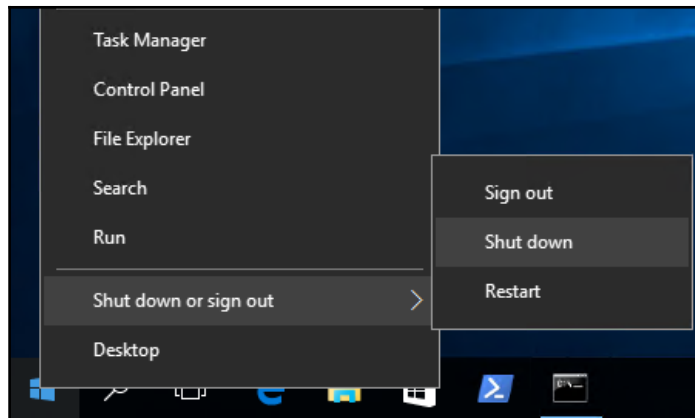
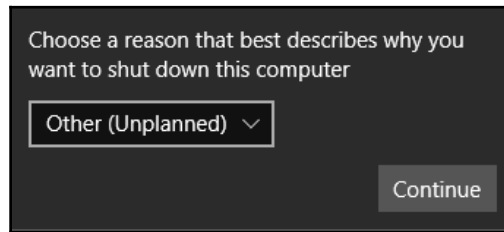
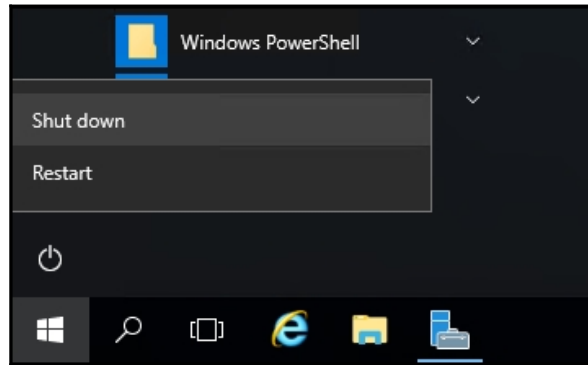
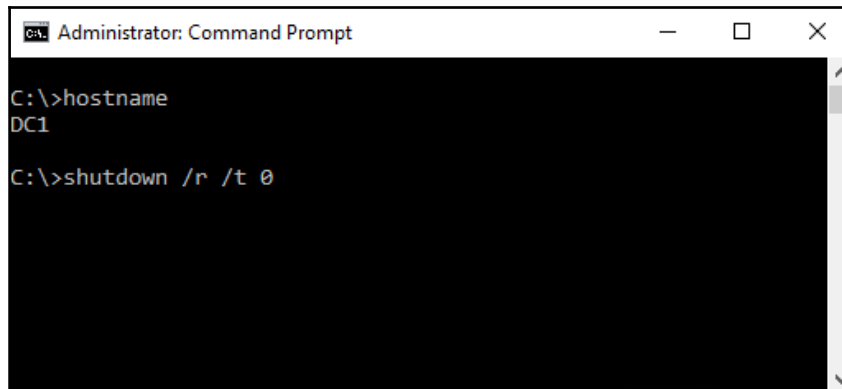


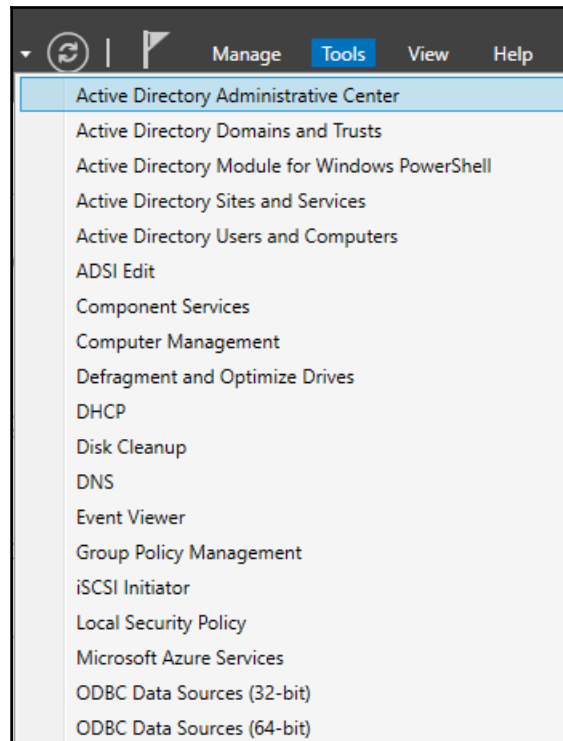
# Chapter 1: Learning the Interface

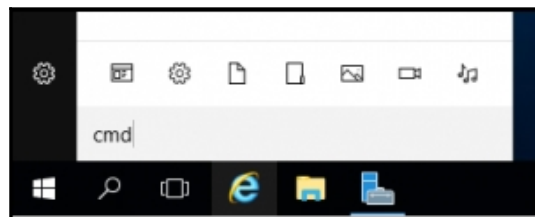
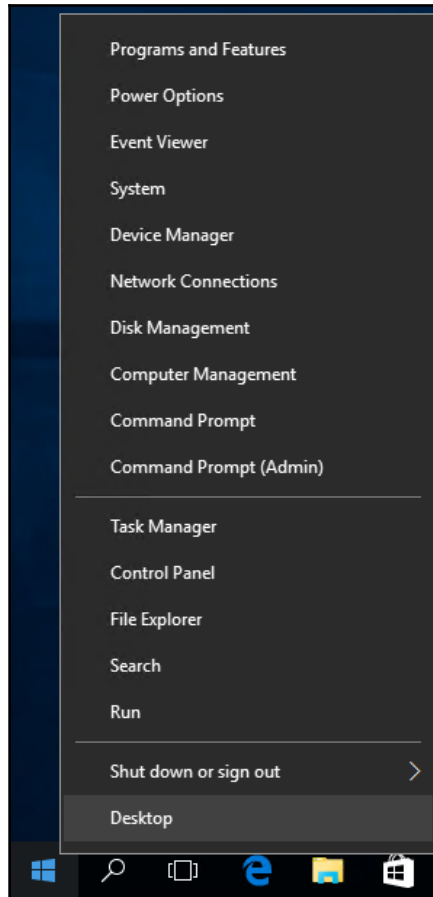


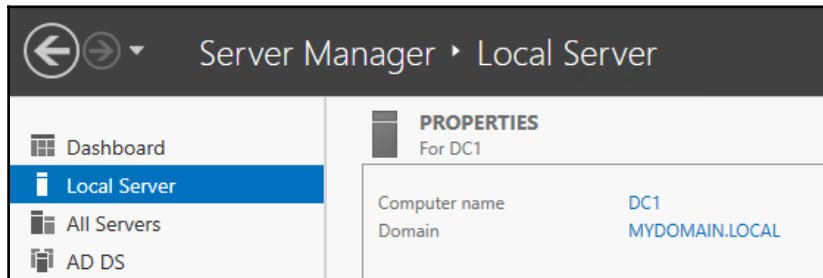
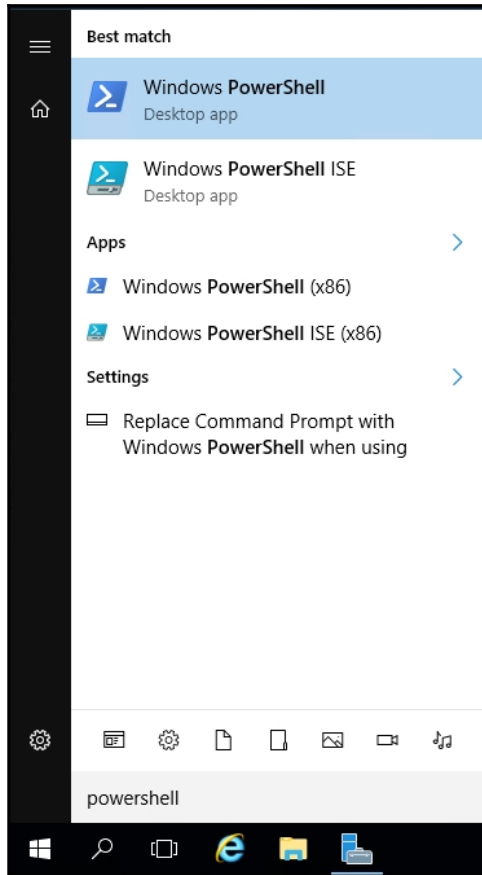


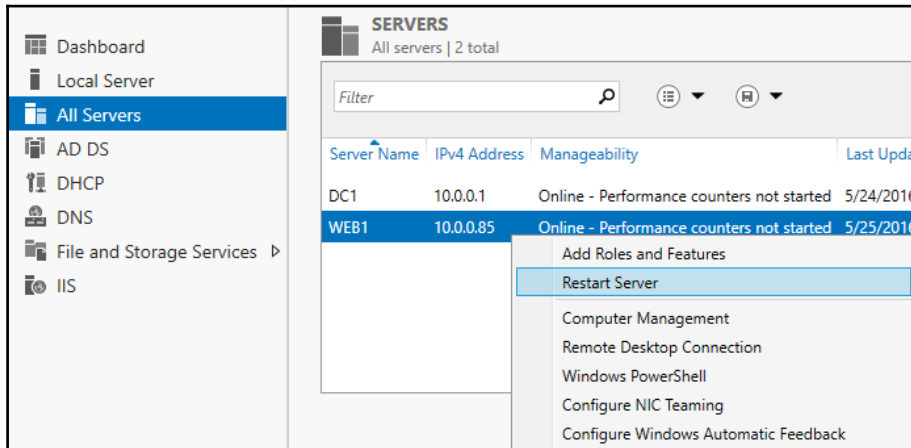
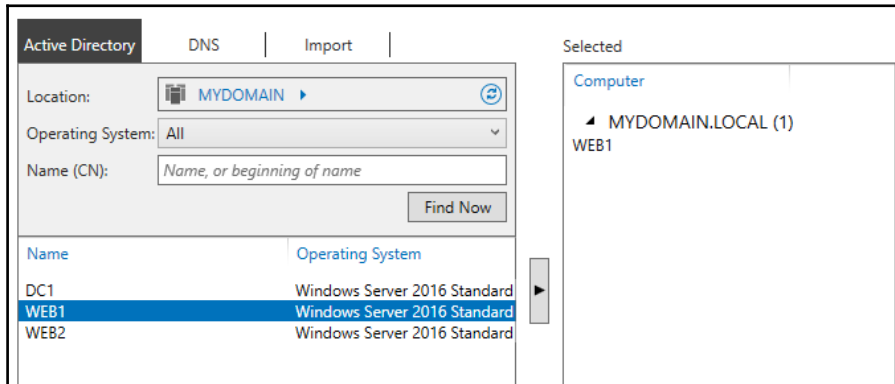
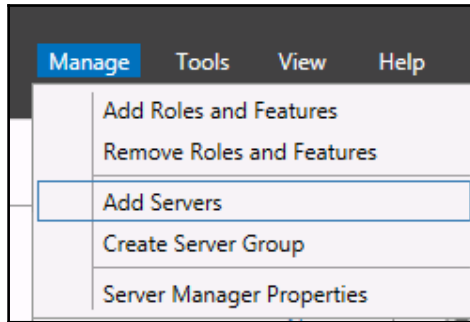
Administrator: Command Prompt

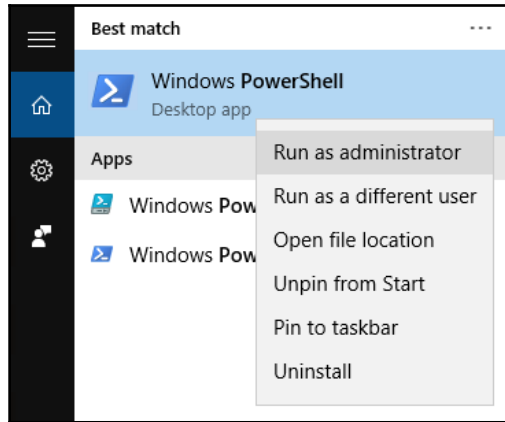
```
C:\>hostname  
DC1  
  
C:\>shutdown /r /t 0
```











A screenshot of an Administrator Windows PowerShell terminal window. The command `Get-NetIPAddress` has been executed, and the output shows details for two network interfaces. The first interface has an IPv6 address `fe80::79a1:f04f:406e:f589%2` and an infinite lifetime. The second interface has an IPv6 address `fe80::5efe:10.0.0.85%4`, interface index 4, and is associated with the alias `isatap.MYDOMAIN.LOCAL`.

```
Administrator: Windows PowerShell
PS C:\> Get-NetIPAddress

IPAddress      : fe80::79a1:f04f:406e:f589%2
ValidLifetime  : Infinite ([TimeSpan]::MaxValue)
PreferredLifetime : Infinite ([TimeSpan]::MaxValue)
SkipAsSource   : False
PolicyStore    : ActiveStore

IPAddress      : fe80::5efe:10.0.0.85%4
InterfaceIndex : 4
InterfaceAlias : isatap.MYDOMAIN.LOCAL
AddressFamily  : IPv6
Type           : Unicast
PrefixLength   : 128
PolicyStore    : ActiveStore
```

```
Administrator: Windows PowerShell
PS C:\> Get-NetIPAddress -AddressFamily IPv4

IPAddress      : 10.0.0.85
InterfaceIndex : 2
InterfaceAlias : Ethernet
AddressFamily  : IPv4
Type           : Unicast
PrefixLength   : 24
PrefixOrigin   : Dhcp
SuffixOrigin   : Dhcp
AddressState   : Preferred
ValidLifetime  : 5.23:17:10
PreferredLifetime : 5.23:17:10
SkipAsSource   : False
PolicyStore    : ActiveStore
```

Select a server or a virtual hard disk on which to install roles and features.

Select a server from the server pool  
 Select a virtual hard disk

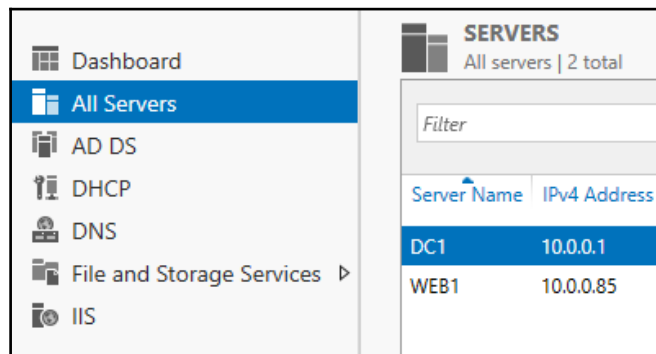
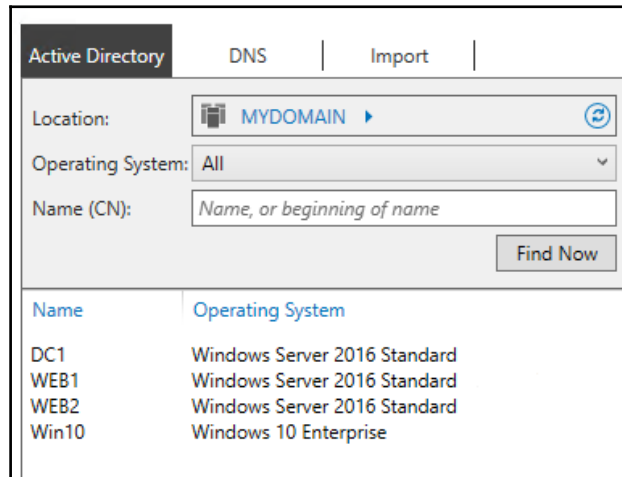
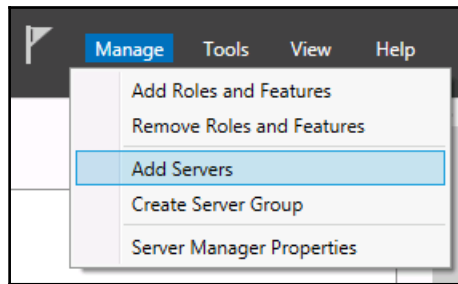
Server Pool

Filter:

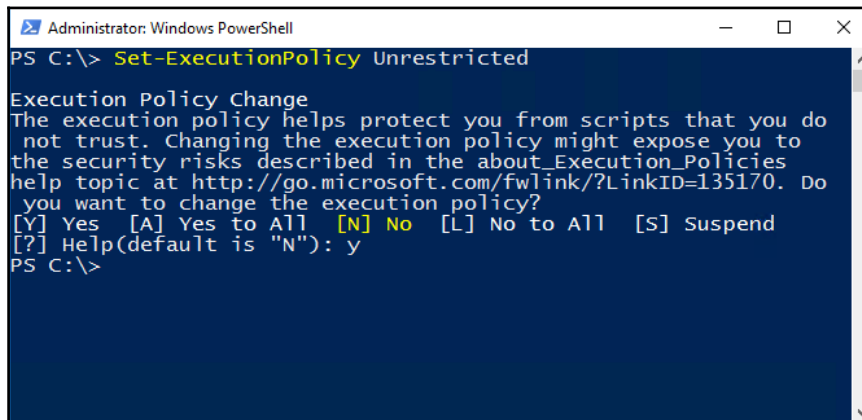
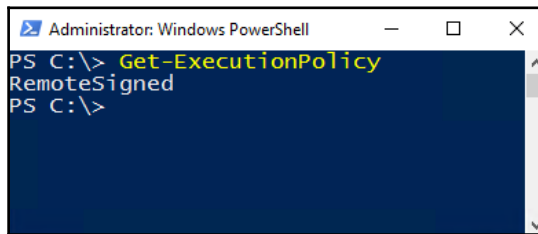
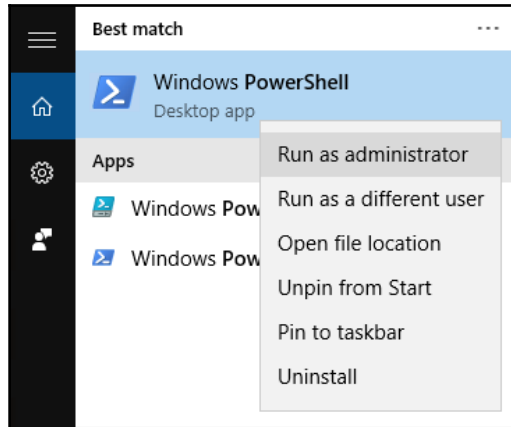
Name	IP Address	Operating System
WEB1.MYDOMAIN.LOCAL	10.0.0.85	Microsoft Windows Server 2016 Standard
DC1.MYDOMAIN.LOCAL	10.0.0.1	Microsoft Windows Server 2016 Standard

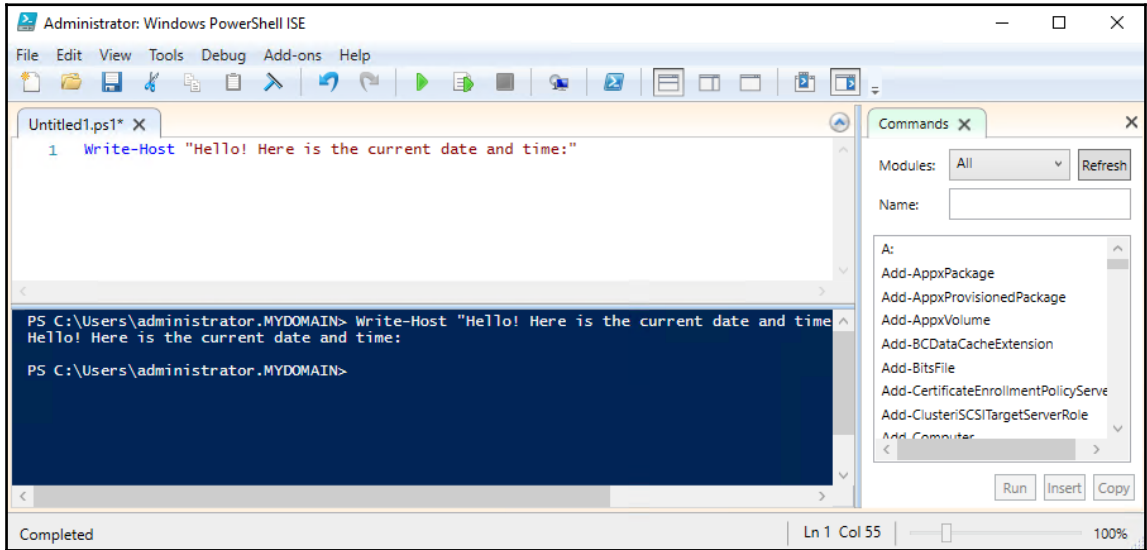
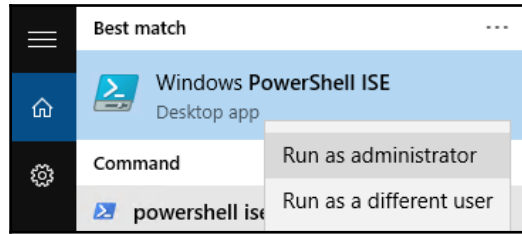
< >

2 Computer(s) found









```
1 Write-Host "Hello! Here is the current date and time:"
2 Get-Date
3 Write-Host "The name of your computer is:"
4 hostname
```

Hello! Here is the current date and time:  
Thursday, May 26, 2016 4:45:15 AM  
The name of your computer is:  
WEB1

PS C:\Users\administrator.MYDOMAIN>

```
Administrator: Windows PowerShell
PS C:\users\administrator.MYDOMAIN\Desktop> .\Time.ps1
Hello! Here is the current date and time:
Thursday, May 26, 2016 4:49:46 AM
The name of your computer is:
WEB1
PS C:\users\administrator.MYDOMAIN\Desktop>
```

```
Administrator: Windows PowerShell
PS C:\> Get-Help Computer

Name                Category  Module  Synopsis
-----
Add-Computer        Cmdlet    Microsoft.PowerShell.M...
Checkpoint-Computer Cmdlet    Microsoft.PowerShell.M...
Disable-ComputerRestore Cmdlet    Microsoft.PowerShell.M...
Enable-ComputerRestore Cmdlet    Microsoft.PowerShell.M...
Get-ComputerRestorePoint Cmdlet    Microsoft.PowerShell.M...
Remove-Computer     Cmdlet    Microsoft.PowerShell.M...
Rename-Computer     Cmdlet    Microsoft.PowerShell.M...
Reset-ComputerMachinePassword Cmdlet    Microsoft.PowerShell.M...
Restart-Computer    Cmdlet    Microsoft.PowerShell.M...
Restore-Computer    Cmdlet    Microsoft.PowerShell.M...
Stop-Computer       Cmdlet    Microsoft.PowerShell.M...
Test-ComputerSecureChannel Cmdlet    Microsoft.PowerShell.M...
Get-MpComputerStatus Function   Defender
Get-SilComputer     Function   SoftwareInventoryLogging
Get-SilComputerIdentity Function   SoftwareInventoryLogging

PS C:\>
```

```
Administrator: Windows PowerShell
PS C:\> Get-Help Restart-Computer

NAME
Restart-Computer

SYNTAX
Restart-Computer [[-ComputerName] <string[]>] [[-Credential]
<pscredential>] [-DcomAuthentication {Default | None | Connect | Call |
Packet | PacketIntegrity | PacketPrivacy | Unchanged}] [-Impersonation
{Default | Anonymous | Identify | Impersonate | Delegate}]
[-wsmanAuthentication {Default | Basic | Negotiate | CredSSP | Digest |
Kerberos}] [-Protocol {DCOM | WsMan}] [-Force] [-Wait] [-Timeout <int>]
[-For {Wmi | WinRM | PowerShell}] [-Delay <int16>] [-WhatIf] [-Confirm]
[<CommonParameters>]

Restart-Computer [[-ComputerName] <string[]>] [[-Credential]
<pscredential>] [-AsJob] [-DcomAuthentication {Default | None | Connect |
Call | Packet | PacketIntegrity | PacketPrivacy | Unchanged}]
Delegate}] [-Force] [-ThrottleLimit <int>] [-WhatIf] [-Confirm]
[<CommonParameters>]
```

## Chapter 2: Core Infrastructure Tasks

Roles

- Active Directory Certificate Services
- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server

Add Roles and Features Wizard

Add features that are required for Active Directory Domain Services?

You cannot install Active Directory Domain Services unless the following role services or features are also installed.

- [Tools] Group Policy Management
- ▲ Remote Server Administration Tools
  - ▲ Role Administration Tools
    - ▲ AD DS and AD LDS Tools
      - Active Directory module for Windows PowerShell
      - ▲ AD DS Tools
        - [Tools] Active Directory Administrative Center
        - [Tools] AD DS Snap-Ins and Command-Line Tools

Include management tools (if applicable)

Add Features Cancel

# Installation progress

- Before You Begin
- Installation Type
- Server Selection
- Server Roles
- Features
- AD DS
- DHCP Server
- DNS Server
- Confirmation
- Results**

## View installation progress

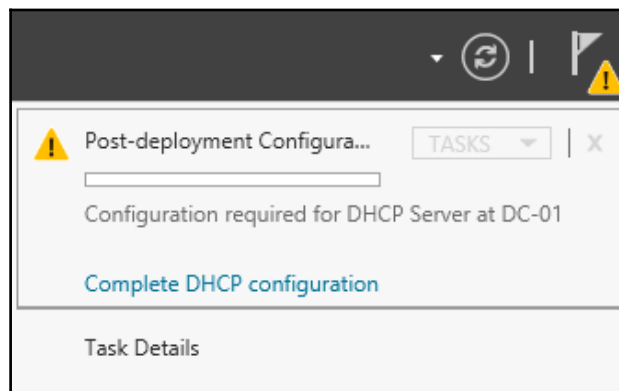
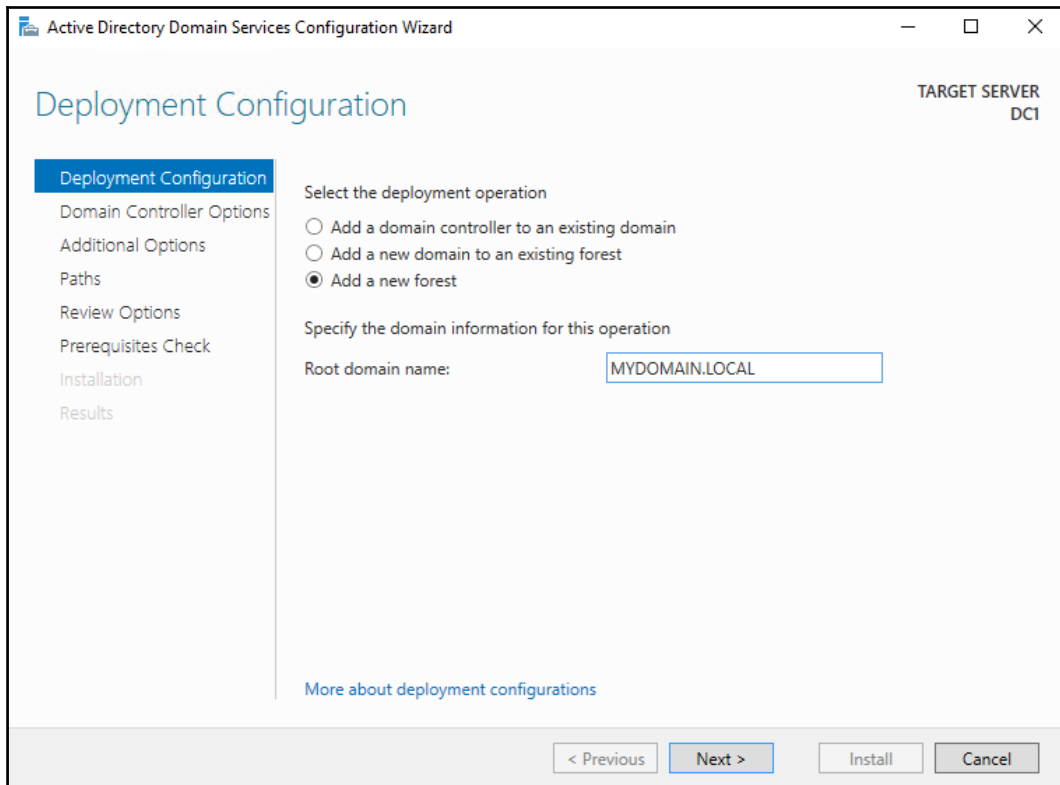
**1** Feature installation

Configuration required. Installation succeeded on DC1.

- Active Directory Domain Services**  
Additional steps are required to make this machine a domain controller.  
[Promote this server to a domain controller](#)
- DHCP Server**  
Launch the DHCP post-install wizard  
[Complete DHCP configuration](#)
- DNS Server**
- Group Policy Management**
- Remote Server Administration Tools**  
Role Administration Tools  
AD DS and AD LDS Tools

**1** You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

[Export configuration settings](#)



Select one or more roles to install on the selected server.

#### Roles

- Active Directory Certificate Services
- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server

The screenshot shows a configuration window with a dark header bar containing a refresh icon, a vertical separator, and a warning icon. The main content area is divided into two sections. The top section, titled "Post-deployment Configuration" with a warning icon, shows a progress bar and the text "Configuration required for Active Directory Domain Services at DC2". Below this is a blue link that says "Promote this server to a domain controller". The bottom section, titled "Feature installation" with an information icon, shows a progress bar and the text "Configuration required. Installation succeeded on DC2."

Select the deployment operation

- Add a domain controller to an existing domain
- Add a new domain to an existing forest
- Add a new forest

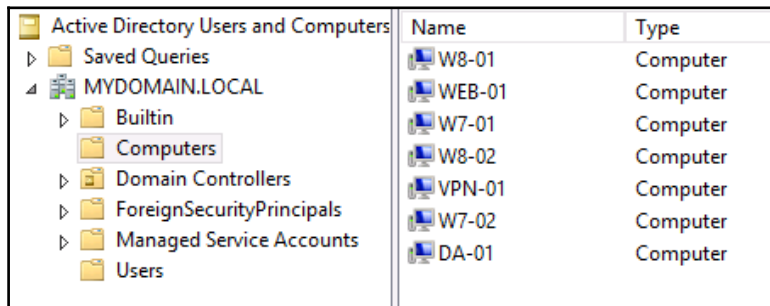
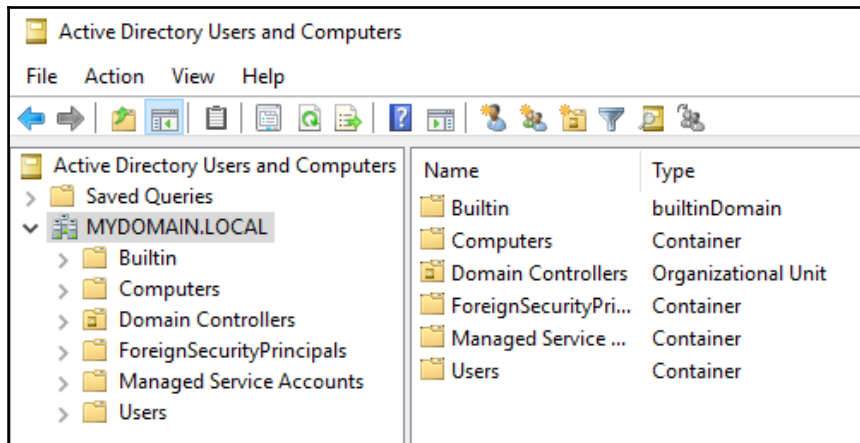
Specify the domain information for this operation

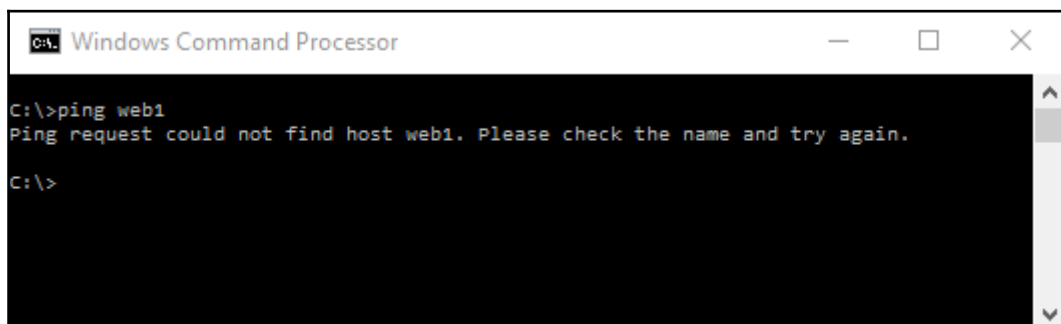
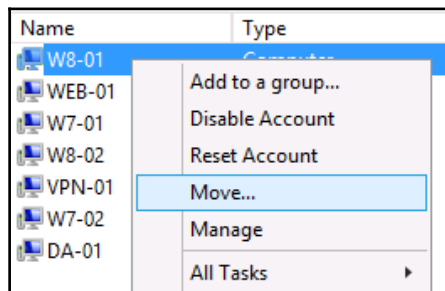
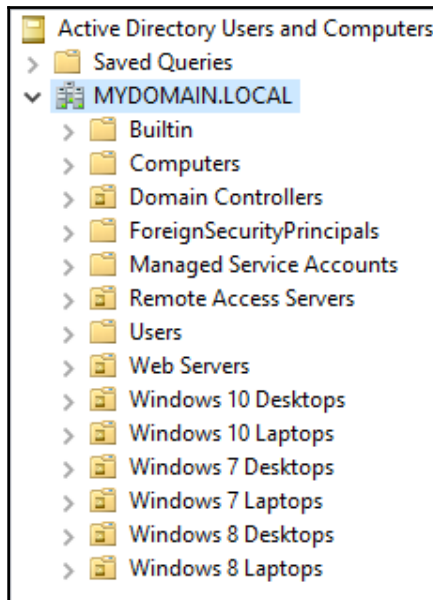
Domain:

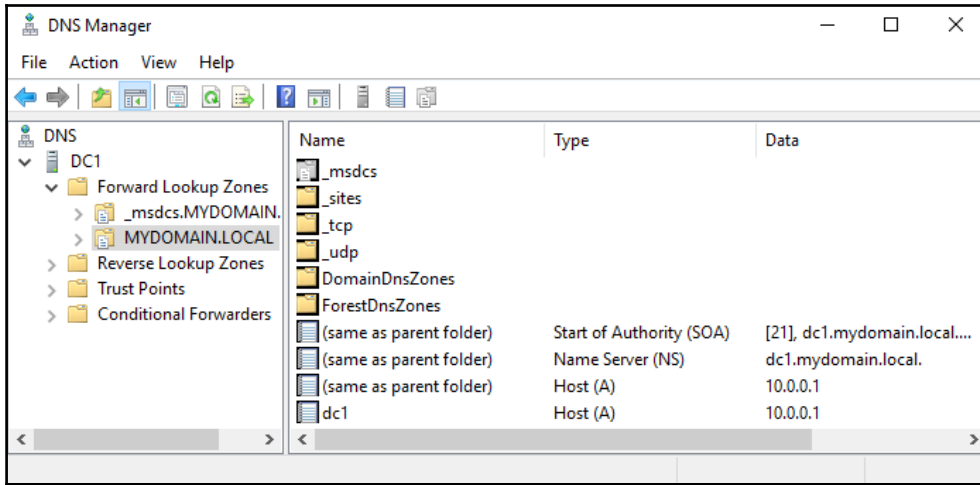
MYDOMAIN.LOCAL

Select...









**New Host** [X]

Name (uses parent domain name if blank):

Fully qualified domain name (FQDN):

IP address:

Create associated pointer (PTR) record

Allow any authenticated user to update DNS records with the same owner name

```
C:\>ping web1

Pinging web1.MYDOMAIN.LOCAL [10.0.0.5] with 32 bytes of data:
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128
Reply from 10.0.0.5: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

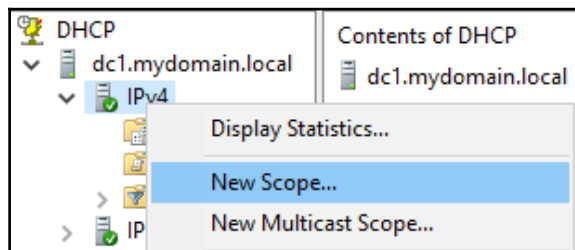
C:\>_
```

Alias (CNAME)

Alias name (uses parent domain if left blank):  
INTRANET

Fully qualified domain name (FQDN):  
INTRANET.MYDOMAIN.LOCAL

Fully qualified domain name (FQDN) for target host:  
WEB1.MYDOMAIN.LOCAL



Configuration settings for DHCP Server

Enter the range of addresses that the scope distributes.

Start IP address:

End IP address:

---

Configuration settings that propagate to DHCP Client

Length:

Subnet mask:

Ethernet adapter Ethernet:

```

Connection-specific DNS Suffix . : MYDOMAIN.LOCAL
Link-local IPv6 Address . . . . . : fe80::5465:727f:ba9:a073%4
IPv4 Address. . . . . : 10.0.0.50
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.0.0.254

```

Ethernet adapter Ethernet:

```

Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Hyper-V Network Adapter
Physical Address. . . . . : 00-15-5D-AC-20-01

```

New Reservation ? X

Provide information for a reserved client.

Reservation name: WEB1

IP address: 10 . 0 . 0 . 85

MAC address: 00-15-5D-AC-20-01

Description: WEB1 web server

Supported types

- Both
- DHCP
- BOOTP

Add Close

New Object - Computer X

Create in: MYDOMAIN.LOCAL/Remote Access Servers

Computer name: RA1

Computer name (pre-Windows 2000): RA1




The following user or group can join this computer to a domain.

User or group: Default: Domain Admins Change...


Assign this computer account as a pre-Windows 2000 computer

OK Cancel Help

```
Administrator: Windows PowerShell
PS C:\Users\Administrator> New-ADUser -Name "John Smith" -UserPrincipalName "jsmith@mydomain.local" -SamAccountName "jsmith"
PS C:\Users\Administrator>
```

	Group Policy Creat...	Security Group - Global	Members in this group c...
	Guest	User	Built-in account for gue...
	IPAMUG	Security Group - Univer...	
	John Smith	User	
	Jordan Krause	User	

```
Administrator: Windows PowerShell
PS C:\Users\Administrator> New-ADUser -Name "Jase Robertson" -UserPrincipalName "jrobertson@mydomain.local" -SamAccountName "jrobertson" -GivenName "Jase" -Surname "Robertson" -DisplayName "Jase Robertson" -AccountPassword (Read-Host -AsSecureString "AccountPassword") -ChangePasswordAtLogon $true -Enabled $true
AccountPassword: *****
PS C:\Users\Administrator>
```

General	Address	Account	Profile	Telephones	Organization
 Jase Robertson					
<hr/>					
First name:	<input type="text" value="Jase"/>	Initials:	<input type="text" value=""/>		
Last name:	<input type="text" value="Robertson"/>				
Display name:	<input type="text" value="Jase Robertson"/>				

General Address Account Profile Telephones Organization

User logon name:  
 @MYDOMAIN.LOCAL

User logon name (pre-Windows 2000):

Unlock account

Account options:  
 User must change password at next logon

```
Untitled1.ps1* X
1 Get-WmiObject -Class Win32_OperatingSystem -ComputerName localhost |
2 Select-Object -Property LastBootUpTime

PS C:\Users\Administrator> Get-WmiObject -Class Win32_OperatingSystem -Compu
LastBootUpTime
-----
20160517122955.129194-420

PS C:\Users\Administrator>
```



```
Untitled1.ps1* X
1 Get-WmiObject -Class Win32_OperatingSystem -ComputerName localhost |
2 Select-Object -Property @{n="Last Boot Time";
3 e={[Management.ManagementDateTimeConverter]::ToDateTime($_.LastBootUpTime)}}

PS C:\Users\Administrator> Get-WmiObject -Class Win32_OperatingSystem -ComputerName localhost |
Select-Object -Property @{n="Last Boot Time";
e={[Management.ManagementDateTimeConverter]::ToDateTime($_.LastBootUpTime)}}

Last Boot Time
-----
5/17/2016 12:29:55 PM

PS C:\Users\Administrator>
```

```
Untitled1.ps1* X
1 param(
2 [Parameter(Mandatory=$true)][string]$ServerName
3 )
4
5 Get-WmiObject -Class Win32_OperatingSystem -ComputerName $ServerName |
6 Select-Object -Property CSName,@{n="Last Boot Time";
7 e={[Management.ManagementDateTimeConverter]::ToDateTime($_.LastBootUpTime)}}

PS C:\Users\Administrator> param(
[Parameter(Mandatory=$true)][string]$ServerName
)

Get-WmiObject -Class Win32_OperatingSystem -ComputerName $ServerName |
Select-Object -Property CSName,@{n="Last Boot Time";
e={[Management.ManagementDateTimeConverter]::ToDateTime($_.LastBootUpTime)}}
cmdlet at command pipeline position 1
Supply values for the following parameters:
ServerName: |
```

```
CSName Last Boot Time
-----
DC1    5/17/2016 12:29:55 PM
```

```
Untitled1.ps1* X
1 param(
2     [Parameter(Mandatory=$true)][string]$ServerName
3 )
4
5     Get-WmiObject -Class Win32_OperatingSystem -ComputerName $ServerName |
6     Select-Object -Property CSName,@{n="Last Boot Time";
7     e={[Management.ManagementDateTimeConverter]::ToDateTime($_.LastBootUpTime)}}

e={[Management.ManagementDateTimeConverter]::ToDateTime($_.LastBootUpTime)}}
cmdlet at command pipeline position 1
Supply values for the following parameters:
ServerName: web1

CSName Last Boot Time
-----
WEB1    5/17/2016 1:12:51 PM

PS C:\Users\Administrator> |
```

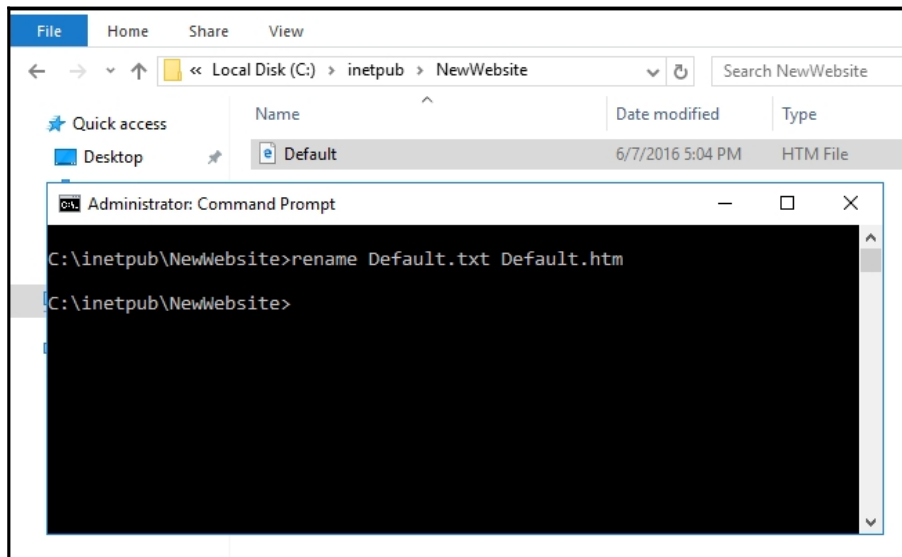
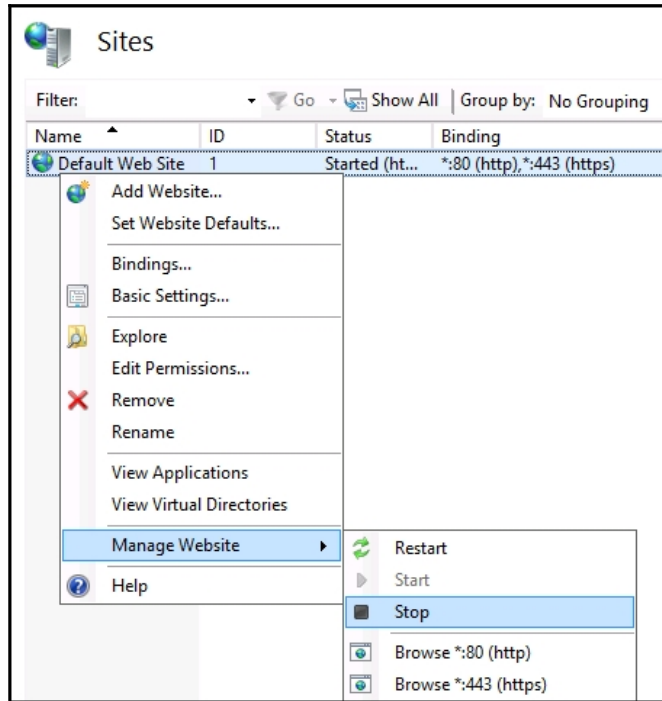
# Chapter 3: Internet Information Services

```
[ ] Volume Activation Services
[ ] Web Server (IIS)
  [ ] Web Server
    [ ] Common HTTP Features
      [ ] Default Document
      [ ] Directory Browsing
      [ ] HTTP Errors
      [ ] Static Content
      [ ] HTTP Redirection
      [ ] WebDAV Publishing
    [ ] Health and Diagnostics
      [ ] Health and Diagnostics
      [ ] Performance
      [ ] Security
```

```
Administrator: Windows PowerShell
PS C:\> Install-WindowsFeature Web-Server,Web-Common-Http,Web-Mgmt-Console -Restart

Start Installation...
24%
[ooooooooooooooooooooo]
```

- ▣ Web Server (IIS) (7 of 43 installed)
  - ▣ Web Server (7 of 34 installed)
    - ▣ Common HTTP Features (4 of 6 installed)
    - ▣ Health and Diagnostics (1 of 6 installed)
    - ▣ Performance (1 of 2 installed)
    - ▣ Security (1 of 9 installed)



Site name:  Application pool:

Content Directory

Physical path:

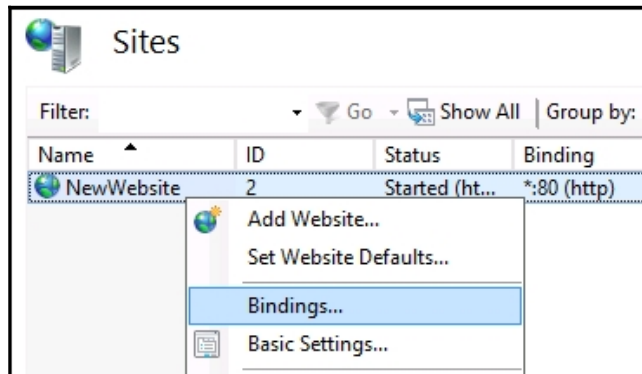
Pass-through authentication

Binding

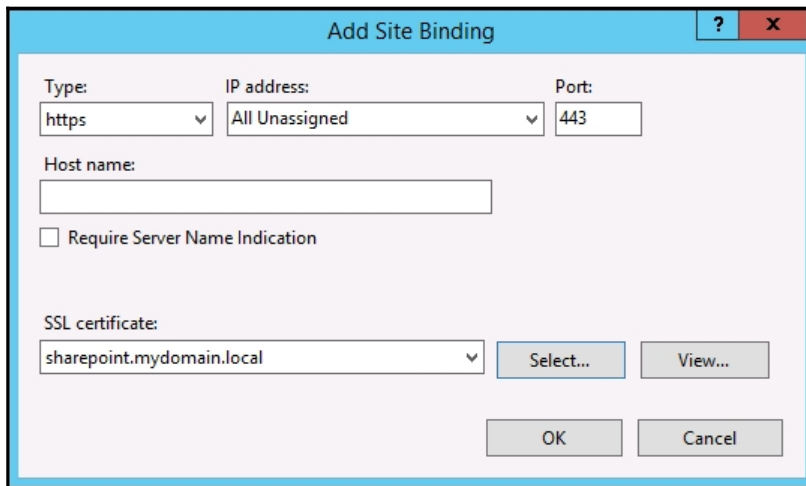
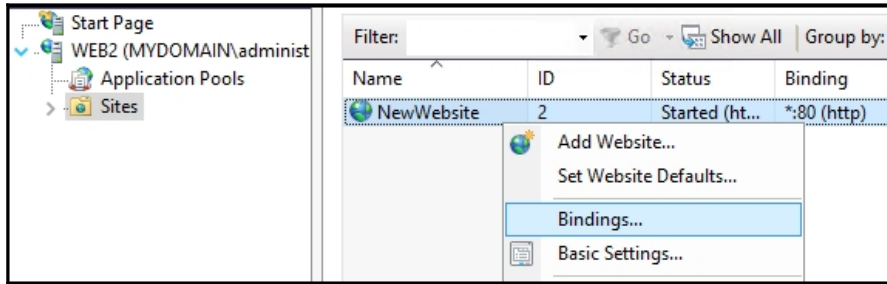
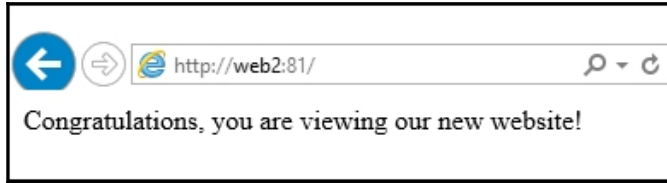
Type:  IP address:  Port:

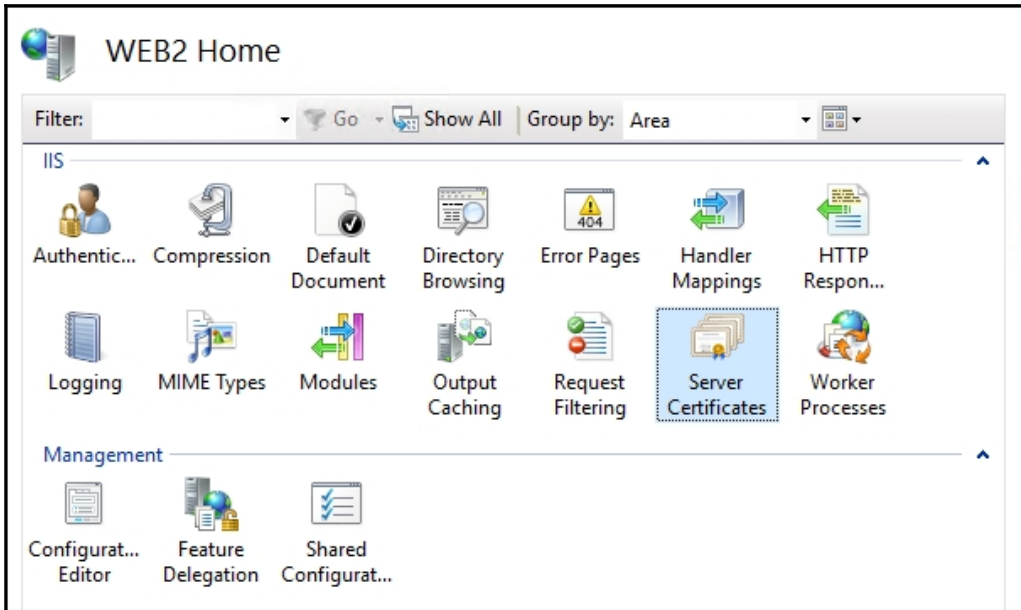
Host name:

Example: www.contoso.com or marketing.contoso.com



This page can't be displayed





Common name:	<input type="text" value="www.contoso.com"/>
Organization:	<input type="text" value="Your Company Name"/>
Organizational unit:	<input type="text" value="Web"/>
City/locality:	<input type="text" value="Dallas"/>
State/province:	<input type="text" value="Texas"/>
Country/region:	<input type="text" value="US"/>

Cryptographic service provider:	<input type="text" value="Microsoft RSA SChannel Cryptographic Provider"/>
Bit length:	<input type="text" value="2048"/>

Specify a file name for the certificate request:	<input type="text" value="C:\Users\administrator.MYDOMAIN\Desktop\mycsr.txt"/>	<input type="button" value="..."/>
--	--	------------------------------------

File name containing the certification authority's response:

C:\Users\administrator.MYDOMAIN\Desktop\NewCert.crt

Friendly name:

SSL Certificate for main website

Select a certificate store for the new certificate:

Personal

Name	Issued To	Issued By
	WEB-01.MYDOMAIN.LOCAL	MYDOMAIN-ROOT-CA
	WEB-01.MYDOMAIN.LOCAL	MYDOMAIN-ROOT-CA
	sharepoint.mydomain.local	MYDOMAIN-ROOT-CA
20140604 wildcard...		

- Import...
- Create Certificate Request...
- Complete Certificate Request...
- Create Domain Certificate...
- Create Self-Signed Certificate...
- View...
- Export...
- Renew...



**Export Certificate** ? X

Export to:  
administrator.MYDOMAIN\Desktop\wildcard\_export.pfx ...

Password:  
.....

Confirm password:  
.....

OK Cancel

**Import Certificate** ? X

Certificate file (.pfx):  
administrator.MYDOMAIN\Desktop\wildcard\_export.pfx ...


Password:  
.....

Select Certificate Store:  
Personal

Allow this certificate to be exported

OK Cancel

**Valid from 6/6/2016 to 6/6/2018**

 You have a private key that corresponds to this certificate.

### Server Certificates

Use this feature to request and manage certificates that the Web server can use with websites configured for SSL.

Filter:  Go  Group by:

Name	Issued To	Issued By
	sharepoint.mydomain.local	MyDomain-CertServer
	WEB1.MYDOMAIN.LOCAL	MyDomain-CertServer

**Actions**

- [Import...](#)
- [Create Certificate Request...](#)
- [Complete Certificate Request...](#)
- [Create Domain Certificate...](#)
- [Create Self-Signed Certificate...](#)
- [Enable Automatic Rebind of Renewed Certificate](#)
- [Help](#)

### Task Scheduler (Local)

Task Scheduler Library

- Microsoft
  - Windows
    - .NET Framework
    - Active Directory Rights Man...
    - AppID
    - Application Experience
    - ApplicationData
    - AppxDeploymentClient
    - Autochk
    - CertificateServicesClient
    - Chkdsk
    - Customer Experience Impro...

Name	Status	Triggers
IIS-AutoCertRebind	Ready	On event - Log: Micro...
SystemTask	Ready	Multiple triggers defin...
UserTask	Ready	Multiple triggers defin...
UserTask-Roam	Disabled	Multiple triggers defin...

General | **Triggers** | Actions | Conditions | Settings

Name: IIS-AutoCertRebind

Location: \Microsoft\Windows\CertificateService...

This PC > Local Disk (C:) > inetpub >

Name
custerr
DeviceHealthAttestation
history
logs
Site1
Site2
Site3
Site4
temp
wwwroot

Site name:  Application pool:

Content Directory

Physical path:


Pass-through authentication

Binding





Type:  IP address:  Port:

Host name:

Example: www.contoso.com or marketing.contoso.com

 Sites

Filter:  Go  Group by:

Name	ID	Status	Binding
 Site1	1	Started (ht...	*:81 (http)
 Site2	2	Started (ht...	*:82 (http)
 Site3	3	Started (ht...	*:83 (http)
 Site4	4	Started (ht...	*:84 (http)

```
Ethernet adapter Ethernet:
Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::79a1:f04f:406e:f589%3
IPv4 Address. . . . . : 10.0.0.21
Subnet Mask . . . . . : 255.255.255.0
IPv4 Address. . . . . : 10.0.0.22
Subnet Mask . . . . . : 255.255.255.0
IPv4 Address. . . . . : 10.0.0.23
Subnet Mask . . . . . : 255.255.255.0
IPv4 Address. . . . . : 10.0.0.24
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

**Edit Site Binding** ? X

Type:  IP address:  Port:

Host name:

Example: www.contoso.com or marketing.contoso.com

Site1	Host (A)	10.0.0.21
Site2	Host (A)	10.0.0.22
Site3	Host (A)	10.0.0.23
Site4	Host (A)	10.0.0.24

Site name:  Application pool:

Content Directory

Physical path:

Pass-through authentication

Binding

Type:  IP address:  Port:

Host name:

Example: www.contoso.com or marketing.contoso.com

Site name:  Application pool:

Content Directory

Physical path:

Pass-through authentication

Binding

Type:	IP address:	Port:
<input type="text" value="http"/>	<input type="text" value="10.0.0.6"/>	<input type="text" value="80"/>

Host name:

Example: www.contoso.com or marketing.contoso.com



# Chapter 4: Remote Desktop Services

**Role-based or feature-based installation**

Configure a single server by adding roles, role services, and features.

**Remote Desktop Services installation**

Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

Remote Desktop Services can be configured to allow users to connect to virtual desktops, RemoteApp programs, and session-based desktops.

Virtual machine-based desktop deployment

Virtual machine-based desktop deployment allows users to connect to virtual desktop collections that include published RemoteApp programs and virtual desktops.

Session-based desktop deployment

Session-based desktop deployment allows users to connect to session collections that include published RemoteApp programs and session-based desktops.

The screenshot shows the 'RD Connection Broker' step in the Configuration Wizard. On the left is a navigation pane with the following items: 'Before You Begin', 'Installation Type', 'Deployment Type', 'Deployment Scenario', 'Role Services', 'RD Connection Broker' (highlighted), 'RD Web Access', 'RD Session Host', 'Confirmation', and 'Completion'. The main area is titled 'Select the servers from the server pool on which to install the RD Connection Broker role service.' It features a 'Server Pool' table with a 'Filter' box and a 'Selected' list. The table contains one entry: 'RDS1.MYDOMAIN.LOCAL' with IP address '10.0.0.10'. The 'Selected' list shows 'Computer' expanded to 'MYDOMAIN.LOCAL (1)' with 'RDS1' listed below it.

Name	IP Address	Operating System
RDS1.MYDOMAIN.LOCAL	10.0.0.10	


Selected

- Computer
  - MYDOMAIN.LOCAL (1)
    - RDS1

**RD Connection Broker (1 server selected)**  
RDS1.MYDOMAIN.LOCAL

**RD Web Access (1 server selected)**  
RDS1.MYDOMAIN.LOCAL

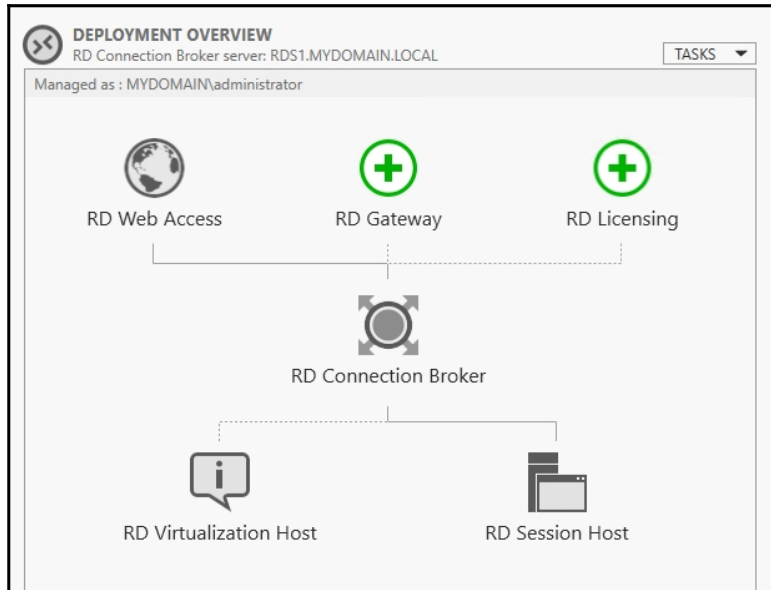
**RD Session Host (1 server selected)**

 The following servers may restart after the role service is installed.  
RDS1.MYDOMAIN.LOCAL

Restart the destination server automatically if required

< Previous    Next >    Deploy    Cancel

- 2 Add roles and features
- 3 [Add other servers to manage](#)
- 4 Create a server group



### Session-based desktop deployment

- 2 Add RD Session Host servers
- 3 Create session collections

**Server Pool**

Filter:

Name	IP Address	Operat
RDS2.MYDOMAIN.LOCAL	10.0.0.11	

**Selected**

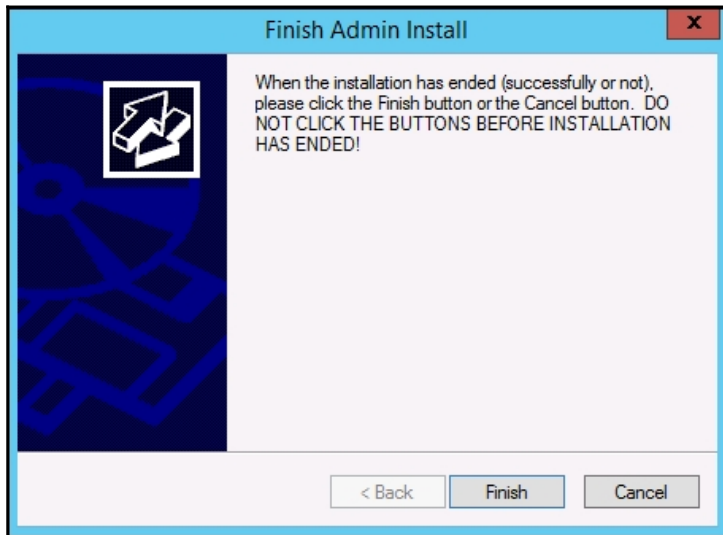
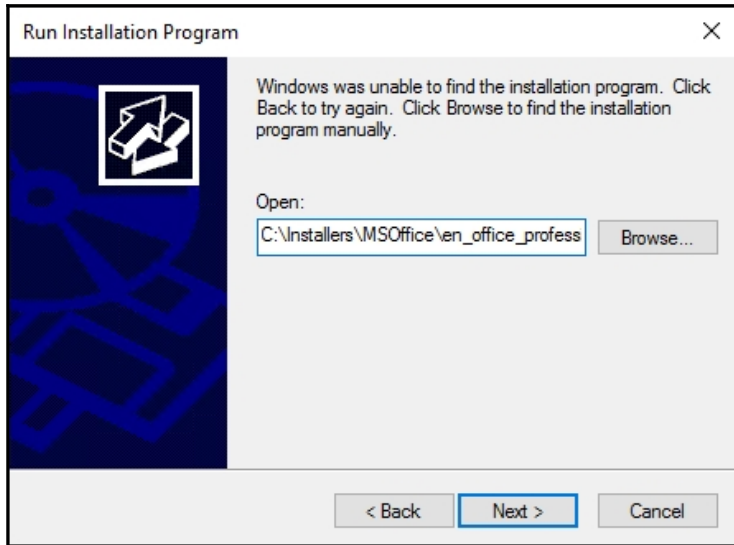
Computer

- MYDOMAIN.LOCAL (1)
  - RDS2



[Install Application on Remote Desktop...](#)





```
C:\>change user /install
User session is ready to install applications.

C:\>
```

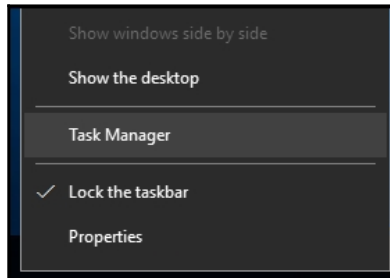
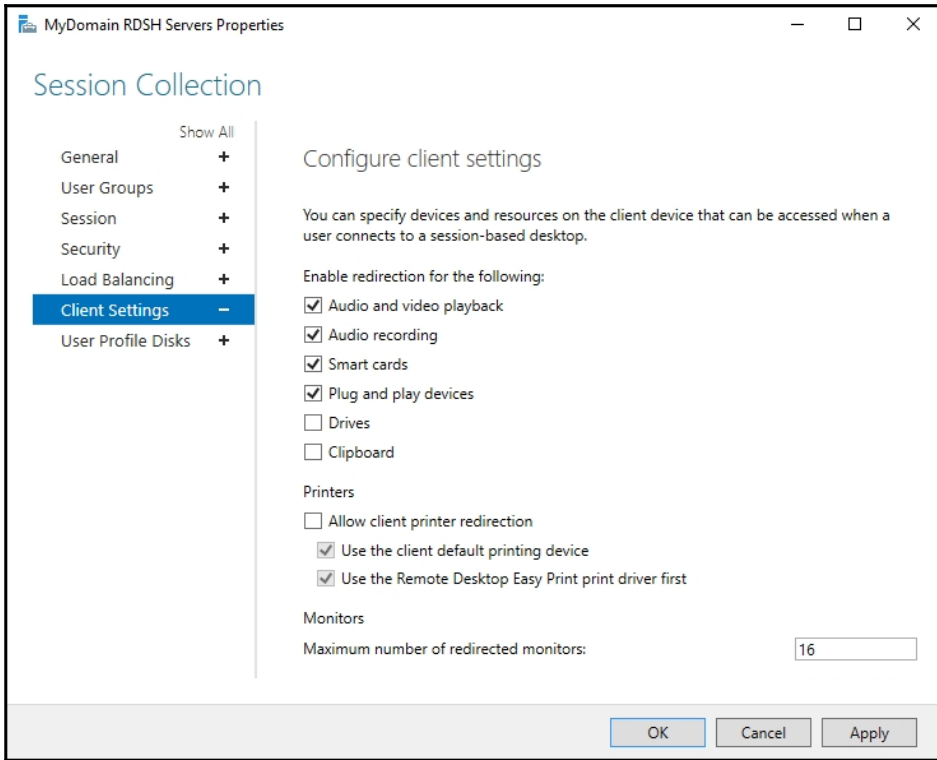
```
C:\>change user /execute
User session is ready to execute applications.

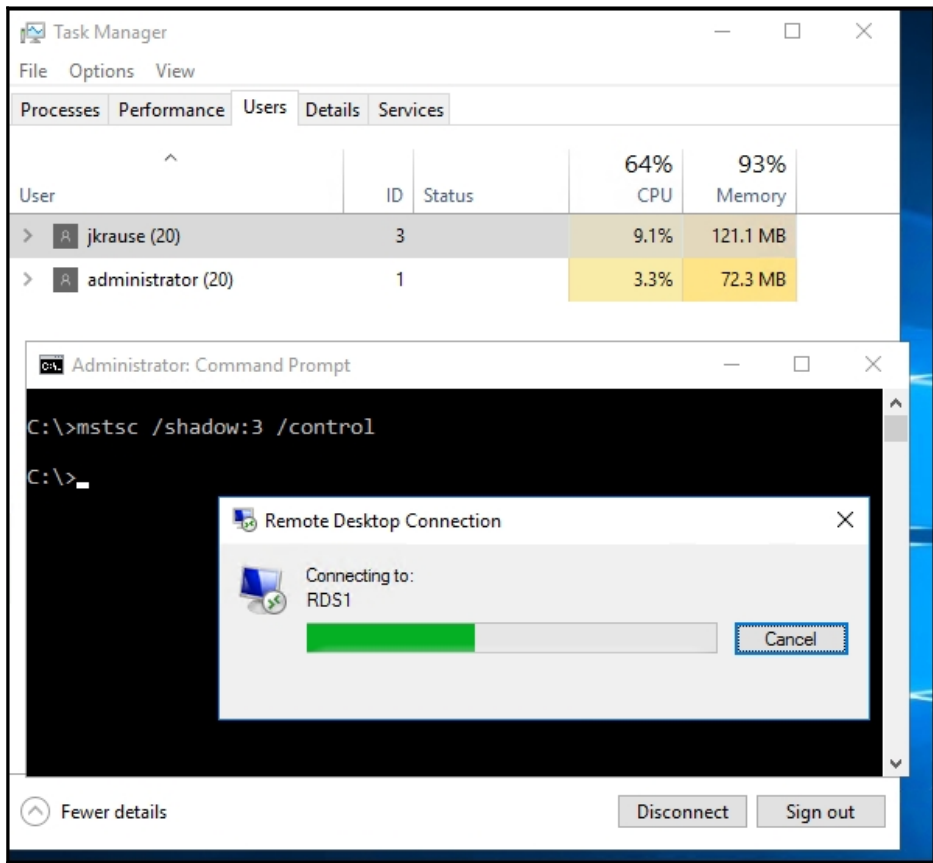
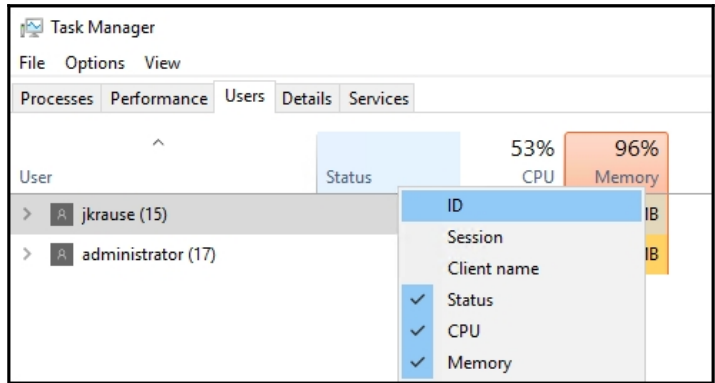
C:\>
```

The screenshot shows the Microsoft Management Console (MMC) interface. The breadcrumb path is 'Collections > MyDomain RDSH Servers'. The left-hand navigation pane shows a tree view with 'MyDomain RDSH Servers' selected. The main area is titled 'PROPERTIES' and shows the 'Properties of the collection' for 'MyDomain RDSH Servers'. The properties are listed in a table:

Collection Type	Session
Resources	Remote Desktop
User Group	MYDOMAIN\Domain Users

Below the table, there is a 'TASKS' dropdown menu with 'Edit Properties' selected. To the right, there is a 'CONNECTIONS' section with a 'Filter' input field and a table with columns 'Server FQDN' and 'Us'.





## Support & Downloads

MFC-J625DW



► Not your product?

Downloads

FAQs & Troubleshooting

Manuals

Consumables & Accessories

Supported OS

Specification

United States(English)



► Change Country (Language)

MFC-J625DW

## Downloads

### Select Your Operating System (OS)

#### STEP 1: Select OS Family

- Windows  Mac  Linux  Mobile

#### STEP 2: Select OS Version

- Windows® 10 (32-bit)  Windows Vista® (64-bit)  
 Windows® 10 (64-bit)  Windows® XP (32-bit)  
 Windows® 8.1 (32-bit)  Windows® XP (64-bit)  
 Windows® 8.1 (64-bit)  Windows Server® 2012 R2 (64-bit)  
 Windows® 8 (32-bit)  Windows Server® 2012 (64-bit)  
 Windows® 8 (64-bit)  Windows Server® 2008 R2 (64-bit)  
 Windows® RT  Windows Server® 2008 (32-bit)  
 Windows® 7 (32-bit)  Windows Server® 2008 (64-bit)  
 Windows® 7 (64-bit)  Windows Server® 2003 (32-bit)  
 Windows Vista® (32-bit)  Windows Server® 2003 (64-bit)

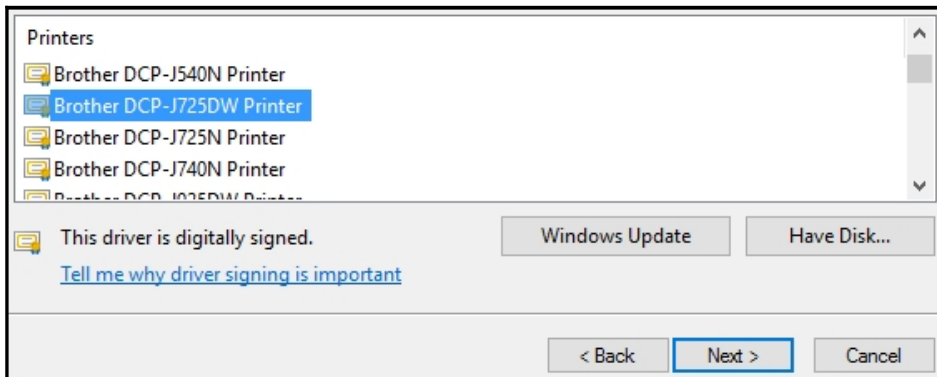
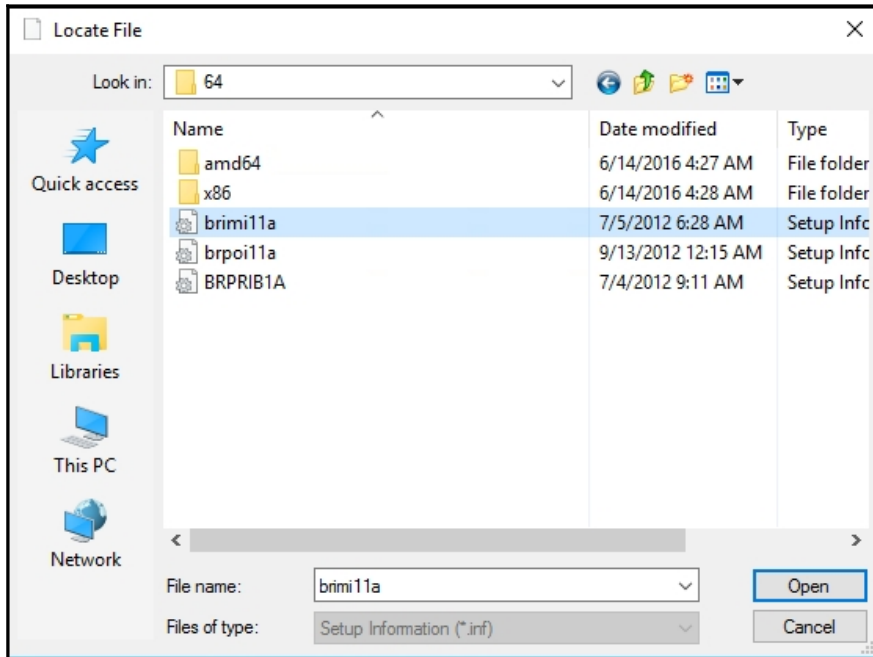
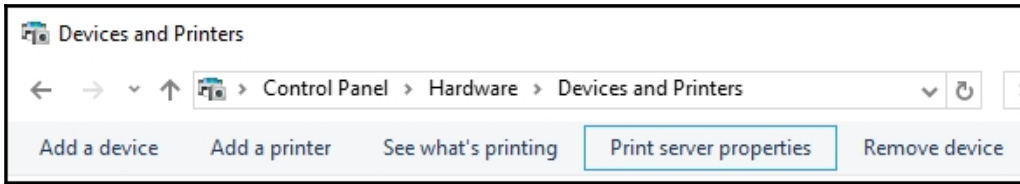
? How to identify your Operating System (OS)

Search




## Drivers

Title	Description	Release Date (Version)	Size
<a href="#">Printer Driver &amp; Scanner Driver for Local Connection</a>	This download only includes the printer and scanner (WIA and/or TWAIN) drivers, <a href="#">...more</a>	11/28/2012 (D1)	23.04 MB
<a href="#">Add Printer Wizard Driver</a>	This download only includes the printer drivers and is for users who are familiar with <a href="#">...more</a>	11/28/2012 (1.11)	23.04 MB



**Print Server Properties** [Close]

Forms | Ports | Drivers | Security | Advanced

 RDS1

Installed printer drivers:

Name	Processor	Type
Brother DCP-J725DW Printer	x64	Type 3 - User Mode
Microsoft enhanced Point and Pri...	x64	Type 3 - User Mode
Microsoft enhanced Point and Pri...	x86	Type 3 - User Mode
Microsoft Print To PDF	x64	Type 4 - User Mode
Microsoft XPS Document Writer v4	x64	Type 4 - User Mode
Remote Desktop Easy Print	x64	Type 3 - User Mode

**HOST SERVERS**

Last refreshed on 6/14/2016 4:37:39 AM | All servers | 2 total | TASKS ▾

Filter  🔍

Server Name	Type	Virtual Desktops	Allow New Connections
RDS1	RD Session Host	N/A	True
RDS2	RD Session Host	N/A	True

### HOST SERVERS

Last refreshed on 6/14/2016 4:38:56 AM | All servers | 2 total TASKS ▾

Filter  🔍 ☰ ▾ 🏠 ▾ ⌵ ▾

Server Name	Type	Virtual Desktops	Allow New Connections
RDS1	RD Session Host	N/A	True
RDS2	RD Session Host	N/A	False

Allow new connections

### REMOTEAPP PROGRAMS

Published RemoteApp programs | 0 total TASKS ▾

*Remote Desktop is published for the users of the collection.*

[Publish RemoteApp programs](#)

*Publishing RemoteApp programs will unpublish the Remote Desktop.*

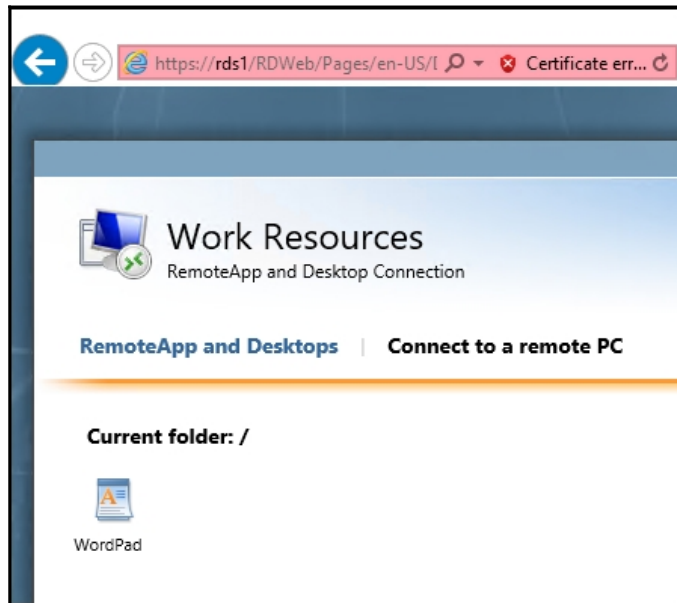
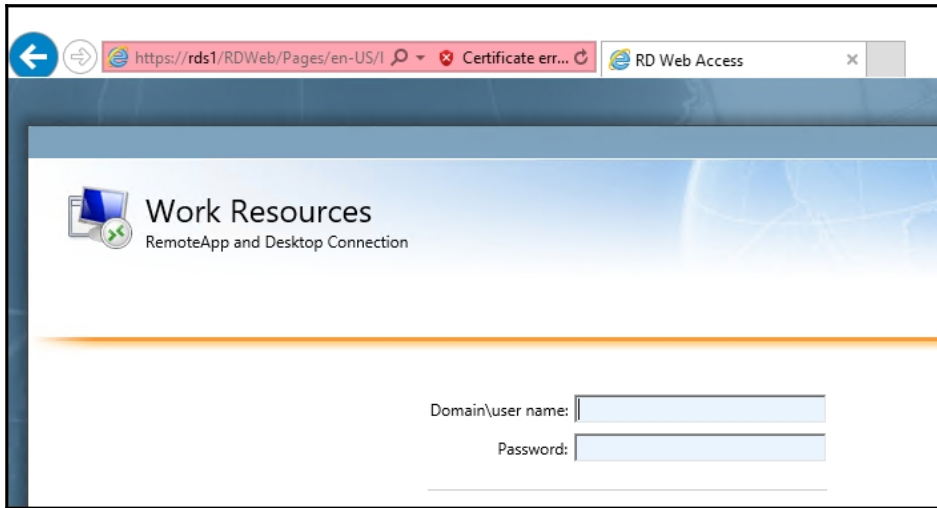
<input type="checkbox"/>	🎵 Windows Media Player	%SYSTEMDRIVE%\Program Files (x86)\Windows...
<input type="checkbox"/>	🔧 Windows Memory Diagnostic	%SYSTEMDRIVE%\Windows\system32\MdSche...
<input type="checkbox"/>	🗣️ Windows Speech Recognition	%SYSTEMDRIVE%\Windows\Speech\Common\s...
<input checked="" type="checkbox"/>	📄 WordPad	%SYSTEMDRIVE%\Program Files\Windows NT\...

Add...

Verify that the program is installed on all the RD Session Host servers in the collection.

< Previous
Next >
Publish
Cancel







# Work Resources

RemoteApp and Desktop Connection

## RemoteApp and Desktops | Connect to a remote PC

Current folder: /



WordPad

Document - WordPad

File Home View

Clipboard

Calibri 11

**B** *I* U **abc** **x<sub>2</sub>** **x<sup>2</sup>**

Font

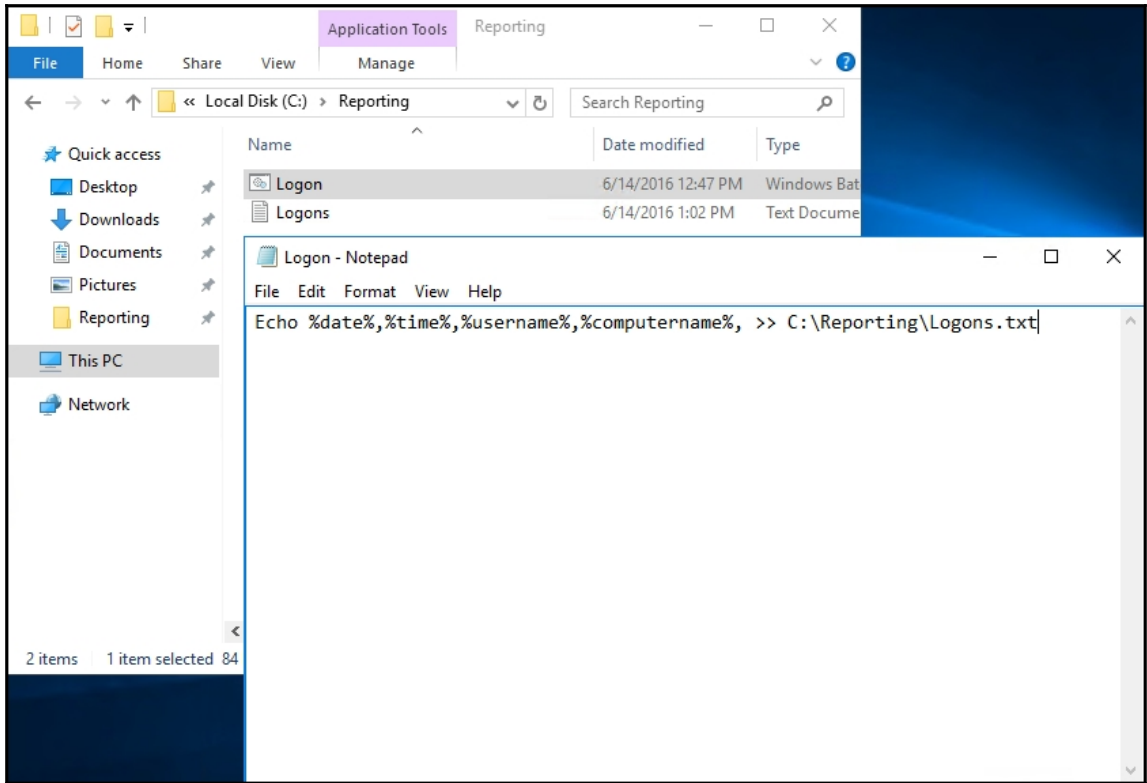
Paragraph Insert Editing

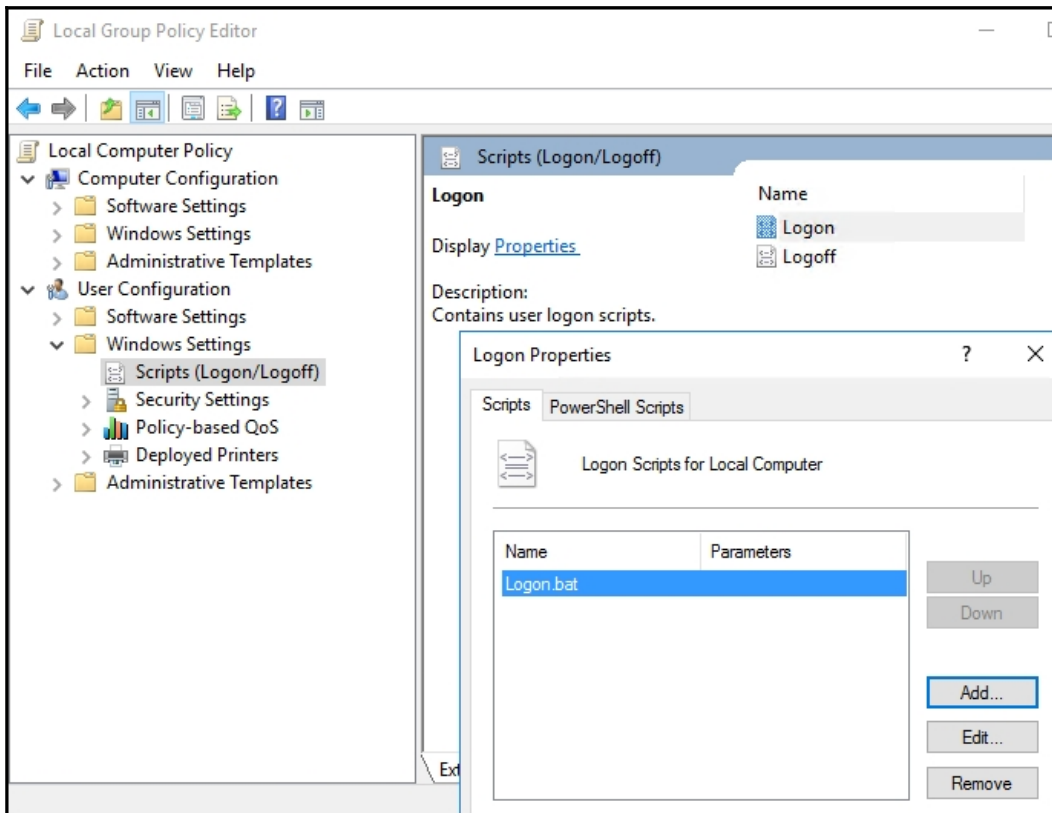
Clipboard

1 2 3 4

It works!

100%





```
Logons - Notepad
File Edit Format View Help
Tue 06/14/2016,12:54:37.46,administrator,RDS1
Tue 06/14/2016,12:55:00.79,jkrause,RDS1
Tue 06/14/2016,12:57:50.45,administrator,RDS1
Tue 06/14/2016,12:57:54.31,jkrause,RDS1
|
```

The image shows a Windows File Explorer window titled 'Reporting' with the address bar set to 'Local Disk (C:) > Reporting'. The left sidebar shows 'Quick access' with 'This PC' selected. The main pane displays a list of files:

Name	Date modified	Type
abcuser	6/14/2016 1:26 PM	Text Document
administrator	6/14/2016 1:24 PM	Text Document
jkrause	6/14/2016 1:25 PM	Text Document
jsmith	6/14/2016 1:26 PM	Text Document
Logoff	6/14/2016 1:11 PM	Windows Batch File
Logon	6/14/2016 1:11 PM	Windows Batch File
Logons	6/14/2016 1:02 PM	Text Document
test01	6/14/2016 1:26 PM	Text Document













A Notepad window titled 'jkrause - Notepad' is open in the foreground, displaying the following log entries:

```
File Edit Format View Help
LOGON, Tue 06/14/2016, 13:16:06.91, jkrause, RDS1,
LOGOFF, Tue 06/14/2016, 13:22:53.98, jkrause, RDS1,
LOGON, Tue 06/14/2016, 13:24:53.66, jkrause, RDS1,
LOGOFF, Tue 06/14/2016, 13:25:38.11, jkrause, RDS1,
```

The status bar at the bottom of the File Explorer window indicates '8 items' and '1 item selected'.

# Chapter 5: Monitoring and Backup

**ROLES AND SERVER GROUPS**  
Roles: 4 | Server groups: 1 | Servers total: 1

 <b>AD DS</b> 1 <hr/>  Manageability Events Services Performance BPA results	 <b>DHCP</b> 1 <hr/>  Manageability Events Services Performance BPA results	 <b>DNS</b> 1 <hr/>  Manageability Events Services Performance BPA results
 <b>File and Storage Services</b> 1 <hr/>  Manageability Events Services Performance BPA results	 <b>Local Server</b> 1 <hr/>  Manageability Events Services Performance BPA results	 <b>All Servers</b> 1 <hr/>  Manageability Events Services Performance BPA results

### ROLES AND SERVER GROUPS

Roles: 4 | Server groups: 1 | Servers total: 1

AD DS
1

- ↑ Manageability
- Events
- 1 Services
- Performance
- BPA results

6/14/2016 1:04 PM

DHCP
1

- ↑ Manageability
- Events
- Services
- Performance
- BPA results

1
Services
Hide Alert Criteria

Start types:

Service status:

Services:

Servers:

Server Name	Display Name	Service Name	Status	Start Type
DC1	DFS Replication	DFS*	Stopped	Automatic

Start Services

- Stop Services
- Restart Services
- Pause Services
- Resume Services
- Copy

Server Manager ▸ AD DS

Manage Tools View Help

**SERVICES**  
All servers | 1 total

Filter

Server Name	IPv4 Address	Manageability	Last Update	Windows Activation
DC1	10.0.0.1	Online - Performance counters not started	6/14/2016 4:14:17 PM	Not activated

**EVENTS**  
All events | 0 total

Filter

Server Name	ID	Severity	Source	Log	Date and Time
-------------	----	----------	--------	-----	---------------

Local Server

**PROPERTIES**  
For DC1

Computer name: DC1  
Domain: MYDOMAIN.LOCAL

Last installed updates: Windows Update  
Last checked for updates: [blank]

Windows Firewall: Domain: On  
Remote management: Enabled  
Remote Desktop: Enabled  
NIC Teaming: Disabled  
Ethernet: 10.0.0.1, IPv6 enabled

Windows Defender  
Windows Error Reporting  
Customer Experience Improvement P  
IE Enhanced Security Configuration  
Time zone  
Product ID

Operating system version: Microsoft Windows Server 2016 Standard Technical Preview 5  
Hardware information: Microsoft Corporation Virtual Machine

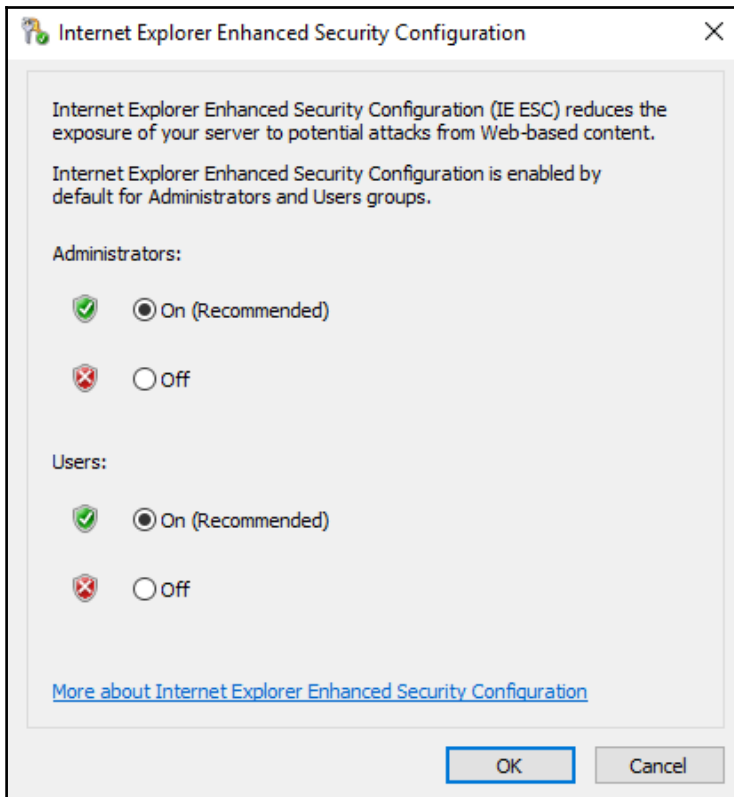
Processors  
Installed memory (RAM)  
Total disk space

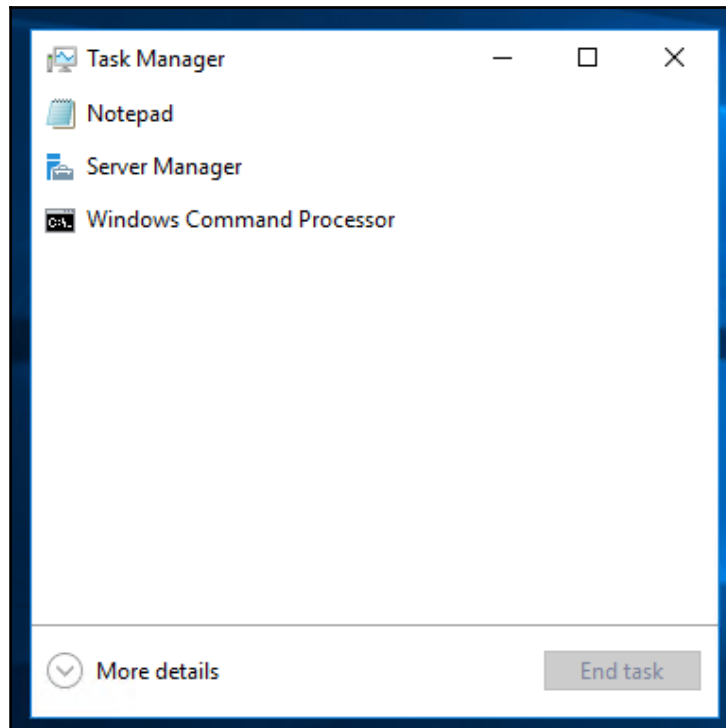
**EVENTS**  
All events | 20 total

Filter

Server Name	ID	Severity	Source	Log	Date and Time
DC1	10016	Error	Microsoft-Windows-DistributedCOM	System	6/14/2016 1:07:54 PM
DC1	10028	Error	Microsoft-Windows-DistributedCOM	System	6/14/2016 1:04:56 PM
DC1	10028	Error	Microsoft-Windows-DistributedCOM	System	6/14/2016 1:04:56 PM







Task Manager		
File Options View		
Processes Performance Users Details Services		
Name	7% CPU	71% Memory
<b>Apps (4)</b>		
> Notepad	0%	1.4 MB
> Server Manager	0%	100.7 MB
> Task Manager	0%	7.9 MB
> Windows Command Processor	0%	0.4 MB
<b>Background processes (18)</b>		
> Distributed File System Replicati...	0%	9.3 MB
> Domain Name System (DNS) Se...	0%	12.1 MB
Host Process for Windows Tasks	0%	1.1 MB
Host Process for Windows Tasks	0%	2.1 MB
Host process for WinRM plug-ins	0%	55.4 MB
> Microsoft Distributed Transacti...	0%	1.4 MB
> Microsoft.ActiveDirectory.WebS...	0%	9.3 MB
> Microsoft® Volume Shadow Co...	0%	1.8 MB

User	Status	3% CPU	69% Memory
Administrator (17)		2.8%	207.4 MB
Client Server Runtime Proc...		0%	0.9 MB
Console Window Host		0%	4.7 MB
Desktop Window Manager		0%	19.3 MB
Host Process for Windows ...		0%	1.1 MB
Host Process for Windows ...		0%	2.1 MB
Host process for WinRM pl...		0%	55.3 MB
Notepad		0%	1.1 MB
Runtime Broker		0%	2.2 MB
Search		0%	0.1 MB
Server Manager		0%	100.7 MB
Service Host: Unistack Serv...		0%	1.6 MB
Shell Infrastructure Host		0%	2.7 MB
Task Manager		2.8%	7.6 MB
Windows Command Proce...		0%	0.3 MB

Processes Performance Users Details Services

**CPU** Intel(R) Core(TM) i3 CPU 540 @ 3.07GHz  
3% 3.07 GHz

Memory 0.9/1.3 GB (69%)

Ethernet S: 0 Kbps R: 0 Kbps

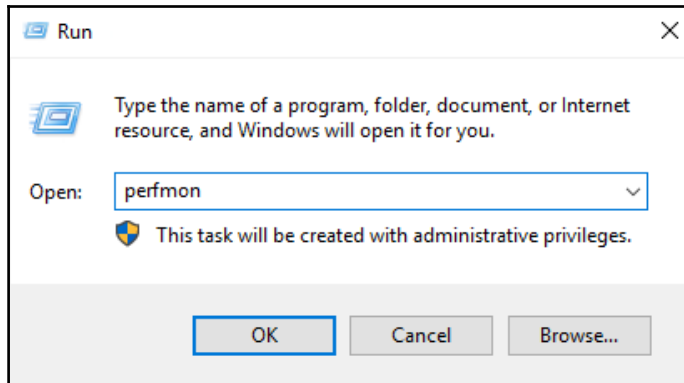
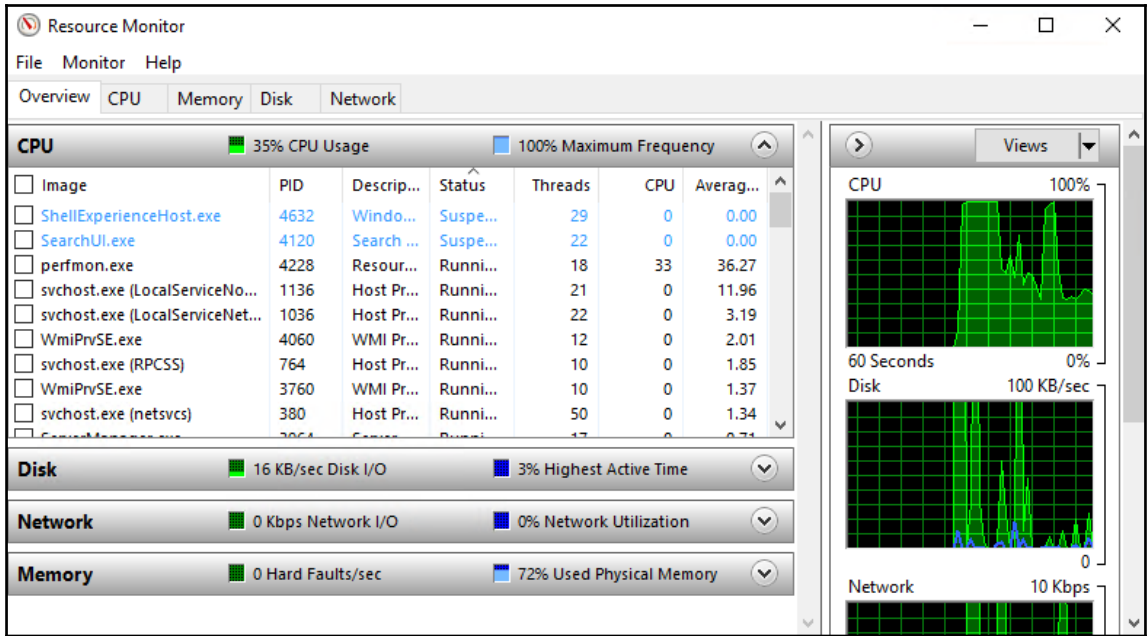
% Utilization 60 seconds 100%

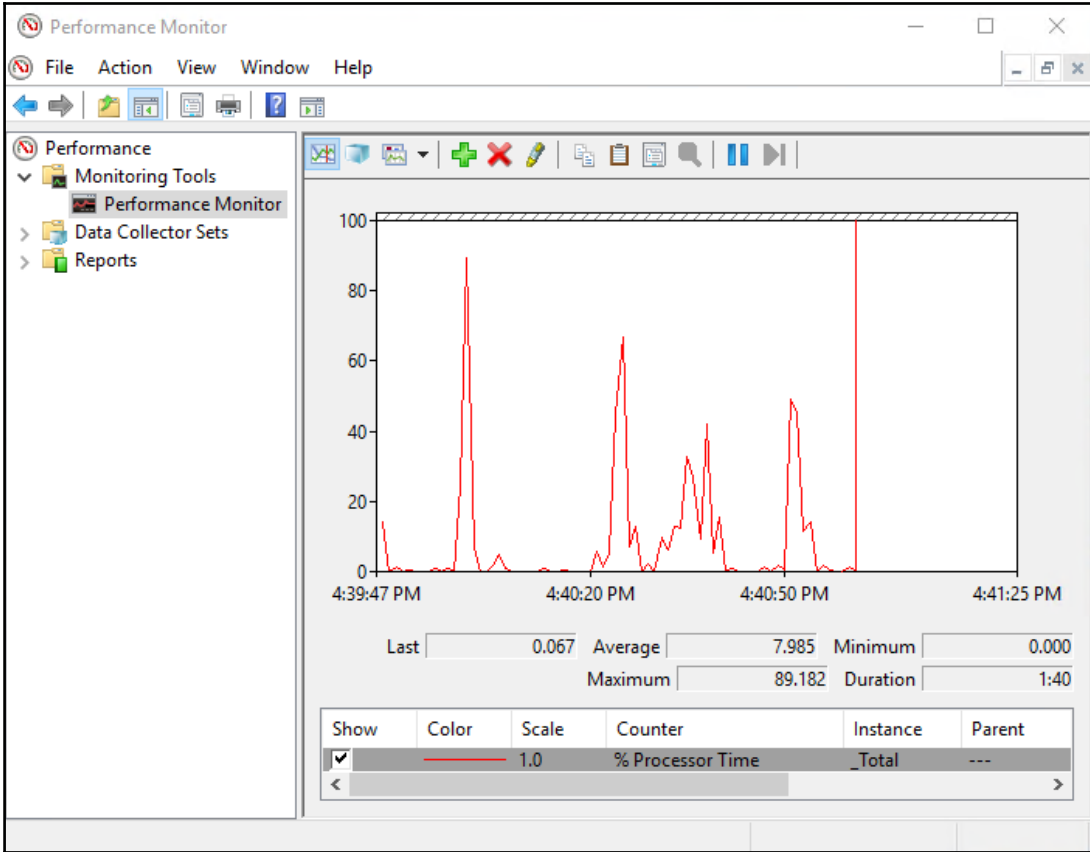
Utilization Speed  
3% 3.07 GHz

Processes Threads  
54 699

Up time  
3:19:41:19

- Change graph to >
- Show kernel times
- Graph summary view
- View >
- Copy Ctrl+C





Performance

- Monitoring Tools
  - Performance Monitor
- Data Collector Sets
  - User Defined
  - System
  - Event T
  - Startup
- Reports

Name	Status
Server Manager Performance M...	Stopped

- New > Data Collector Set
- View >
- New Window from Here
- Refresh
- Export List...

Available counters

Select counters from computer:

<Local computer > Browse...

- Page Faults/sec
- Page Reads/sec
- Page Writes/sec
- Pages Input/sec
- Pages Output/sec
- Pages/sec
- Pool Nonpaged Allocs
- Pool Nonpaged Bytes
- Pool Paged Allocs

Instances of selected object:

Search

Add >>

Show description

Added counters

Counter	Parent	Inst...	Computer
<b>Memory</b>			
Available MBytes	---	---	
Page Writes/sec	---	---	
<b>Processor</b>			
% Processor Time	---	_Total	

Remove <<

OK Cancel

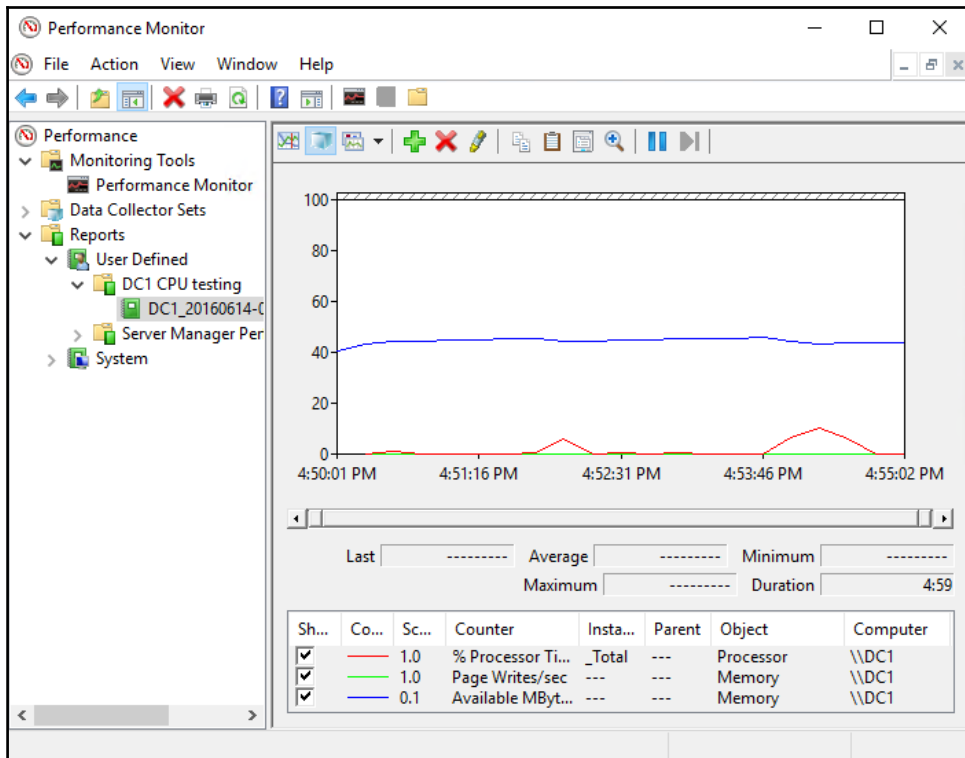
DC1 CPU testing Properties

General Directory Security Schedule Stop Condition Task

Overall duration: Units:

1 Days





```

Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\administrator.MYDOMAIN> cd documents
PS C:\Users\administrator.MYDOMAIN\documents> dir

Directory: C:\Users\administrator.MYDOMAIN\documents

Mode                LastWriteTime         Length Name
----                -
-a----             6/15/2016   3:44 AM           0 Doc1.txt
-a----             6/15/2016   3:44 AM           0 Doc2.txt
-a----             6/15/2016   3:44 AM           0 Doc3.txt
-a----             6/15/2016   3:44 AM           0 Doc4.txt
-a----             6/15/2016   3:44 AM           0 Doc5.txt

PS C:\Users\administrator.MYDOMAIN\documents>

```

```
Name           : Doc5.txt
Length          : 0
CreationTime    : 6/15/2016 3:44:06 AM
LastWriteTime   : 6/15/2016 3:44:31 AM
LastAccessTime : 6/15/2016 3:44:31 AM
Mode           : -a-----
LinkType        :
Target          : {}
VersionInfo     : File:           C:\Users\administrator.MYDOMAIN\documents\Doc5.txt
                  InternalName:
                  OriginalFileName:
                  FileVersion:
                  FileDescription:
                  Product:
                  ProductVersion:
                  Debug:           False
                  Patched:         False
                  PreRelease:      False
                  PrivateBuild:    False
                  SpecialBuild:    False
                  Language:
```

```
Administrator: Windows PowerShell

BaseName       : Doc5
Target         : {}
LinkType       :
Name           : Doc5.txt
Length         : 0
DirectoryName  : C:\Users\administrator.MYDOMAIN\documents
Directory      : C:\Users\administrator.MYDOMAIN\documents
IsReadOnly     : False
Exists         : True
FullName       : C:\Users\administrator.MYDOMAIN\documents\Doc5.txt
Extension      : .txt
CreationTime   : 6/15/2016 3:44:06 AM
CreationTimeUtc : 6/15/2016 10:44:06 AM
LastAccessTime : 6/15/2016 3:44:31 AM
LastAccessTimeUtc : 6/15/2016 10:44:31 AM
LastWriteTime  : 6/15/2016 3:44:31 AM
LastWriteTimeUtc : 6/15/2016 10:44:31 AM
Attributes     : Archive

PS C:\Users\administrator.MYDOMAIN\documents>
```

```
Administrator: Windows PowerShell

PS C:\> Get-Date

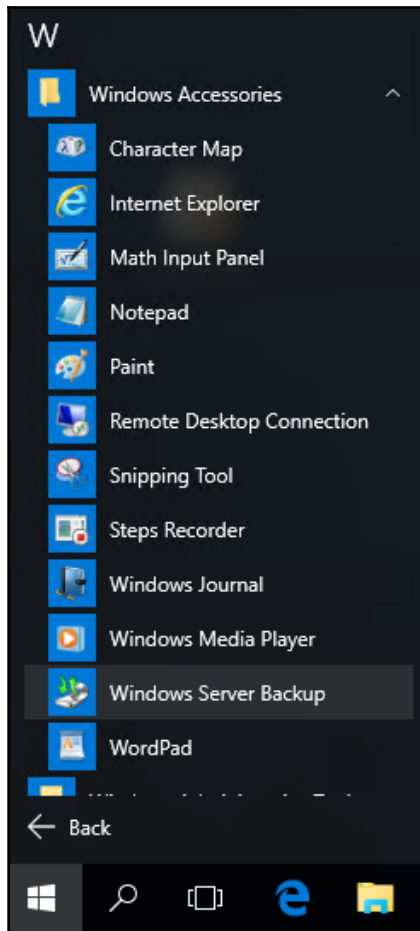
Wednesday, June 15, 2016 4:49:08 AM


PS C:\>
```

```
Administrator: Windows PowerShell
PS C:\> Get-Date | Format-List

DisplayHint : DateTime
Date        : 6/15/2016 12:00:00 AM
Day         : 15
DayOfWeek   : Wednesday
DayOfYear   : 167
Hour        : 4
Kind        : Local
Millisecond  : 157
Minute      : 50
Month       : 6
Second      : 19
Ticks       : 636015630191577572
TimeOfDay   : 04:50:19.1577572
Year        : 2016
DateTime    : Wednesday, June 15, 2016 4:50:19 AM

PS C:\>
```





## Select Backup Configuration

Getting Started	What type of configuration do you want to schedule?
Select Backup Configurat...	<input checked="" type="radio"/> Full server (recommended) I want to back up all my server data, applications and system state. Backup size: 9.27 GB
Specify Backup Time	<input type="radio"/> Custom I want to choose custom volumes, files for backup.
Specify Destination Type	
Confirmation	
Summary	

Getting Started

Select Backup Configurat...

**Specify Backup Time**

Specify Destination Type

Confirmation

Summary

How often and when do you want to run backups?

Once a day

Select time of day: 2:00 AM

More than once a day

Click an available time and then click Add to add it to the backup schedule.

Available time: Scheduled time:

12:00 AM	9:00 PM
12:30 AM	
1:00 AM	

Getting Started

Select Backup Configurat...

Specify Backup Time

Specify Destination Type

**Select Destination Volume**

Confirmation

Summary

Select one or more volumes to store your backups. Use multiple volumes in different disks if you want to store backups offsite.

Volume	Disk	Capacity	Free Space
Backups (D:)	Virtual HD ATA D...	48.83 GB	48.73 GB

Add Remove

**Actions**

Local Backup

- Backup Schedule...
- Backup Once...
- Recover...

Oldest available backup: 6/15/2016 5:38 AM

Newest available backup: 6/15/2016 5:38 AM

Available backups

Select the date of a backup to use for recovery. Backups are available for dates shown in bold.

June 2016						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	<b>15</b>	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Backup date: 6/15/2016  
Time: 5:38 AM  
Location: Backups (D:)  
Status: Available online  
Recoverable items: [Bare metal recover...](#)

Available items:

- WEB1
  - System Reserved
  - Local disk (C:)
    - \$Recycle.Bin
    - inetpub
    - NLS
    - PerfLogs
    - Program Files
    - Program Files (x86)
    - ProgramData
    - Recovery
    - System Volume Informati
    - Users
    - Windows

Items to recover:

Name	Date Modified
Default.htm	6/10/2016 8:2...

### IPAM SERVER TASKS

QUICK START	1 Connect to IPAM server Connected to IPAM1.MYDOMAIN.LOCAL Connected as MYDOMAIN\administrator
ACTIONS	2 Provision the IPAM server
LEARN MORE	3 Configure server discovery

Select a provisioning method for managed servers:

Manual

The manual provisioning method requires that you configure the required network shares, security groups, and firewall rules manually on each managed server.

Group Policy Based

The Group Policy based provisioning method requires Group Policy Objects (GPO) to be created in each domain that you manage with this IPAM server. IPAM will automatically configure settings on managed servers by adding the server to appropriate GPO. This can be especially useful in a large network with many managed servers. GPOs that you create must follow naming conventions used by IPAM, however you can customize the GPO name with a prefix of your choice. The GPO name prefix you specify should be unique for each IPAM server in the Active Directory forest.

\* GPO name prefix:

**i** You can create GPOs in each IPAM managed domain using the Invoke-IpamGpoProvisioning IPAM Windows PowerShell cmdlet.

```
Administrator: Windows PowerShell
PS C:\> Invoke-IPAMGpoProvisioning

cmdlet Invoke-IPAMGpoProvisioning at command pipeline position 1
Supply values for the following parameters:
Domain: MYDOMAIN.LOCAL
GpoPrefixName: IPAM1

Confirm
The Invoke-IPAMGpoProvisioning cmdlet creates and links three Group
Policy Objects in the domain indicated by Domain parameter, for
provisioning IPAM access settings on the servers that are managed by
IPAM. The cmdlet also modifies the domain wide DNS ACL to enable read
access for IPAM. The value of GpoPrefixName must be the same as the one
provided in the IPAM provisioning wizard when selecting the option of
Group Policy Based provisioning.

You have not specified the optional parameters DelegatedGpoUser or
DelegatedGpoGroup. The delegation parameters can be used to enable IPAM
GPO edit privileges for users or groups who do not have domain or
enterprise administrator privileges, but need to mark servers as managed
or unmanaged in IPAM. Do you want to perform this action?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
PS C:\>
```

Select the forest:

MYDOMAIN.LOCAL

Select domains to discover:

Select the server roles to discover:

Domain	Domain controller	DHCP server	DNS server
(root domain) mydomain.local	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Recommended Action	Manageability Status	IPAM Access Status	Server Name	DNS Suffix	Domain Name	Forest Name
Set Manageability Status	Unspecified	Blocked	DC1	MYDOMAIN.LOCAL	mydomain.local	MYDOMAIN
<div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <p>Edit Server...</p> <p>Retrieve All Server Data</p> <p>Refresh Server Access Status</p> <p>Delete</p> </div>						

OVERVIEW

SERVER INVENTORY

IP ADDRESS SPACE

  IP Address Blocks

  IP Address Inventory

  IP Address Range Groups

VIRTUALIZED IP ADDRESS SP...

MONITOR AND MANAGE

  DNS and DHCP Servers

### IPv4

IPv4 | 1 total TASKS ▾

Current view: IP Address Ranges ▾

Filter  🔍 ⌵ ▾

Utilization	Overlapping	Network	Start IP Address	End IP Address	Access Scope	Virtualized	Managed by Serv
Under	No	10.0.0.0/24	10.0.0.50	10.0.0.99	\Global	No	MS DHCP

PC status: Potentially unprotected

Home

Update

History

Settings

Help



Virus and spyware definitions are out of date.

- Real-time protection: **On**
- Virus and spyware definitions: **Out of date**

**Update definitions**

Scan options:

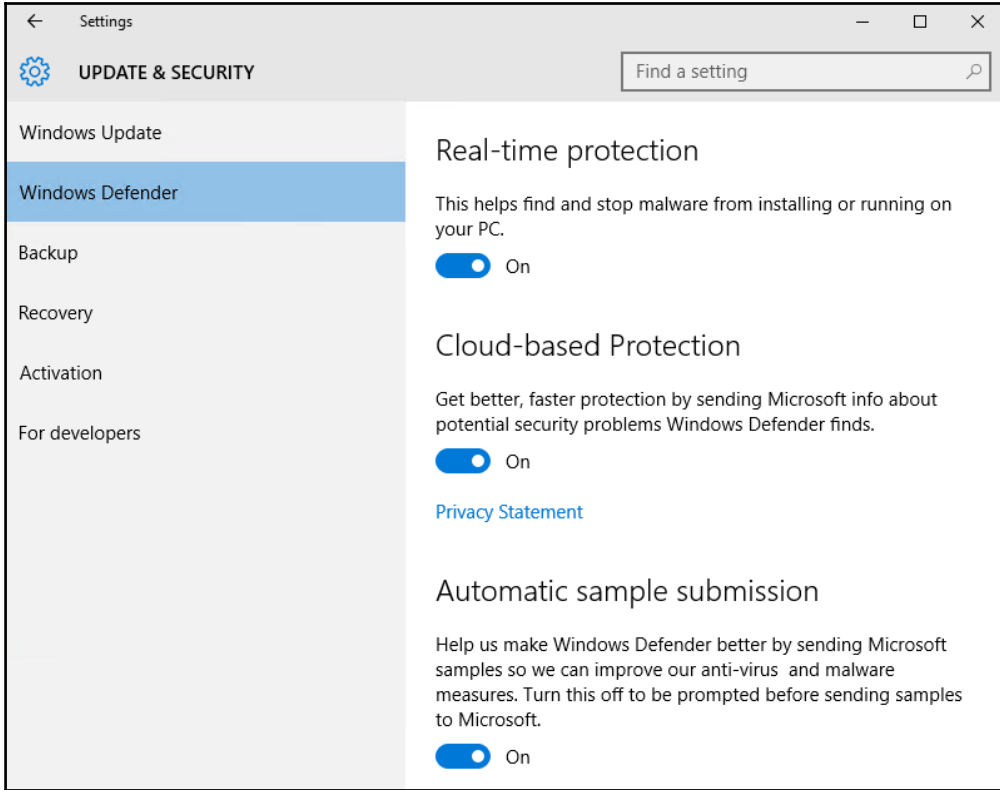
- Quick
- Full
- Custom

Scan now

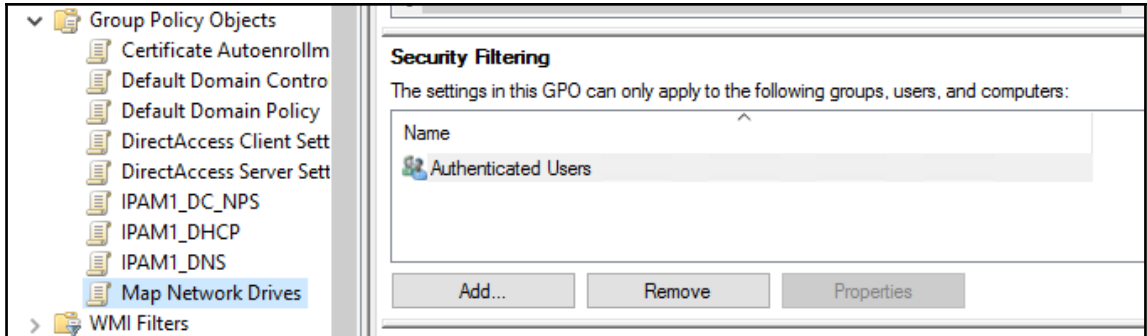
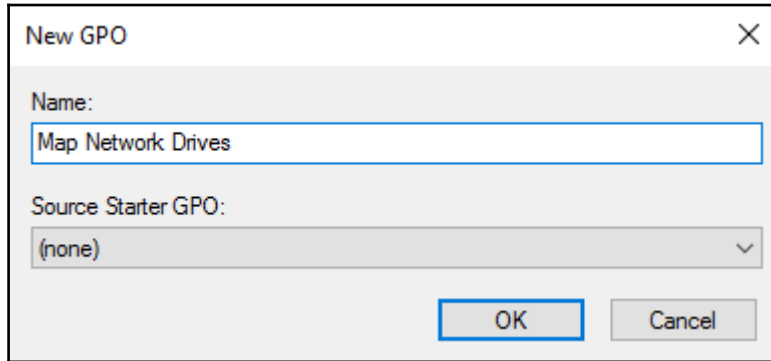


Scan details

Last scan: Today at 5:16 AM (Quick scan)



# Chapter 6: Group Policy



## Map Network Drives

Scope **Details** Settings Delegation Status

### Links

Display links in this location:


MYDOMAIN.LOCAL

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled	Path
< [Progress Bar] >			

### Security Filtering

The settings in this GPO can only apply to the following groups, users, and computers:

Name
 Sales Group (MYDOMAIN\Sales Group)

Add...

Remove

Properties

### Map Network Drives

Scope: Details Settings Delegation Status

**Links**

Display links in this location: MYDOMAIN.LOCAL

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled	Path
US Laptops	No	Yes	MYDOMAIN.LOCAL/US L

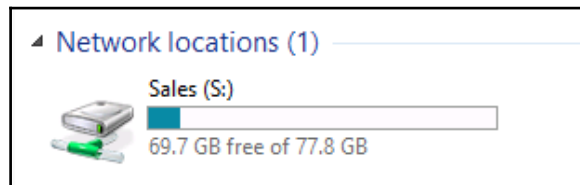
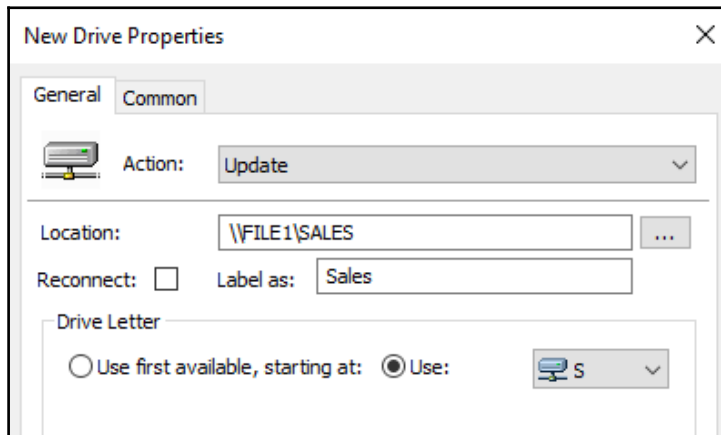
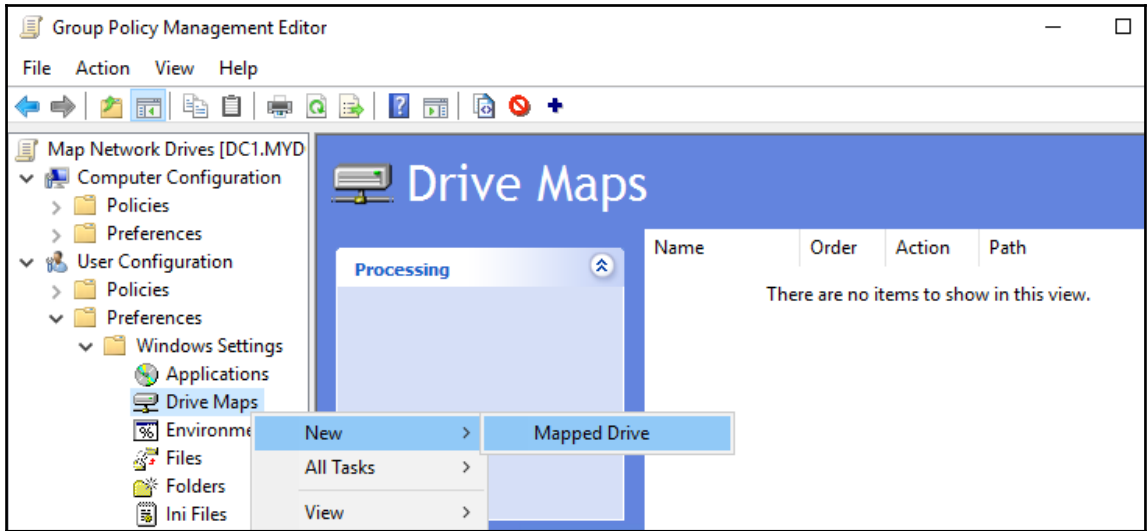
**Security Filtering**

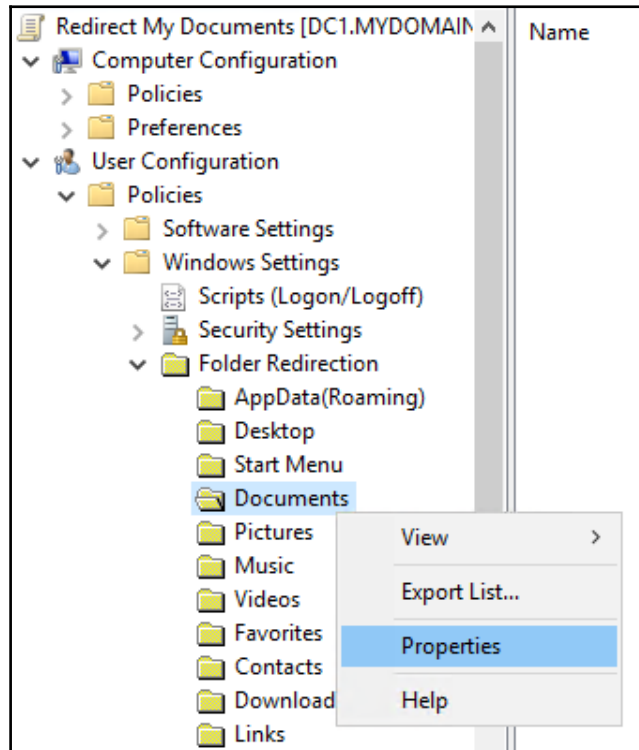
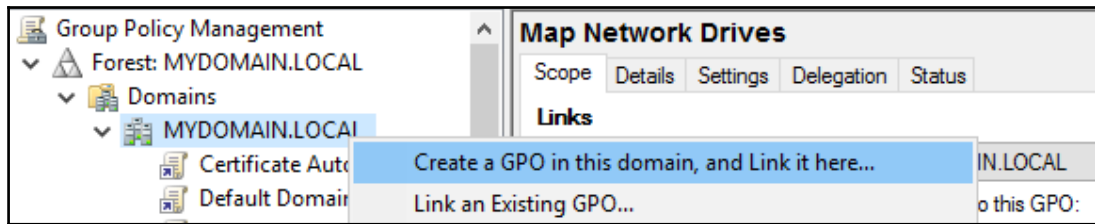
The settings in this GPO can only apply to the following groups, users, and computers:

Name
Sales Group (MYDOMAIN\Sales Group)

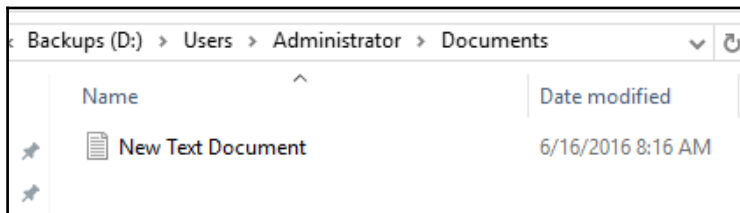
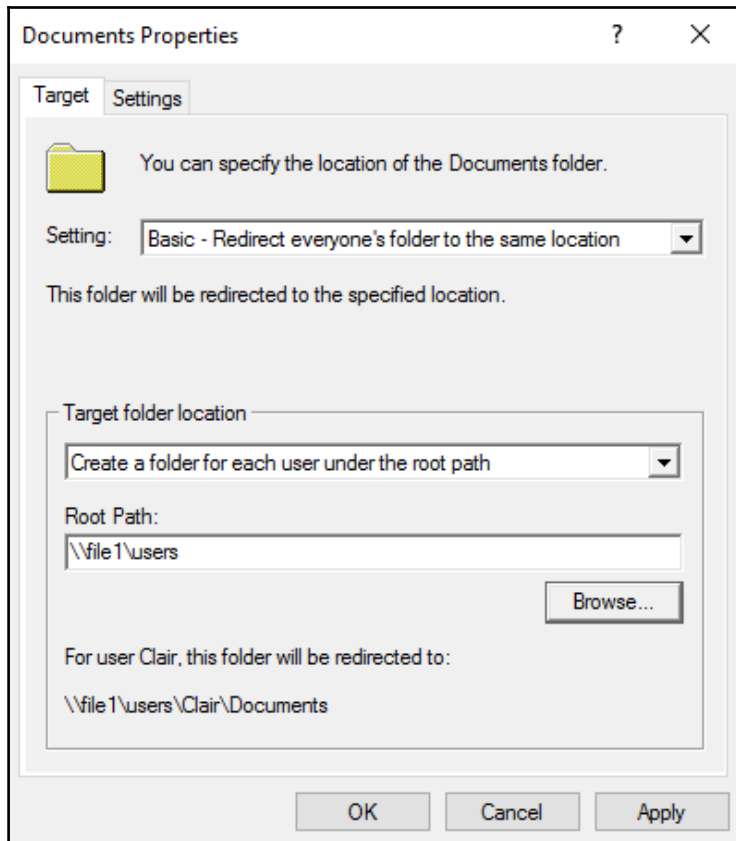
Add... Remove Properties

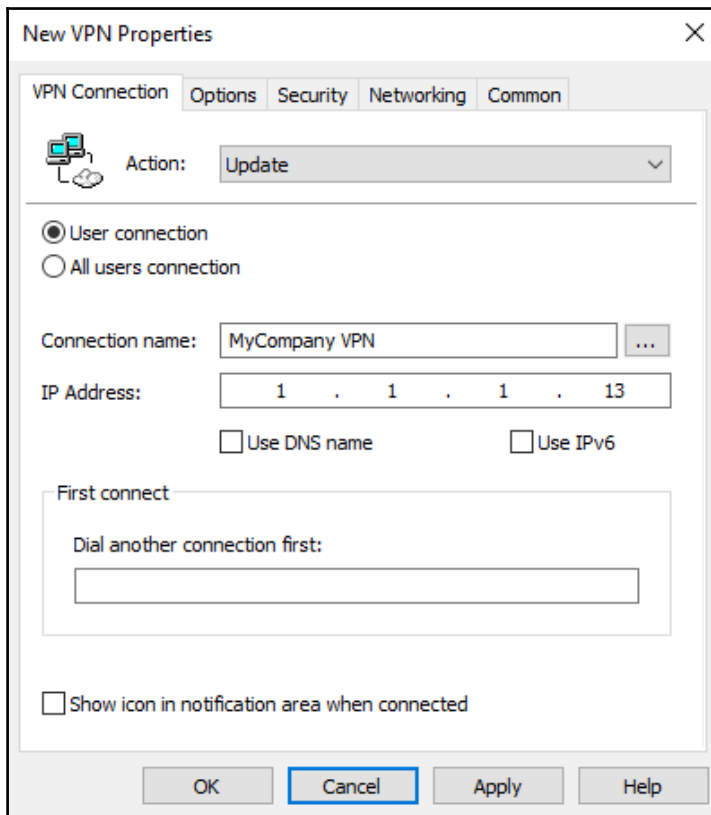
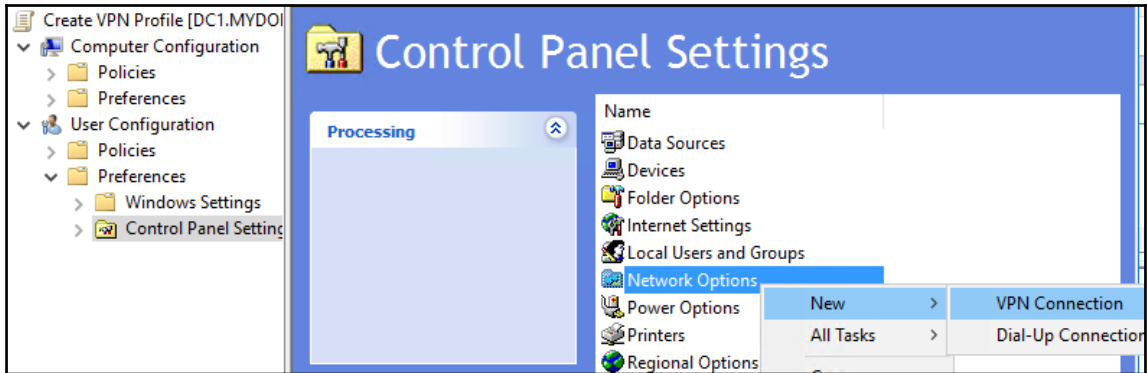
The screenshot shows the Group Policy Objects console. The left pane displays a tree view of GPOs, including 'US Laptops', 'Web Servers', 'Windows 10 Desktops', 'Windows 10 Laptops', 'Windows 7 Desktops', 'Windows 7 Laptops', 'Windows 8 Desktops', 'Windows 8 Laptops', 'Group Policy Objects', and 'WMI Filters'. The 'Map Network Drives' GPO is selected. A context menu is open over it, showing options: Edit... (highlighted), GPO Status, Back Up..., Restore from Backup..., Import Settings..., Save Report..., View, New Window from Here, Copy, Delete, Rename, Refresh, and Help. The 'WMI Filtering' pane is visible at the bottom.

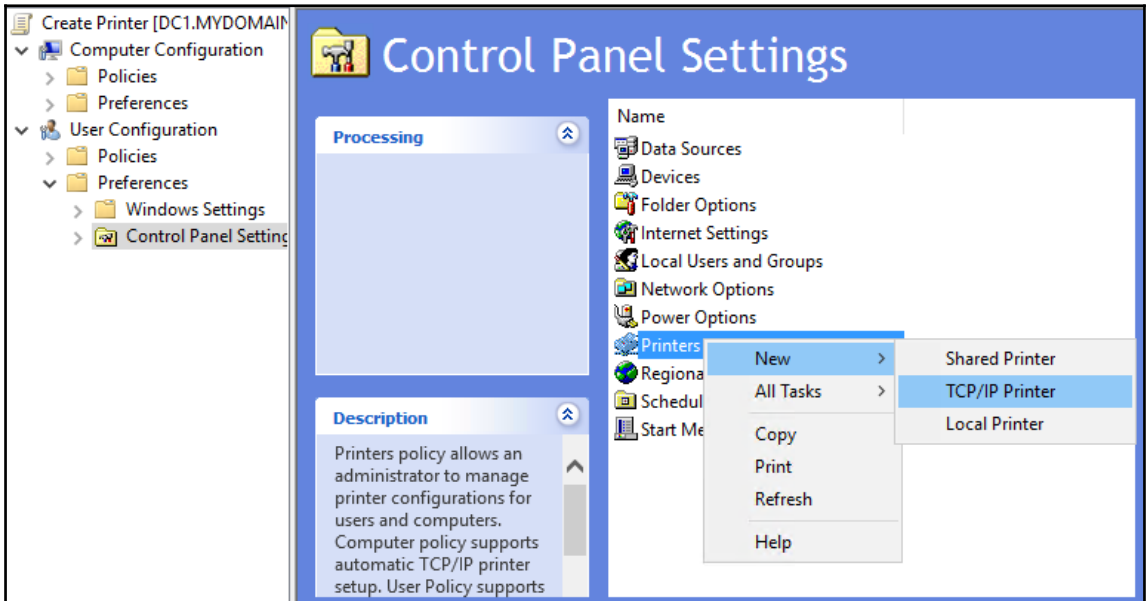
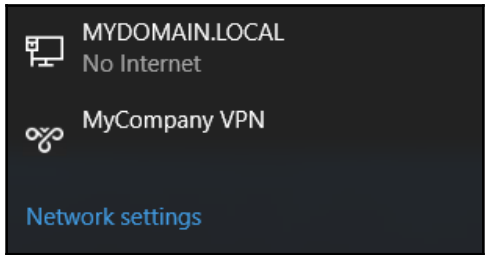


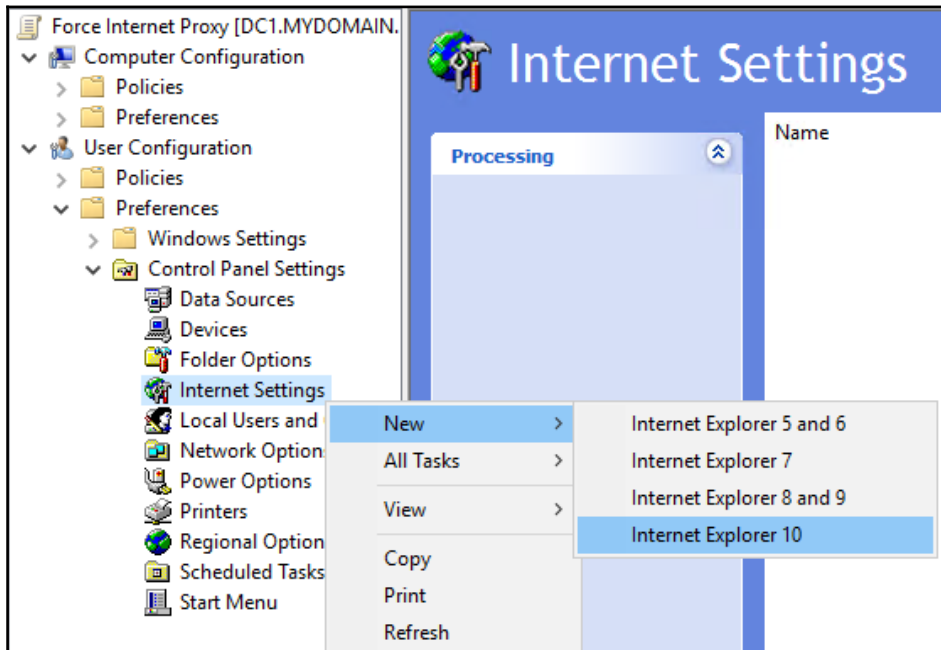
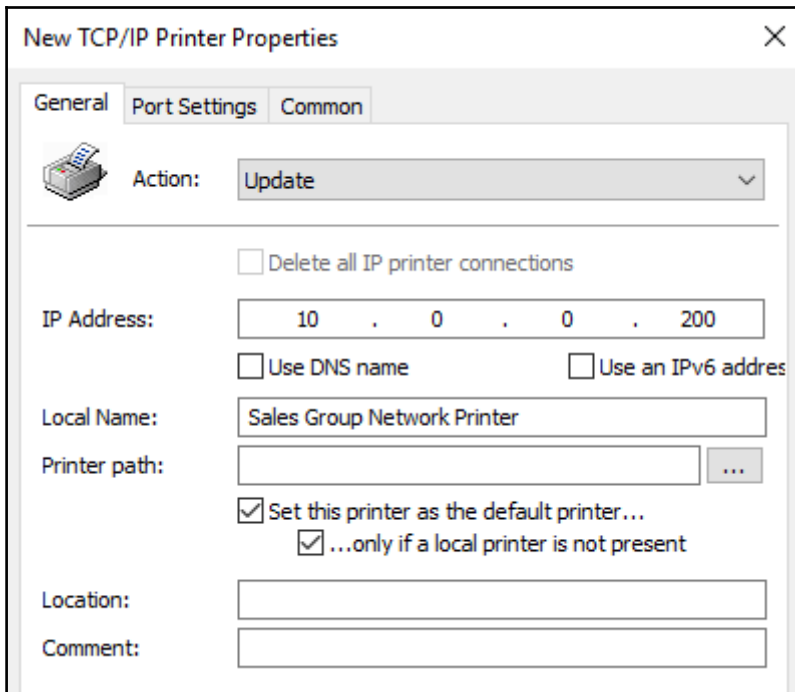


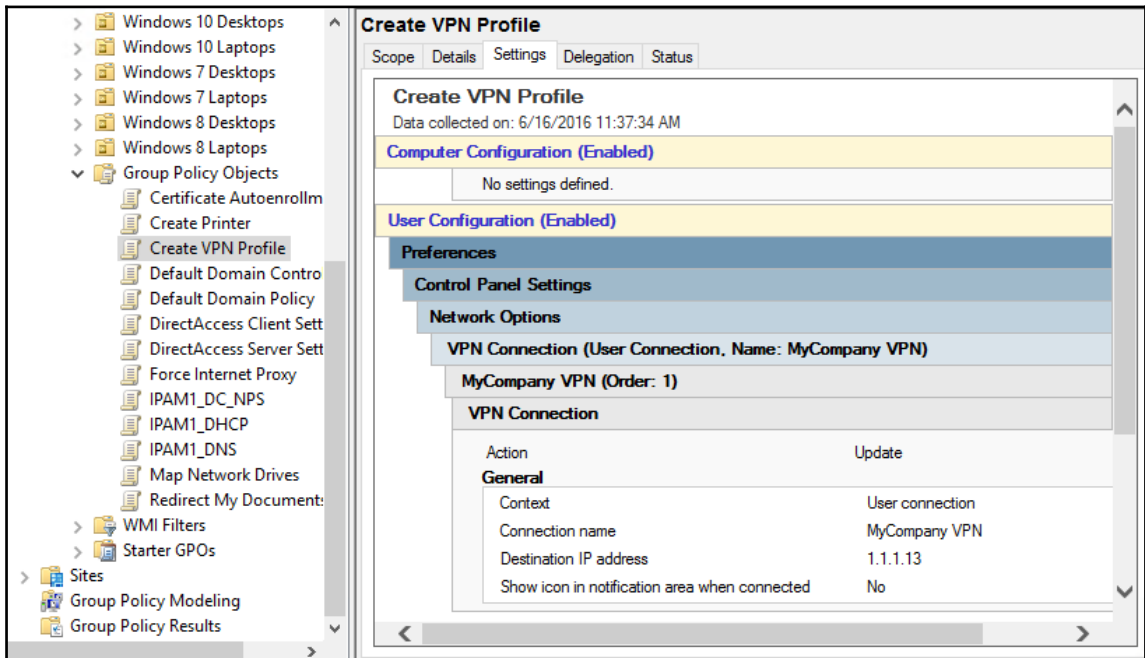
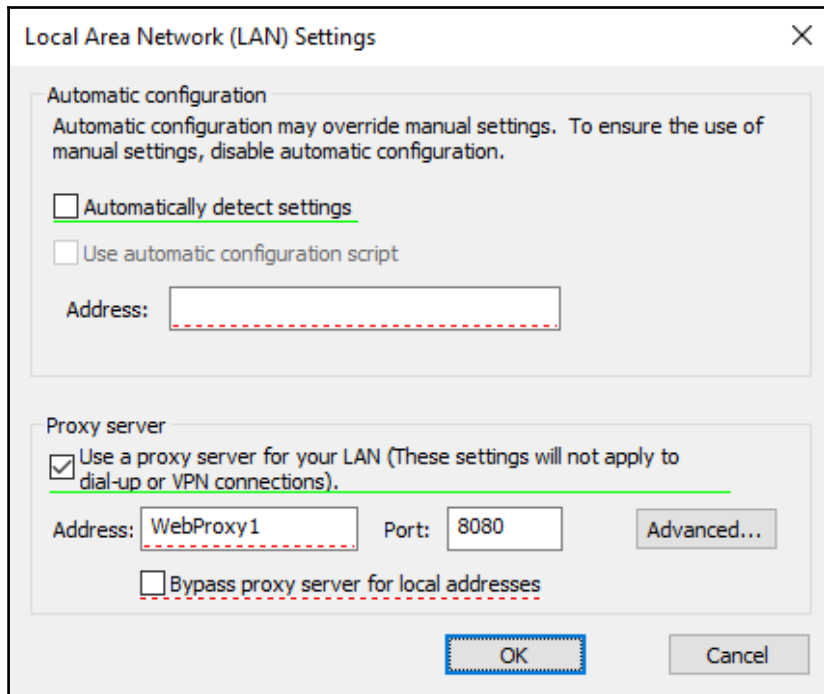












```
Administrator: Command Prompt
COMPUTER SETTINGS
-----
CN=WEB1,CN=Computers,DC=MYDOMAIN,DC=LOCAL
Last time Group Policy was applied: 6/16/2016 at 11:28:06 AM
Group Policy was applied from:      DC1.MYDOMAIN.LOCAL
Group Policy slow link threshold:   500 kbps
Domain Name:                        MYDOMAIN
Domain Type:                        Windows 2008 or later

Applied Group Policy Objects
-----
    Default Domain Policy
    Certificate Autoenrollment Policy

The following GPOs were not applied because they were filtered out
-----
    Local Group Policy
        Filtering:  Not Applied (Empty)

The computer is a part of the following security groups
-----
    BUILTIN\Administrators
    Everyone
    BUILTIN\Users
```

```
Administrator: Command Prompt
USER SETTINGS
-----
CN=Administrator,CN=Users,DC=MYDOMAIN,DC=LOCAL
Last time Group Policy was applied: 6/16/2016 at 10:39:31 AM
Group Policy was applied from:      DC1.MYDOMAIN.LOCAL
Group Policy slow link threshold:   500 kbps
Domain Name:                        MYDOMAIN
Domain Type:                        Windows 2008 or later

Applied Group Policy Objects
-----
    Redirect My Documents
    Create VPN Profile

The following GPOs were not applied because they were filtered out
-----
    Local Group Policy
        Filtering:  Not Applied (Empty)

The user is a part of the following security groups
-----
    Domain Users
    Everyone
    BUILTIN\Users
```

Group Policy Results

MYDOMAINAdministrator on MYDOMAINWEB1  
Data collected on: 6/16/2016 11:45:47 AM

**Summary**

During last **computer policy** refresh on 6/16/2016 11:28:07 AM

- No Errors Detected
- A fast link was detected [More information...](#)

During last **user policy** refresh on 6/16/2016 10:39:32 AM

- No Errors Detected
- A fast link was detected [More information...](#)

**Computer Details**

**General**

Computer name: MYDOMAINWEB1  
Domain: MYDOMAIN.LOCAL  
Site: Default-First-Site-Name  
Security Group Membership: [show](#)

**Component Status**

Component Name	Status	Time Taken	Last Process Time	Event Log
Group Policy Infrastructure	Success	867 Millisecond(s)	6/16/2016 11:28:07 AM	<a href="#">View Log</a>
Registry	Success	265 Millisecond(s)	6/8/2016 7:36:20 AM	<a href="#">View Log</a>
Security	Success	2 Second(s) 938 Millisecond(s)	6/8/2016 7:36:23 AM	<a href="#">View Log</a>

**Settings**

- Policies
- Windows Settings
- Security Settings

Windows 7 Laptops  
Windows 8 Desktops  
Windows 8 Laptops  
Group Policy Objects

**Create VPN Profile**  
Data collected on: 6/16/2016 11:37:34 AM

**Computer Configuration (Enabled)**

- Certificate Auto
- Create Printer
- Create VPN Prof
- Default Domain
- Default Domain
- DirectAccess Cli
- DirectAccess Ser
- Force Internet P
- IPAM1\_DC\_NPS
- IPAM1\_DHCP

- New
- Back Up All...
- Manage Backups...
- Open Migration Table Editor
- New Window from Here
- Refresh
- Help

User Connection, Name: MyCompany VPN)  
(Order: 1)

## Back Up Group Policy Object



Enter the name of the folder in which you want to store backed up versions of this Group Policy Object (GPO). You can back up multiple GPOs to the same folder.

Note: Settings that are external to the GPO, such as WMI filters and IPsec policies, are independent objects in Active Directory and will not be backed up.

To prevent tampering of backed up GPOs, be sure to secure this folder so that only authorized administrators have write access to this location.

Location:

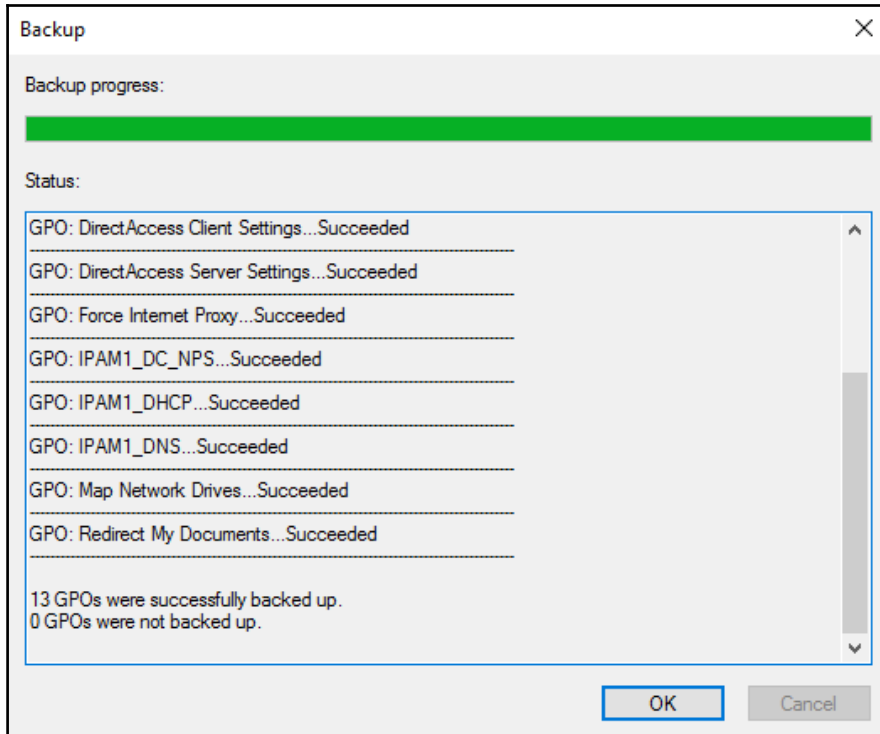
Browse...

Description:

Back Up

Cancel



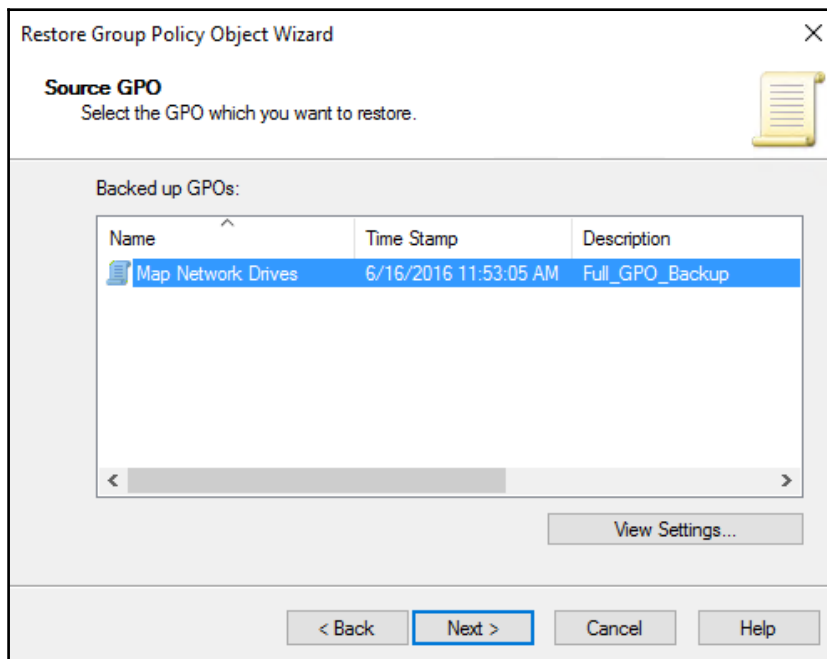
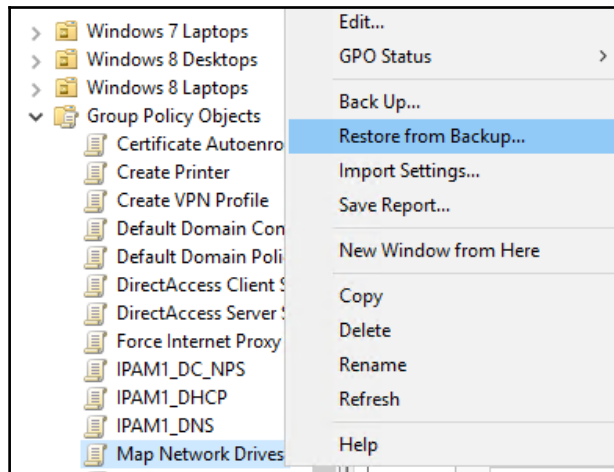


```
Administrator: Windows PowerShell
PS C:\> Backup-GPO -Path C:\GPO_Backups_PowerShell -All

DisplayName : Default Domain Policy
GpoId       : 31b2f340-016d-11d2-945f-00c04fb984f9
Id          : 31d0c7e9-137c-477e-a38f-5cbe3efa6031
BackupDirectory : C:\GPO_Backups_PowerShell
CreationTime : 6/16/2016 11:54:45 AM
DomainName  : MYDOMAIN.LOCAL
Comment    :

DisplayName : Force Internet Proxy
GpoId       : 5a88504a-9610-4fe3-aed2-fc039d1db9c5
Id          : 3b1ae8e6-568e-4b9d-b449-9514c9032412
BackupDirectory : C:\GPO_Backups_PowerShell
CreationTime : 6/16/2016 11:54:46 AM
DomainName  : MYDOMAIN.LOCAL
Comment    :

DisplayName : Default Domain Controllers Policy
GpoId       : 6ac1786c-016f-11d2-945f-00c04fb984f9
Id          : da05461a-f7a0-41d1-81ba-6cf42bc4cd62
BackupDirectory : C:\GPO_Backups_PowerShell
CreationTime : 6/16/2016 11:54:47 AM
DomainName  : MYDOMAIN.LOCAL
```



```
Administrator: Windows PowerShell
PS C:\> Restore-GPO -Name "Map Network Drives" -Path C:\GPO_Backups_PowerShell

DisplayName      : Map Network Drives
DomainName       : MYDOMAIN.LOCAL
Owner            : MYDOMAIN\Domain Admins
Id              : 77eed750-de8e-44e9-9649-96cab2f2abdc
GpoStatus        : AllSettingsEnabled
Description      :
CreationTime     : 6/16/2016 7:10:32 AM
ModificationTime : 6/16/2016 11:58:58 AM
UserVersion      : AD Version: 2, SysVol Version: 2
ComputerVersion  : AD Version: 2, SysVol Version: 2
WmiFilter        :

PS C:\> _
```

