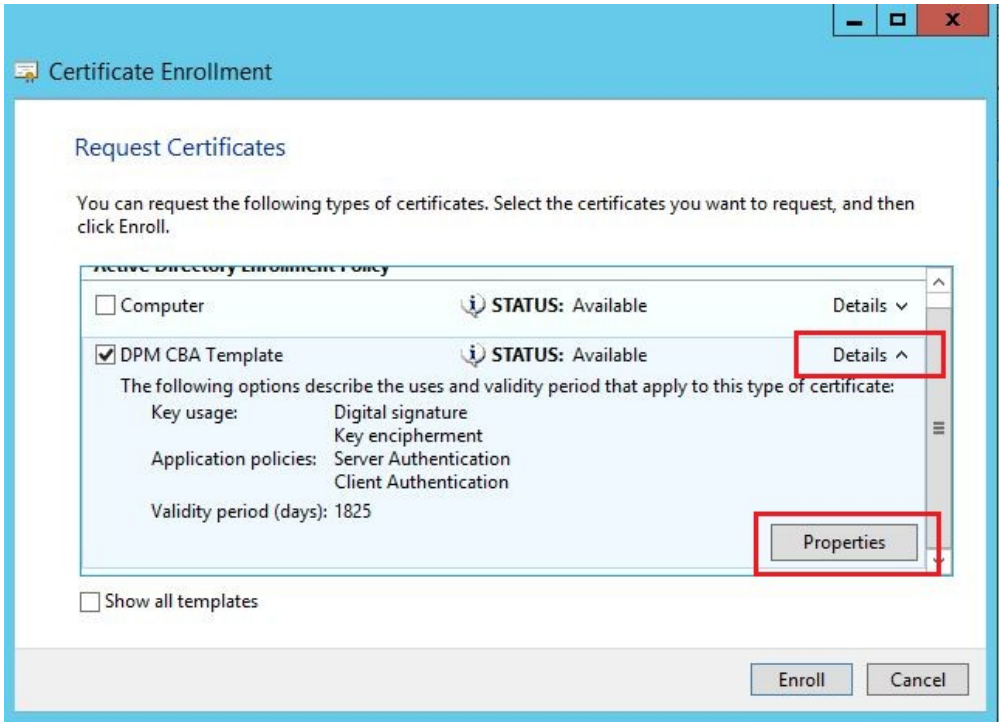

Console Root
Certification Authority (Local)
CONTOSO-FILE01-CA
Revoked Certificates
Issued Certificates
Pending Requests
Failed Requests
Certificate Templates
Name
Intended Purpose
DPM CBA Template
Server Authentication, Client Authentic...
Directory Email Replication
Directory Service Email Replication
Domain Controller Authentication
Client Authentication, Server Authentic...
Kerberos Authentication
Client Authentication, Server Authentic...
EFS Recovery Agent
File Recovery
Basic EFS
Encrypting File System
Domain Controller
Client Authentication, Server Authentic...
Web Server
Server Authentication
Computer
Client Authentication, Server Authentic...
User
Encrypting File System, Secure Email, Cl...
Subordinate Certification Authority
<All>
Administrator
Microsoft Trust List Signing, Encrypting...

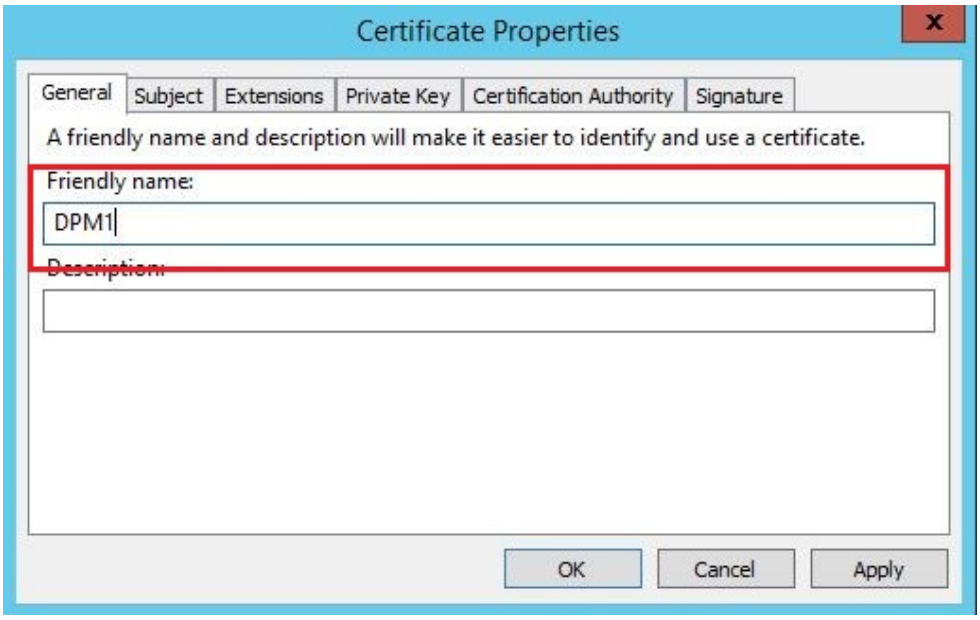

DPM CBA Template Properties
Superseded Templates
Extensions
Security
Server
General
Compatibility
Request Handling
Cryptography
Key Attestation
Subject Name
Issuance Requirements
Supply in the request
Use subject information from existing certificates for autoenrollment renewal requests (*)
Build from this Active Directory information
Select this option to enforce consistency among subject names and to simplify certificate administration.
Subject name format:
Common name
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)
* Control is disabled due to compatibility settings.
OK
Cancel
Apply
Help

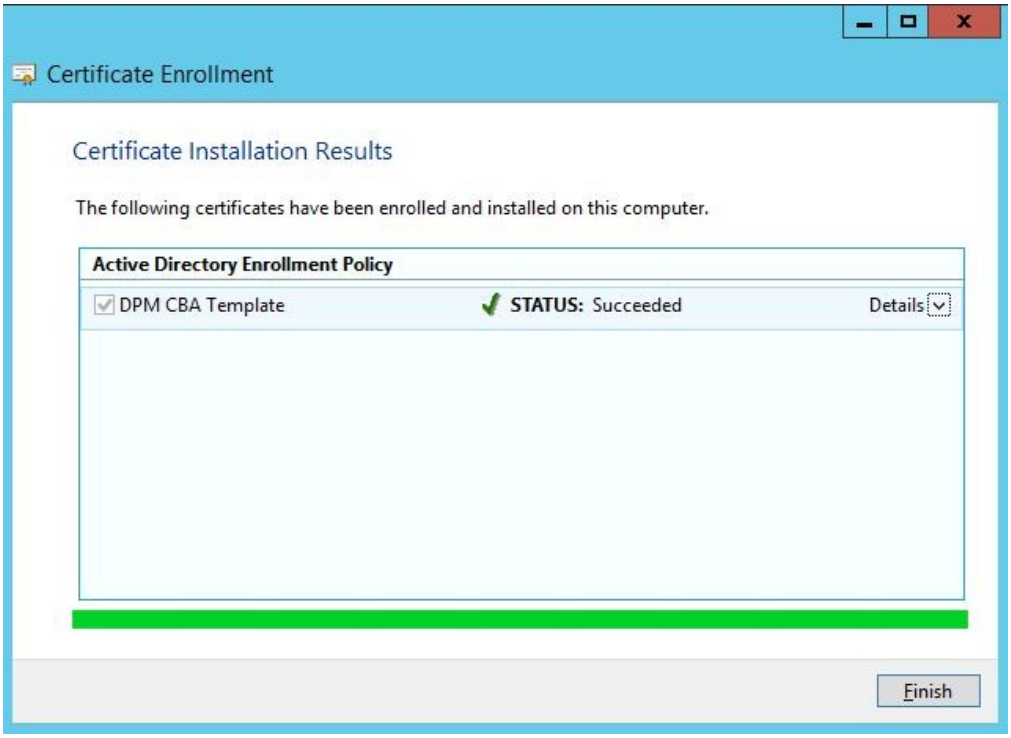

DPM CBA Template Properties
General
Compatibility
Request Handling
Cryptography
Key Attestation
Subject Name
Issuance Requirements
Superseded Templates
Extensions
Security
Server
Group or user names:
Authenticated Users
Administrator (Administrator@CONTOSO.LOCAL)
Domain Admins (CONTOSO\Domain Admins)
Enterprise Admins (CONTOSO\Enterprise Admins)
RAS and IAS Servers (CONTOSO\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

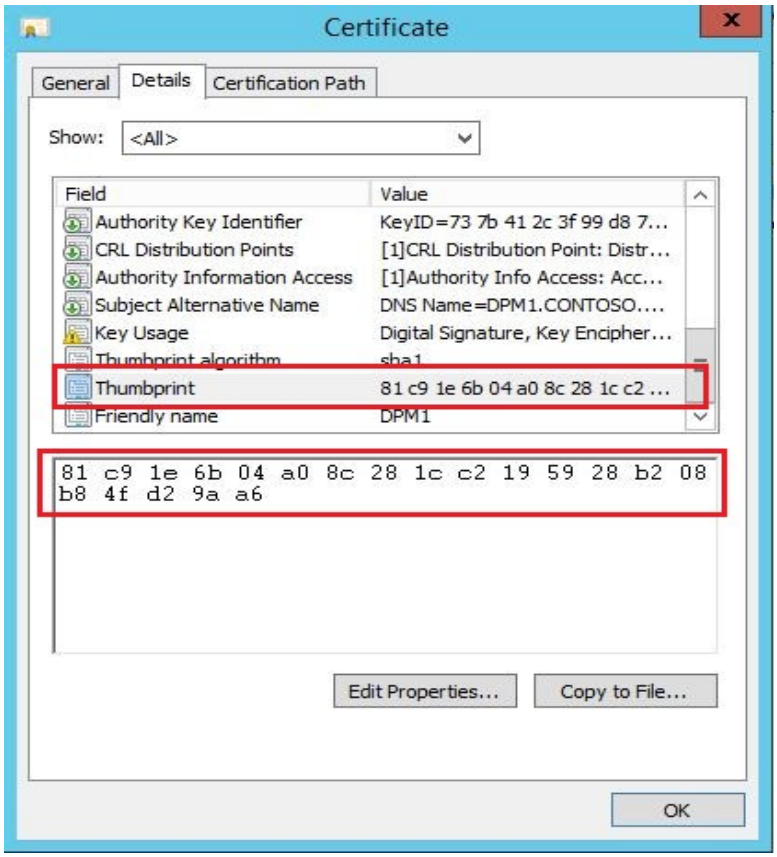

Console1 - [Console Root\Certificates (Local Computer)\Personal]
File
Action
View
Favorites
Window
Help
Console Root
Certificates (Local C
Personal
Certificates
Trusted Root Ce
Enterprise Trust
Intermediate Cer
Trusted Publishe
Untrusted Certifi
Third-Party Root
Object Type
Certificates
All Tasks
New Window from Here
Refresh
Help
Request New Certificate...
Import...
Advanced Operations
Actions
More Actions

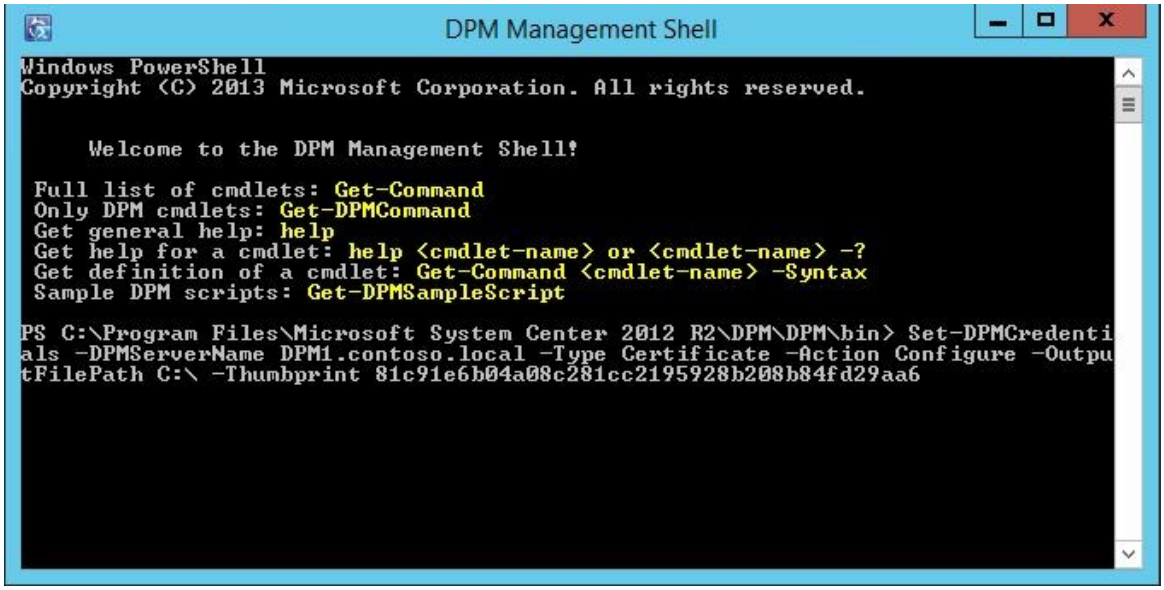

Certificate Enrollment
Select Certificate Enrollment Policy
Certificate enrollment policy enables enrollment for certificates based on predefined certificate templates.
Certificate enrollment policy may already be configured for you.
Configured by your administrator
Active Directory Enrollment Policy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

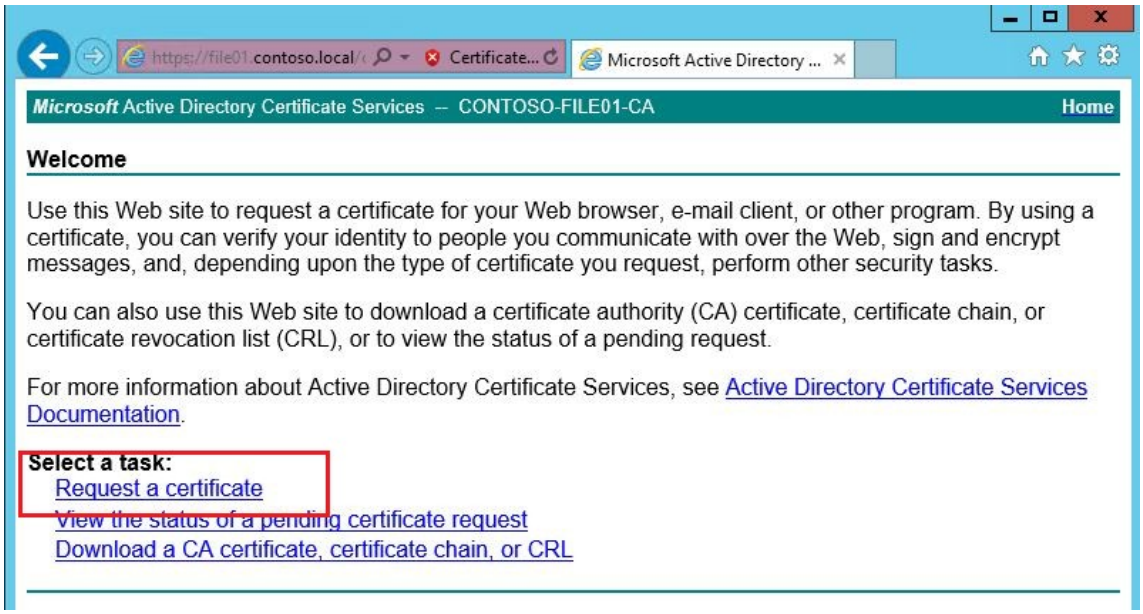

Certificate Enrollment
Request Certificates
You can request the following types of certificates. Select the certificates you want to request, and then click Enroll.
Computer
STATUS: Available
Details
DPM CBA Template
STATUS: Available
Details
The following options describe the uses and validity period that apply to this type of certificate:
Key usage: Digital signature
Key encipherment
Application policies: Server Authentication
Client Authentication
Validity period (days): 1825
Properties
Show all templates
Enroll
Cancel

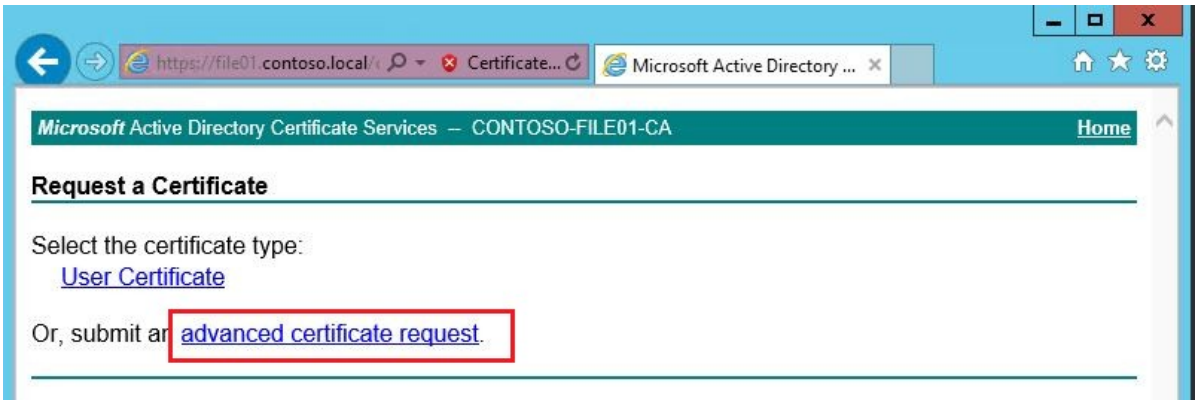

Certificate Properties
General
Subject
Extensions
Private Key
Certification Authority
Signature
A friendly name and description will make it easier to identify and use a certificate.
Friendly name:
DPM1
Description:
OK
Cancel
Apply

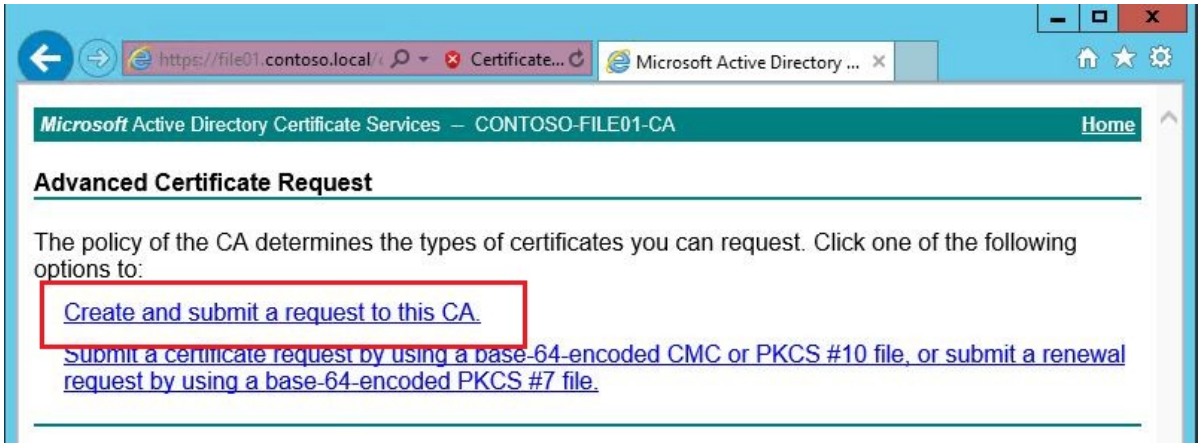

Certificate Enrollment
Certificate Installation Results
The following certificates have been enrolled and installed on this computer.
Active Directory Enrollment Policy
DPM CBA Template
STATUS: Succeeded
Details
Finish

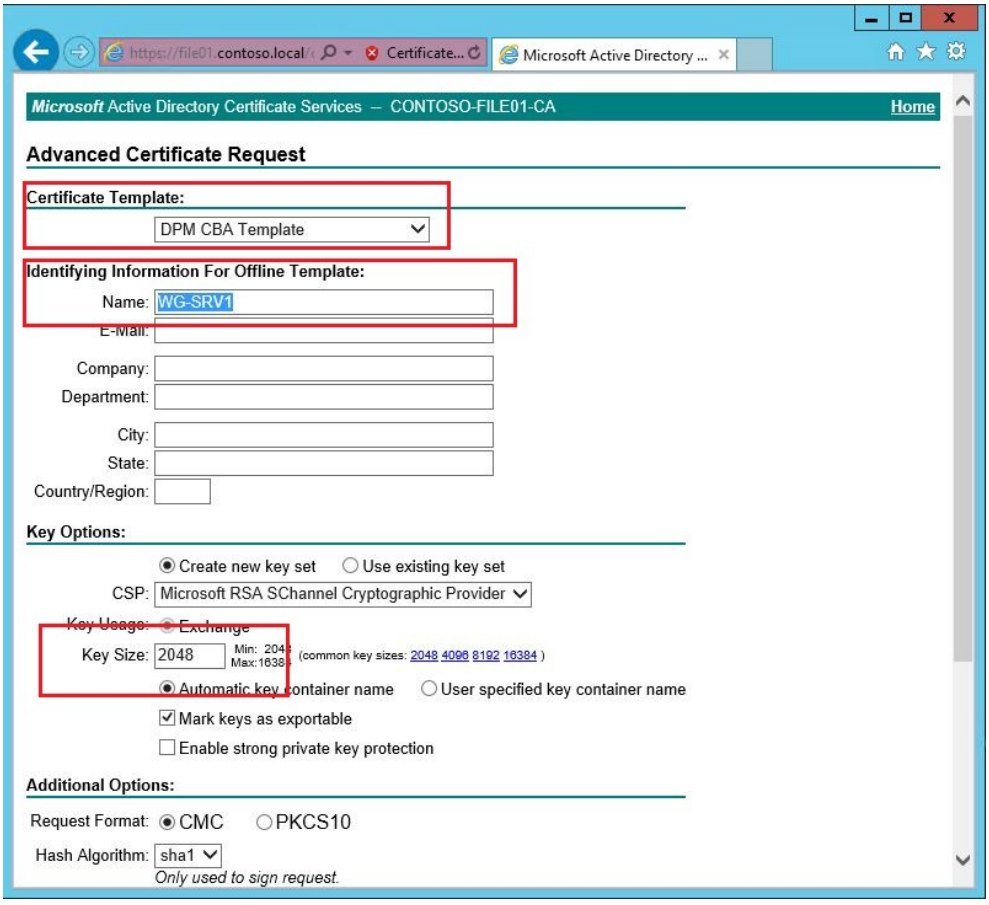

Certificate
General
Details
Certification Path
Show:
<All>
Field
Value
Authority Key Identifier
KeyID=73 7b 41 2c 3f 99 d8 7...
CRL Distribution Points
[1]CRL Distribution Point: Distr...
Authority Information Access
[1]Authority Info Access: Acc...
Subject Alternative Name
DNS Name=DPM1.CONTOSO....
Key Usage
Digital Signature, Key Encipher...
Thumbprint algorithm
sha1
Thumbprint
81 c9 1e 6b 04 a0 8c 28 1c c2 ...
Friendly name
DPM1
81 c9 1e 6b 04 a0 8c 28 1c c2 19 59 28 b2 08
b8 4f d2 9a a6
Edit Properties...
Copy to File...
OK


DPM Management Shell
Windows PowerShell
Copyright (C) 2013 Microsoft Corporation. All rights reserved.
Welcome to the DPM Management Shell!
Full list of cmdlets: Get-Command
Only DPM cmdlets: Get-DPMCommand
Get general help: help
Get help for a cmdlet: help <cmdlet-name> or <cmdlet-name> -?
Get definition of a cmdlet: Get-Command <cmdlet-name> -Syntax
Sample DPM scripts: Get-DPMSampleScript
PS C:\Program Files\Microsoft System Center 2012 R2\DPM\DPM\bin> Set-DPMCredenti
als -DPMServerName DPM1.contoso.local -Type Certificate -Action Configure -Outpu
tFilePath C:\ -Thumbprint 81c91e6b04a08c281cc2195928b208b84fd29aa6

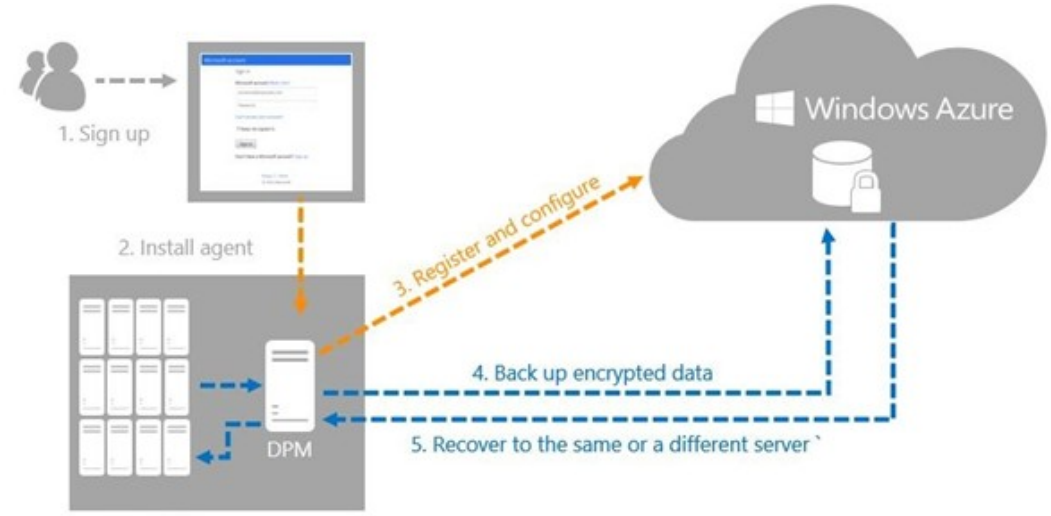

https://file01.contoso.local/
Certificate...
Microsoft Active Directory ...
Microsoft Active Directory Certificate Services -- CONTOSO-FILE01-CA
Home
Welcome
Use this Web site to request a certificate for your Web browser, e-mail client, or other program. By using a certificate, you can verify your identity to people you communicate with over the Web, sign and encrypt messages, and, depending upon the type of certificate you request, perform other security tasks.
You can also use this Web site to download a certificate authority (CA) certificate, certificate chain, or certificate revocation list (CRL), or to view the status of a pending request.
For more information about Active Directory Certificate Services, see Active Directory Certificate Services Documentation.
Select a task:
Request a certificate
View the status of a pending certificate request
Download a CA certificate, certificate chain, or CRL

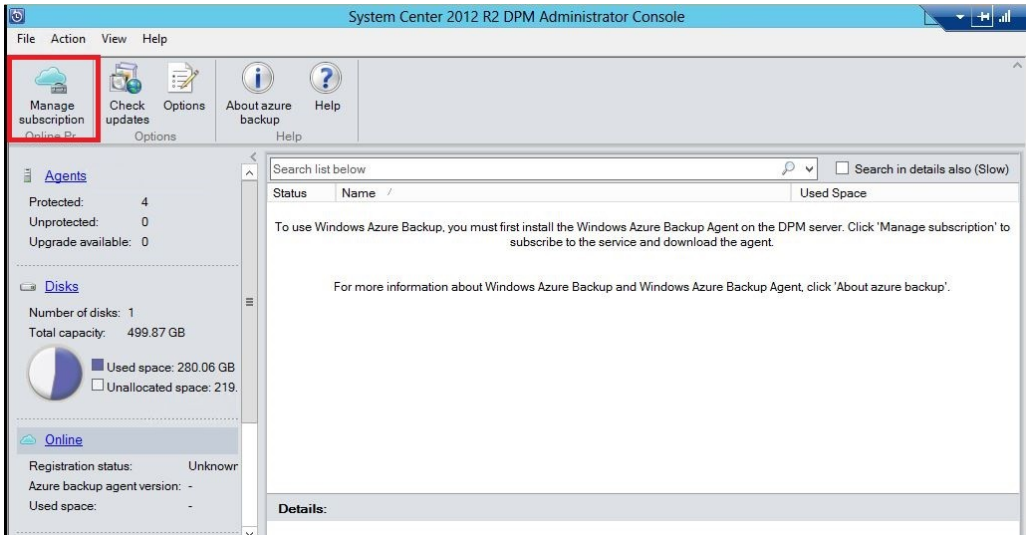

https://file01.contoso.local/
Certificate...
Microsoft Active Directory ...
Microsoft Active Directory Certificate Services -- CONTOSO-FILE01-CA
Home
Request a Certificate
Select the certificate type:
User Certificate
Or, submit an advanced certificate request.


https://file01.contoso.local/
Certificate...
Microsoft Active Directory ...
Microsoft Active Directory Certificate Services -- CONTOSO-FILE01-CA
Home
Advanced Certificate Request
The policy of the CA determines the types of certificates you can request. Click one of the following options to:
Create and submit a request to this CA.
Submit a certificate request by using a base-64-encoded CMC or PKCS #10 file, or submit a renewal request by using a base-64-encoded PKCS #7 file.


https://file01.contoso.local
Certificate...
Microsoft Active Directory ...
Microsoft Active Directory Certificate Services -- CONTOSO-FILE01-CA
Home
Advanced Certificate Request
Certificate Template:
DPM CBA Template
Identifying Information For Offline Template:
Name: WG-SRV1
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
(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.

Chapter 11


1. Sign up
2. Install agent
3. Register and configure
Windows Azure
4. Back up encrypted data
5. Recover to the same or a different server
DPM

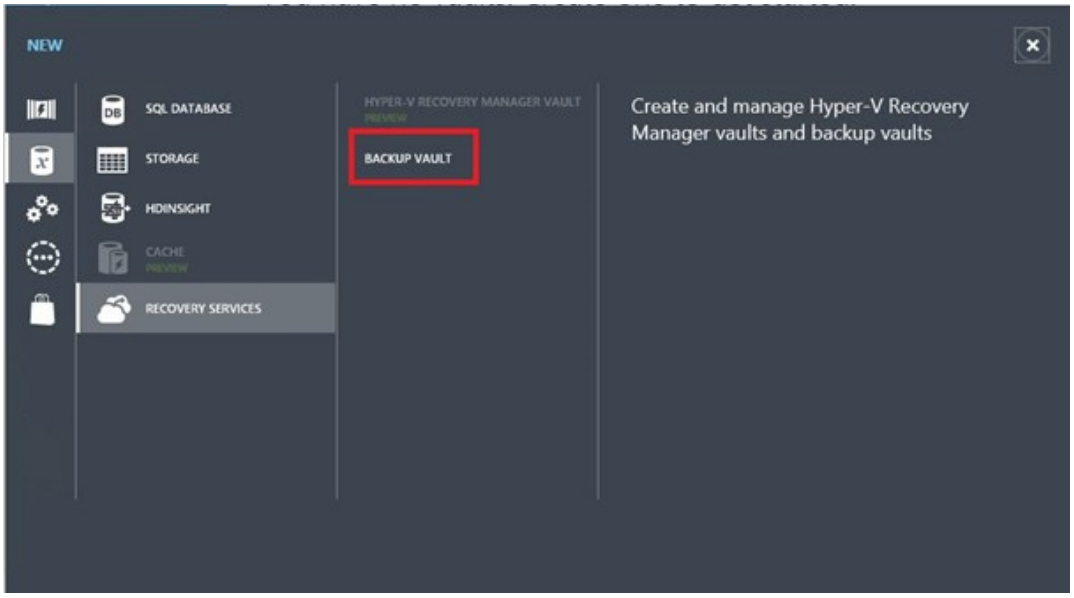

System Center 2012 R2 DPM Administrator Console
File Action View Help
Manage subscription
Check updates
Options
About azure backup
Help
Options
Help
Agents
Protected: 4
Unprotected: 0
Upgrade available: 0
Disks
Number of disks: 1
Total capacity: 499.87 GB
Used space: 280.06 GB
Unallocated space: 219.
Online
Registration status: Unknown
Azure backup agent version: -
Used space: -
Search list below
Search in details also (Slow)
Status
Name
Used Space
To use Windows Azure Backup, you must first install the Windows Azure Backup Agent on the DPM server. Click 'Manage subscription' to subscribe to the service and download the agent.
For more information about Windows Azure Backup and Windows Azure Backup Agent, click 'About azure backup'.
Details:

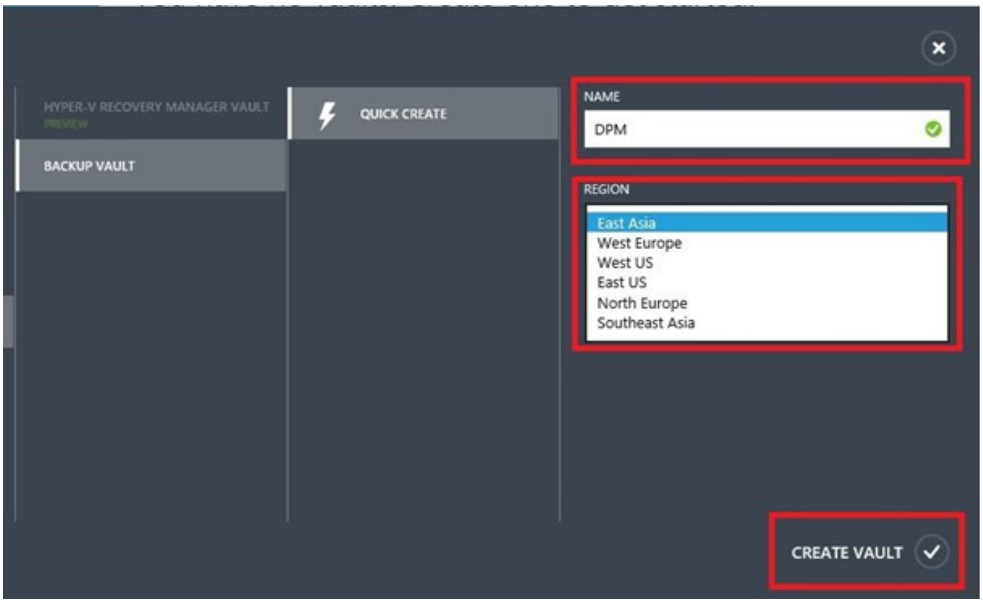
RECOVERY SERVICES
0

recovery services

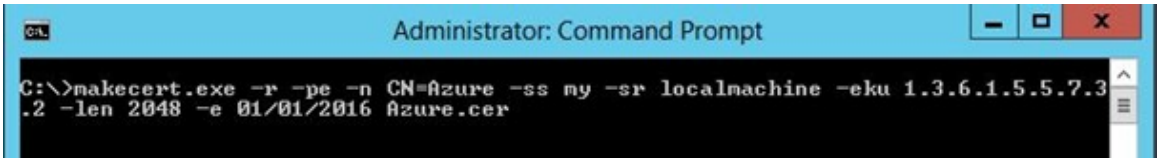
You have no vaults. Create one to get started.

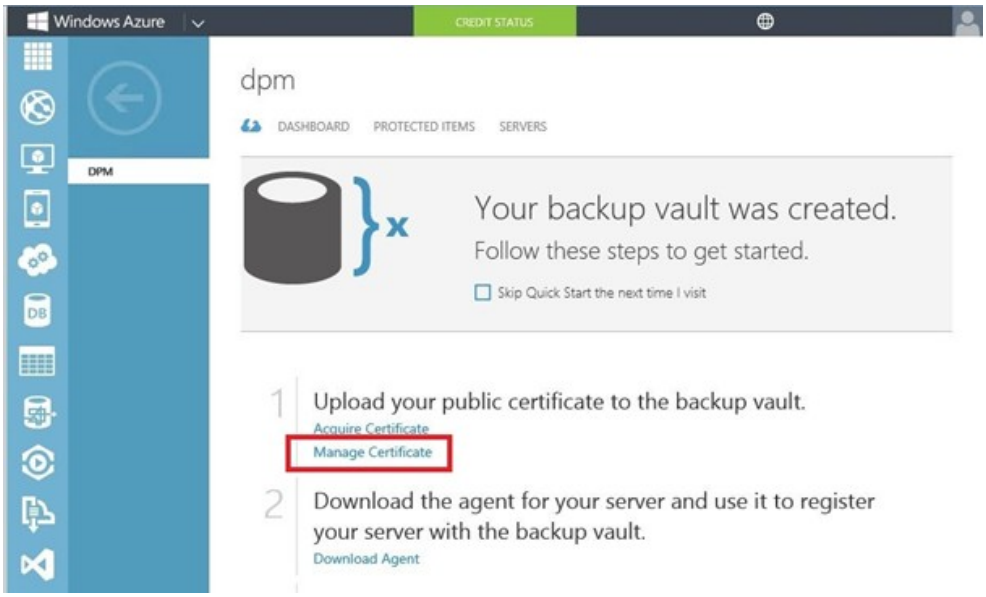
CREATE A NEW VAULT



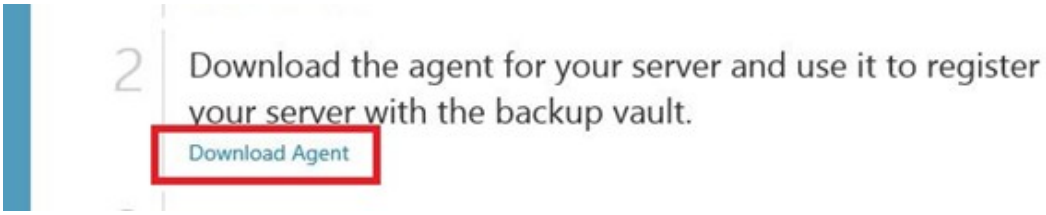

HYPER-V RECOVERY MANAGER VAULT
PREVIEW
BACKUP VAULT
QUICK CREATE
NAME
DPM
REGION
East Asia
West Europe
West US
East US
North Europe
Southeast Asia
CREATE VAULT

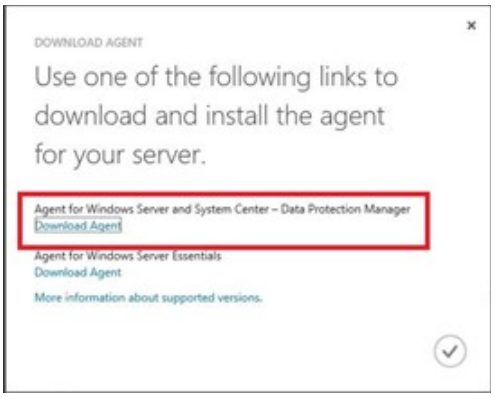
Windows Azure
CREDIT STATUS
MEDIA SERVICES
SERVICE BUS
VISUAL STUDIO ONLINE
BIZTALK SERVICES
RECOVERY SERVICES
NETWORKS
TRAFFIC MANAGER
recovery services
NAME
TYPE
STATUS
LOCATION
SUBSCRIPTION
DPM
Backup Vault
Active
North Europe
Visual Studio Ultimate wi...


Administrator: Command Prompt
C:\>makecert.exe -r -pe -n CN=Azure -ss my -sr localmachine -eku 1.3.6.1.5.5.7.3
.2 -len 2048 -e 01/01/2016 Azure.cer

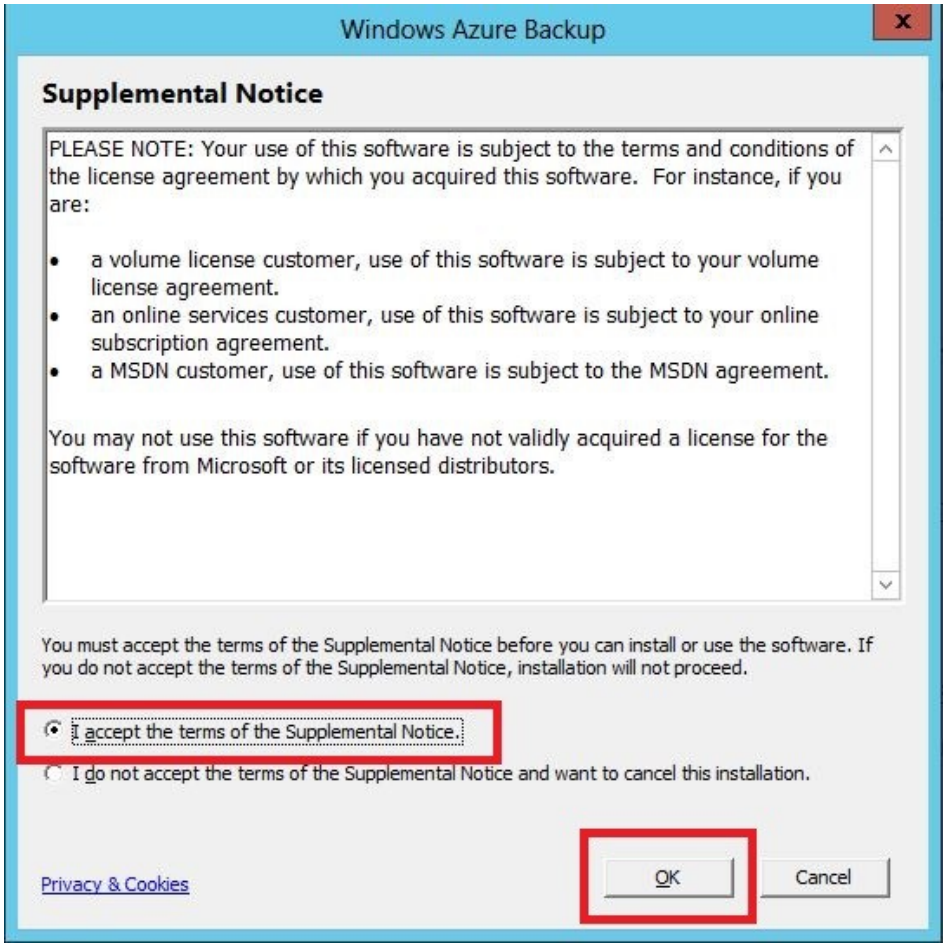

Windows Azure
CREDIT STATUS
dpm
DASHBOARD
PROTECTED ITEMS
SERVERS
DPM
Your backup vault was created.
Follow these steps to get started.
Skip Quick Start the next time I visit
1
Upload your public certificate to the backup vault.
Acquire Certificate
Manage Certificate
2
Download the agent for your server and use it to register your server with the backup vault.
Download Agent

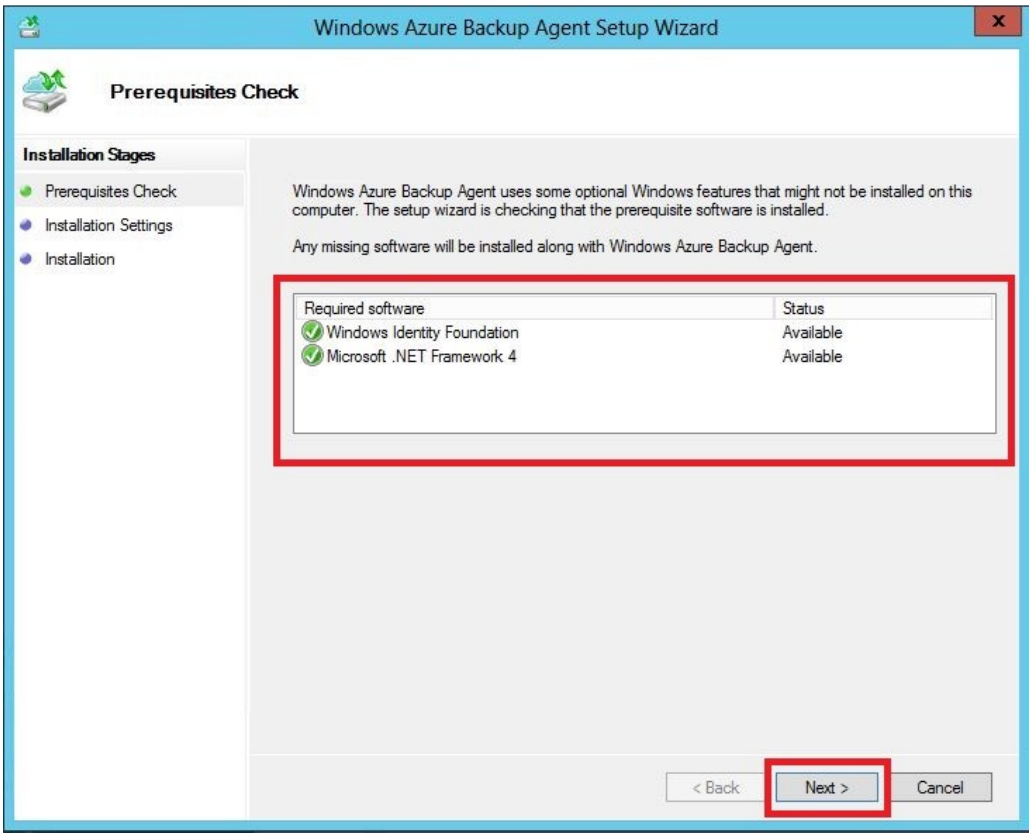
Manage Certificate
Add or update the certificate file (.cer) that contains a public key for the vault. The certificate is used to register servers with the vault.
CERTIFICATE FILE
BROWSE FOR FILE...

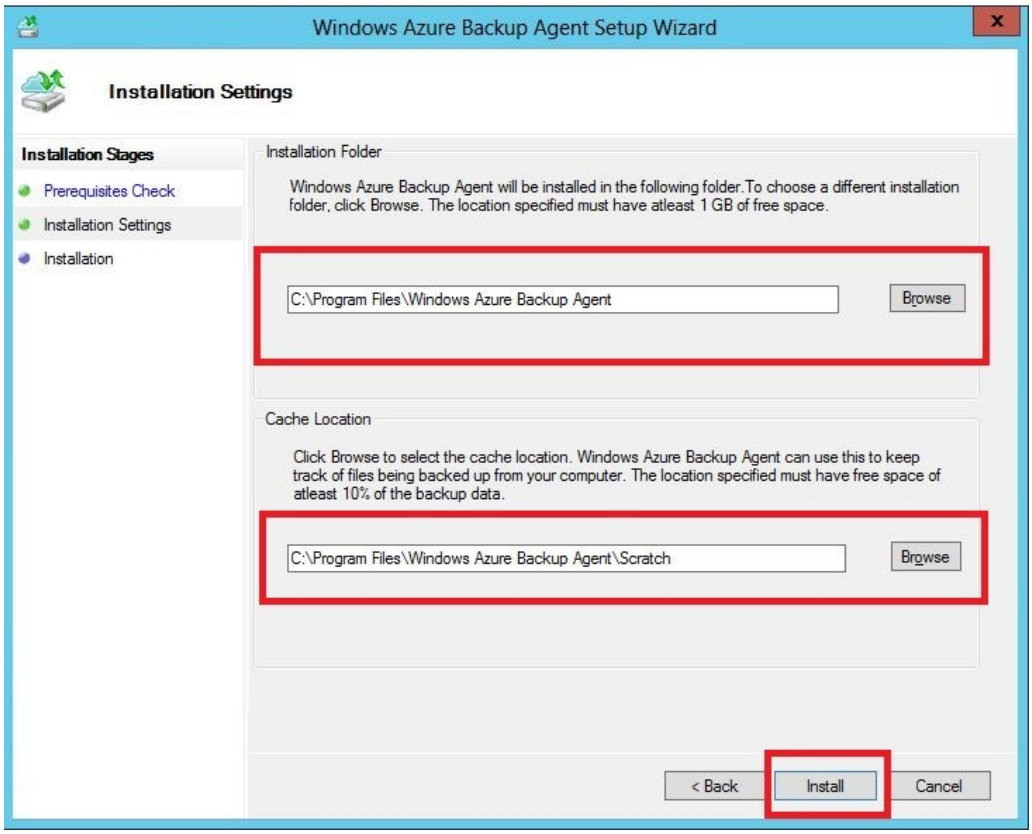

2
Download the agent for your server and use it to register your server with the backup vault.
Download Agent

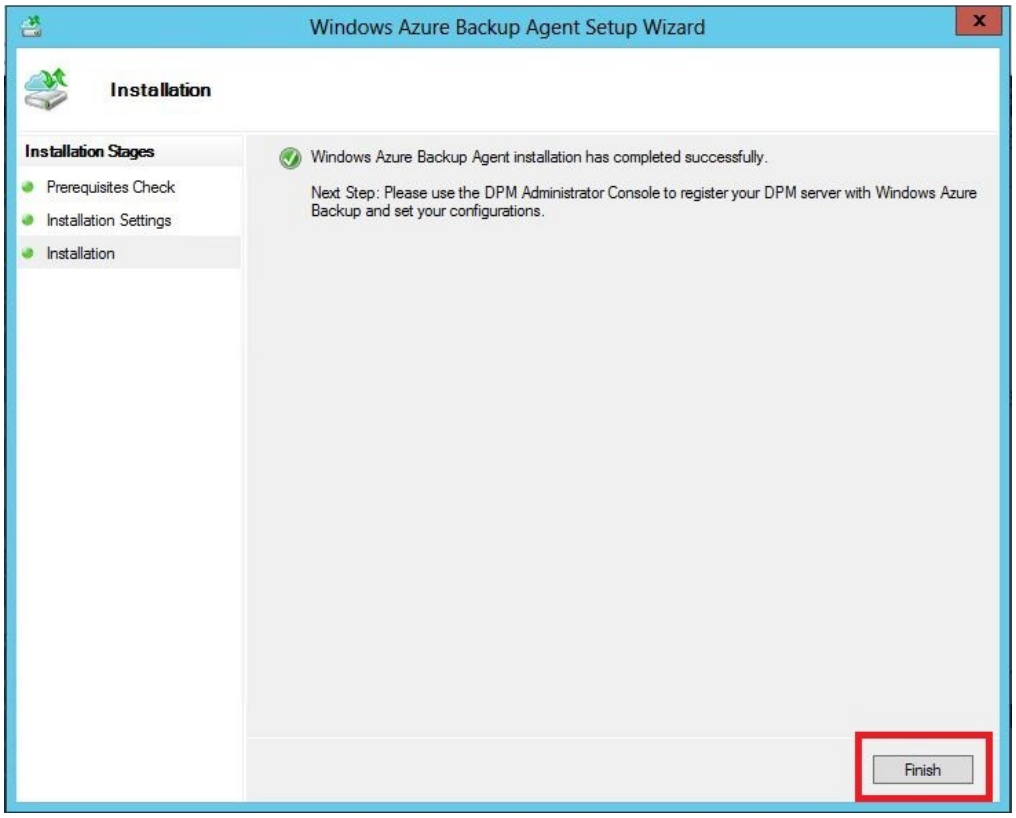

DOWNLOAD AGENT
Use one of the following links to download and install the agent for your server.
Agent for Windows Server and System Center – Data Protection Manager
Download Agent
Agent for Windows Server Essentials
Download Agent
More information about supported versions.

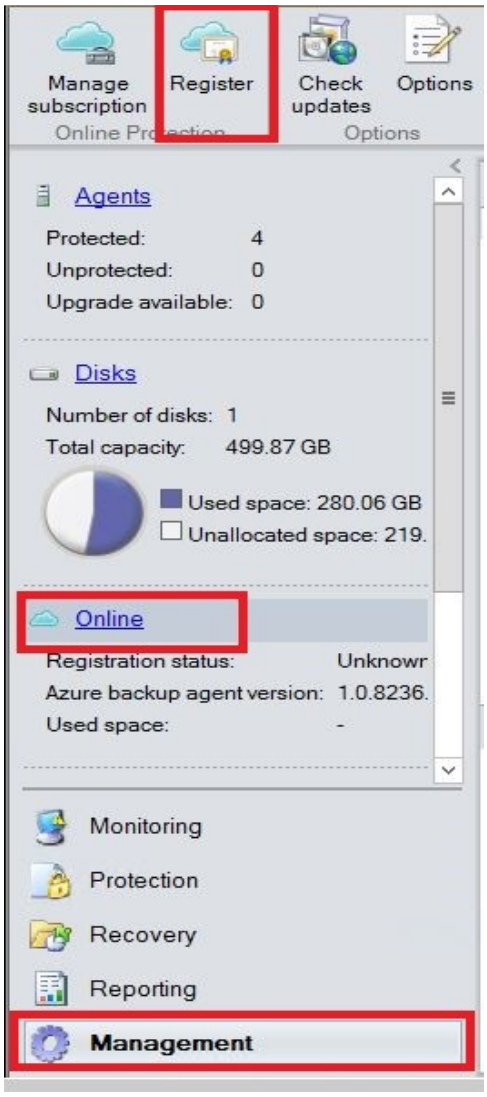
Do you want to run or save WABInstaller.exe (46.8 MB) from download.microsoft.com?
Run
Save
Cancel

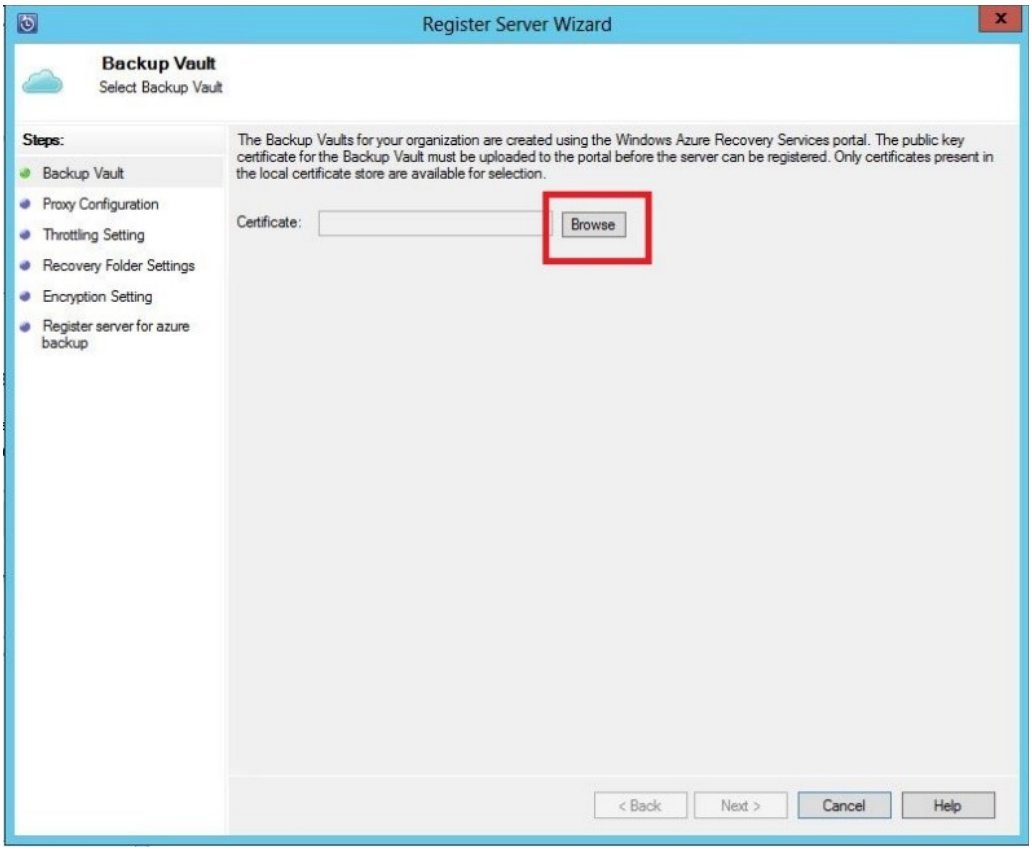

Windows Azure Backup
Supplemental Notice
PLEASE NOTE: Your use of this software is subject to the terms and conditions of the license agreement by which you acquired this software. For instance, if you are:
a volume license customer, use of this software is subject to your volume license agreement.
an online services customer, use of this software is subject to your online subscription agreement.
a MSDN customer, use of this software is subject to the MSDN agreement.
You may not use this software if you have not validly acquired a license for the software from Microsoft or its licensed distributors.
You must accept the terms of the Supplemental Notice before you can install or use the software. If you do not accept the terms of the Supplemental Notice, installation will not proceed.
I accept the terms of the Supplemental Notice.
I do not accept the terms of the Supplemental Notice and want to cancel this installation.
Privacy & Cookies
OK
Cancel

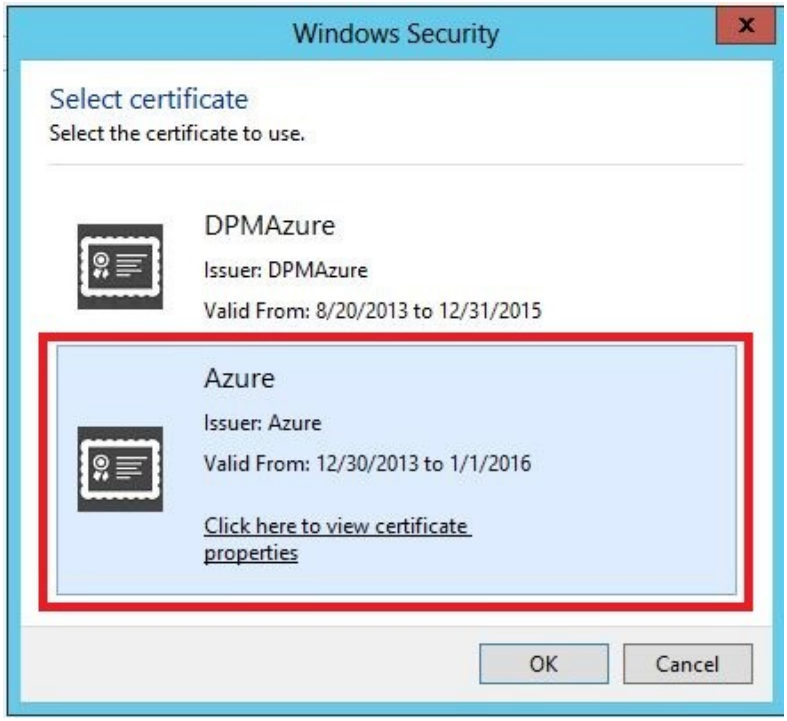

Windows Azure Backup Agent Setup Wizard
Prerequisites Check
Installation Stages
Prerequisites Check
Installation Settings
Installation
Windows Azure Backup Agent uses some optional Windows features that might not be installed on this computer. The setup wizard is checking that the prerequisite software is installed.
Any missing software will be installed along with Windows Azure Backup Agent.
Required software
Status
Windows Identity Foundation
Available
Microsoft .NET Framework 4
Available
< Back
Next >
Cancel

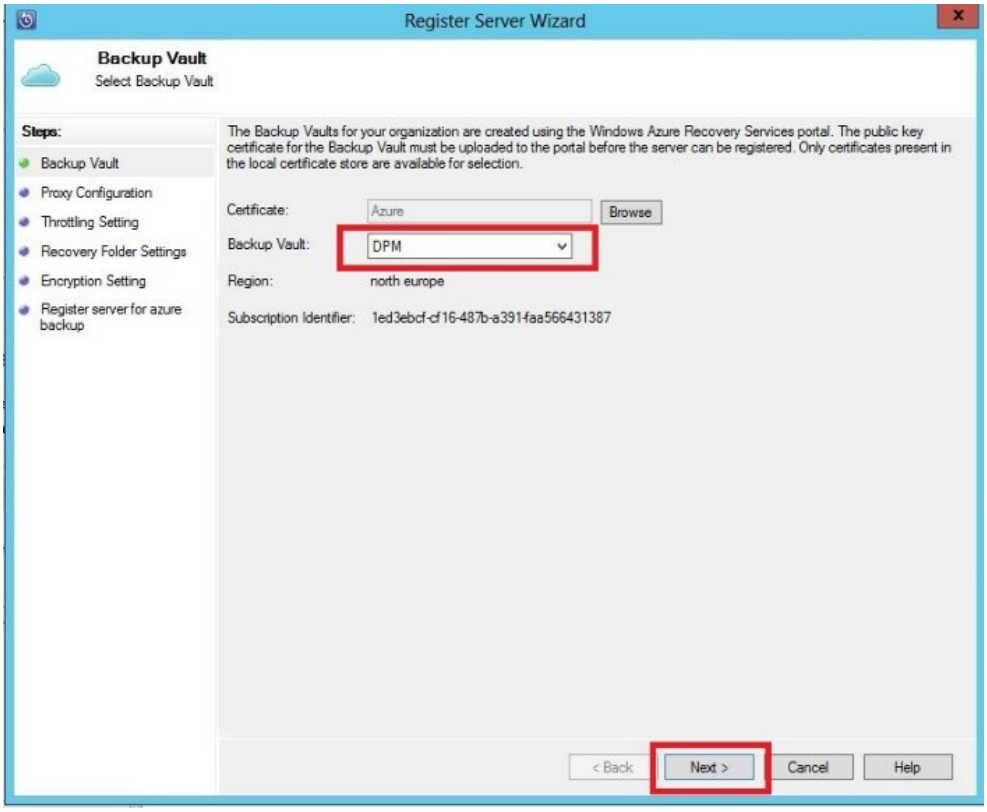

Windows Azure Backup Agent Setup Wizard
Installation Settings
Installation Stages
Prerequisites Check
Installation Settings
Installation
Installation Folder
Windows Azure Backup Agent will be installed in the following folder.To choose a different installation folder, click Browse. The location specified must have atleast 1 GB of free space.
C:\Program Files\Windows Azure Backup Agent
Browse
Cache Location
Click Browse to select the cache location. Windows Azure Backup Agent can use this to keep track of files being backed up from your computer. The location specified must have free space of atleast 10% of the backup data.
C:\Program Files\Windows Azure Backup Agent\Scratch
Browse
< Back
Install
Cancel

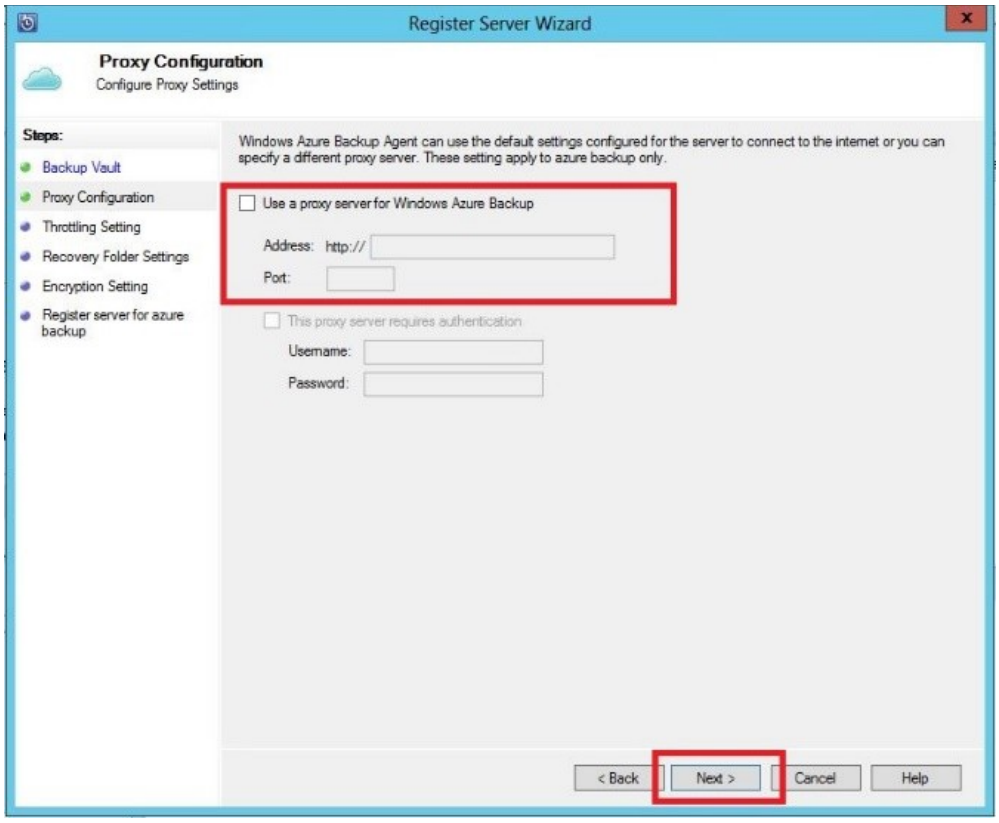

Windows Azure Backup Agent Setup Wizard
Installation
Installation Stages
Prerequisites Check
Installation Settings
Installation
Windows Azure Backup Agent installation has completed successfully.
Next Step: Please use the DPM Administrator Console to register your DPM server with Windows Azure Backup and set your configurations.
Finish

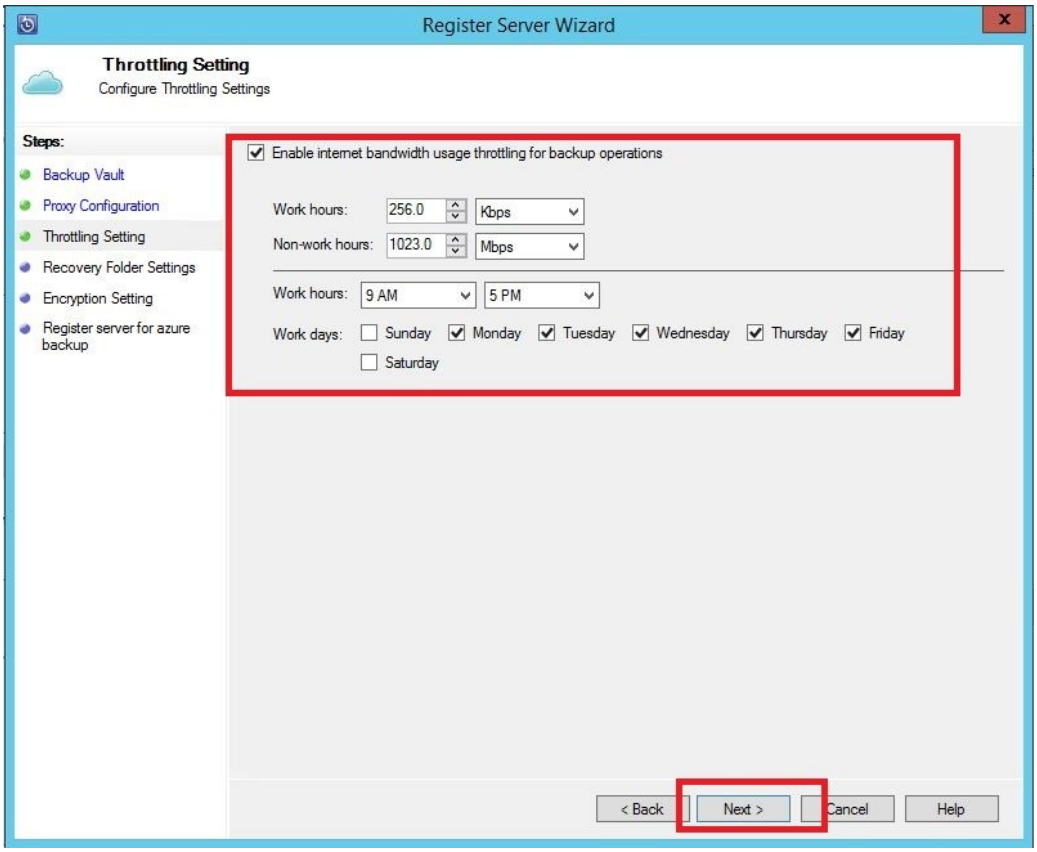

Manage subscription
Register
Check updates
Options
Online Protection
Options
Agents
Protected: 4
Unprotected: 0
Upgrade available: 0
Disks
Number of disks: 1
Total capacity: 499.87 GB
Used space: 280.06 GB
Unallocated space: 219.
Online
Registration status: Unknowr
Azure backup agent version: 1.0.8236.
Used space: -
Monitoring
Protection
Recovery
Reporting
Management

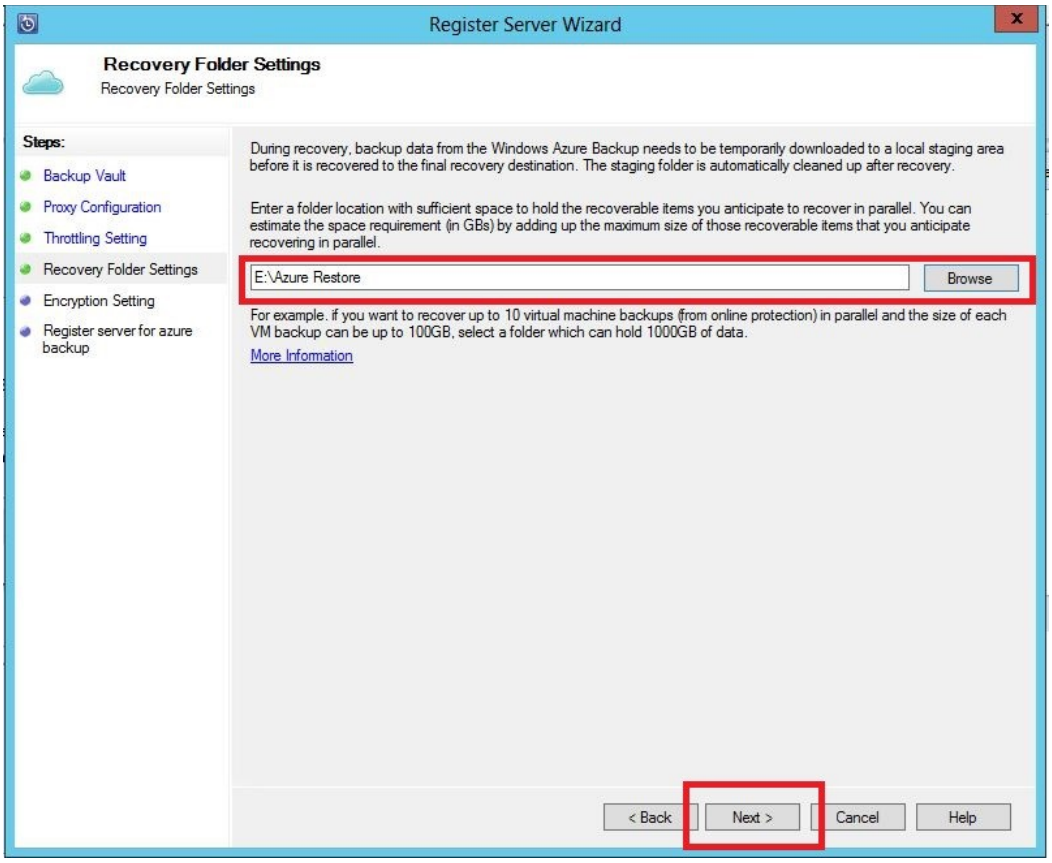

Register Server Wizard
Backup Vault
Select Backup Vault
Steps:
Backup Vault
Proxy Configuration
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
The Backup Vaults for your organization are created using the Windows Azure Recovery Services portal. The public key certificate for the Backup Vault must be uploaded to the portal before the server can be registered. Only certificates present in the local certificate store are available for selection.
Certificate:
Browse
< Back
Next >
Cancel
Help

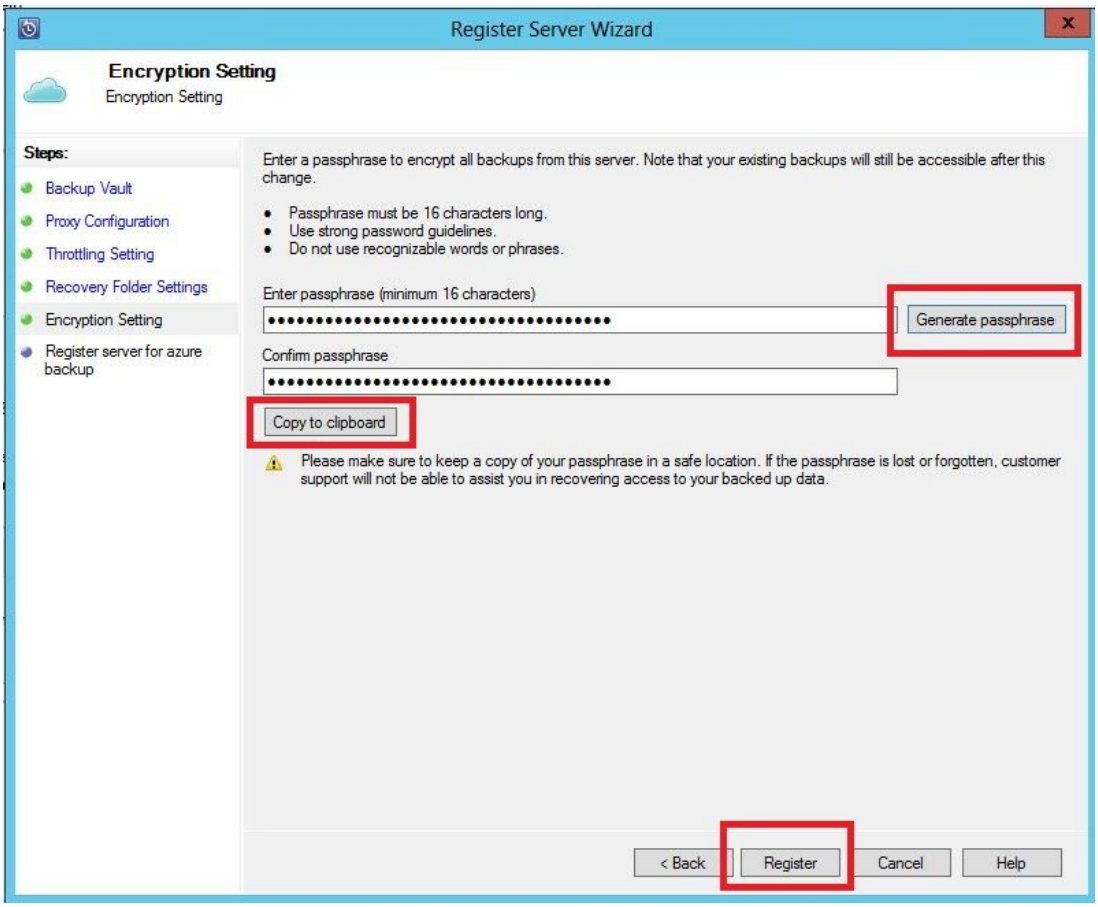

Windows Security
Select certificate
Select the certificate to use.
DPMAzure
Issuer: DPMAzure
Valid From: 8/20/2013 to 12/31/2015
Azure
Issuer: Azure
Valid From: 12/30/2013 to 1/1/2016
Click here to view certificate properties
OK
Cancel

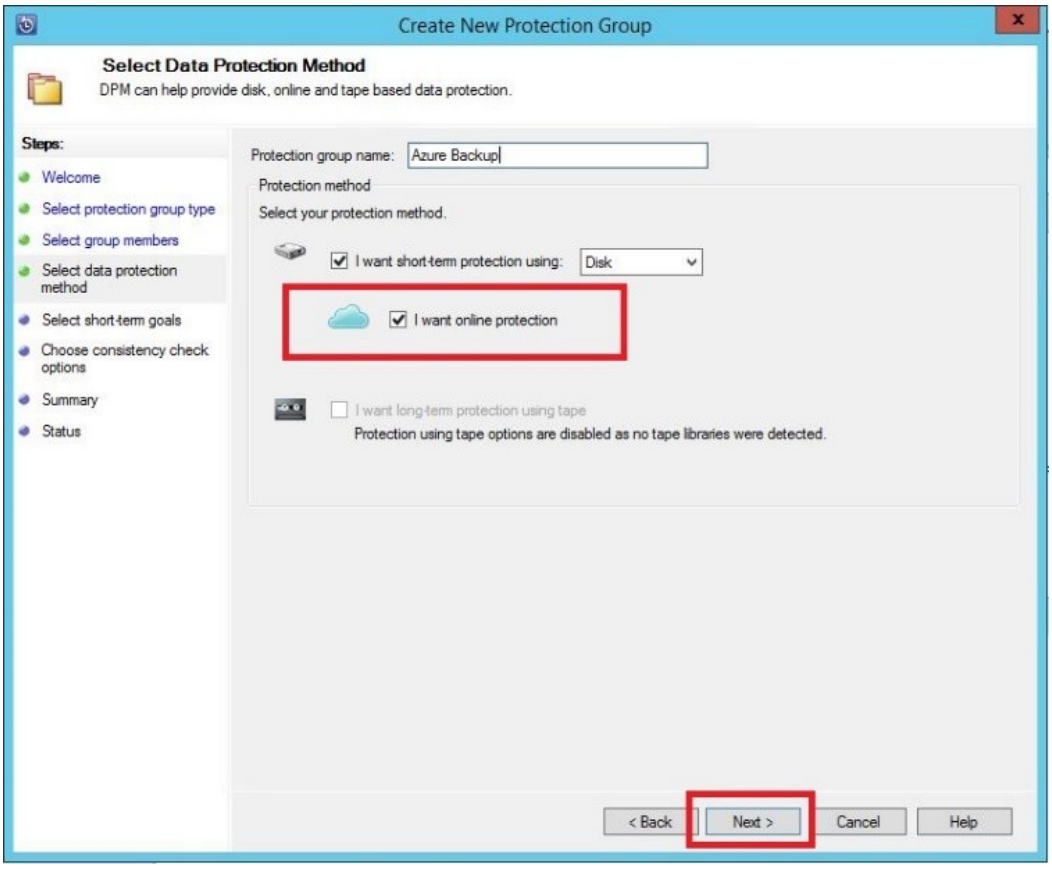

Register Server Wizard
Backup Vault
Select Backup Vault
Steps:
Backup Vault
Proxy Configuration
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
The Backup Vaults for your organization are created using the Windows Azure Recovery Services portal. The public key certificate for the Backup Vault must be uploaded to the portal before the server can be registered. Only certificates present in the local certificate store are available for selection.
Certificate:
Azure
Browse
Backup Vault:
DPM
Region:
north europe
Subscription Identifier:
1ed3ebcf-cf16-487b-a391-faa566431387
< Back
Next >
Cancel
Help

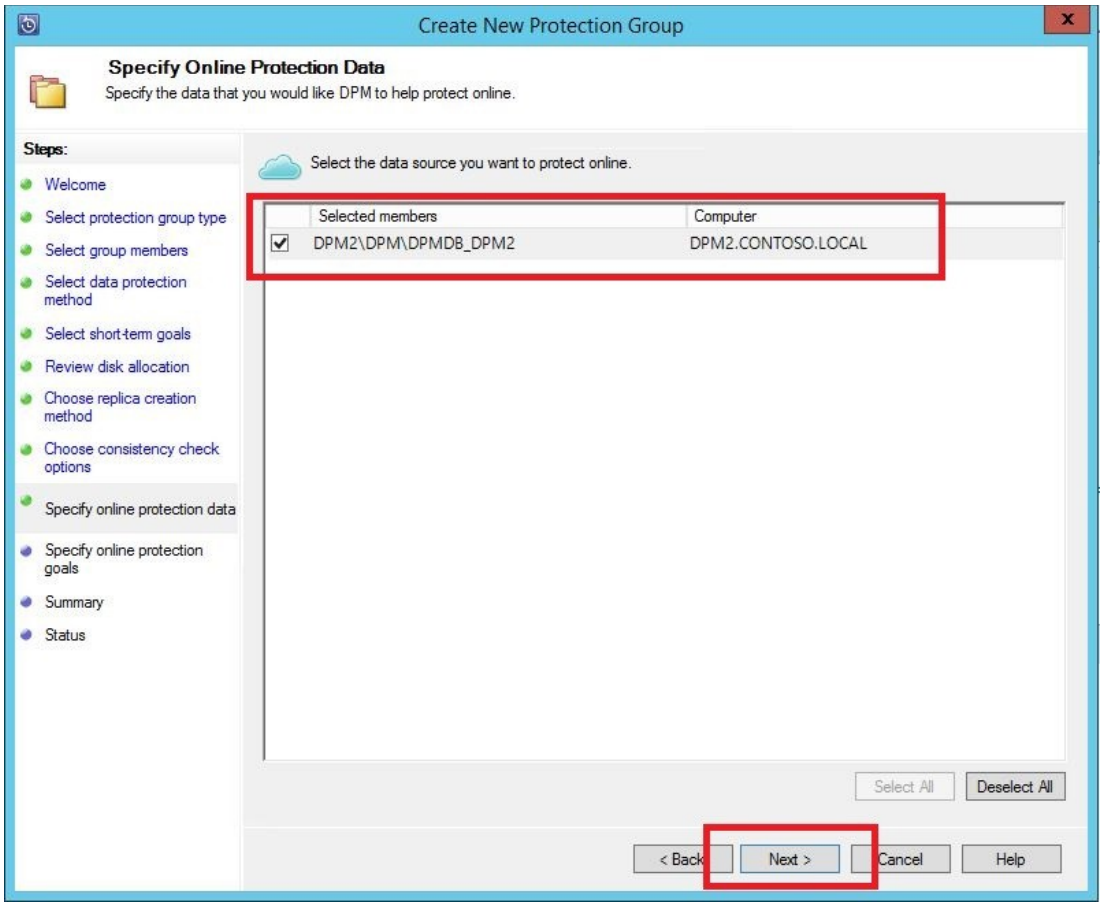

Register Server Wizard
Proxy Configuration
Configure Proxy Settings
Steps:
Backup Vault
Proxy Configuration
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
Windows Azure Backup Agent can use the default settings configured for the server to connect to the internet or you can specify a different proxy server. These setting apply to azure backup only.
Use a proxy server for Windows Azure Backup
Address: http://
Port:
This proxy server requires authentication
Username:
Password:
< Back
Next >
Cancel
Help

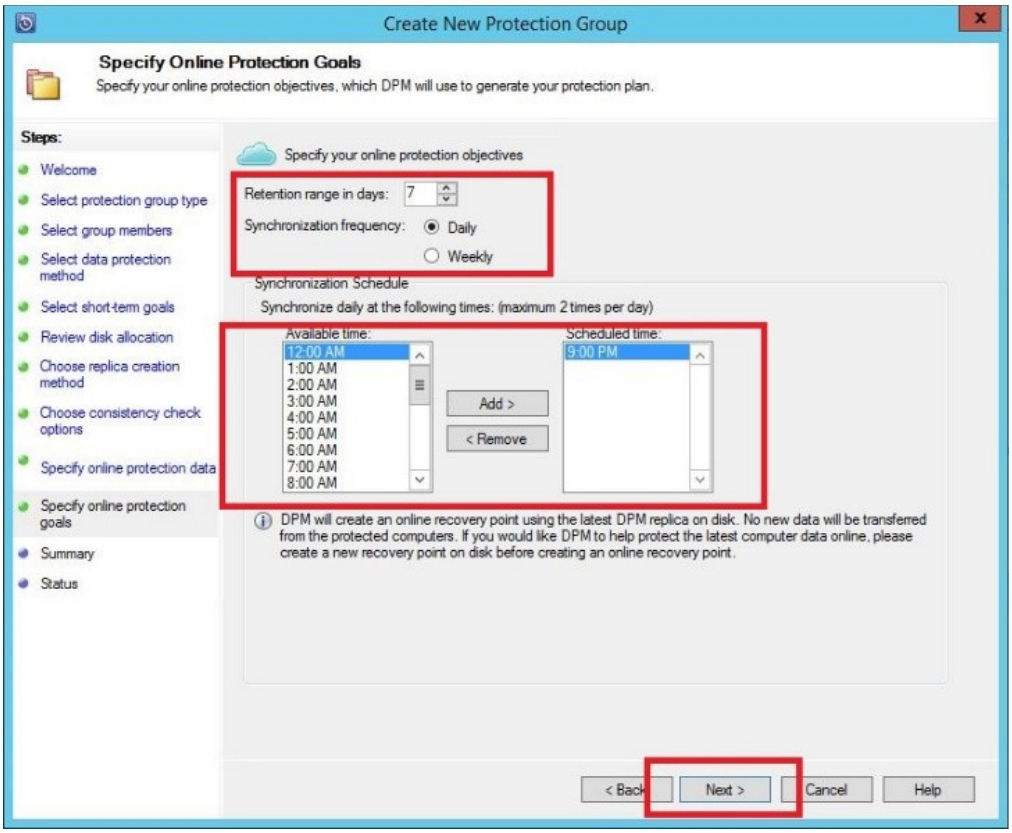

Register Server Wizard
Throttling Setting
Configure Throttling Settings
Steps:
Backup Vault
Proxy Configuration
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
Enable internet bandwidth usage throttling for backup operations
Work hours:
256.0
Kbps
Non-work hours:
1023.0
Mbps
Work hours:
9 AM
5 PM
Work days:
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
< Back
Next >
Cancel
Help

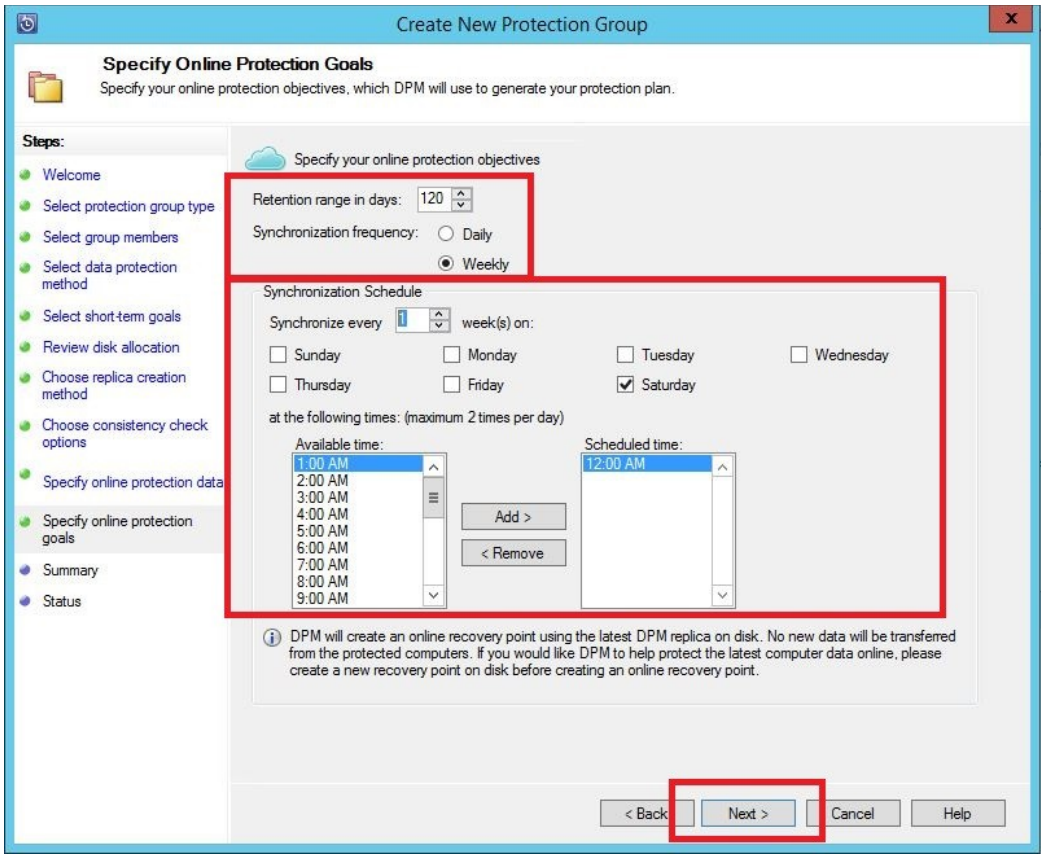

Register Server Wizard
Recovery Folder Settings
Recovery Folder Settings
Steps:
Backup Vault
Proxy Configuration
Throttling Setting
Recovery Folder Settings
Encryption Setting
Register server for azure backup
During recovery, backup data from the Windows Azure Backup needs to be temporarily downloaded 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.
E:\Azure Restore
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:
Backup Vault
Proxy Configuration
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

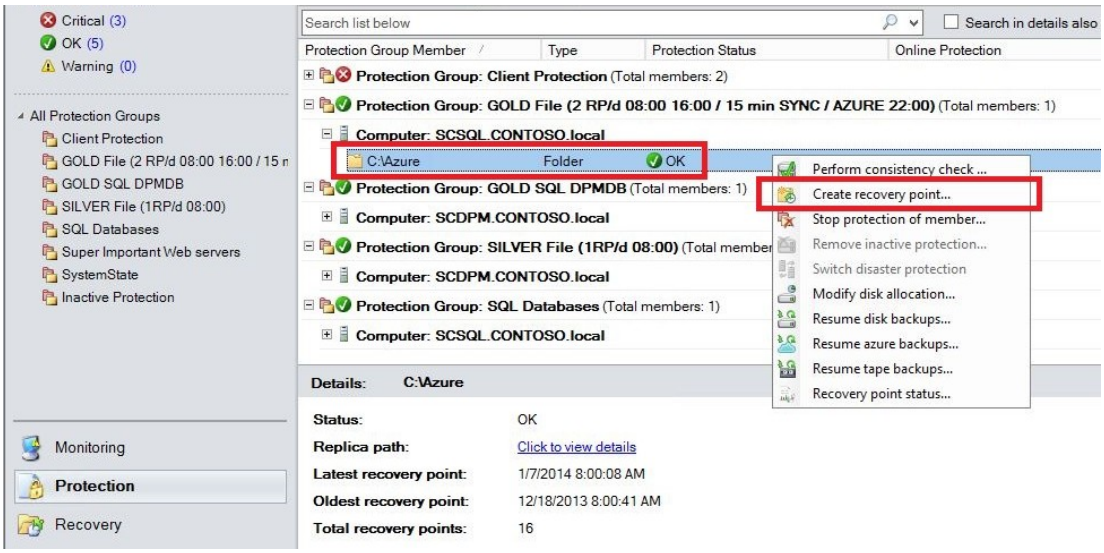

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
Protection group name:
Azure Backup
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.
< Back
Next >
Cancel
Help

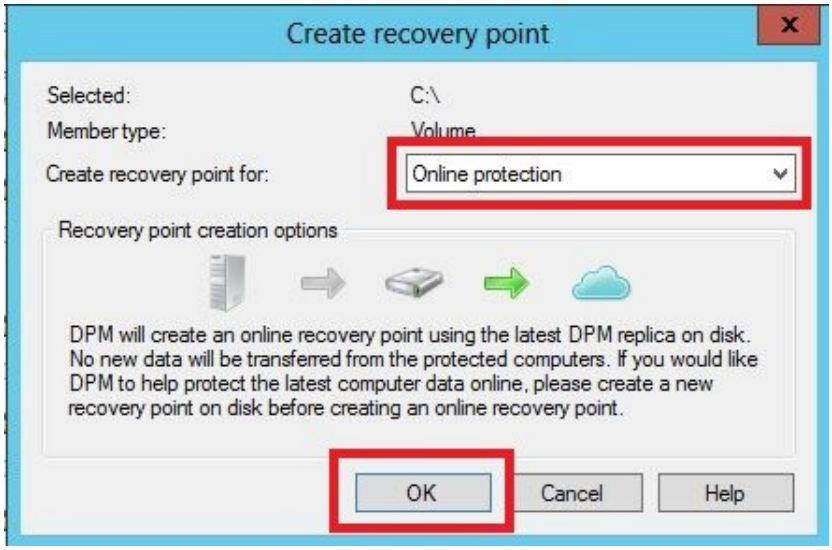

Create New Protection Group
Specify Online Protection Data
Specify the data that you would like DPM to help protect online.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Select the data source you want to protect online.
Selected members
Computer
DPM2\DPM\DPMDB_DPM2
DPM2.CONTOSO.LOCAL
Select All
Deselect All
< Back
Next >
Cancel
Help

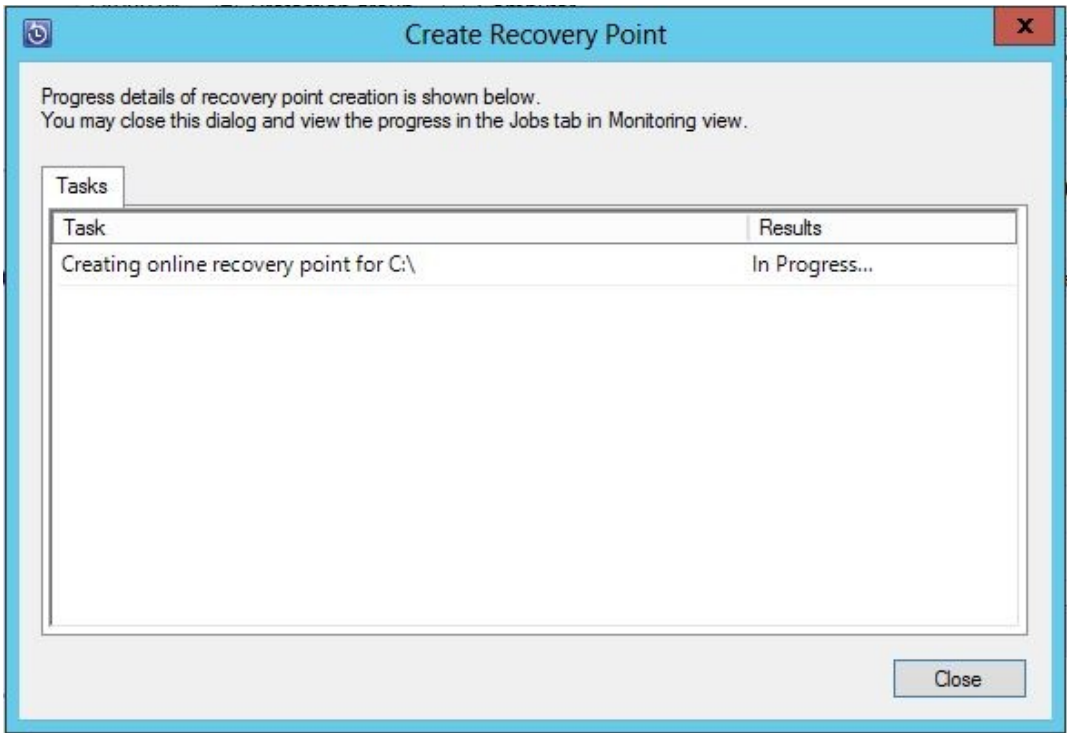

Create New Protection Group
Specify Online Protection Goals
Specify your online protection objectives, which DPM will use to generate your protection plan.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Specify your online protection objectives
Retention range in days: 7
Synchronization frequency: Daily
Weekly
Synchronization Schedule
Synchronize daily at the following times: (maximum 2 times per day)
Available time:
12:00 AM
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
Add >
< Remove
Scheduled time:
9:00 PM
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

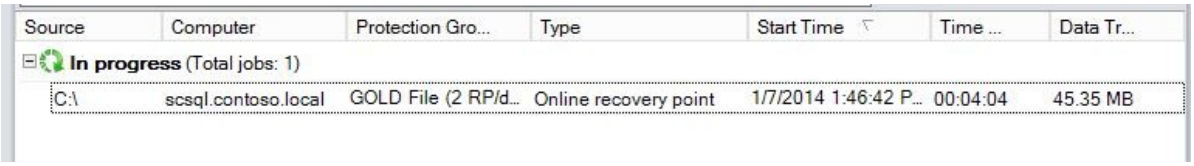

Create New Protection Group
Specify Online Protection Goals
Specify your online protection objectives, which DPM will use to generate your protection plan.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Choose replica creation method
Choose consistency check options
Specify online protection data
Specify online protection goals
Summary
Status
Specify your online protection objectives
Retention range in days: 120
Synchronization frequency: Daily Weekly
Synchronization Schedule
Synchronize every 1 week(s) on:
Sunday Monday Tuesday Wednesday
Thursday Friday Saturday
at the following times: (maximum 2 times per day)
Available time:
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
9:00 AM
Add >
< Remove
Scheduled time:
12:00 AM
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

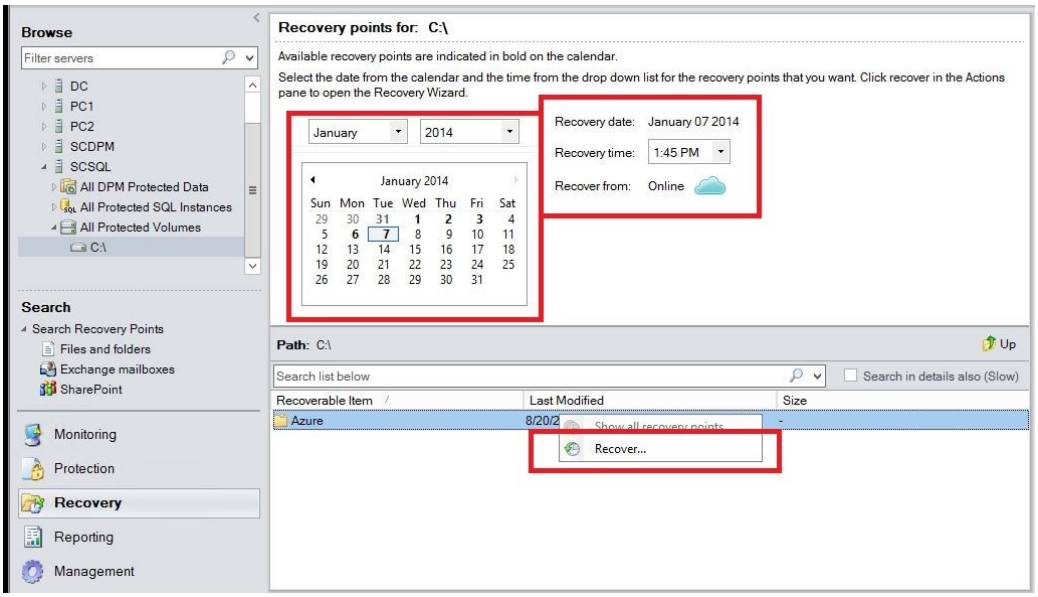
System Center 2012 R2 DPM Administrator Console
File Action View Help
New
Consistency check
Recovery point
Remove
Disk
Online
Tape
Self service recovery
Disk allocation
Tape catalog retention
Recovery point status
Check updates
Options
Protecti...
Data source operations
Resume backups
Manage
Reports
Options
Data Source Health
Critical (0)
OK (1)
Warning (0)
All Protection Groups
Azure Backup
Group by: Protection group Computer
Search list below
Search in details also (Slow)
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: Azure Backup (Total members: 1)
Computer: DPM2.CONTOSO.LOCAL
DPM2\DPM\DPMDB_DP...
SQL Data
OK
Enabled

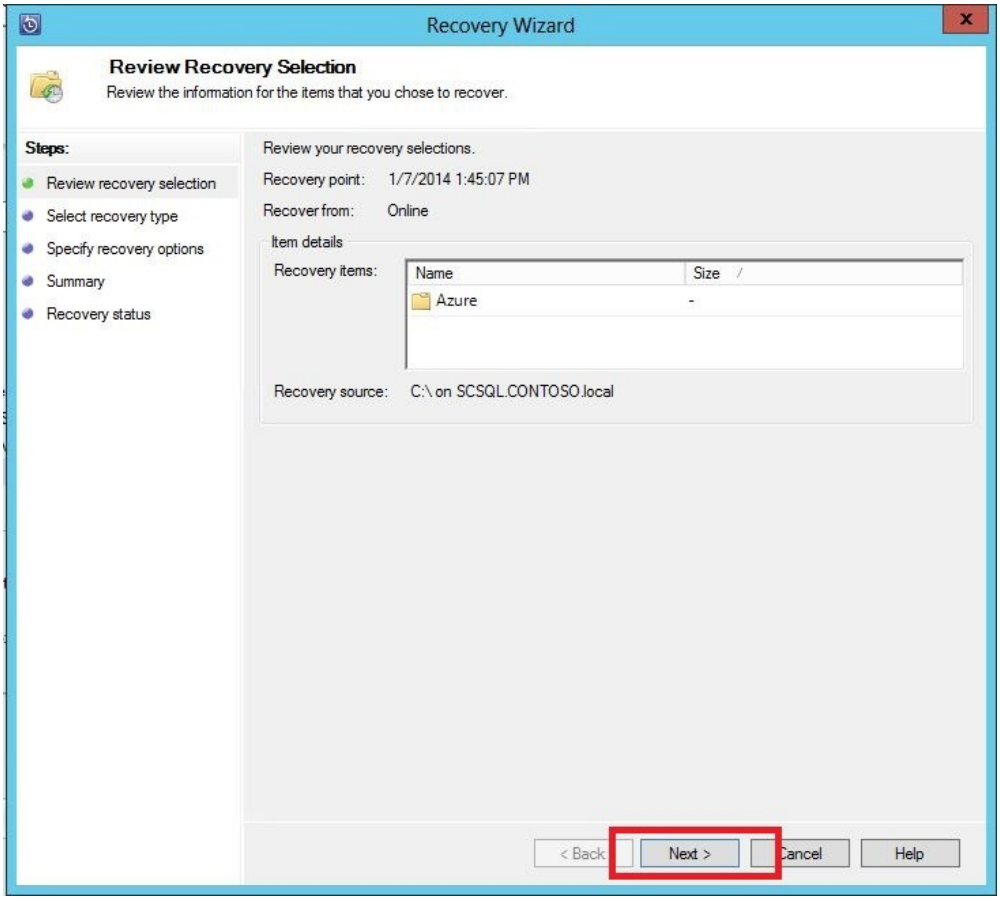

Critical (3)
OK (5)
Warning (0)
All Protection Groups
Client Protection
GOLD File (2 RP/d 08:00 16:00 / 15 n
GOLD SQL DPMDB
SILVER File (1RP/d 08:00)
SQL Databases
Super Important Web servers
SystemState
Inactive Protection
Monitoring
Protection
Recovery
Search list below
Search in details also
Protection Group Member
Type
Protection Status
Online Protection
Protection Group: Client Protection (Total members: 2)
Protection Group: GOLD File (2 RP/d 08:00 16:00 / 15 min SYNC / AZURE 22:00) (Total members: 1)
Computer: SCSQL.CONTOSO.local
C:\Azure
Folder
OK
Protection Group: GOLD SQL DPMDB (Total members: 1)
Computer: SCDPM.CONTOSO.local
Protection Group: SILVER File (1RP/d 08:00) (Total member
Computer: SCDPM.CONTOSO.local
Protection Group: SQL Databases (Total members: 1)
Computer: SCSQL.CONTOSO.local
Perform consistency check ...
Create recovery point...
Stop protection of member...
Remove inactive protection...
Switch disaster protection
Modify disk allocation...
Resume disk backups...
Resume azure backups...
Resume tape backups...
Recovery point status...
Details: C:\Azure
Status: OK
Replica path: Click to view details
Latest recovery point: 1/7/2014 8:00:08 AM
Oldest recovery point: 12/18/2013 8:00:41 AM
Total recovery points: 16

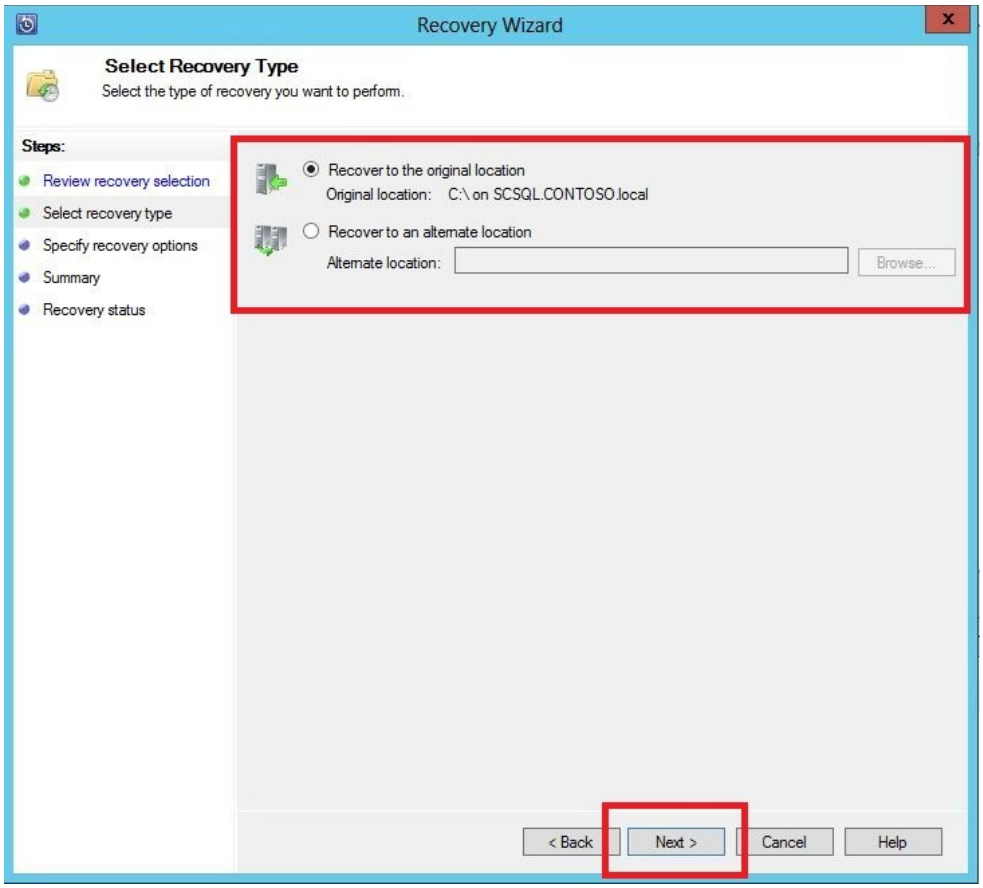

Create recovery point
Selected: C:\
Member type: Volume
Create recovery point for: Online protection
Recovery point creation options
DPM will create an online recovery point using the latest DPM replica on disk. No new data will be transferred from the protected computers. If you would like DPM to help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

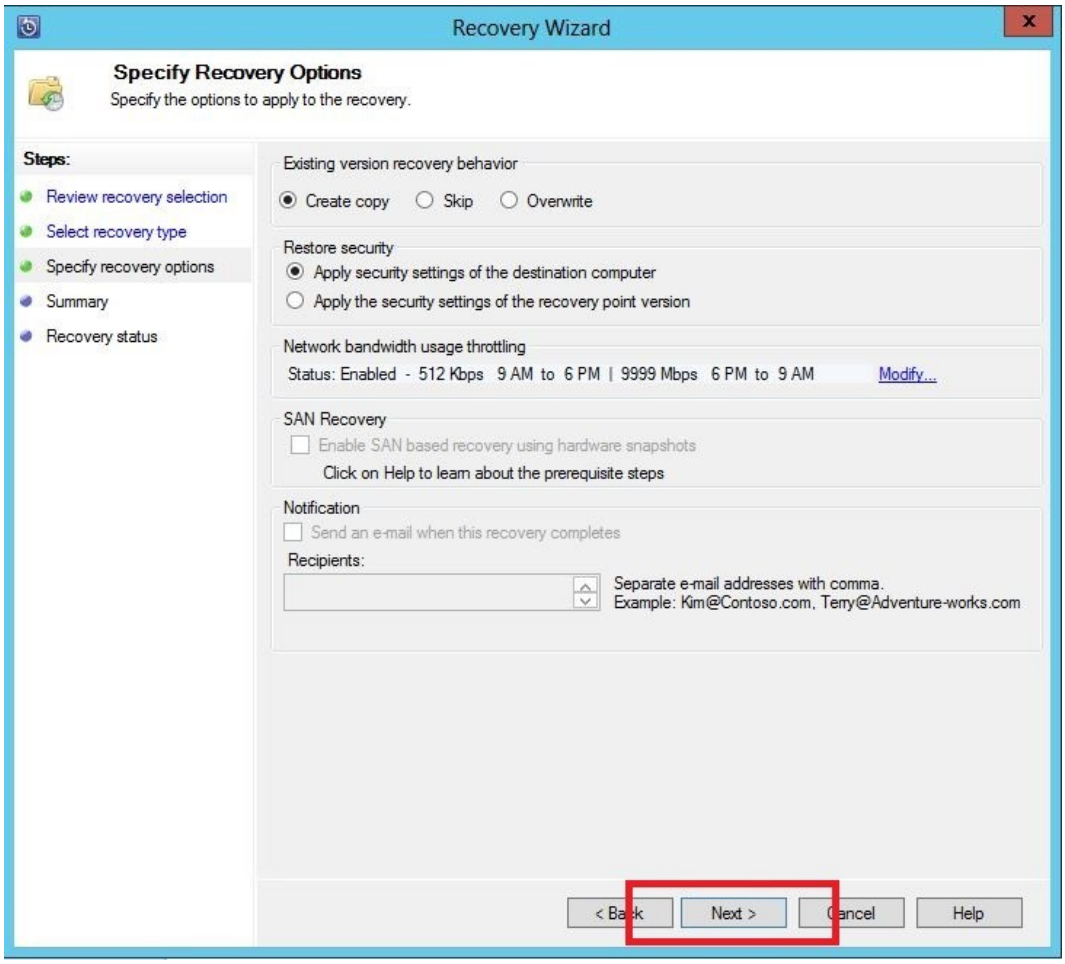

Create Recovery Point
Progress details of recovery point creation is shown below.
You may close this dialog and view the progress in the Jobs tab in Monitoring view.
Tasks
Task
Results
Creating online recovery point for C:\
In Progress...
Close

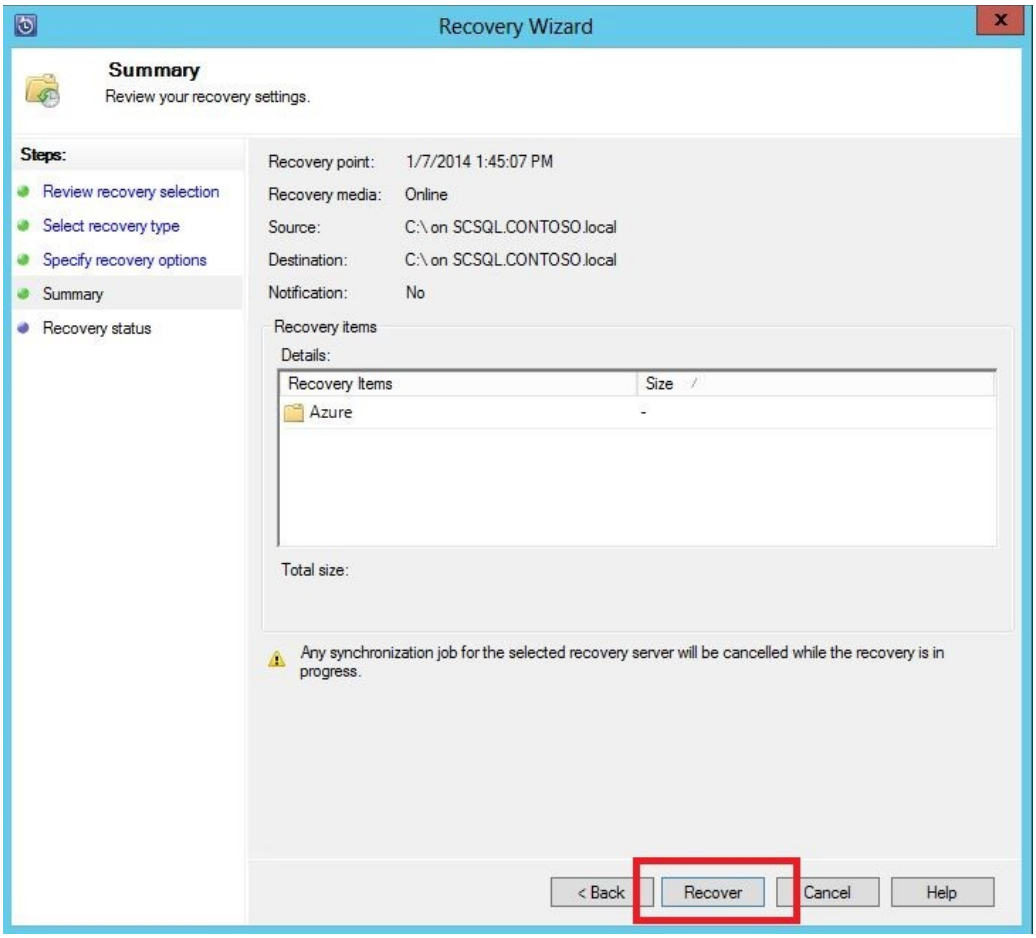

Source
Computer
Protection Gro...
Type
Start Time
Time ...
Data Tr...
In progress (Total jobs: 1)
C:\
scsql.contoso.local
GOLD File (2 RP/d...
Online recovery point
1/7/2014 1:46:42 P...
00:04:04
45.35 MB

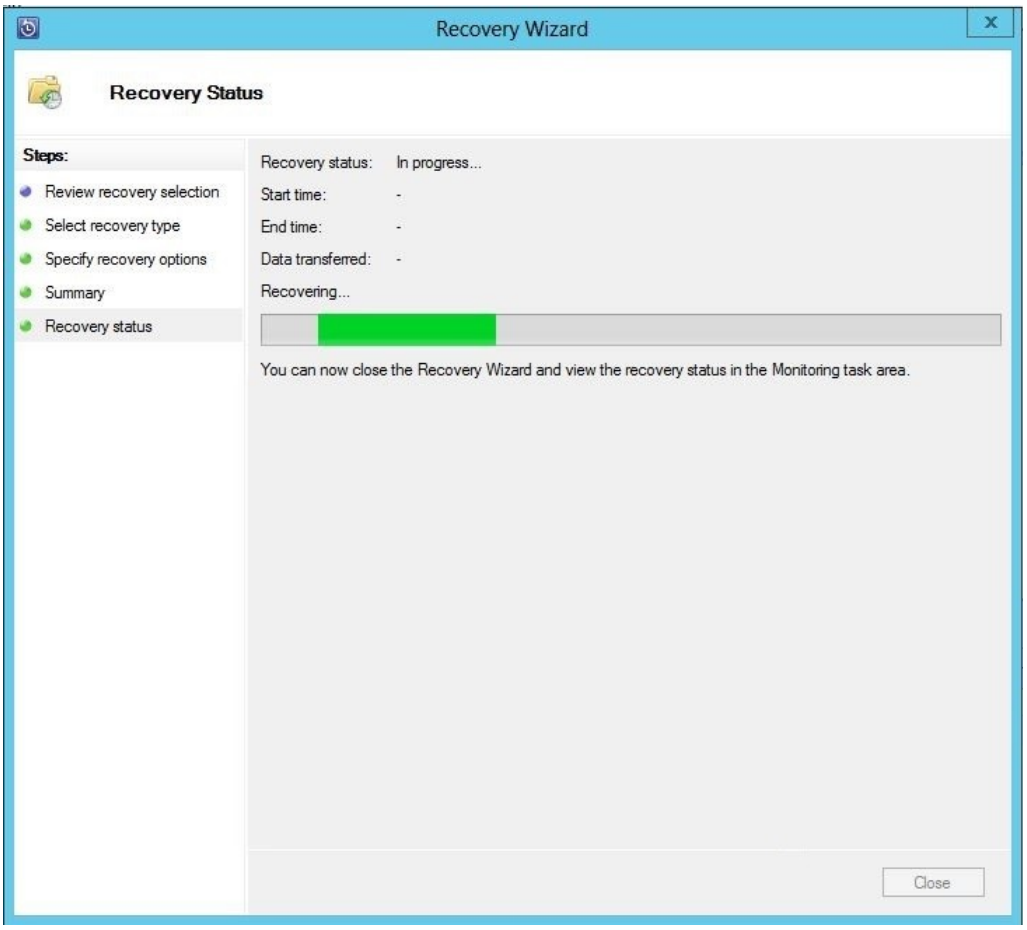

Browse
Filter servers
DC
PC1
PC2
SCDPM
SCSQL
All DPM Protected Data
All Protected SQL Instances
All Protected Volumes
C:\
Search
Search Recovery Points
Files and folders
Exchange mailboxes
SharePoint
Monitoring
Protection
Recovery
Reporting
Management
Recovery points for: C:\
Available recovery points 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.
January
2014
January 2014
Sun Mon Tue Wed Thu Fri Sat
29 30 31 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: January 07 2014
Recovery time: 1:45 PM
Recover from: Online
Path: C:\
Up
Search list below
Search in details also (Slow)
Recoverable Item
Last Modified
Size
Azure
8/20/2
Show all recovery points
Recover...

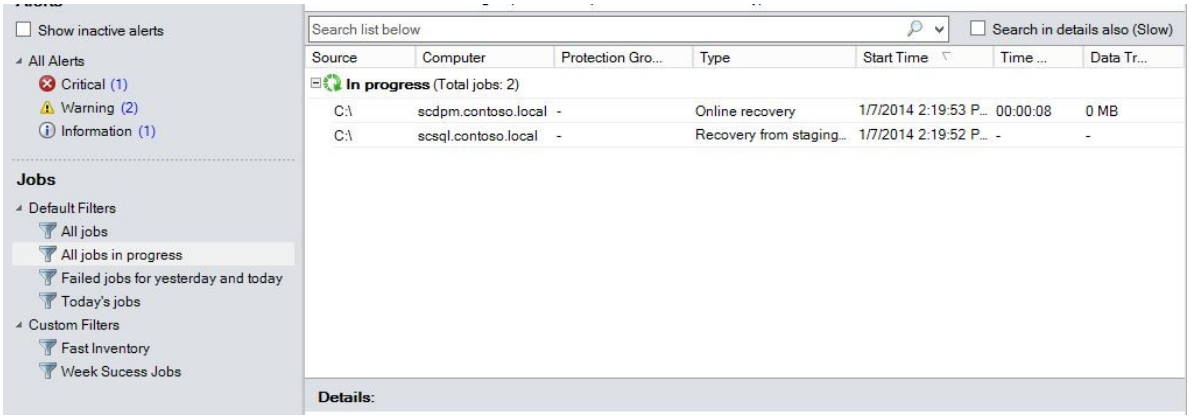

Recovery Wizard
Review Recovery Selection
Review the information for the items that you chose to recover.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Review your recovery selections.
Recovery point: 1/7/2014 1:45:07 PM
Recover from: Online
Item details
Recovery items:
Name
Size
Azure
-
Recovery source: C:\ on SCSQL.CONTOSO.local
< Back
Next >
Cancel
Help

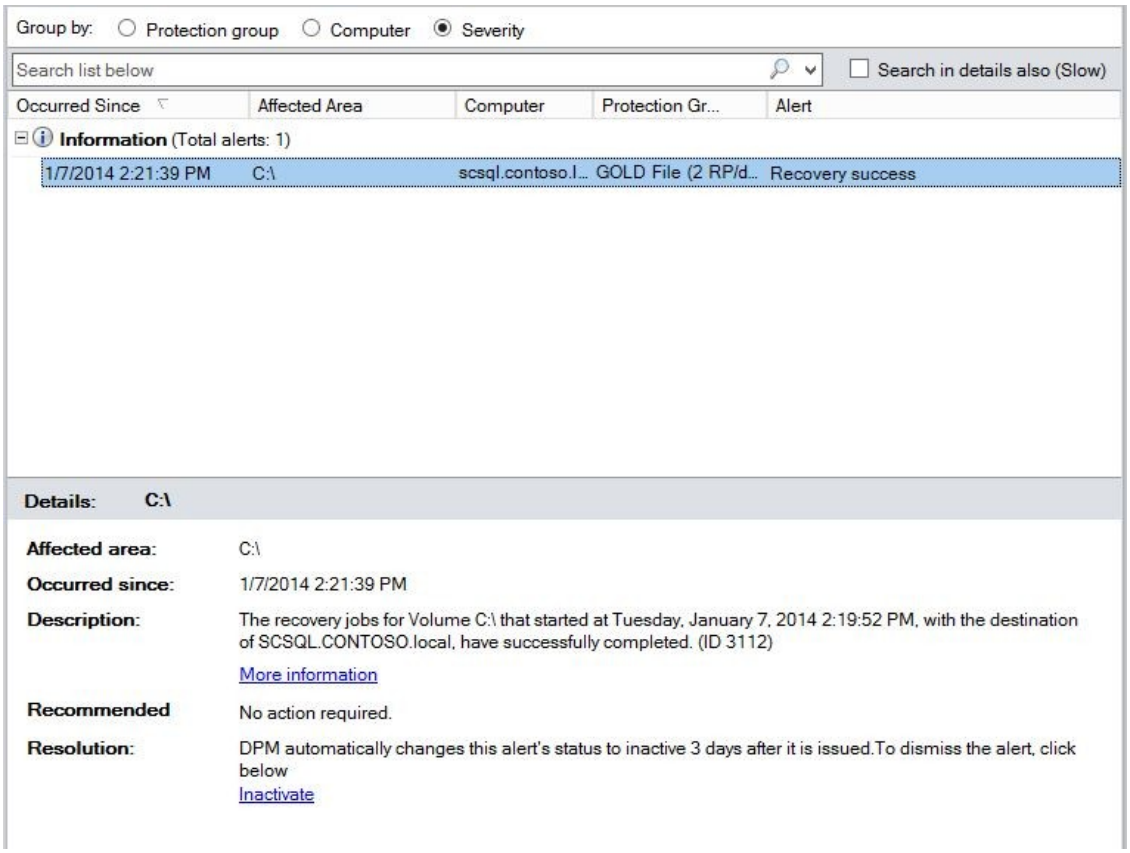

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover to the original location
Original location: C:\ on SCSQL.CONTOSO.local
Recover to an alternate location
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: Enabled - 512 Kbps 9 AM to 6 PM | 9999 Mbps 6 PM to 9 AM
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

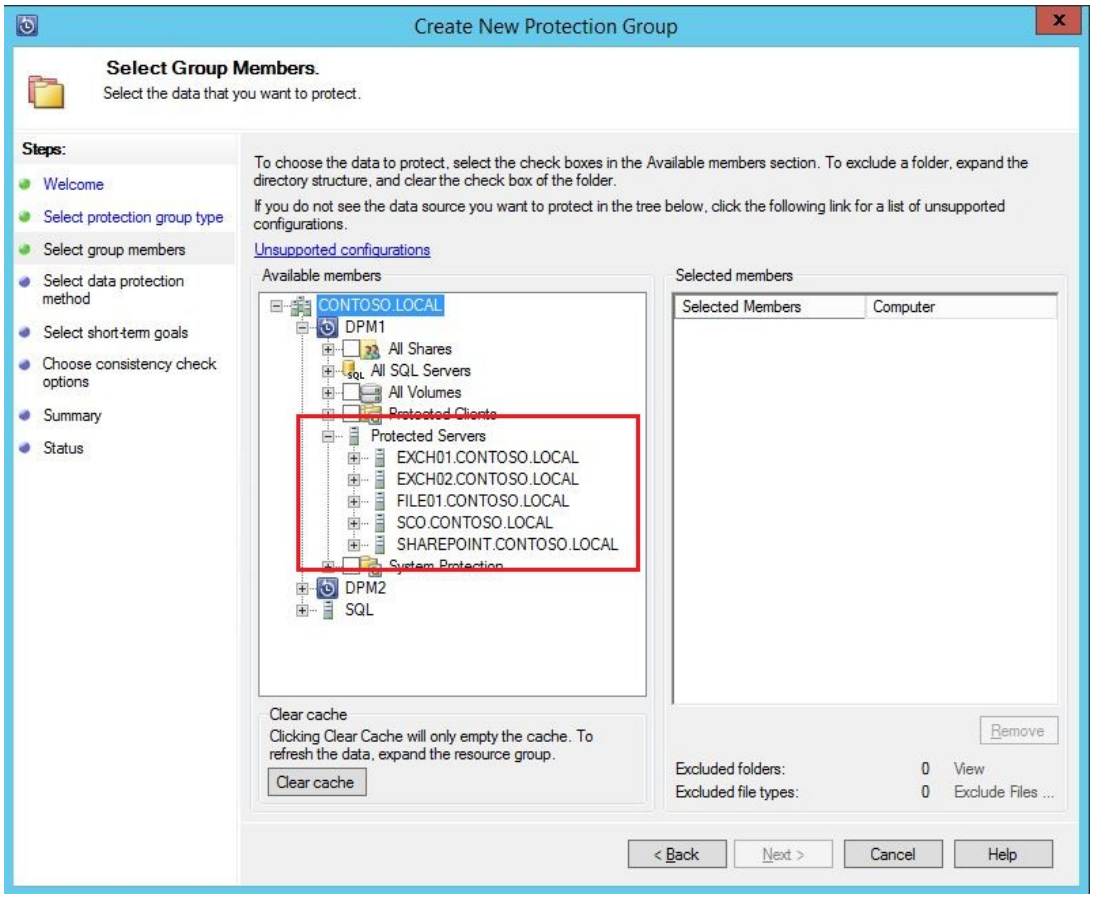

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery point: 1/7/2014 1:45:07 PM
Recovery media: Online
Source: C:\ on SCSQL.CONTOSO.local
Destination: C:\ on SCSQL.CONTOSO.local
Notification: No
Recovery items
Details:
Recovery Items
Size
Azure
-
Total size:
Any synchronization job for the selected recovery server will be cancelled while the recovery is in progress.
< Back
Recover
Cancel
Help

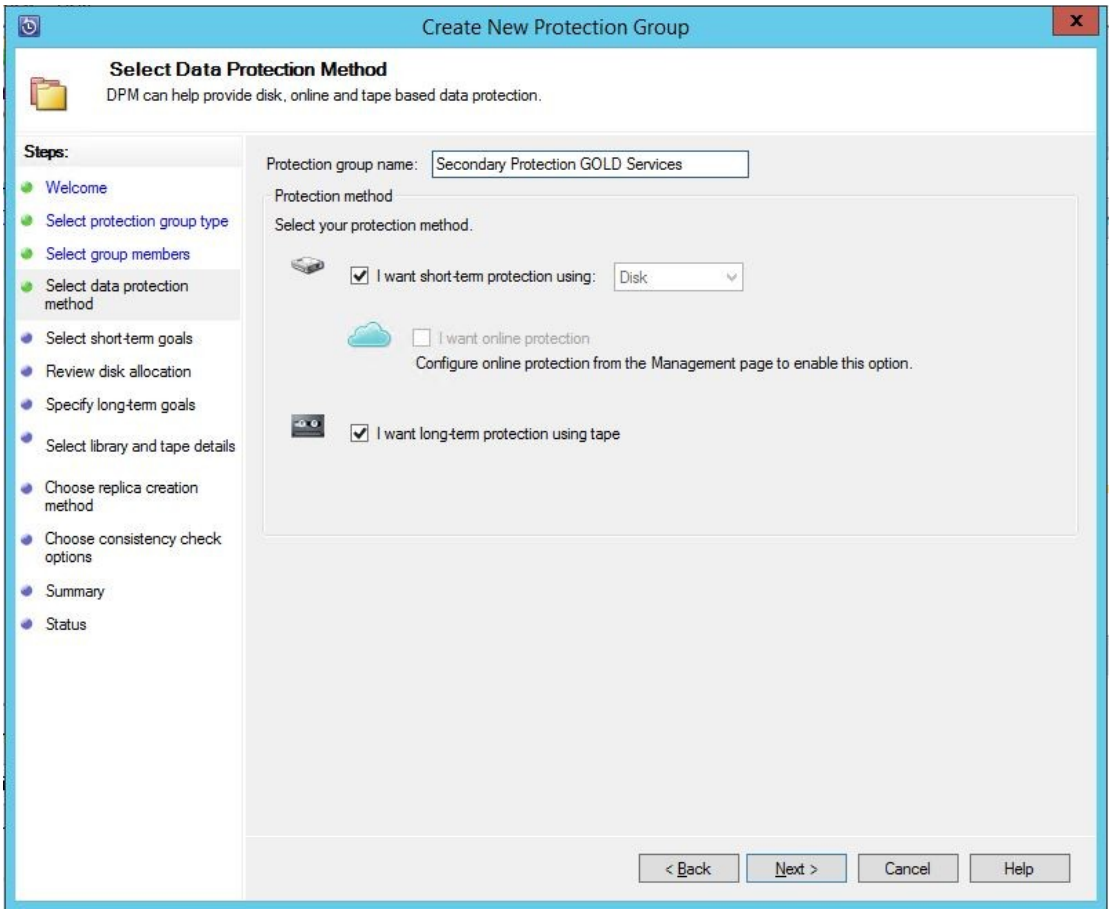

Recovery Wizard
Recovery Status
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery status: In progress...
Start time: -
End time: -
Data transferred: -
Recovering...
You can now close the Recovery Wizard and view the recovery status in the Monitoring task area.
Close

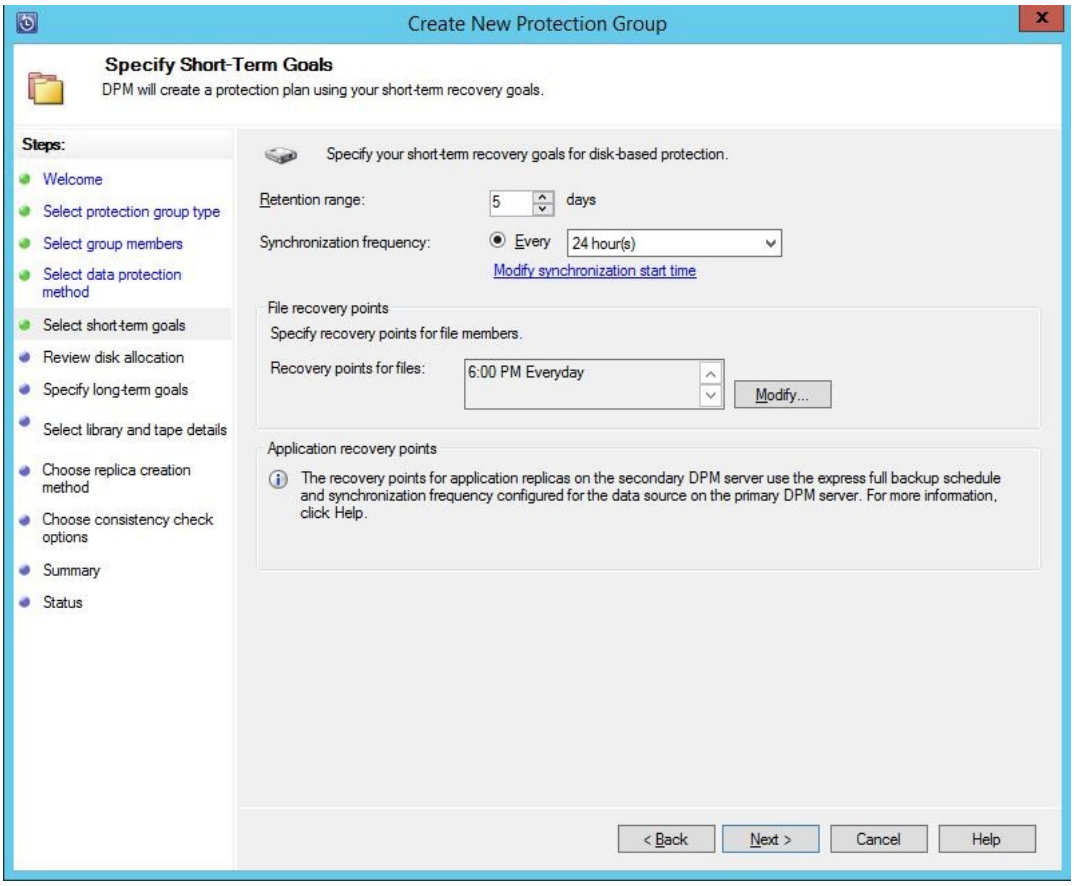

Show inactive alerts
All Alerts
Critical (1)
Warning (2)
Information (1)
Jobs
Default Filters
All jobs
All jobs in progress
Failed jobs for yesterday and today
Today's jobs
Custom Filters
Fast Inventory
Week Sucess Jobs
Search list below
Search in details also (Slow)
Source
Computer
Protection Gro...
Type
Start Time
Time ...
Data Tr...
In progress (Total jobs: 2)
C:\ scdpm.contoso.local - Online recovery 1/7/2014 2:19:53 P... 00:00:08 0 MB
C:\ scsql.contoso.local - Recovery from staging... 1/7/2014 2:19:52 P... - -
Details:

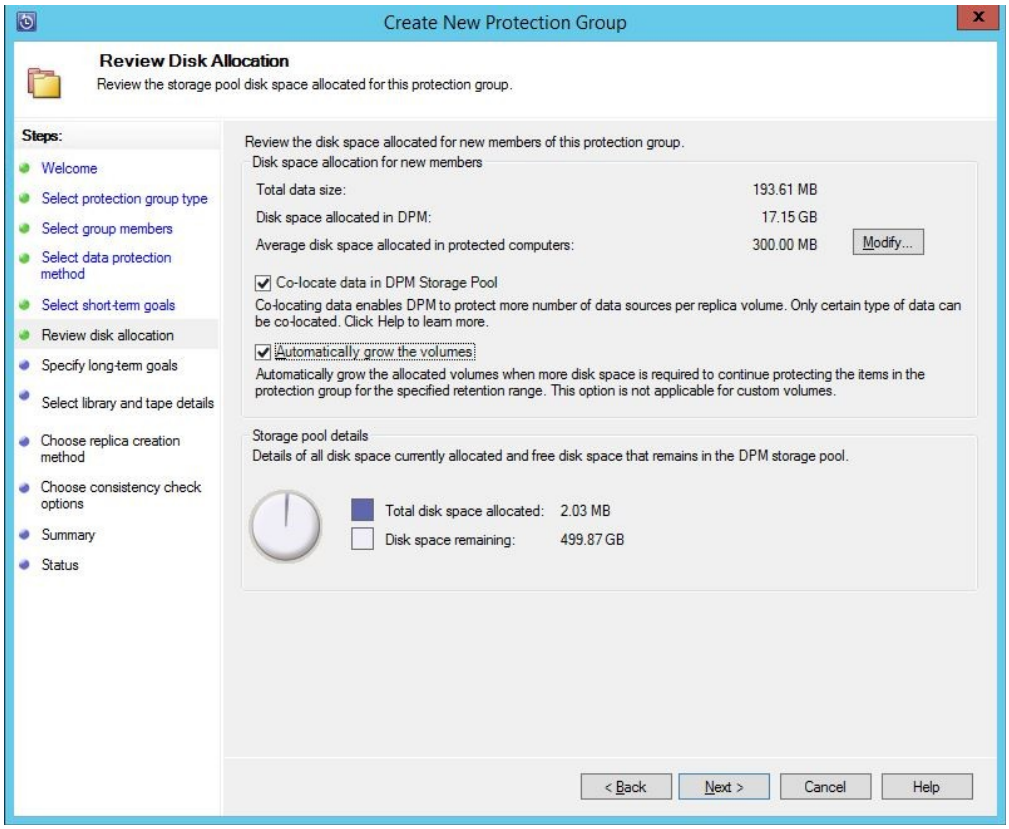

Group by: Protection group Computer Severity
Search list below
Search in details also (Slow)
Occurred Since
Affected Area
Computer
Protection Gr...
Alert
Information (Total alerts: 1)
1/7/2014 2:21:39 PM
C:\
scsql.contoso.l...
GOLD File (2 RP/d...
Recovery success
Details: C:\
Affected area: C:\
Occurred since: 1/7/2014 2:21:39 PM
Description: The recovery jobs for Volume C:\ that started at Tuesday, January 7, 2014 2:19:52 PM, with the destination of SCSQL.CONTOSO.local, have successfully completed. (ID 3112)
More information
Recommended No action required.
Resolution: DPM automatically changes this alert's status to inactive 3 days after it is issued.To dismiss the alert, click below
Inactivate

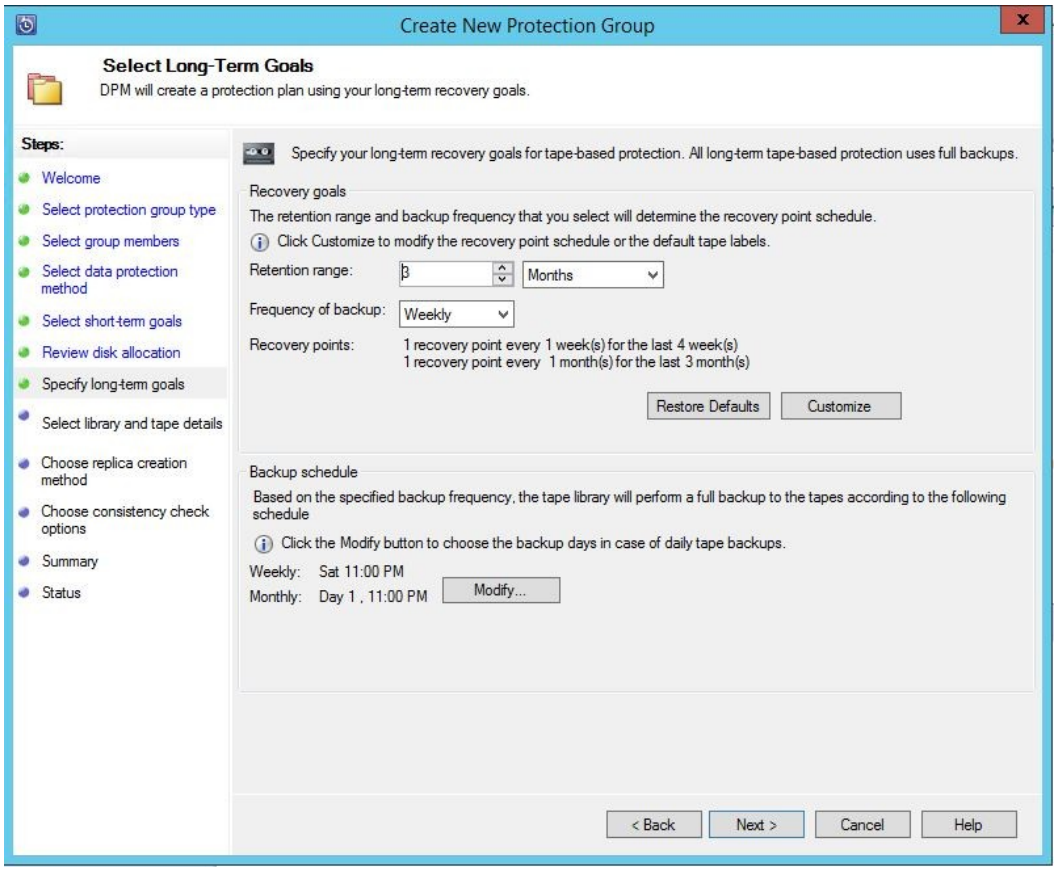
Chapter 12

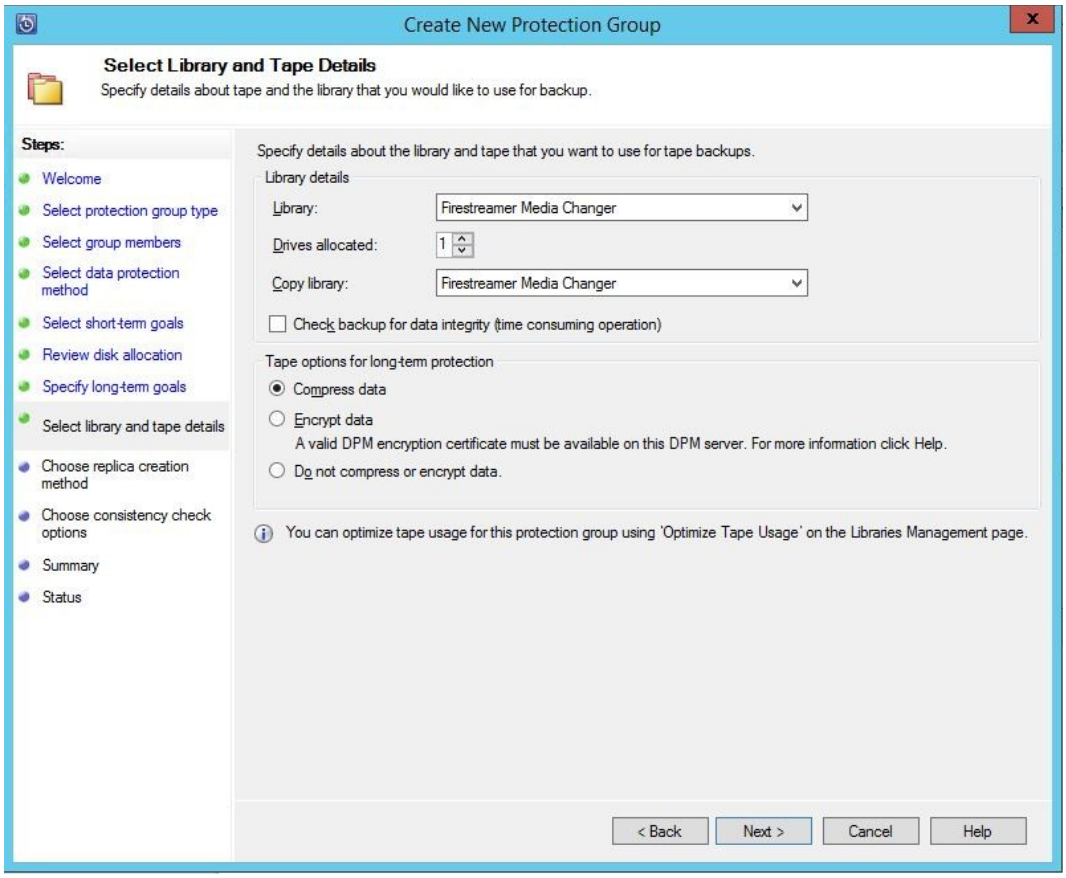

Create New Protection Group
Select Group Members.
Select the data that you want to protect.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Choose consistency check options
Summary
Status
To choose the data to protect, select the check boxes in the Available members section. To exclude a folder, expand the directory structure, and clear the check box of the folder.
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
CONTOSO.LOCAL
DPM1
All Shares
All SQL Servers
All Volumes
Protected Clients
Protected Servers
EXCH01.CONTOSO.LOCAL
EXCH02.CONTOSO.LOCAL
FILE01.CONTOSO.LOCAL
SCO.CONTOSO.LOCAL
SHAREPOINT.CONTOSO.LOCAL
System Protection
DPM2
SQL
Selected members
Selected Members
Computer
Remove
Clear cache
Clicking Clear Cache will only empty the cache. To refresh the data, expand the resource group.
Clear cache
Excluded folders: 0 View
Excluded file types: 0 Exclude Files ...
< Back
Next >
Cancel
Help

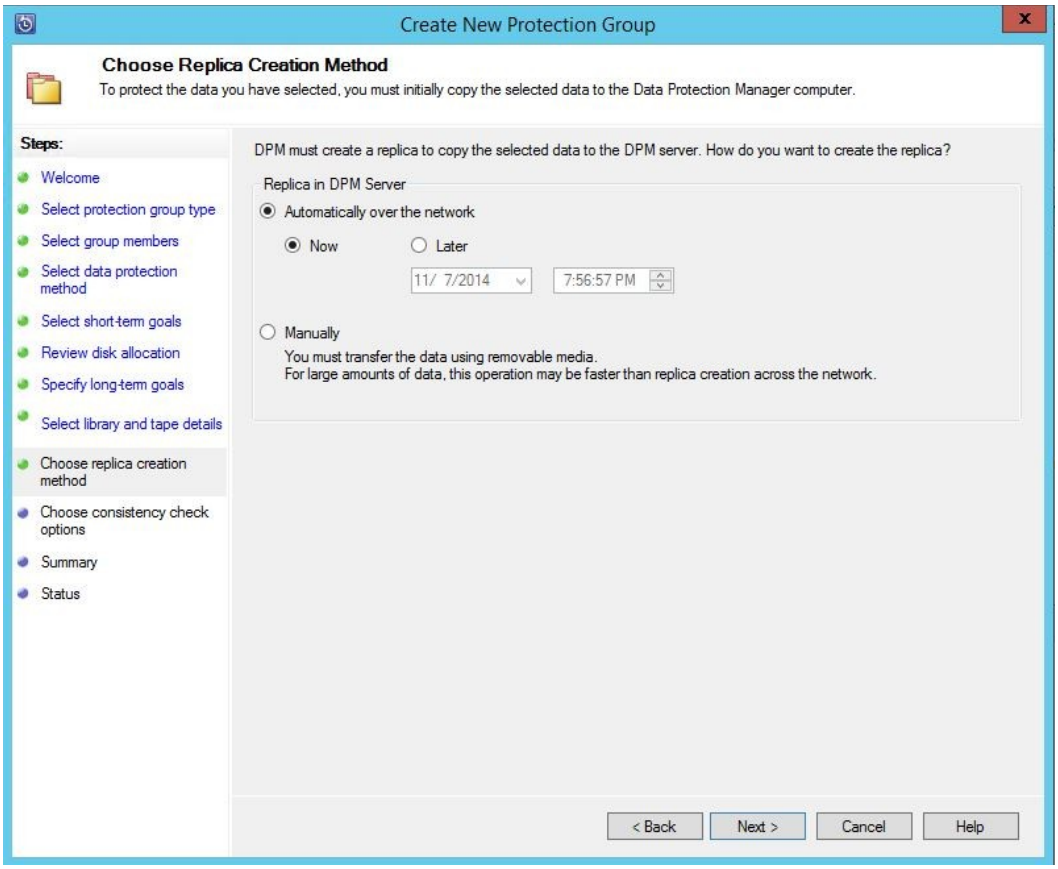

Create New Protection Group
Select Data Protection Method
DPM can help provide disk, online and tape based data protection.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Protection group name:
Secondary Protection GOLD Services
Protection method
Select your protection method.
I want short-term protection using:
Disk
I want online protection
Configure online protection from the Management page to enable this option.
I want long-term protection using tape
< Back
Next >
Cancel
Help

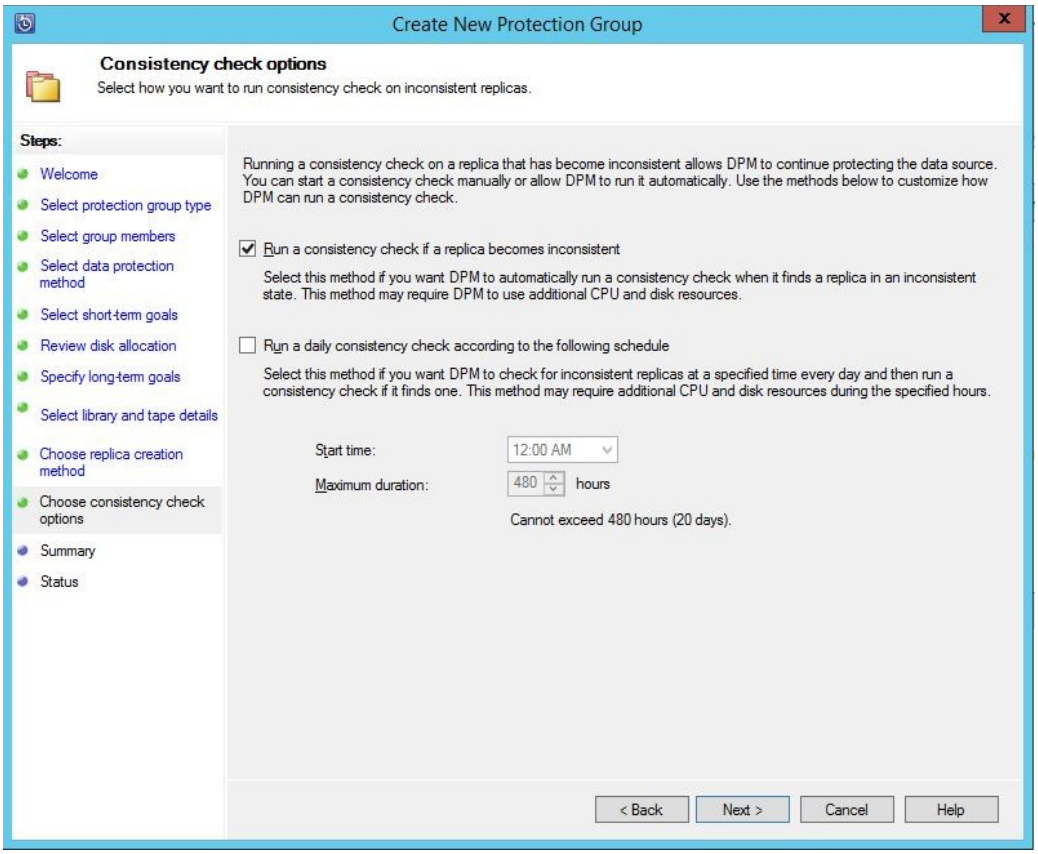

Create New Protection Group
Specify Short-Term Goals
DPM will create a protection plan using your short-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your short-term recovery goals for disk-based protection.
Retention range:
5
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...
Application recovery points
The recovery points for application replicas on the secondary DPM server use the express full backup schedule and synchronization frequency configured for the data source on the primary DPM server. For more information, click Help.
< Back
Next >
Cancel
Help

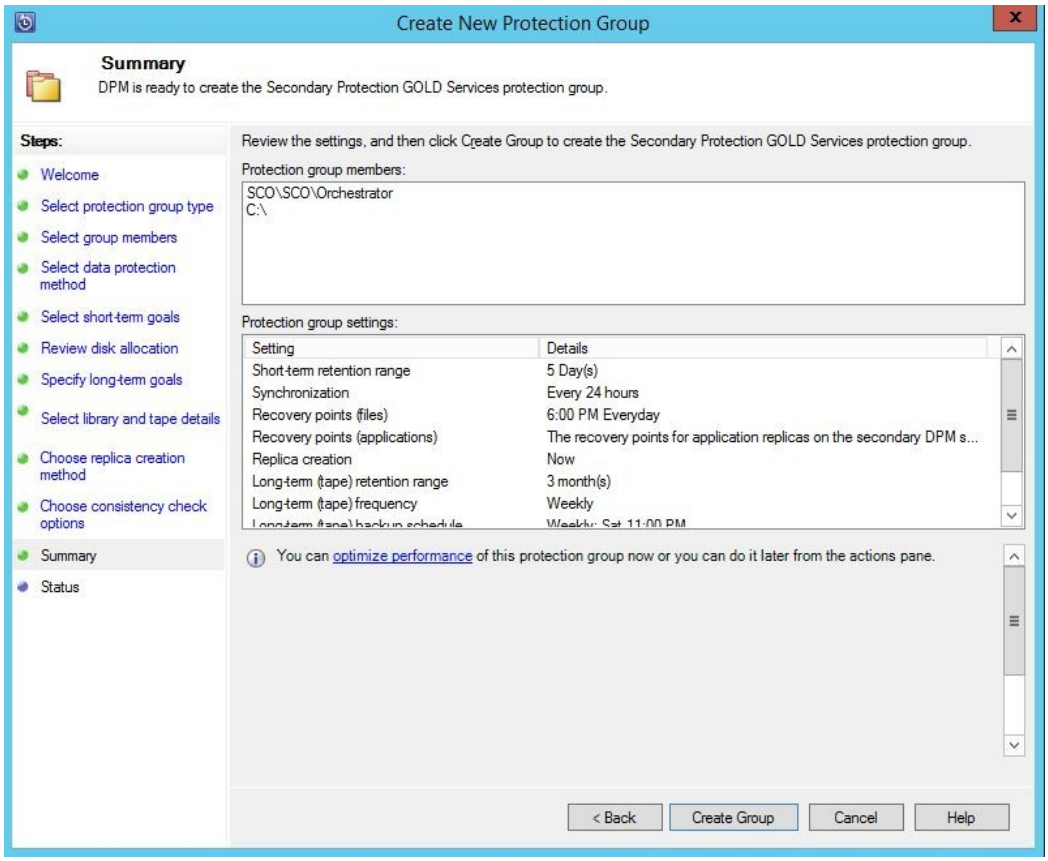

Create New Protection Group
Review Disk Allocation
Review the storage pool disk space allocated for this protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Review the disk space allocated for new members of this protection group.
Disk space allocation for new members
Total data size: 193.61 MB
Disk space allocated in DPM: 17.15 GB
Average disk space allocated in protected computers: 300.00 MB
Modify...
Co-locate data in DPM Storage Pool
Co-locating data enables DPM to protect more number of data sources per replica volume. Only certain type of data can be co-located. Click Help to learn more.
Automatically grow the volumes
Automatically grow the allocated volumes when more disk space is required to continue protecting the items in the protection group for the specified retention range. This option is not applicable for custom volumes.
Storage pool details
Details of all disk space currently allocated and free disk space that remains in the DPM storage pool.
Total disk space allocated: 2.03 MB
Disk space remaining: 499.87 GB
< Back
Next >
Cancel
Help


Create New Protection Group
Select Long-Term Goals
DPM will create a protection plan using your long-term recovery goals.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Specify your long-term recovery goals for tape-based protection. All long-term tape-based protection uses full backups.
Recovery goals
The retention range and backup frequency that you select will determine the recovery point schedule.
Click Customize to modify the recovery point schedule or the default tape labels.
Retention range:
3
Months
Frequency of backup:
Weekly
Recovery points:
1 recovery point every 1 week(s) for the last 4 week(s)
1 recovery point every 1 month(s) for the last 3 month(s)
Restore Defaults
Customize
Backup schedule
Based on the specified backup frequency, the tape library will perform a full backup to the tapes according to the following schedule
Click the Modify button to choose the backup days in case of daily tape backups.
Weekly: Sat 11:00 PM
Monthly: Day 1 , 11:00 PM
Modify...
< Back
Next >
Cancel
Help


Create New Protection Group
Select Library and Tape Details
Specify details about tape and the library that you would like to use for backup.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Specify details about the library and tape that you want to use for tape backups.
Library details
Library:
Firestreamer Media Changer
Drives allocated:
1
Copy library:
Firestreamer Media Changer
Check backup for data integrity (time consuming operation)
Tape options for long-term protection
Compress data
Encrypt data
A valid DPM encryption certificate must be available on this DPM server. For more information click Help.
Do not compress or encrypt data.
You can optimize tape usage for this protection group using 'Optimize Tape Usage' on the Libraries Management page.
< Back
Next >
Cancel
Help

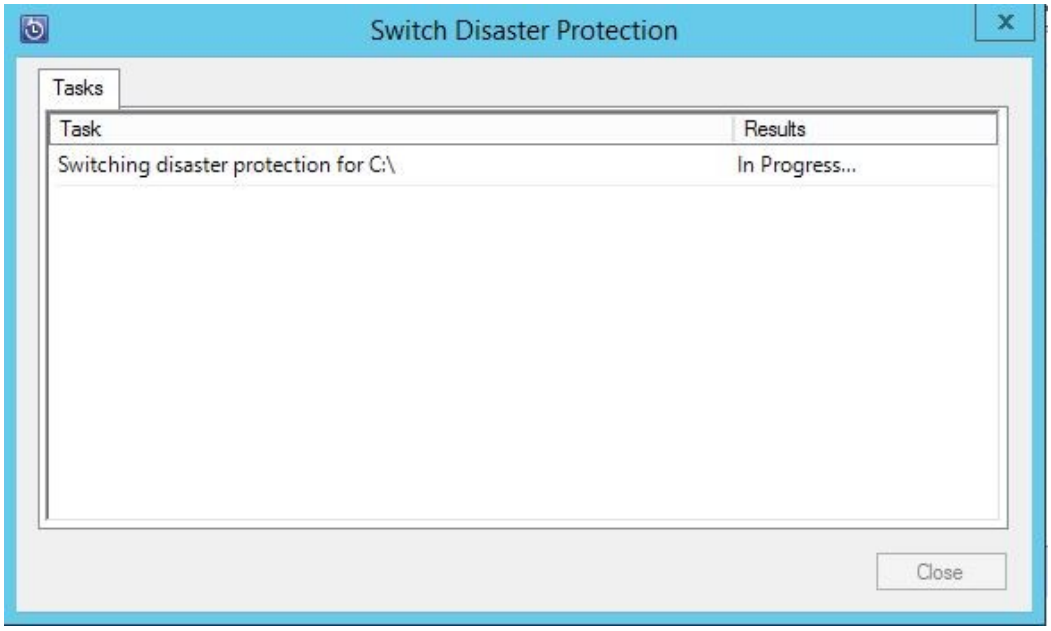

Create New Protection Group
Choose Replica Creation Method
To protect the data you have selected, you must initially copy the selected data to the Data Protection Manager computer.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
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/ 7/2014
7:56:57 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

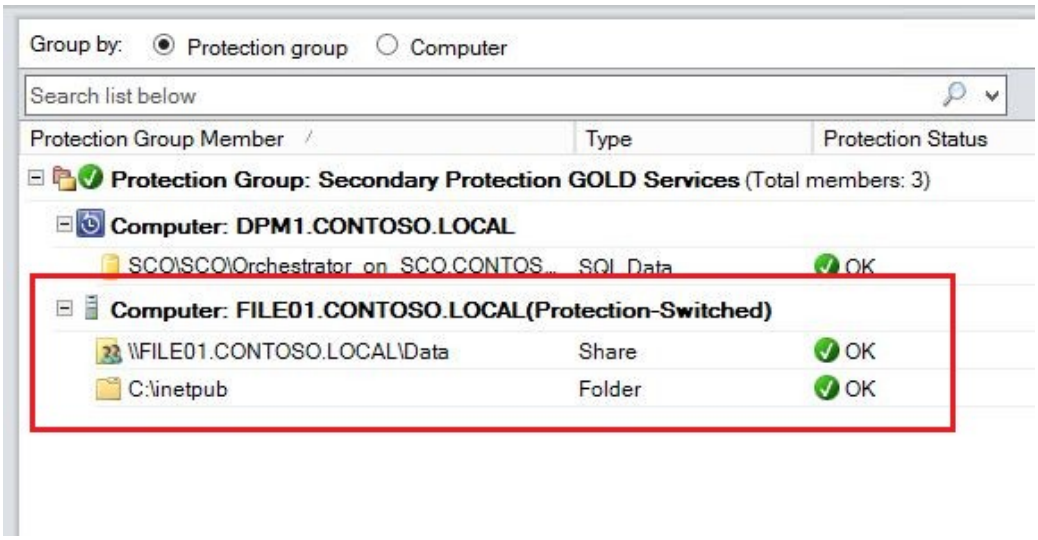

Create New Protection Group
Consistency check options
Select how you want to run consistency check on inconsistent replicas.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
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

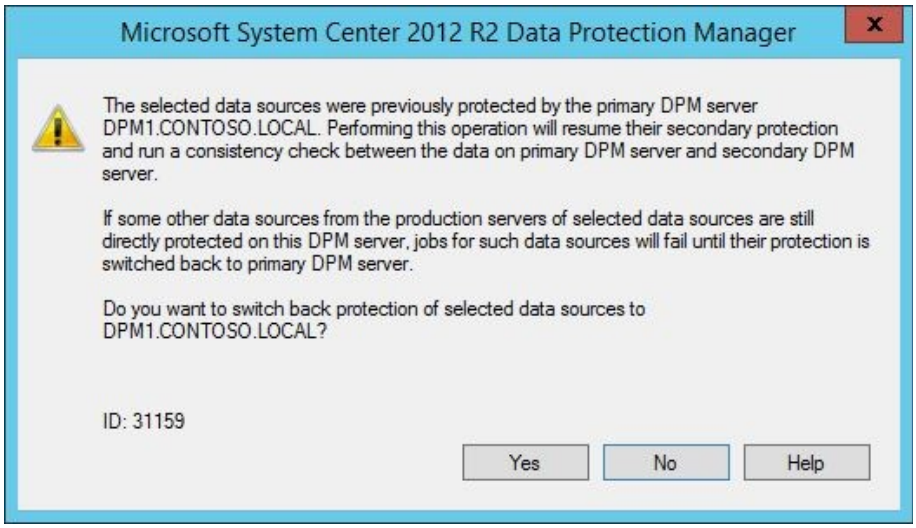

Create New Protection Group
Summary
DPM is ready to create the Secondary Protection GOLD Services protection group.
Steps:
Welcome
Select protection group type
Select group members
Select data protection method
Select short-term goals
Review disk allocation
Specify long-term goals
Select library and tape details
Choose replica creation method
Choose consistency check options
Summary
Status
Review the settings, and then click Create Group to create the Secondary Protection GOLD Services protection group.
Protection group members:
SCO\SCO\Orchestrator
C:\
Protection group settings:
Setting
Details
Short-term retention range
5 Day(s)
Synchronization
Every 24 hours
Recovery points (files)
6:00 PM Everyday
Recovery points (applications)
The recovery points for application replicas on the secondary DPM s...
Replica creation
Now
Long-term (tape) retention range
3 month(s)
Long-term (tape) frequency
Weekly
You can optimize performance of this protection group now or you can do it later from the actions pane.
< Back
Create Group
Cancel
Help

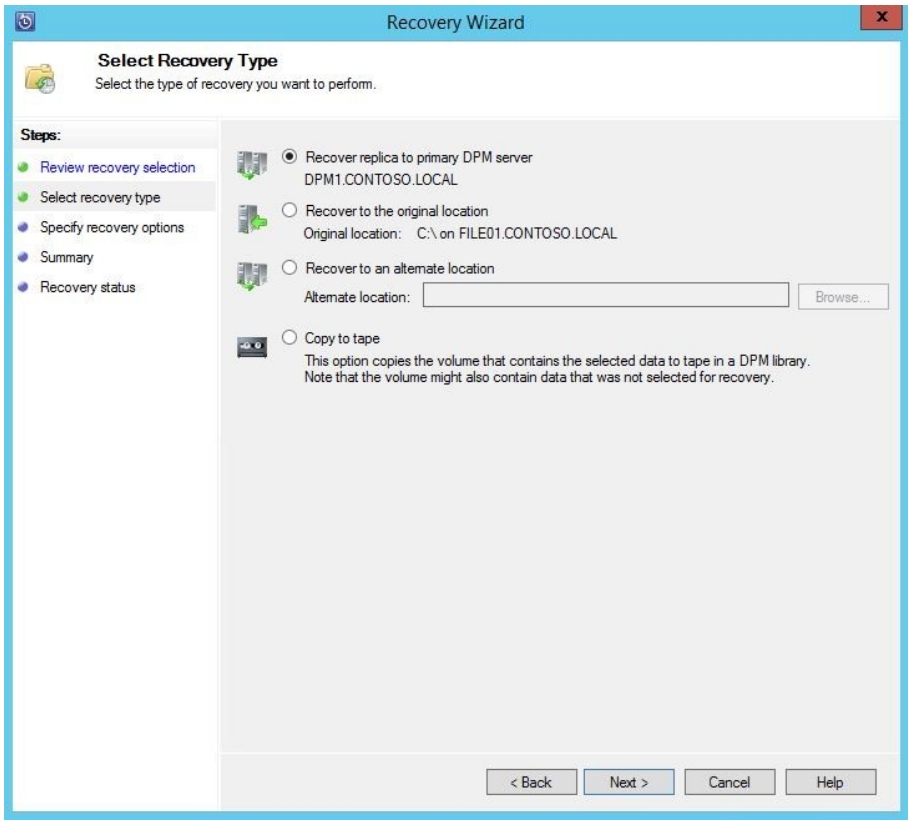
Protection Group Member
Type
Protection Status
Protection Group: Secondary Protection GOLD Services (Total members: 2)
Computer: DPM1.CONTOSO.LOCAL
Volume
OK
OK
Perform consistency check ...
Create recovery point...
Stop protection of member...
Switch disaster protection
Modify disk allocation...
Resume disk backups...
Resume azure backups...
Resume tape backups...
Recovery point status...
Details:

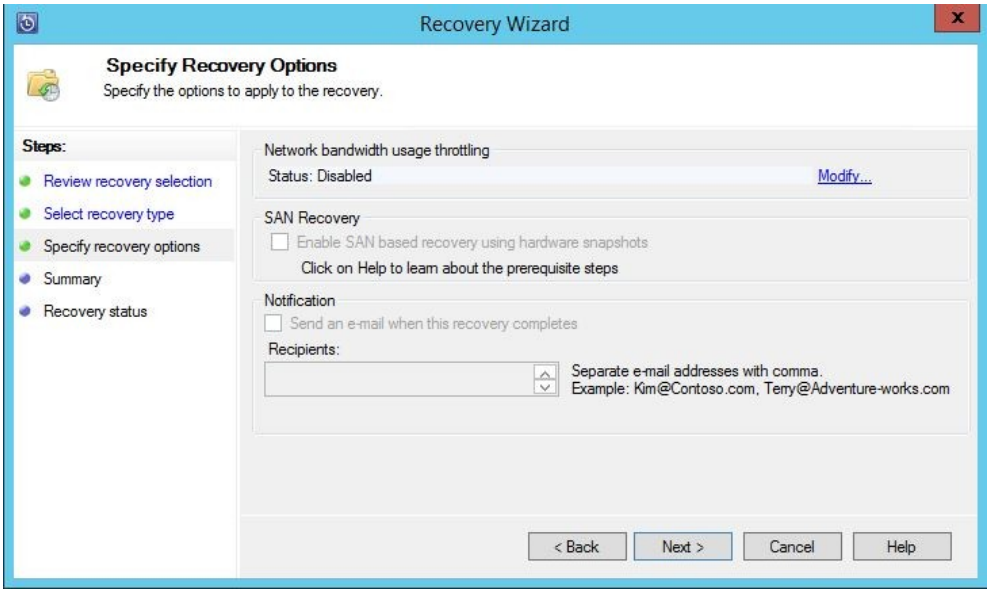
Microsoft System Center 2012 R2 Data Protection Manager
The selected data sources are protected by the primary DPM server DPM1.CONTOSO.LOCAL. This DPM server is protecting the replicas of selected data sources from the primary DPM server (secondary protection).
Do you want this DPM server to take over primary protection and protect these data sources directly?
ID: 31158
Yes
No
Help

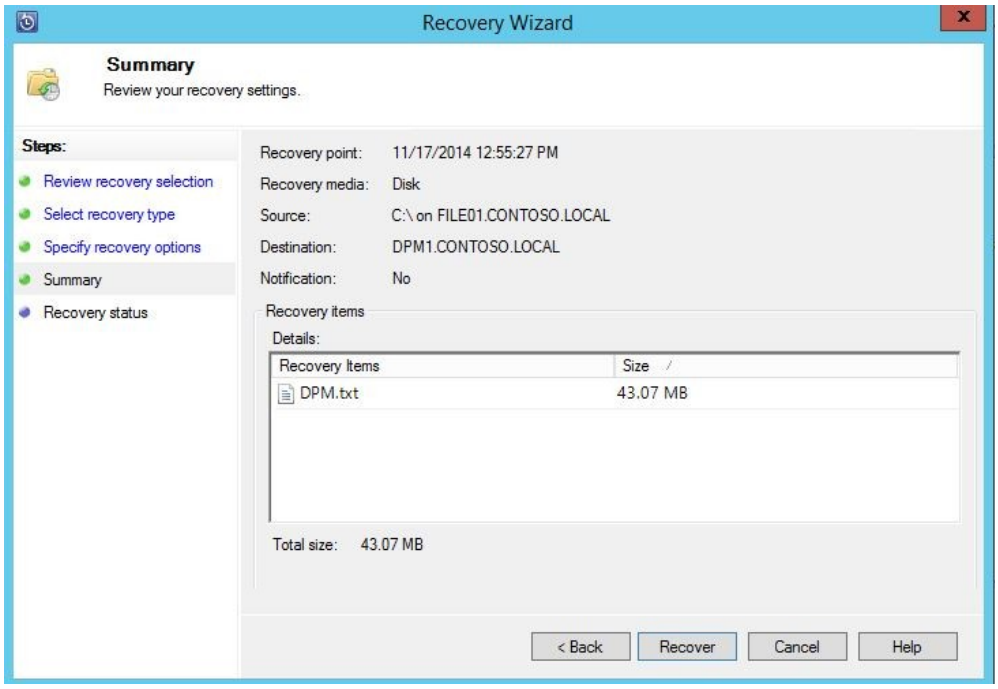

Switch Disaster Protection
Tasks
Task
Results
Switching disaster protection for C:\
In Progress...
Close


Group by: Protection group Computer
Search list below
Protection Group Member
Type
Protection Status
Protection Group: Secondary Protection GOLD Services (Total members: 3)
Computer: DPM1.CONTOSO.LOCAL
SCO\SCO\Orchestrator_on_SCO.CONTOS...
SQL Data
OK
Computer: FILE01.CONTOSO.LOCAL(Protection-Switched)
\\FILE01.CONTOSO.LOCAL\Data
Share
OK
C:\inetpub
Folder
OK


Microsoft System Center 2012 R2 Data Protection Manager
The selected data sources were previously protected by the primary DPM server DPM1.CONTOSO.LOCAL. Performing this operation will resume their secondary protection and run a consistency check between the data on primary DPM server and secondary DPM server.
If some other data sources from the production servers of selected data sources are still directly protected on this DPM server, jobs for such data sources will fail until their protection is switched back to primary DPM server.
Do you want to switch back protection of selected data sources to DPM1.CONTOSO.LOCAL?
ID: 31159
Yes
No
Help

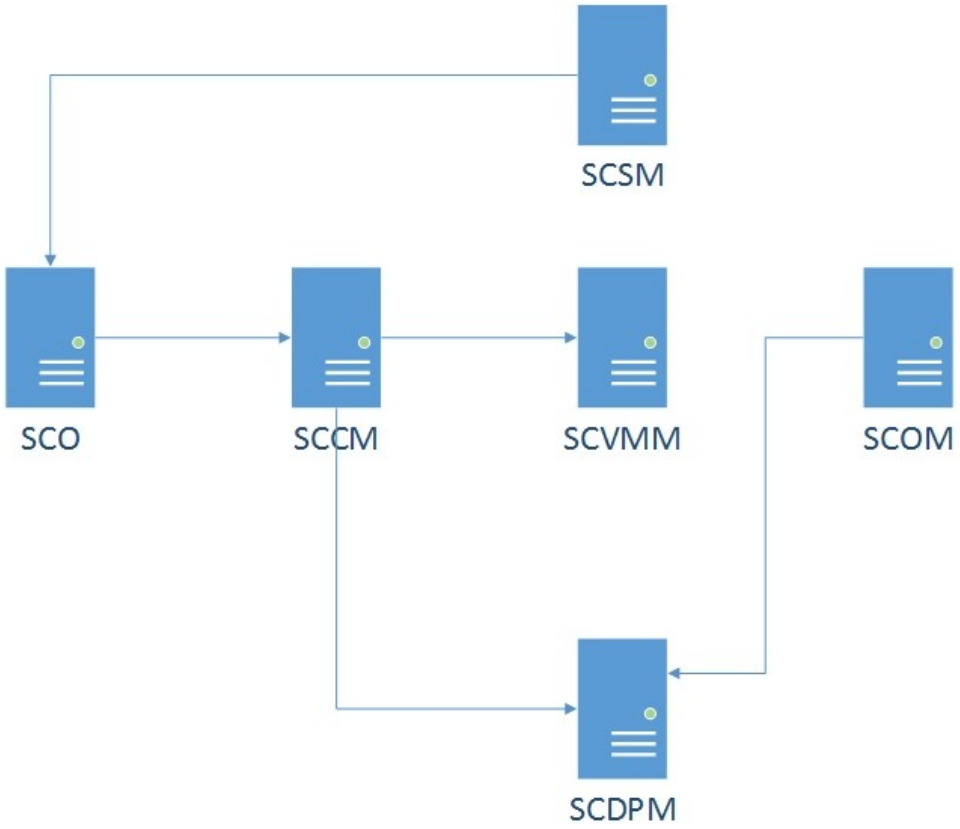

Recovery Wizard
Select Recovery Type
Select the type of recovery you want to perform.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recover replica to primary DPM server
DPM1.CONTOSO.LOCAL
Recover to the original location
Original location: C:\ on FILE01.CONTOSO.LOCAL
Recover to an alternate location
Alternate location:
Browse...
Copy to tape
This option copies the volume that contains the selected data to tape in a DPM library.
Note that the volume might also contain data that was not selected for recovery.
< Back
Next >
Cancel
Help

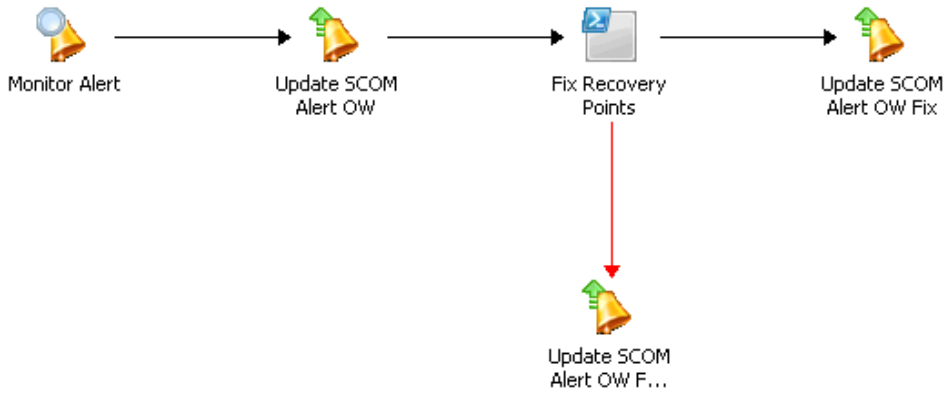

Recovery Wizard
Specify Recovery Options
Specify the options to apply to the recovery.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Network bandwidth usage throttling
Status: Disabled
Modify...
SAN Recovery
Enable SAN based recovery using hardware 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

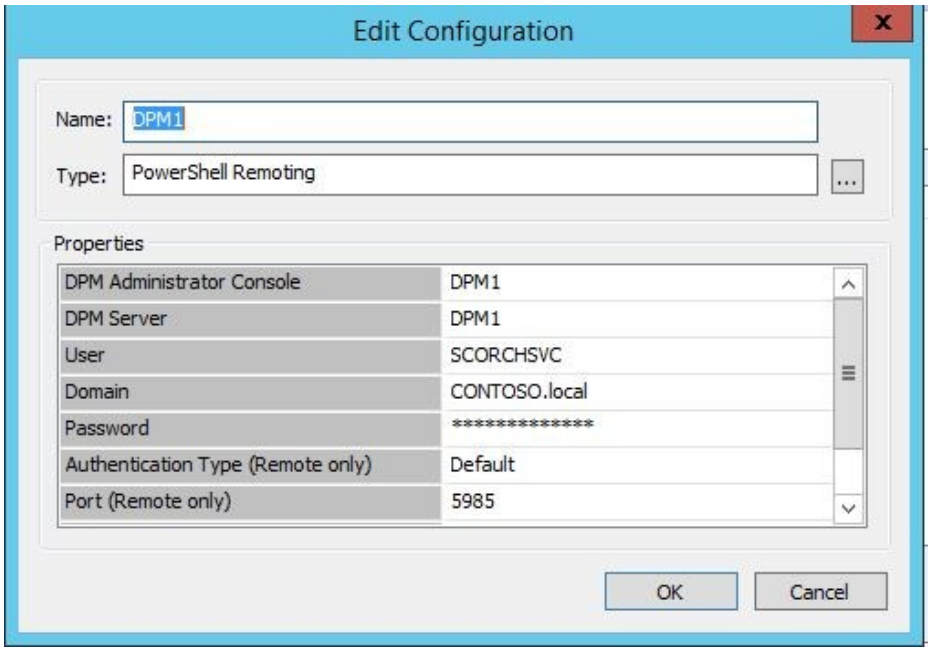

Recovery Wizard
Summary
Review your recovery settings.
Steps:
Review recovery selection
Select recovery type
Specify recovery options
Summary
Recovery status
Recovery point: 11/17/2014 12:55:27 PM
Recovery media: Disk
Source: C:\ on FILE01.CONTOSO.LOCAL
Destination: DPM1.CONTOSO.LOCAL
Notification: No
Recovery items
Details:
Recovery Items
Size
DPM.txt
43.07 MB
Total size: 43.07 MB
< Back
Recover
Cancel
Help

Microsoft System Center 2012 R2 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

Chapter 14


SCSM
SCO
SCCM
SCVMM
SCOM
SCDPM


Monitor Alert
Update SCOM Alert OW
Fix Recovery Points
Update SCOM Alert OW Fix
Update SCOM Alert OW F...


Edit Configuration
Name:
DPM1
Type:
PowerShell Remoting
...
Properties
DPM Administrator Console
DPM1
DPM Server
DPM1
User
SCORCHSVC
Domain
CONTOSO.local
Password
****
Authentication Type (Remote only)
Default
Port (Remote only)
5985
OK
Cancel

DPM
Management
Shell

Operations Manager
Microsoft System Center 2012 R2
Operations Manager
Install
Download the latest updates to the setup program
Optional Installations
Local agent
Audit collection services
Gateway management server
Audit Collection Services for UNIX/Linux
Additional Resources
Release Notes
Installation Guidance
Supported Configurations
Product Documentation
Operations Manager Community
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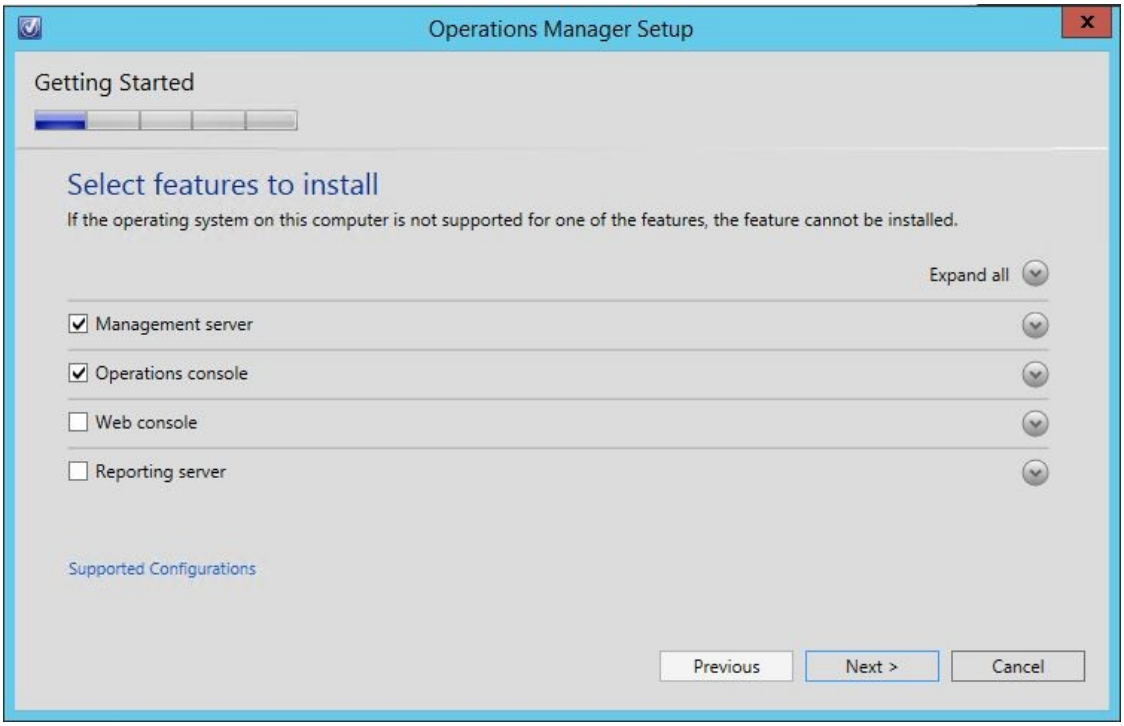
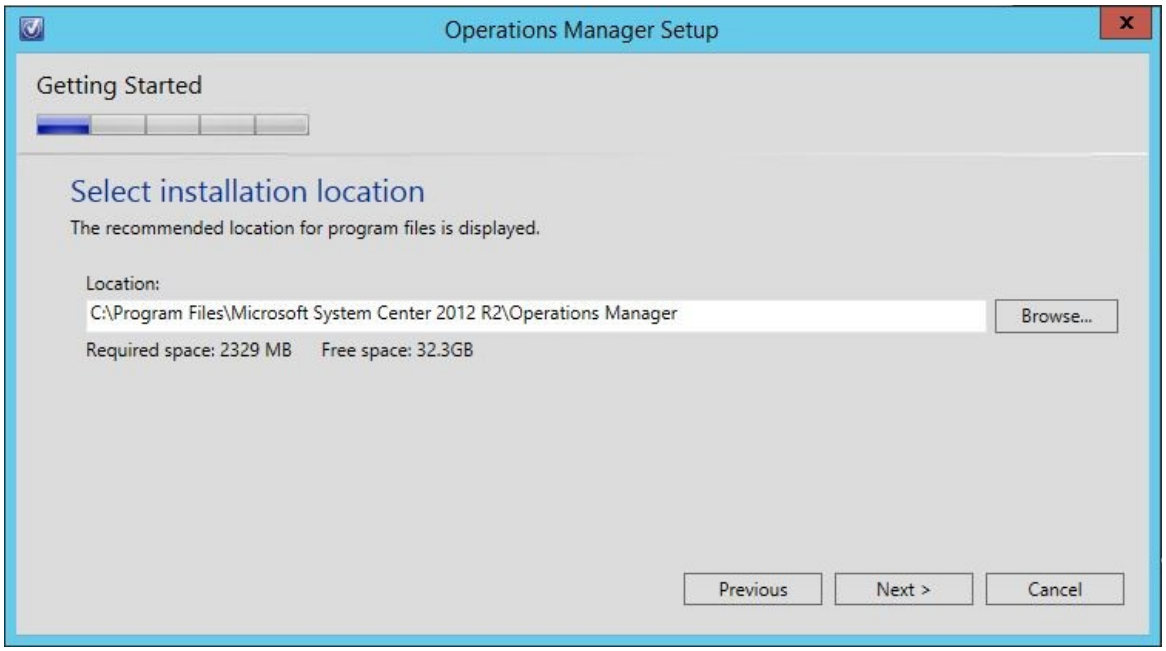
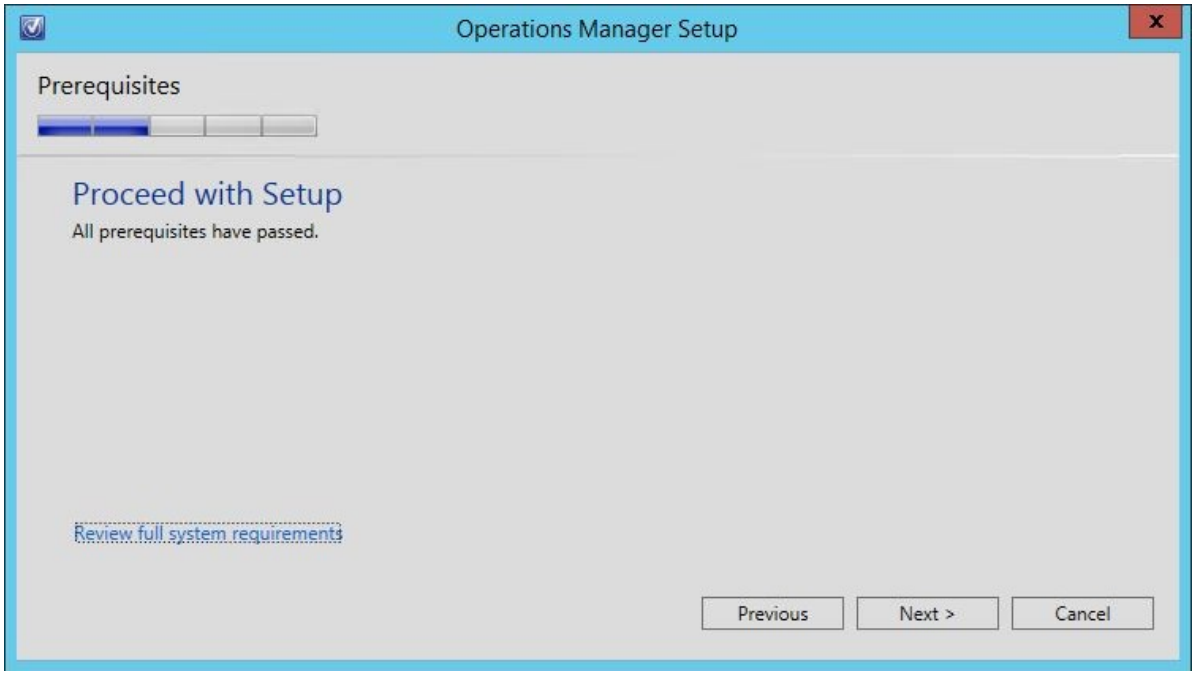
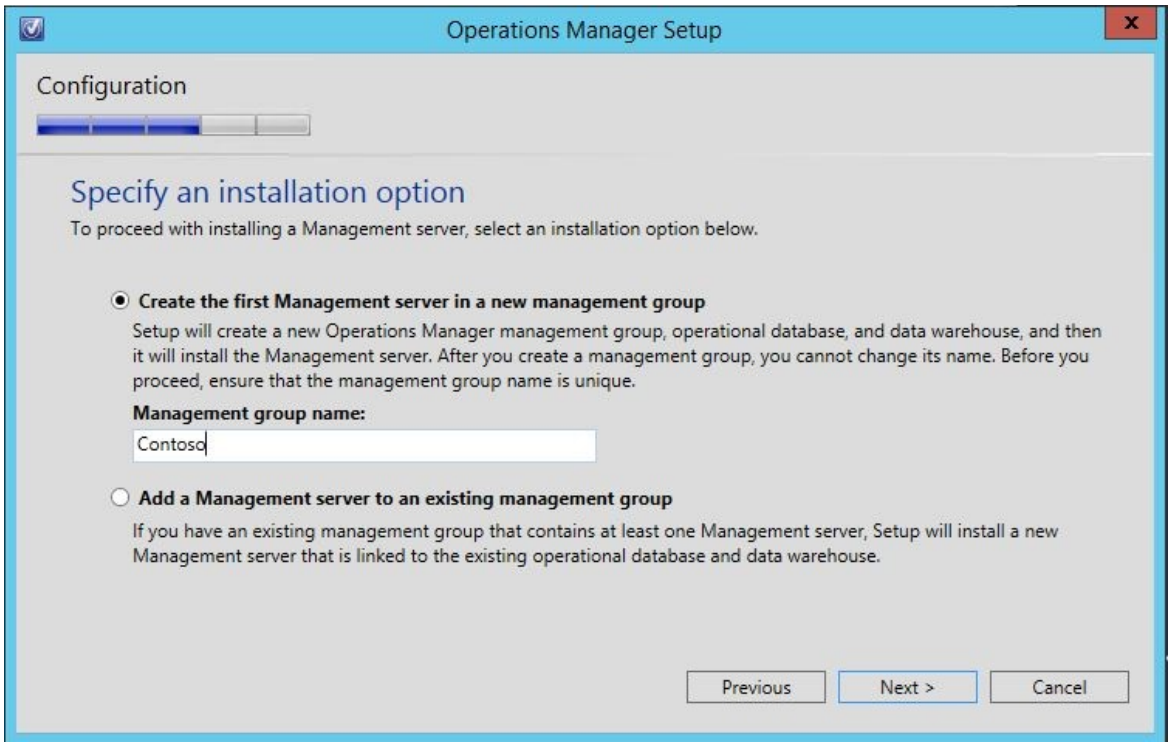
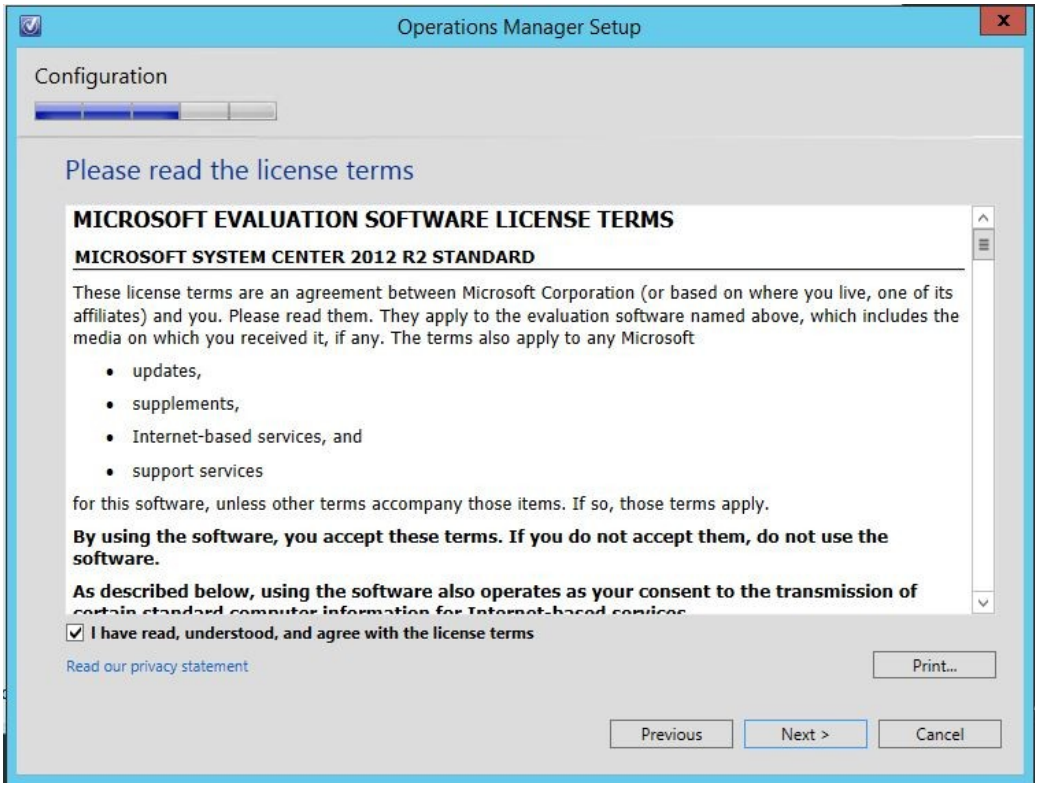
Exit


Operations Manager Setup
Getting Started
Select features to install
If the operating system on this computer is not supported for one of the features, the feature cannot be installed.
Expand all
Management server
Operations console
Web console
Reporting server
Supported Configurations
Previous
Next >
Cancel


Operations Manager Setup
Getting Started
Select installation location
The recommended location for program files is displayed.
Location:
C:\Program Files\Microsoft System Center 2012 R2\Operations Manager
Browse...
Required space: 2329 MB
Free space: 32.3GB
Previous
Next >
Cancel


Operations Manager Setup
Prerequisites
Proceed with Setup
All prerequisites have passed.
Review full system requirements
Previous
Next >
Cancel


Operations Manager Setup
Configuration
Specify an installation option
To proceed with installing a Management server, select an installation option below.
Create the first Management server in a new management group
Setup will create a new Operations Manager management group, operational database, and data warehouse, and then it will install the Management server. After you create a management group, you cannot change its name. Before you proceed, ensure that the management group name is unique.
Management group name:
Contoso
Add a Management server to an existing management group
If you have an existing management group that contains at least one Management server, Setup will install a new Management server that is linked to the existing operational database and data warehouse.
Previous
Next >
Cancel


Operations Manager Setup
Configuration
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MICROSOFT SYSTEM CENTER 2012 R2 STANDARD
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Internet-based services, and
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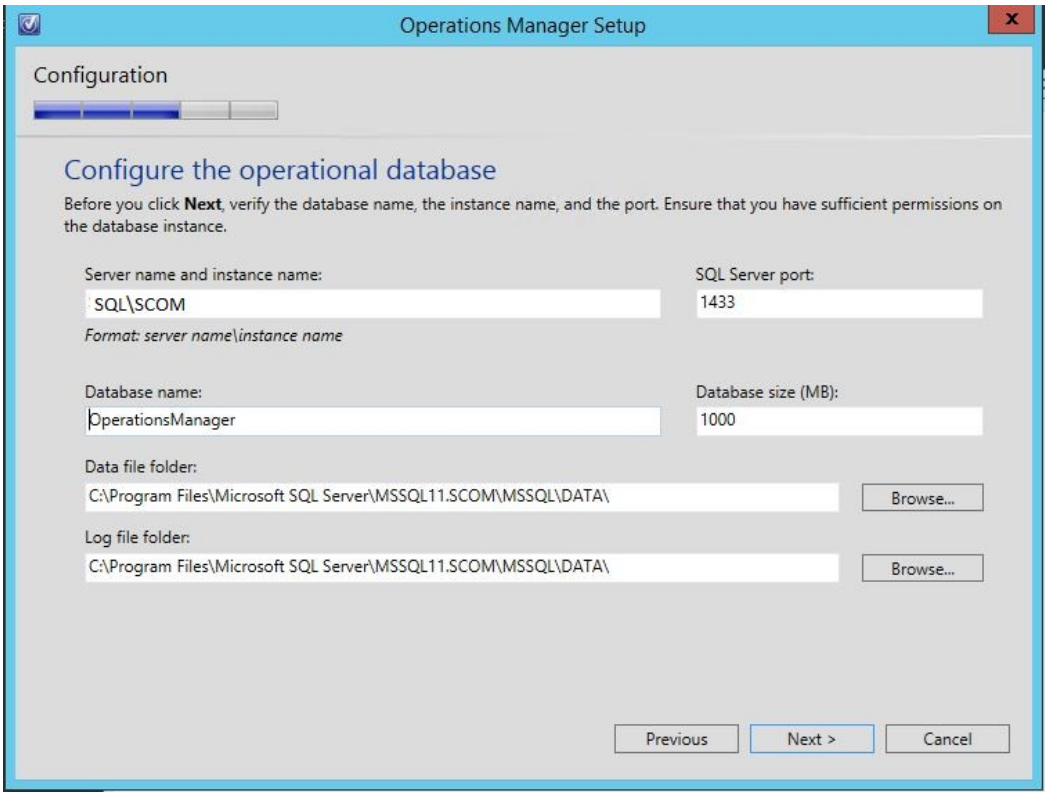
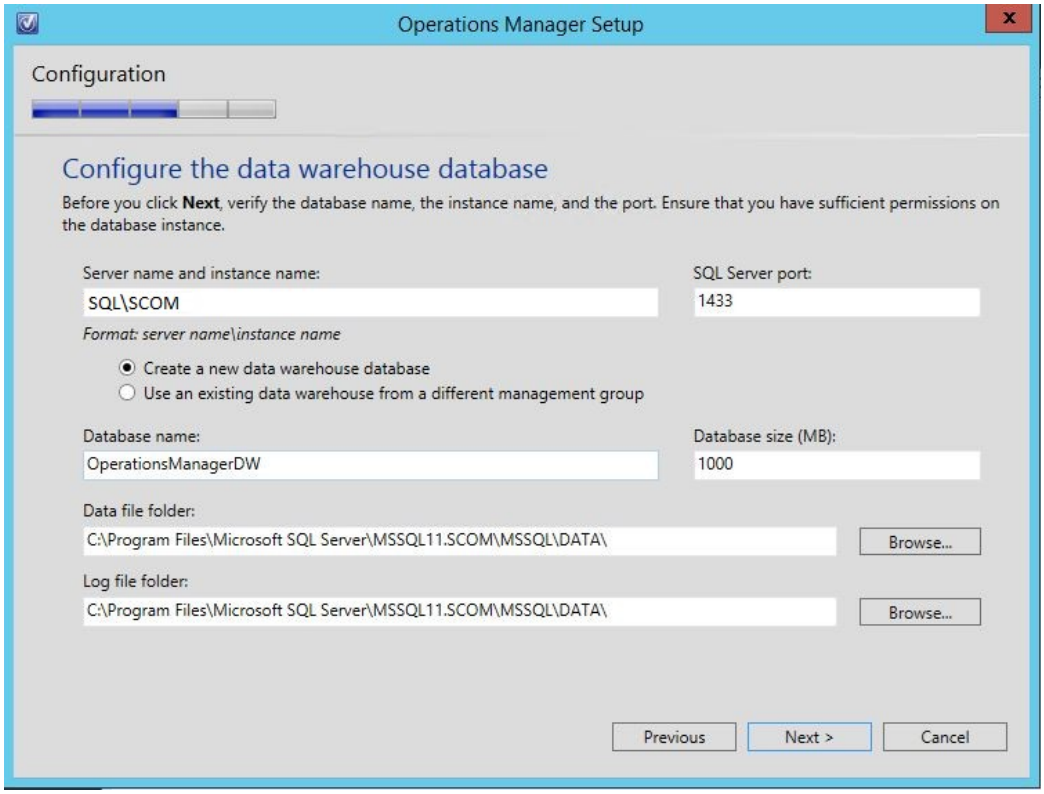
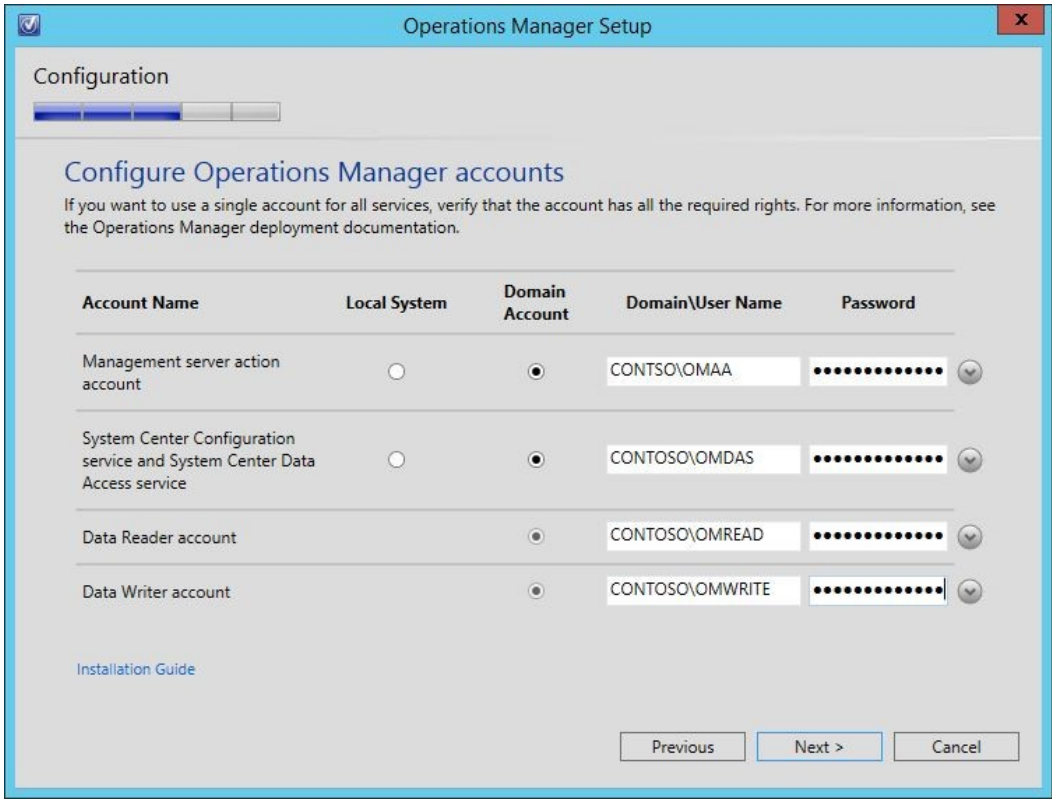
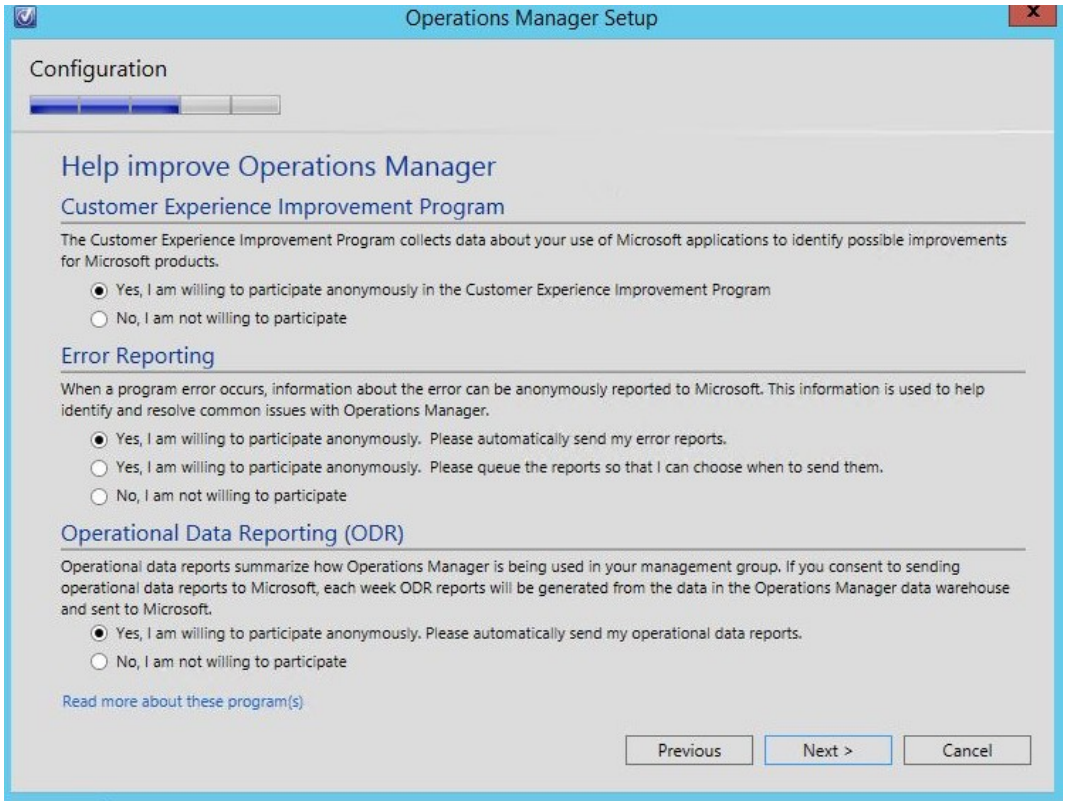
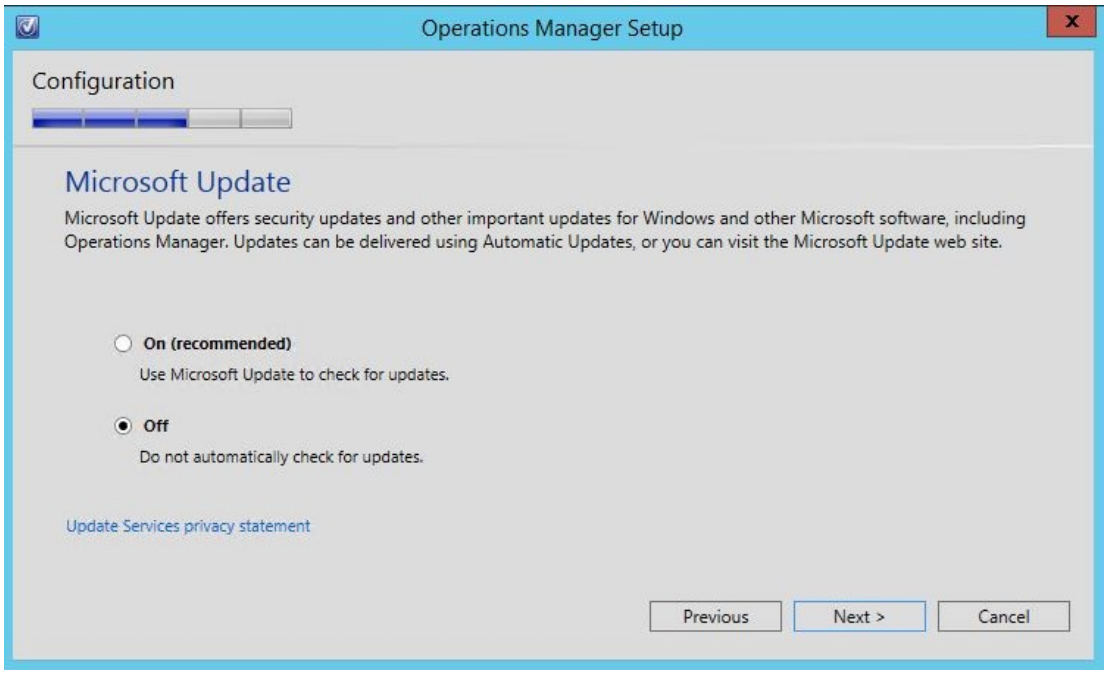
Read our privacy statement
Print...
Previous
Next >
Cancel

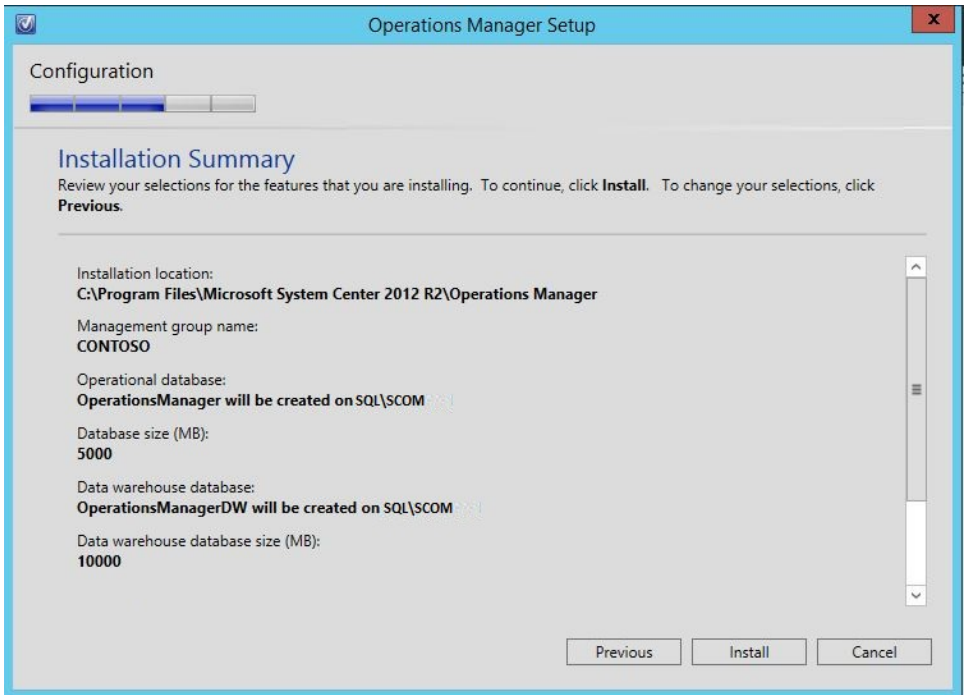

Operations Manager Setup
Configuration
Configure the operational database
Before you click Next, verify the database name, the instance name, and the port. Ensure that you have sufficient permissions on the database instance.
Server name and instance name:
SQL\SCOM
Format: server name\instance name
SQL Server port:
1433
Database name:
OperationsManager
Database size (MB):
1000
Data file folder:
C:\Program Files\Microsoft SQL Server\MSSQL11.SCOM\MSSQL\DATA\
Browse...
Log file folder:
C:\Program Files\Microsoft SQL Server\MSSQL11.SCOM\MSSQL\DATA\
Browse...
Previous
Next >
Cancel


Operations Manager Setup
Configuration
Configure the data warehouse database
Before you click Next, verify the database name, the instance name, and the port. Ensure that you have sufficient permissions on the database instance.
Server name and instance name:
SQL\SCOM
Format: server name\instance name
SQL Server port:
1433
Create a new data warehouse database
Use an existing data warehouse from a different management group
Database name:
OperationsManagerDW
Database size (MB):
1000
Data file folder:
C:\Program Files\Microsoft SQL Server\MSSQL11.SCOM\MSSQL\DATA\
Browse...
Log file folder:
C:\Program Files\Microsoft SQL Server\MSSQL11.SCOM\MSSQL\DATA\
Browse...
Previous
Next >
Cancel

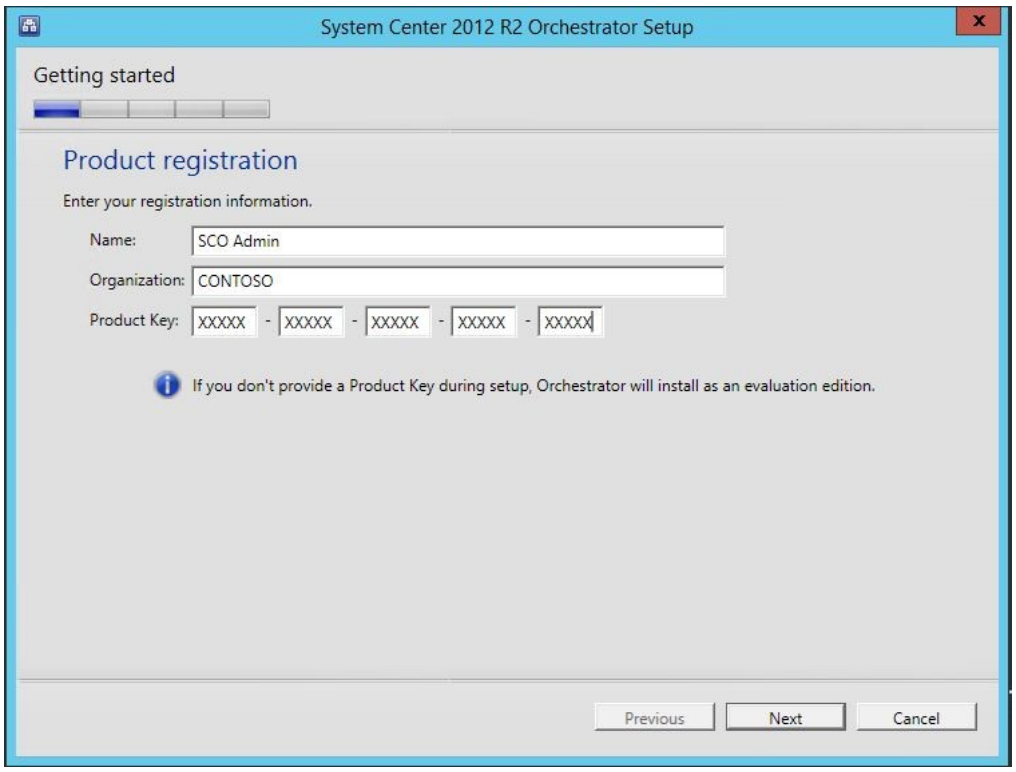

Operations Manager Setup
Configuration
Configure Operations Manager accounts
If you want to use a single account for all services, verify that the account has all the required rights. For more information, see the Operations Manager deployment documentation.
Account Name
Local System
Domain Account
Domain\User Name
Password
Management server action account
CONTSO\OMAA
System Center Configuration service and System Center Data Access service
CONTOSO\OMDAS
Data Reader account
CONTOSO\OMREAD
Data Writer account
CONTOSO\OMWRITE
Installation Guide
Previous
Next >
Cancel

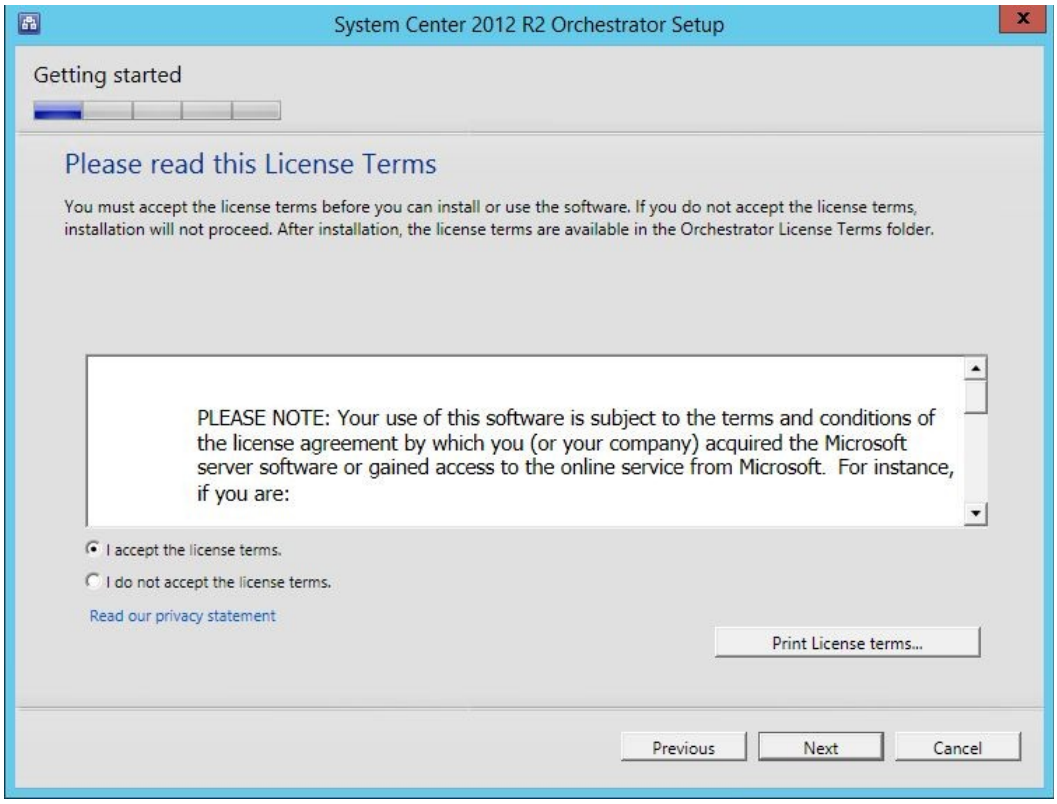

Operations Manager Setup
Configuration
Help improve Operations Manager
Customer Experience Improvement Program
The Customer Experience Improvement Program collects data about your use of Microsoft applications to identify possible improvements for Microsoft products.
Yes, I am willing to participate anonymously in the Customer Experience Improvement Program
No, I am not willing to participate
Error Reporting
When a program error occurs, information about the error can be anonymously reported to Microsoft. This information is used to help identify and resolve common issues with Operations Manager.
Yes, I am willing to participate anonymously. Please automatically send my error reports.
Yes, I am willing to participate anonymously. Please queue the reports so that I can choose when to send them.
No, I am not willing to participate
Operational Data Reporting (ODR)
Operational data reports summarize how Operations Manager is being used in your management group. If you consent to sending operational data reports to Microsoft, each week ODR reports will be generated from the data in the Operations Manager data warehouse and sent to Microsoft.
Yes, I am willing to participate anonymously. Please automatically send my operational data reports.
No, I am not willing to participate
Read more about these program(s)
Previous
Next >
Cancel


Operations Manager Setup
Configuration
Microsoft Update
Microsoft Update offers security updates and other important updates for Windows and other Microsoft software, including Operations Manager. Updates can be delivered using Automatic Updates, or you can visit the Microsoft Update web site.
On (recommended)
Use Microsoft Update to check for updates.
Off
Do not automatically check for updates.
Update Services privacy statement
Previous
Next >
Cancel


Operations Manager Setup
Configuration
Installation Summary
Review your selections for the features that you are installing. To continue, click Install. To change your selections, click Previous.
Installation location:
C:\Program Files\Microsoft System Center 2012 R2\Operations Manager
Management group name:
CONTOSO
Operational database:
OperationsManager will be created on SQL\SCOM
Database size (MB):
5000
Data warehouse database:
OperationsManagerDW will be created on SQL\SCOM
Data warehouse database size (MB):
10000
Previous
Install
Cancel

System Center 2012 R2 Orchestrator Setup
Microsoft System Center 2012 R2
Orchestrator
Install
Restart may be required
Before you begin
Standalone installations
Runbook Designer
Orchestration Console and Web Service
Runbook Server
Additional Resources
Release Notes
Deployment Guide
System Center Online
Obtain Installation Assistance
Service Management
Automation
Web Service
Runbook Worker
PowerShell Module
Standalone installations
Service Provider Foundation
Service Reporting


System Center 2012 R2 Orchestrator Setup
Getting started
Product registration
Enter your registration information.
Name:
SCO Admin
Organization:
CONTOSO
Product Key:
XXXXX - XXXXX - XXXXX - XXXXX - XXXXX
If you don't provide a Product Key during setup, Orchestrator will install as an evaluation edition.
Previous
Next
Cancel


System Center 2012 R2 Orchestrator Setup
Getting started
Please read this License Terms
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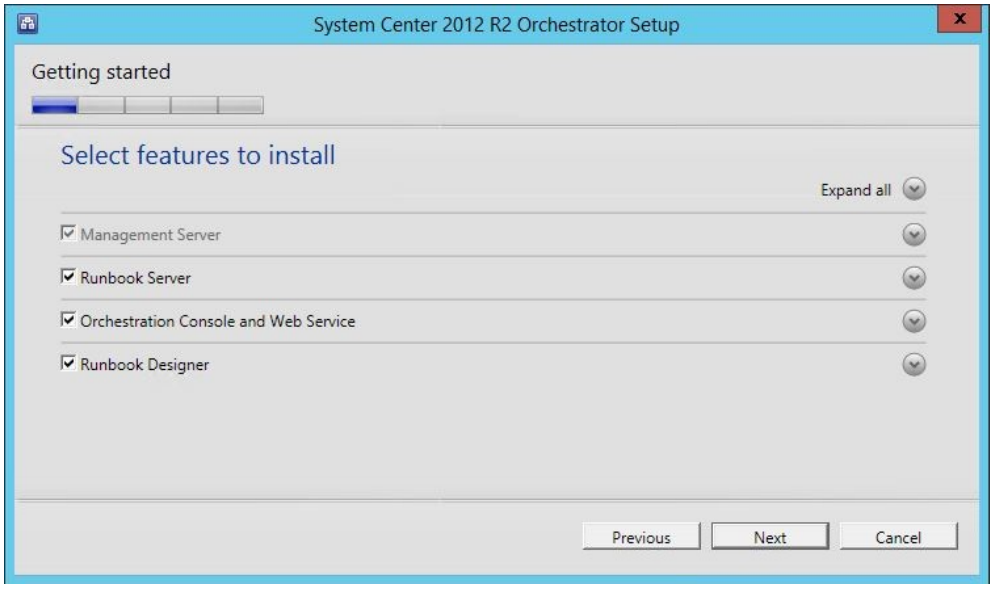
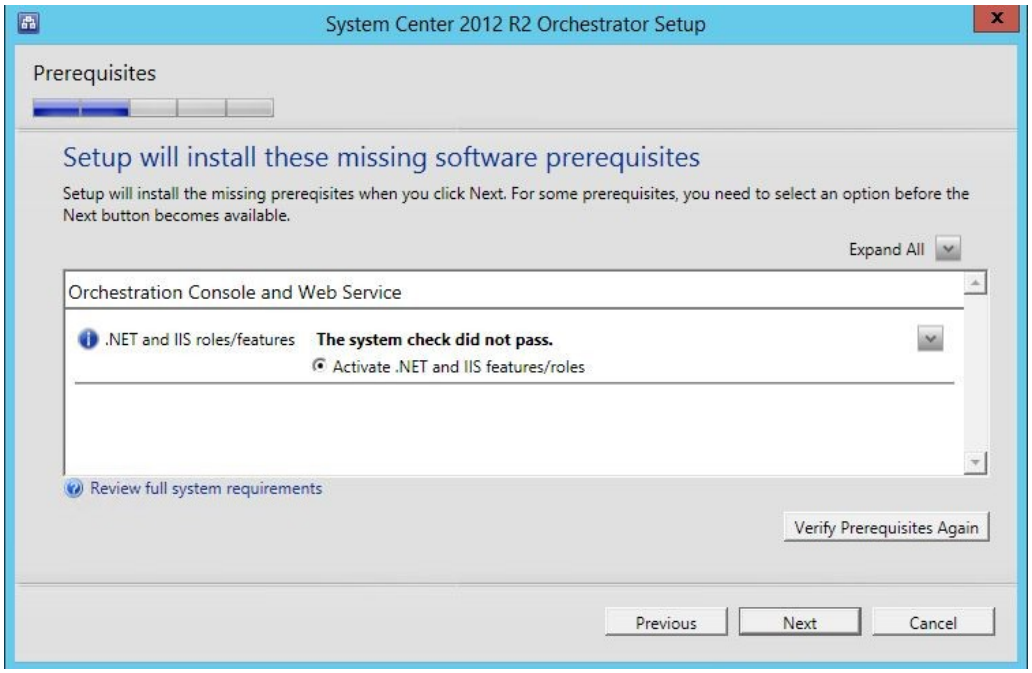
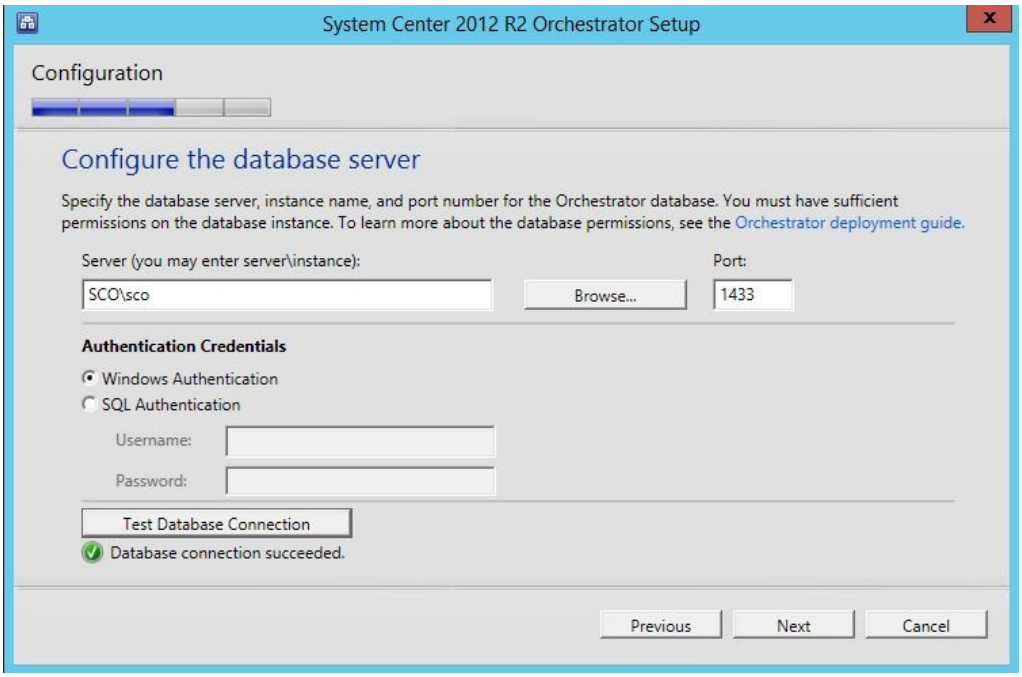
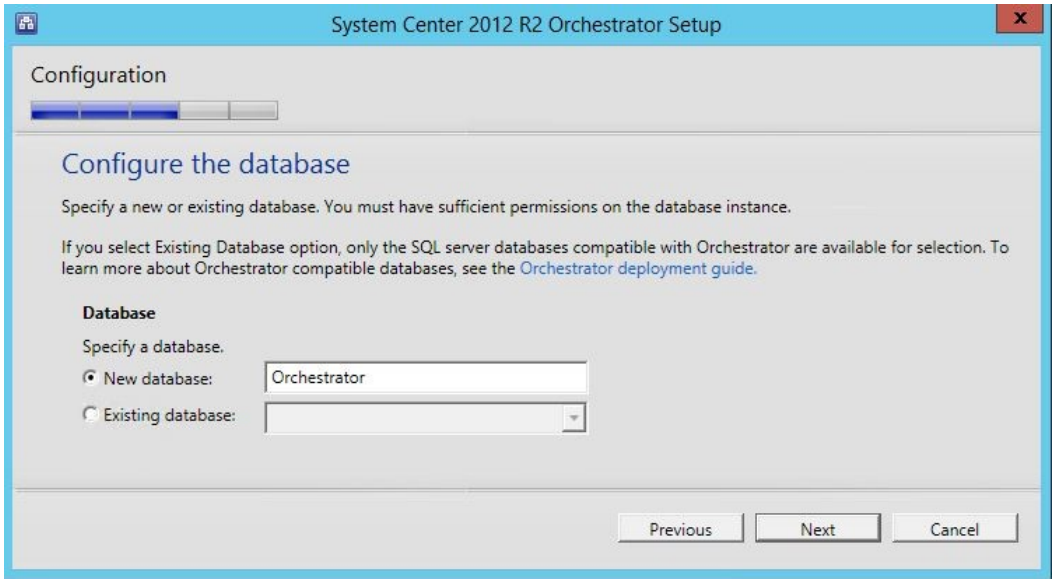
PLEASE NOTE: Your use of this software is subject to the terms and conditions of the license agreement by which you (or your company) acquired the Microsoft server software or gained access to the online service from Microsoft. For instance, if you are:
I accept the license terms.
I do not accept the license terms.
Read our privacy statement
Print License terms...
Previous
Next
Cancel


System Center 2012 R2 Orchestrator Setup
Getting started
Select features to install
Expand all
Management Server
Runbook Server
Orchestration Console and Web Service
Runbook Designer
Previous
Next
Cancel


System Center 2012 R2 Orchestrator Setup
Prerequisites
Setup will install these missing software prerequisites
Setup will install the missing prereqisites when you click Next. For some prerequisites, you need to select an option before the Next button becomes available.
Expand All
Orchestration Console and Web Service
.NET and IIS roles/features
The system check did not pass.
Activate .NET and IIS features/roles
Review full system requirements
Verify Prerequisites Again
Previous
Next
Cancel

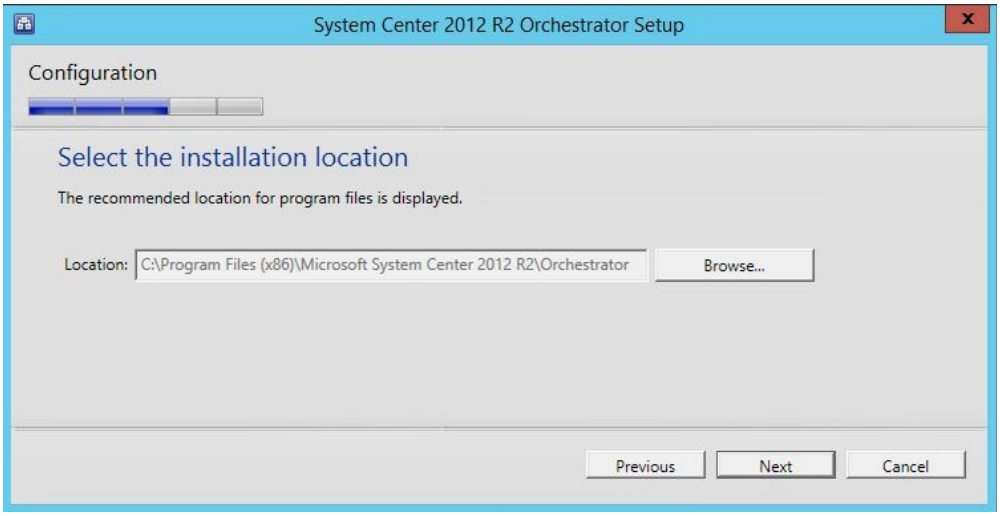
System Center 2012 R2 Orchestrator Setup
Configuration
Configure the service account
Enter the user account to use to run runbooks and access remote system resources. This account must have "Log on as a service" rights enabled. Orchestrator will enable this right if it is not already enabled.
As a security best practice, do not use a domain administrator account. To learn more about security best practices and how this account is configured to access Orchestrator database, see the Orchestrator deployment guide.
Username (you may enter domain\username):
contoso/scorchsvc
Password:
Domain:
CONTOSO
Test
Previous
Next
Cancel


System Center 2012 R2 Orchestrator Setup
Configuration
Configure the database server
Specify the database server, instance name, and port number for the Orchestrator database. You must have sufficient permissions on the database instance. To learn more about the database permissions, see the Orchestrator deployment guide.
Server (you may enter server\instance):
SCO\sco
Browse...
Port:
1433
Authentication Credentials
Windows Authentication
SQL Authentication
Username:
Password:
Test Database Connection
Database connection succeeded.
Previous
Next
Cancel

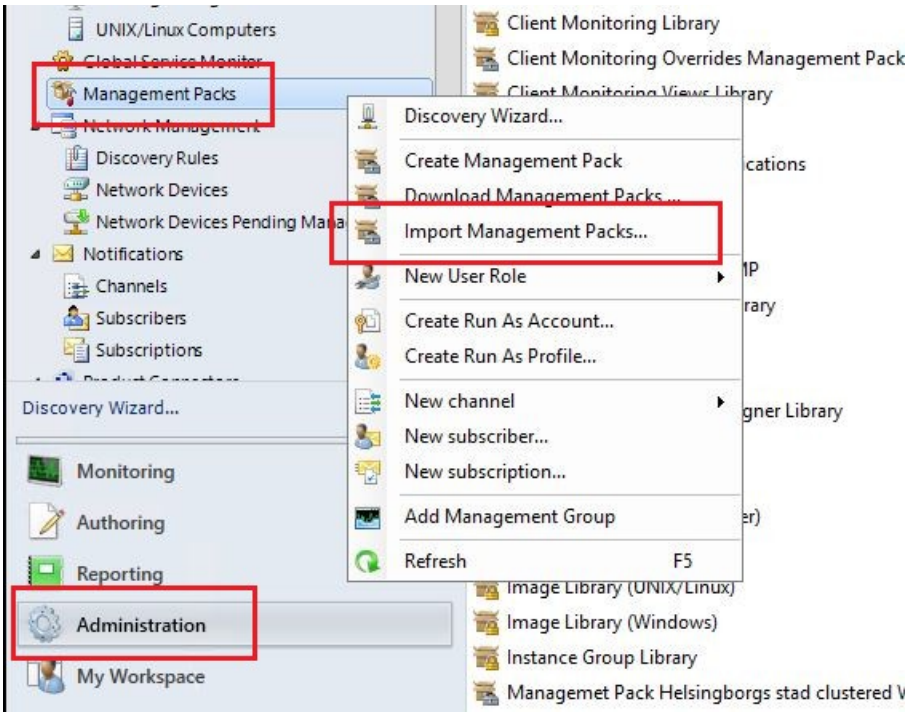

System Center 2012 R2 Orchestrator Setup
Configuration
Configure the database
Specify a new or existing database. You must have sufficient permissions on the database instance.
If you select Existing Database option, only the SQL server databases compatible with Orchestrator are available for selection. To learn more about Orchestrator compatible databases, see the Orchestrator deployment guide.
Database
Specify a database.
New database:
Orchestrator
Existing database:
Previous
Next
Cancel

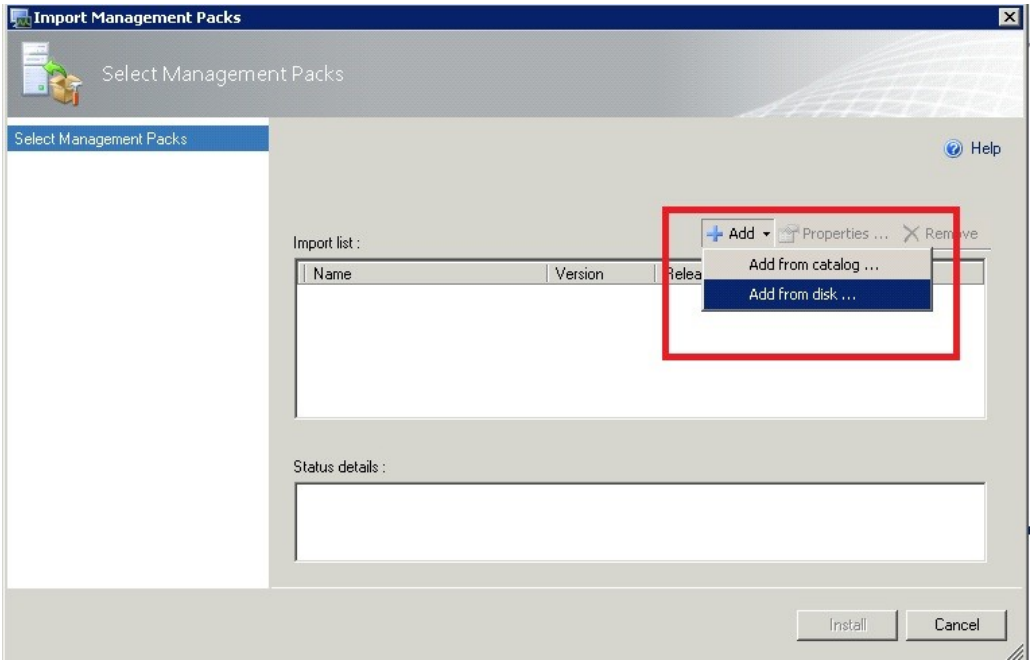
System Center 2012 R2 Orchestrator Setup
Configuration
Configure Orchestrator users group
Select a group whose members will have access to the Runbook Designer and Deployment Manager. This can be a local group but recommend to be an Active Directory group so that it can be centrally managed. If the group does not exist, then it will be created and the current user account added to it.
Members of this group have administrative access to Orchestrator and have access to all configuration and data stored in the Orchestrator database, including encrypted data.
Orchestrator users group:
CONTOSO\ScorchUsers
Browse...
Optionally you can grant this group the permission to use the Runbook Designer from a computer other than the Management server. To learn more about the changes that will be made to the Management server, see Orchestrator Deployment Guide.
Grant remote access to the Runbook Designer.
Previous
Next
Cancel

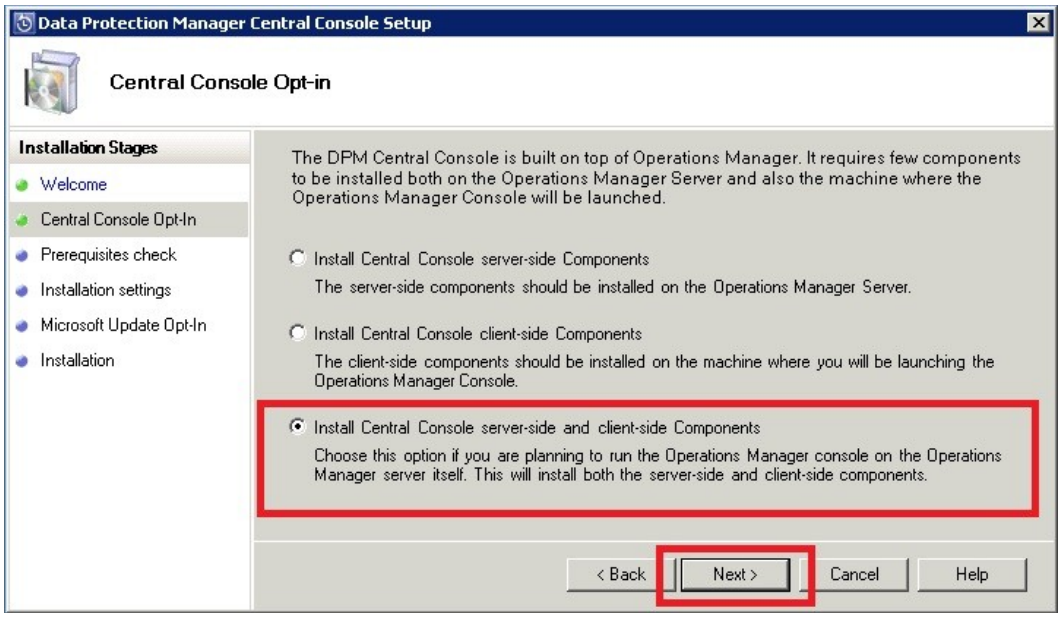
System Center 2012 R2 Orchestrator Setup
Configuration
Configure the ports for the web services
Choose an available port on the local computer where the web service is being installed. This port number will be used to create a new website in Internet Information Services (IIS) to host the web service application.
To learn more about how these ports will be used, see the Orchestrator deployment guide.
Web service port:
81
Orchestration console port:
82
Previous
Next
Cancel

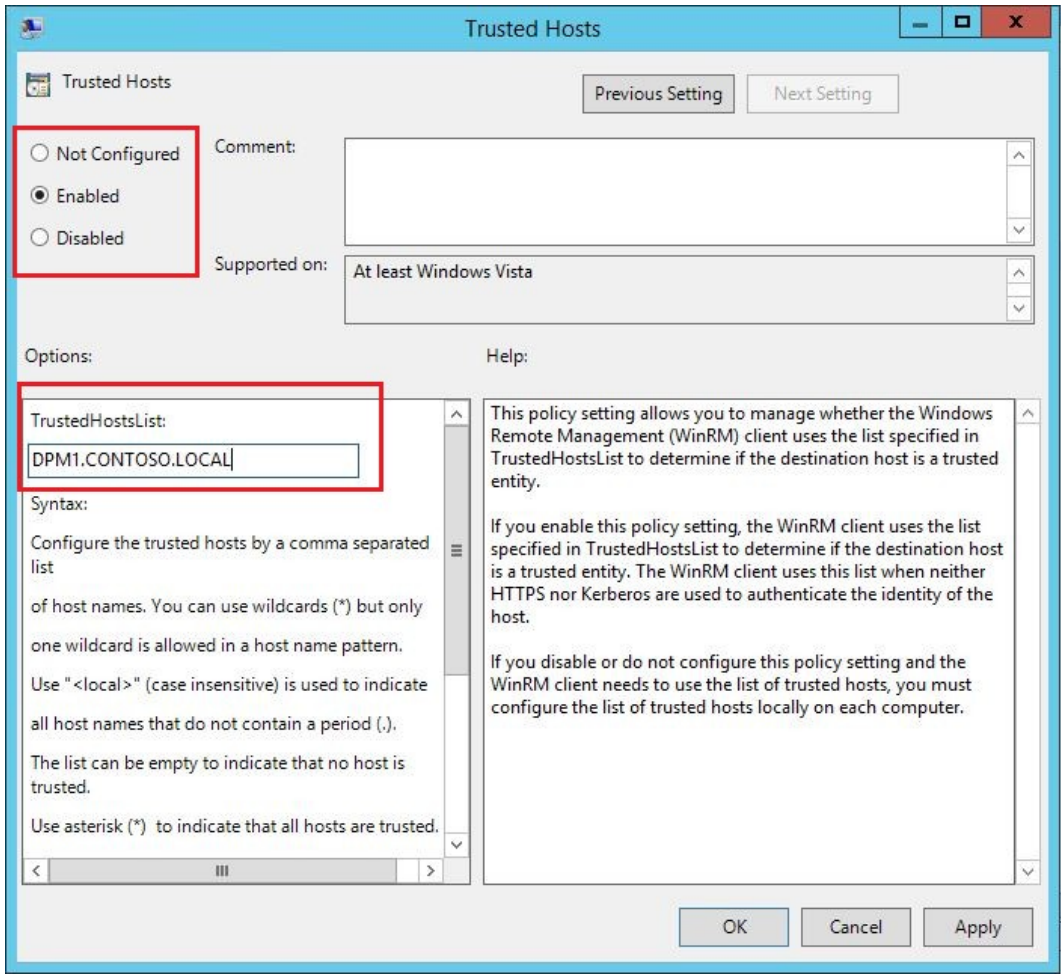

System Center 2012 R2 Orchestrator Setup
Configuration
Select the installation location
The recommended location for program files is displayed.
Location:
C:\Program Files (x86)\Microsoft System Center 2012 R2\Orchestrator
Browse...
Previous
Next
Cancel

System Center 2012 R2 Orchestrator Setup
Microsoft Update
Microsoft Update
Microsoft Update offers security updates and other important updates for Windows and other Microsoft software, including System Center Orchestrator. Updates can be delivered using Automatic Updates, or you can visit the Microsoft Update Web site.
On (recommended)
Use Microsoft Update to check for updates
Off
Do not automatically check for updates
Read the Microsoft Update FAQ
Read the Microsoft Update privacy statement
Read our privacy statement
Previous
Next
Cancel


UNIX/Linux Computers
Global Service Monitor
Management Packs
Network Management
Discovery Rules
Network Devices
Network Devices Pending Mana
Notifications
Channels
Subscribers
Subscriptions
Discovery Wizard...
Monitoring
Authoring
Reporting
Administration
My Workspace
Discovery Wizard...
Create Management Pack
Download Management Packs ...
Import Management Packs...
New User Role
Create Run As Account...
Create Run As Profile...
New channel
New subscriber...
New subscription...
Add Management Group
Refresh F5
Client Monitoring Library
Client Monitoring Overrides Management Pack
Image Library (UNIX/Linux)
Image Library (Windows)
Instance Group Library
Managemet Pack Helsingborgs stad clustered


Import Management Packs
Select Management Packs
Select Management Packs
Help
Import list :
Add
Properties ...
Remove
Name
Version
Add from catalog ...
Add from disk ...
Status details :
Install
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


Trusted Hosts
Trusted Hosts
Previous Setting
Next Setting
Not Configured
Enabled
Disabled
Comment:
Supported on:
At least Windows Vista
Options:
Help:
TrustedHostsList:
DPM1.CONTOSO.LOCAL
Syntax:
Configure the trusted hosts by a comma separated list
of host names. You can use wildcards (*) but only
one wildcard is allowed in a host name pattern.
Use "<local>" (case insensitive) is used to indicate
all host names that do not contain a period (.).
The list can be empty to indicate that no host is trusted.
Use asterisk (*) to indicate that all hosts are trusted.
This policy setting allows you to manage whether the Windows Remote Management (WinRM) client uses the list specified in TrustedHostsList to determine if the destination host is a trusted entity.
If you enable this policy setting, the WinRM client uses the list specified in TrustedHostsList to determine if the destination host is a trusted entity. The WinRM client uses this list when neither HTTPS nor Kerberos are used to authenticate the identity of the host.
If you disable or do not configure this policy setting and the WinRM client needs to use the list of trusted hosts, you must configure the list of trusted hosts locally on each computer.
OK
Cancel
Apply