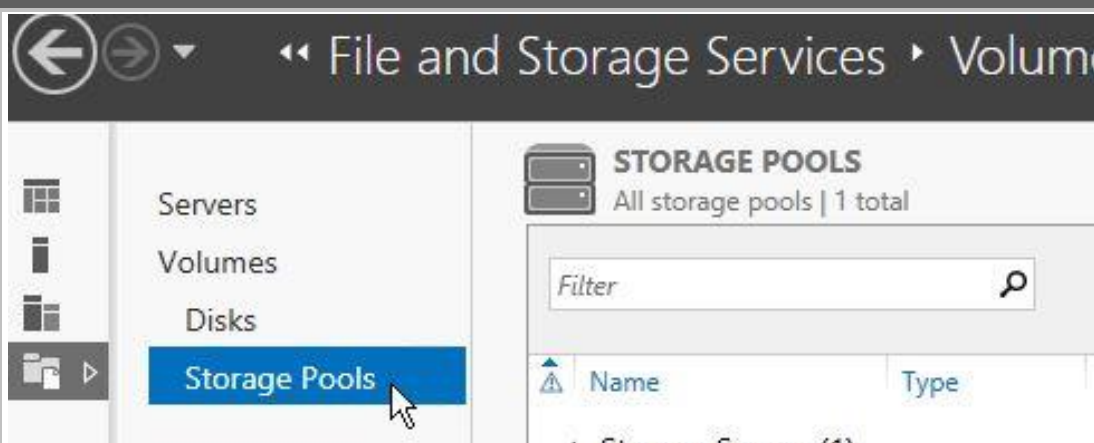
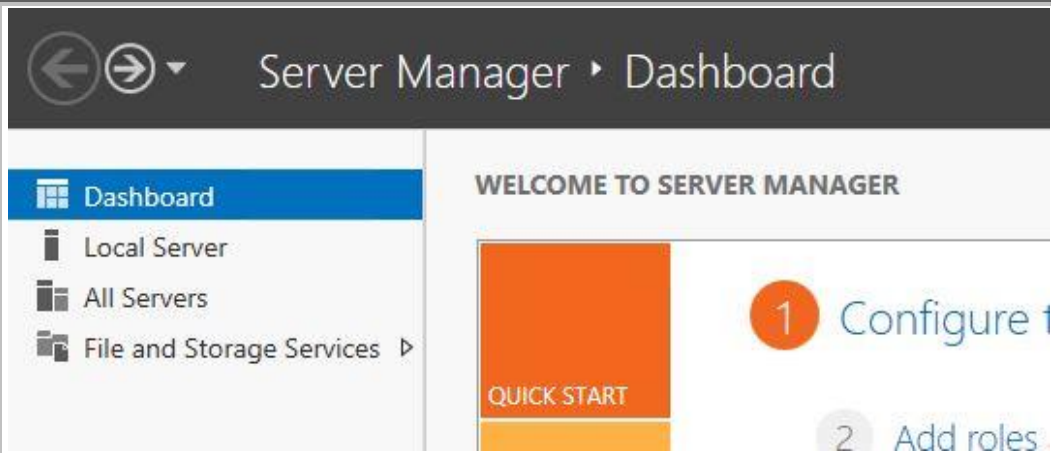
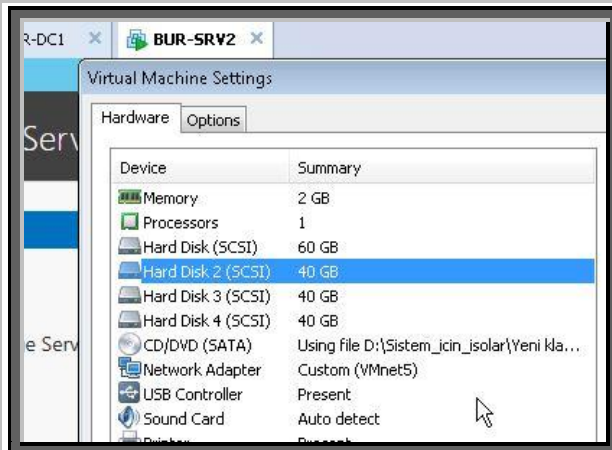


LAB:Disk Pool ve Iscsi

BUR-SRV2 üzerinde 3 adet 40 GB disk ekleyin



STORAGE POOLS

All storage pools | 1 total

TASKS

Filter

Name

Type

Managed by

Available to

Read-Write Server

Capacity

Free Space

Percent Alloc

Storage Spaces (1)

Primordial

Available Disks

BUR-SRV2

BUR-SRV2

BUR-SRV2

Last refreshed on 7/3/2015 5:28:03 PM

VIRTUAL DISKS

No related data is available.

TASKS

No related virtual disks exist.

To create a virtual disk, start the New Virtual Disk Wizard.

PHYSICAL DISKS

Primordial on BUR-SRV2

TASKS

Filter

Slot

Name

Status

Capacity

Bus

Usage

PhysicalDisk1 (BUR-SRV2)

40.0 GB

SAS

Automatic

PhysicalDisk2 (BUR-SRV2)

40.0 GB

SAS

Automatic

PhysicalDisk3 (BUR-SRV2)

40.0 GB

SAS

Automatic

STORAGE POOLS

All storage pools | 1 total

Filter

Name

Type

Managed by

Storage Spaces (1)

Primordial

Available Disks

BUR-SRV2

New Storage Pool...

New Virtual Disk...

Add Physical Disk...

Upgrade Storage Pool Version

New Storage Pool Wizard

Before you begin

Before You Begin

Storage Pool Name

Physical Disks

Confirmation

Results

This wizard helps you group physical disks into a storage pool, enabling you to make more efficient use of disk capacity. After creating a storage pool, you can use space in the pool to create volumes on virtual disks, which appear as normal disks to the operating system.

To create a storage pool, you must have at least one unused physical disk and a storage subsystem that can manage it, such as the included Storage Spaces subsystem or the subsystem included with a storage device.

To continue, click Next.

☐ Don't show this page again

< Previous

Next >

Create

Cancel

New Storage Pool Wizard

Specify a storage pool name and subsystem

Before You Begin
Storage Pool Name
Physical Disks
Confirmation
Results

Name:

Description:

Select the group of available disks (also known as a primordial pool) that you want to use:

Managed by	Available to	Subsystem	Primordial P
BUR-SRV2	BUR-SRV2	Storage Spaces	Primordial

< Previous Next > Create Cancel

New Storage Pool Wizard

Select physical disks for the storage pool

Before You Begin
Storage Pool Name
Physical Disks
Confirmation
Results

Select physical disks for the storage pool, and choose whether any disks should be allocated as hot spares that replace failed disks.

Physical disks:

<input checked="" type="checkbox"/>	Slot	Name	Capacity	Bus	RPM	Model	Allocation	Chas
<input checked="" type="checkbox"/>		PhysicalDisk1 (...)	40.0 GB	SAS		VMware Virtual S	Automatic	
<input checked="" type="checkbox"/>		PhysicalDisk2 (...)	40.0 GB	SAS		VMware Virtual S	Automatic	
<input checked="" type="checkbox"/>		PhysicalDisk3 (...)	40.0 GB	SAS		VMware Virtual S	Automatic	

Total selected capacity: 120 GB
Selecting these disks will create a local pool.

< Previous Next > Create Cancel

New Storage Pool Wizard

Confirm selections

Before You Begin
Storage Pool Name
Physical Disks
Confirmation
Results

Confirm that the following are the correct settings, and then click Create.

STORAGE POOL LOCATION

Server: BUR-SRV2
Cluster role: Not Clustered
Storage subsystem: Storage Spaces

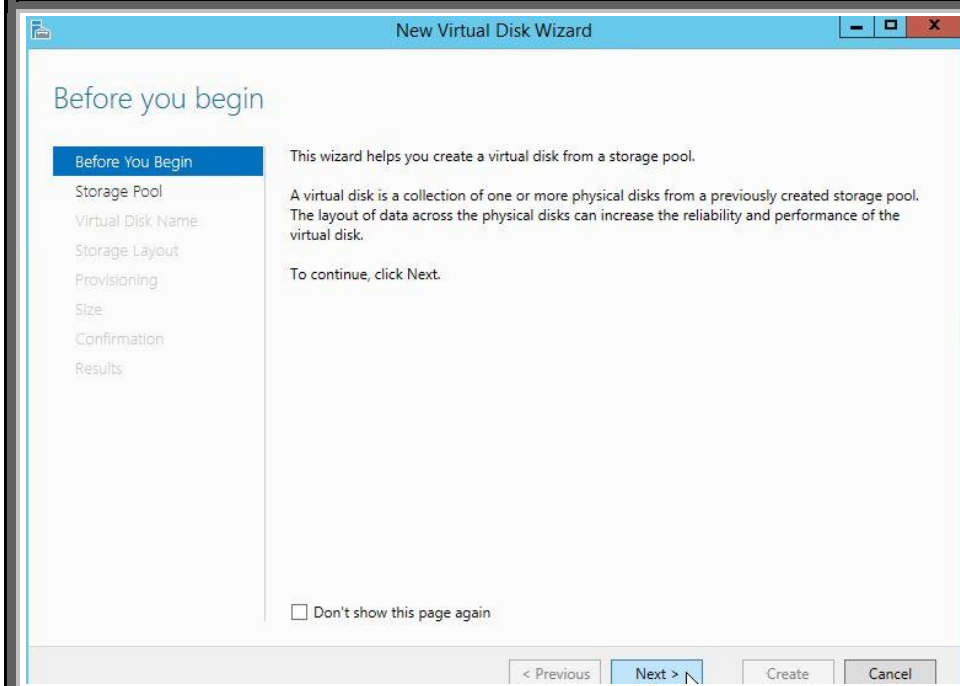
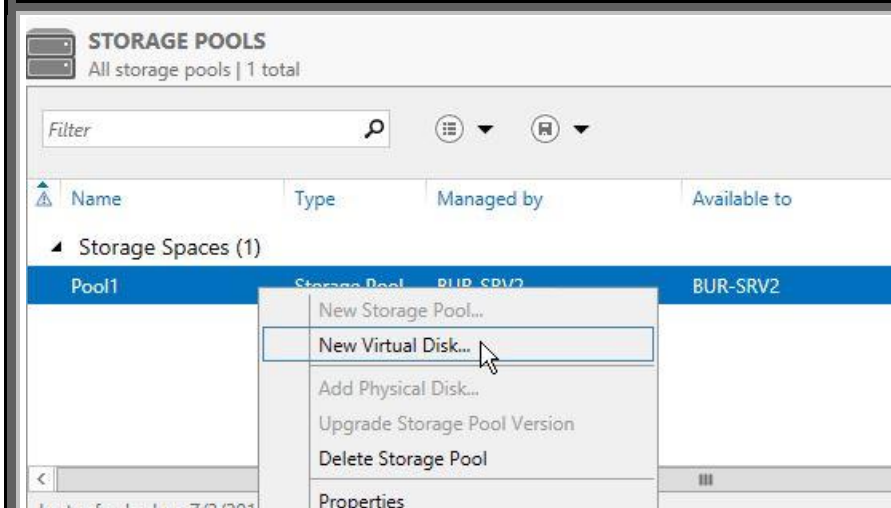
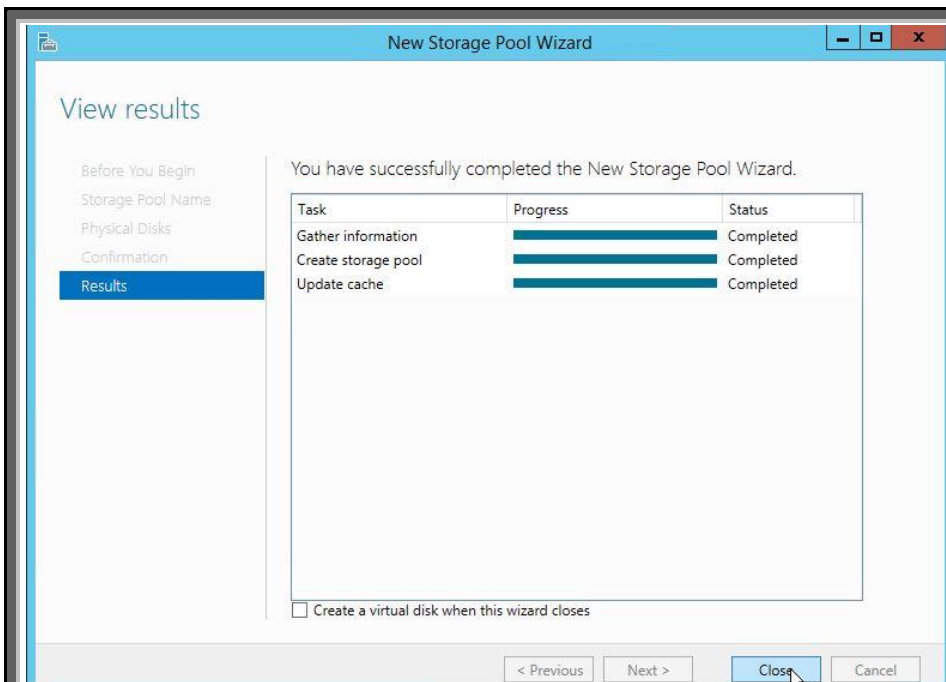
STORAGE POOL PROPERTIES

Name: Pool1
Capacity: 120 GB

PHYSICAL DISKS

PhysicalDisk1 (BUR-SRV2) Automatic
PhysicalDisk2 (BUR-SRV2) Automatic
PhysicalDisk3 (BUR-SRV2) Automatic

< Previous Next > Create Cancel



New Virtual Disk Wizard

Select the storage pool

Before You Begin

- Storage Pool
- Virtual Disk Name
- Storage Layout
- Provisioning
- Size
- Confirmation
- Results

Storage pool:

Pool Name	Managed by	Available to	Capacity	Free Space	Subsystem
Pool1	BUR-SRV2	BUR-SRV2	118 GB	117 GB	Storage Spaces

< Previous Next > Create Cancel

New Virtual Disk Wizard

Specify the virtual disk name

Before You Begin

- Storage Pool
- Virtual Disk Name
- Storage Layout
- Provisioning
- Size
- Confirmation
- Results

Name:

Description:

☐ Create storage tiers on this virtual disk
Storage tiers enable automatic movement of the most frequently accessed files to faster (SSD) storage.

i To use storage tiers, the storage pool requires a minimum of one automatically allocated physical disk of each media type (SSD and HDD).

< Previous Next > Create Cancel

New Virtual Disk Wizard

Select the storage layout

Before You Begin

- Storage Pool
- Virtual Disk Name
- Storage Layout
- Provisioning
- Size
- Confirmation
- Results

Layout:

- Simple
- Mirror
- Parity

Description:

Data and parity information are striped across physical disks, increasing reliability, but somewhat reducing capacity. This storage layout requires at least three disks to protect you from a single disk failure and at least seven disks to protect you from two disk failures.

< Previous Next > Create Cancel

New Virtual Disk Wizard

Specify the provisioning type

Before You Begin

Storage Pool

Virtual Disk Name

Storage Layout

Provisioning

Size

Confirmation

Results

Provisioning type:

☐ Thin
The volume uses space from the storage pool as needed, up to the volume size.

☒ Fixed
The volume uses space from the storage pool equal to the volume size.

< Previous

Next >

Create

Cancel

Specify the size of the virtual disk

Before You Begin

Storage Pool

Virtual Disk Name

Storage Layout

Provisioning

Size

Confirmation

Free space in this storage pool: 74.0 GB

☐ Specify size:
 GB

☒ Maximum size

New Virtual Disk Wizard

Confirm selections

Before You Begin

Storage Pool

Virtual Disk Name

Storage Layout

Provisioning

Size

Confirmation

Results

Confirm that the following are the correct settings, and then click Create.

VIRTUAL DISK LOCATION

Server: BUR-SRV2

Subsystem: Storage Spaces

Storage pool name: Pool1

Status: OK

Free space: 117 GB

VIRTUAL DISK PROPERTIES

Name: VDisk1

Storage tiers: Disabled

Storage layout: Parity

Provisioning type: Fixed

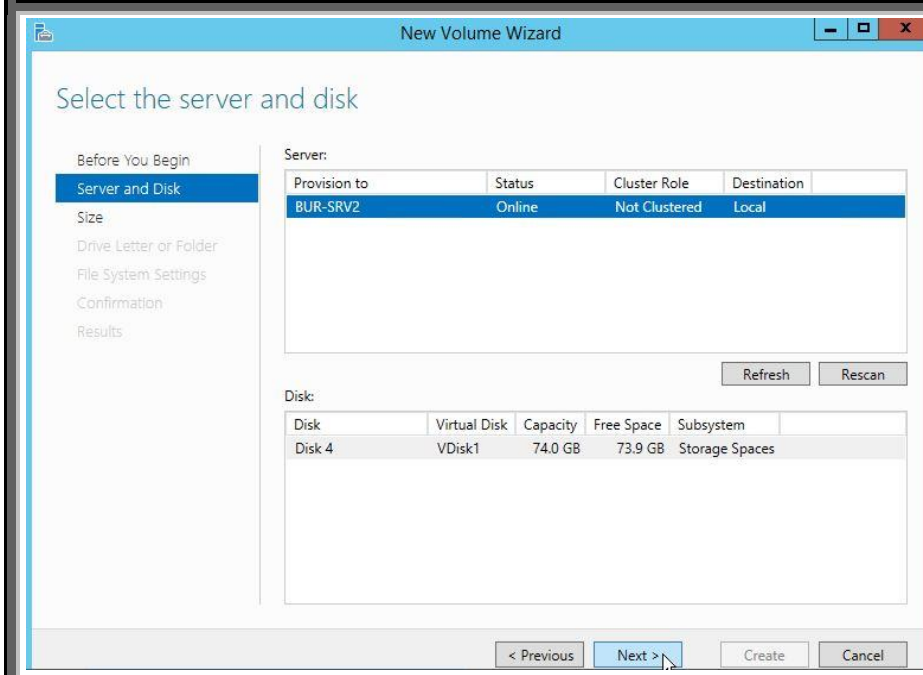
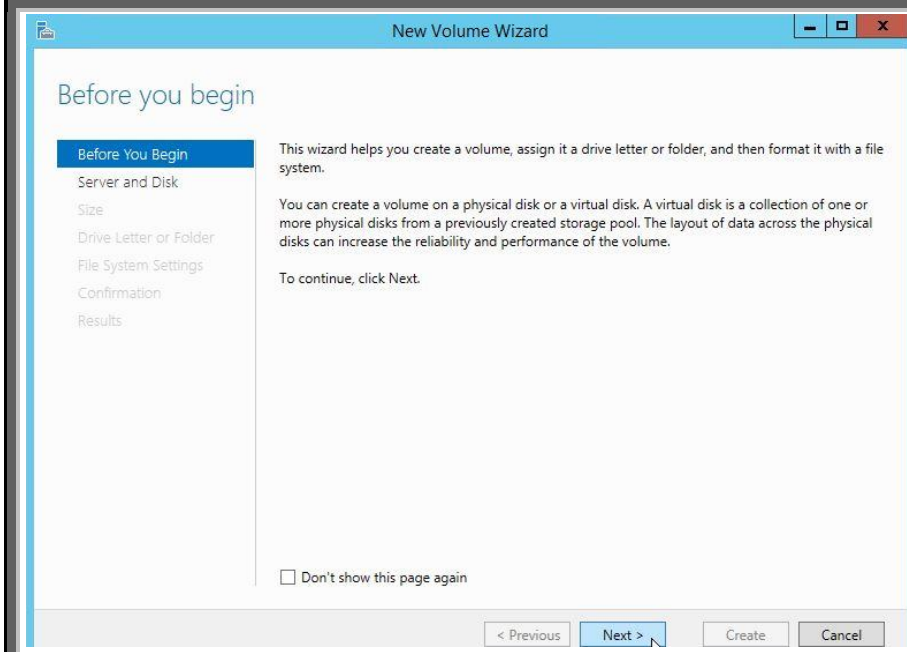
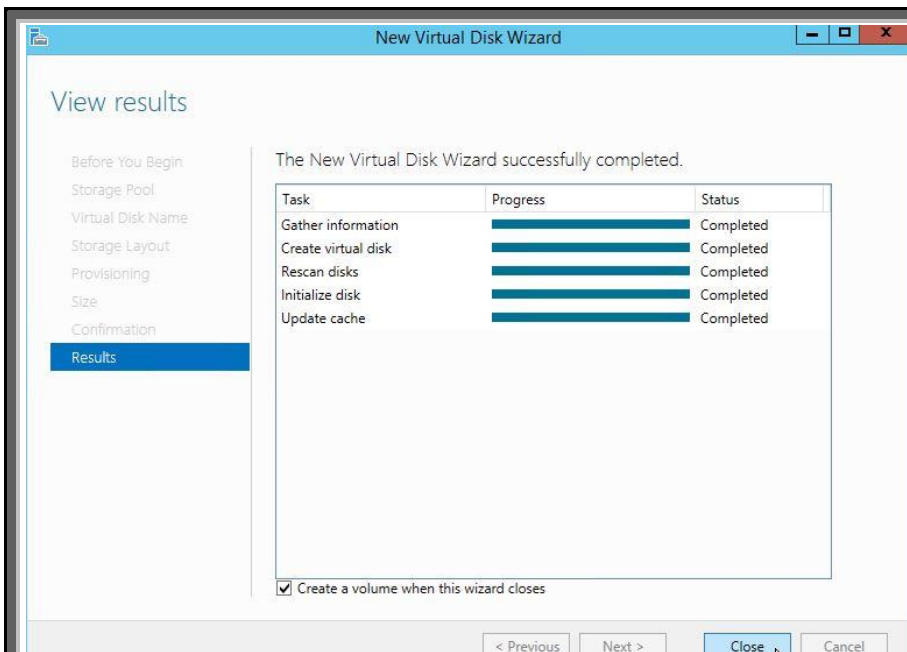
Requested size: 74.0 GB

< Previous

Next >

Create

Cancel



New Volume Wizard

Specify the size of the volume

Before You Begin
Server and Disk
Size
Drive Letter or Folder
File System Settings
Confirmation
Results

Available Capacity: 73.9 GB
Minimum size: 8.00 MB
Volume size: GB

< Previous Next > Create Cancel

New Volume Wizard

Assign to a drive letter or folder

Before You Begin
Server and Disk
Size
Drive Letter or Folder
File System Settings
Confirmation
Results

Select whether to assign the volume to a drive letter or a folder. When you assign a volume to a folder, the volume appears as a folder within a drive, such as D:\UserData.

Assign to:

☒ Drive letter:

☐ The following folder: Browse...

☐ Don't assign to a drive letter or folder.

< Previous Next > Create Cancel

New Volume Wizard

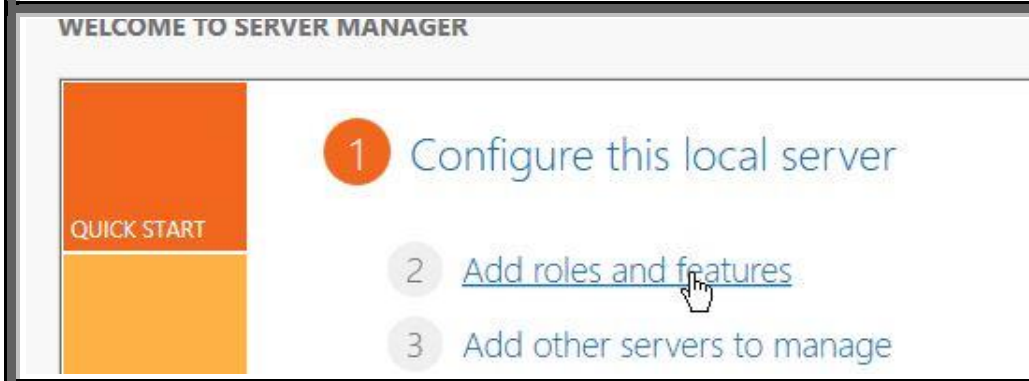
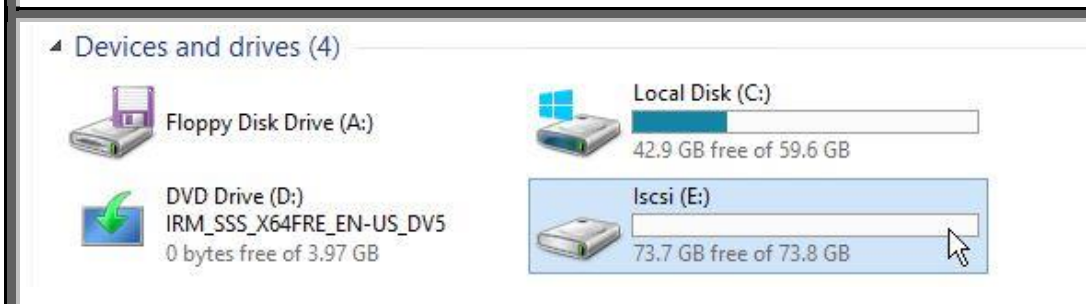
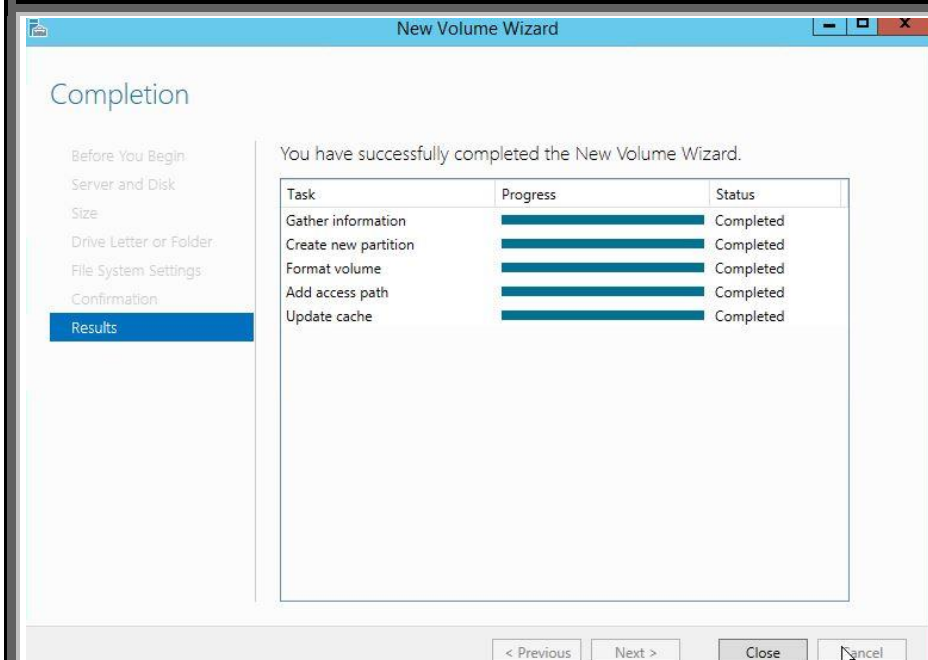
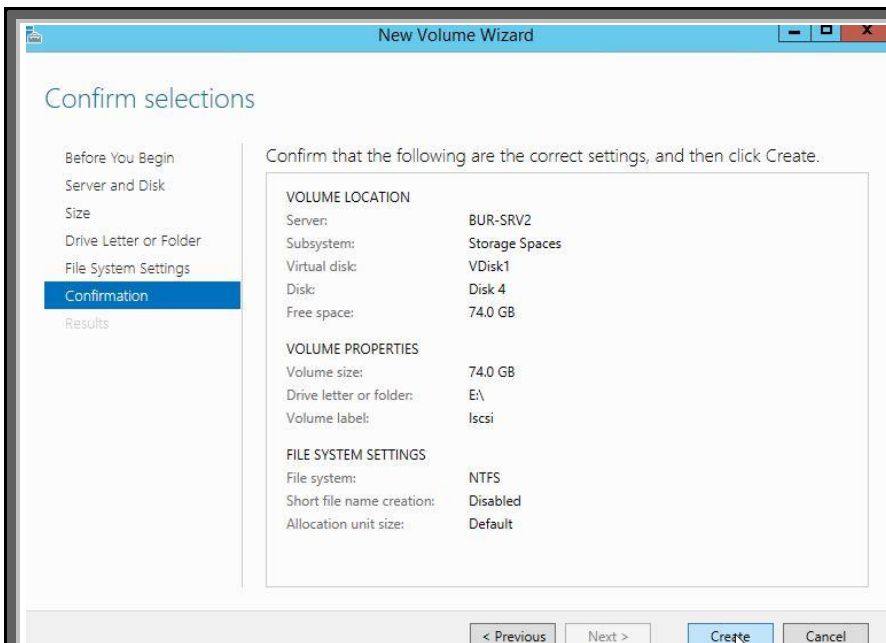
Select file system settings

Before You Begin
Server and Disk
Size
Drive Letter or Folder
File System Settings
Confirmation
Results

File system:
Allocation unit size:
Volume label:

☐ Generate short file names (not recommended)
Short file names (8 characters with 3-character extensions) are required for some 16-bit applications running on client computers, but make file operations slower.

< Previous Next > Create Cancel



Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select the installation type. You can install roles and features on a running physical machine, or on an offline virtual hard disk (VHD).

☒ **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 or session-based desktop deployment.

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

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
BUR-SRV2.Datahouse.io...	192.168.1.3	Microsoft Windows Server 2012 R2 Datacenter

Roles

File and Storage Services (1 of 12 installed)

File and iSCSI Services

☐ File Server

☐ BranchCache for Network Files

☐ Data Deduplication

☐ DFS Namespaces

☐ DFS Replication

☐ File Server Resource Manager

☐ File Server VSS Agent Service

☐ iSCSI Target Server

Add Roles and Features Wizard

Add features that are required for iSCSI Target Server?

You cannot install iSCSI Target Server unless the following role services or features are also installed.

File and Storage Services

File and iSCSI Services

File Server

☒ Include management tools (if applicable)

Add Features

Cancel

Select server roles

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

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

Roles

☒ File and Storage Services (1 of 12 installed)

- ☒ File and iSCSI Services
 - ☒ File Server
 - ☐ BranchCache for Network Files
 - ☐ Data Deduplication
 - ☐ DFS Namespaces
 - ☐ DFS Replication
 - ☐ File Server Resource Manager
 - ☐ File Server VSS Agent Service
 - ☒ iSCSI Target Server
 - ☐ iSCSI Target Storage Provider (VDS and VSS)
 - ☐ Server for NFS
 - ☐ Work Folders
- ☒ Storage Services (Installed)

Description

iSCSI and targ

< Previous

Next >

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

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

Features

☐ .NET Framework 3.5 Features

☒ .NET Framework 4.5 Features (2 of 7 installed)

- ☐ Background Intelligent Transfer Service (BITS)
- ☐ BitLocker Drive Encryption
- ☐ BitLocker Network Unlock
- ☐ BranchCache
- ☐ Client for NFS
- ☐ Data Center Bridging
- ☐ Direct Play
- ☐ Enhanced Storage
- ☐ Failover Clustering
- ☐ Group Policy Management
- ☐ IIS Hostable Web Core
- ☐ Ink and Handwriting Services

Description

.NET F
power
APIs v
buildi
appea
your c
inform
securi
the at
busine

< Previous

Next >

Confirm installation selections

DESTINATION SERVER
BUR-SRV2.Datahouse.local

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

To install the following roles, role services, or features on selected server, click Install.

☐ Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

File and Storage Services
File and iSCSI Services
File Server
iSCSI Target Server

Export configuration settings
Specify an alternate source path

< Previous

Next >

Install

Cancel

View installation progress

Feature installation

Installation succeeded on BUR-SRV2.Datahouse.local.

File and Storage Services

File and iSCSI Services
File Server
iSCSI Target Server

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](#)

< Previous

Next >

Close

Cancel



Server Manager ▸ Dashboard



Dashboard

Local Server

All Servers

File and Storage Services ▸

WELCOME TO SERVER MANAGER



1 Configure this local serv



File and

- Servers
- Volumes
- Disks
- Storage Pools
- Shares
- iSCSI**
- Work Folders



iSCSI VIRTUAL DISKS

All iSCSI virtual disks | 0 total

TASKS ▾

There are no iSCSI virtual disks.

[To create an iSCSI virtual disk, start the New iSCSI Virtual Disk Wizard.](#)

Server:

Server Name	Status	Cluster Role	Owner Node
BUR-SRV2	Online	Not Clustered	

The list is filtered to show only servers with the iSCSI Target Server role installed.

Storage location:

Select by volume:

Volume	Free Space	Capacity	File System
C:	43.1 GB	59.7 GB	NTFS
E:	73.8 GB	73.9 GB	NTFS

The iSCSI virtual disk will be saved at \iSCSIVirtualDisk on the selected volume.

Type a custom path:

< Previous

Next >

Create

Cancel

Specify iSCSI virtual disk name

iSCSI Virtual Disk Location

iSCSI Virtual Disk Name

iSCSI Virtual Disk Size

iSCSI Target

Target Name and Access

Access Servers

Enable authentication ser...

Confirmation

Results

Name:

IscsiVD1

Description:

Path:

E:\iSCSIVirtualDisks\IscsiVD1.vhdx

< Previous

Next >

Specify iSCSI virtual disk size

iSCSI Virtual Disk Location

iSCSI Virtual Disk Name

iSCSI Virtual Disk Size

iSCSI Target

Target Name and Access

Access Servers

Enable authentication ser...

Confirmation

Results

Free space: 73.7 GB

Size:

20

GB

☐ Fixed size

This type of disk provides better performance and is recommended for servers running applications with a high level of disk activity. The virtual hard disk is created using the size of the fixed virtual hard disk. It does not change when data is added or deleted.

☒ Clear the virtual disk on allocation

Note: Un-selecting is NOT RECOMMENDED. Clearing a disk to zero will remove any fragments of data that remained on underlying storage, thus protecting from information leaks.

☒ Dynamically expanding

This type of disk provides better use of physical storage space and is recommended for servers running applications that are not disk intensive. The .vhdx file is small when the disk is created and grows as data is written to it.

☐ Differencing

This type of disk is associated in a parent-child relationship with another disk that you want to leave intact. You can make changes to this virtual hard disk without affecting the parent disk and easily revert the changes later.

Parent virtual disk path:

Browse...

< Previous

Next >

Create

Cancel

☒ New iSCSI target

< Previous

Next >

Create

Cancel

Specify target name

iSCSI Virtual Disk Location

iSCSI Virtual Disk Name

iSCSI Virtual Disk Size

iSCSI Target

Target Name and Access

Access Servers

Enable authentication ser...

Confirmation

Results

Name:

Iscsi-Bur-DC1

Description:

< Previous

Next >

Create

Cancel

ISCSI Virtual Disk Location

ISCSI Virtual Disk Name

ISCSI Virtual Disk Size

ISCSI Target

Target Name and Access

Access Servers

Enable authentication ser...

Confirmation

Results

Click Add to specify the iSCSI initiator(s) that will access this iSCSI virtual disk.

Type	Value
------	-------

Add...

Remove

Add initiator ID

Select a method to identify the initiator:

☒ Query initiator computer for ID (not supported on Windows Server 2008 R2, Windows 7, or earlier):

Browse...

☐ Select from the initiator cache on the target server:

Add initiator ID

Select Computer

Select this object type:

Computer

Object Types...

From this location:

Entire Directory

Locations...

Enter the object name to select (examples):

BUR-DC1

Check Names

Advanced...

OK

Cancel

Add initiator ID

Select a method to identify the initiator:

☒ Query initiator computer for ID (not supported on Windows Server 2008 R2, Windows 7, or earlier):

bur-dc1.datahouse.local

Browse...

☐ Select from the initiator cache on the target server:

☐ Enter a value for the selected type:
Type:

IQN

 Value:

Browse...

OK

Cancel

specify access servers

ISCSI Virtual Disk Location
ISCSI Virtual Disk Name
ISCSI Virtual Disk Size
ISCSI Target
Target Name and Access
Access Servers
Enable authentication ser...
Confirmation
Results

Click Add to specify the iSCSI initiator(s) that will access this iSCSI virtual disk.

Type	Value
IQN	iqn.1991-05.com.microsoft:bur-dc1.datahouse.local

Add...

Remove

Enable Authentication

ISCSI Virtual Disk Location
ISCSI Virtual Disk Name
ISCSI Virtual Disk Size
ISCSI Target
Target Name and Access
Access Servers
Enable authentication ser...
Confirmation
Results

Optionally, enable the CHAP protocol to authenticate initiator connections, or enable reverse CHAP to allow the initiator to authenticate the iSCSI target.

☐ Enable CHAP:
User name:
Password:
Confirm password:

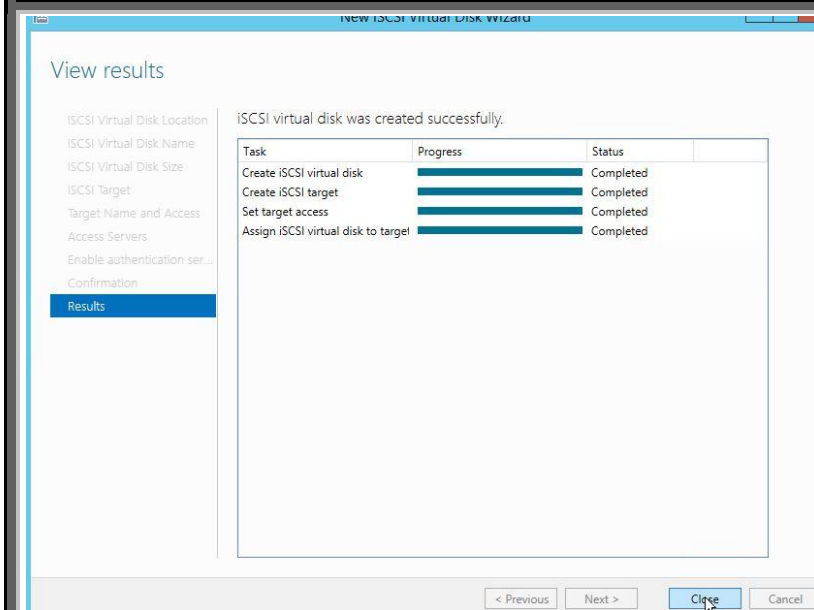
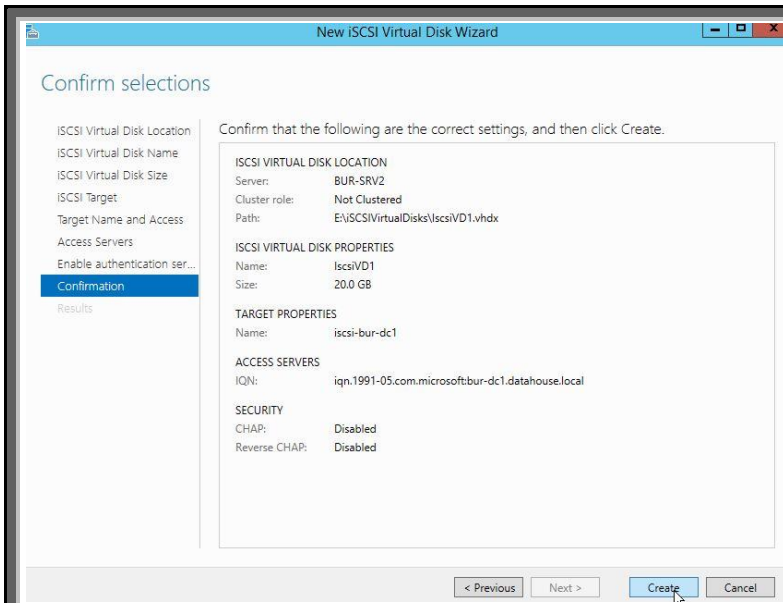
☐ Enable reverse CHAP:
User name:
Password:
Confirm password:

< Previous

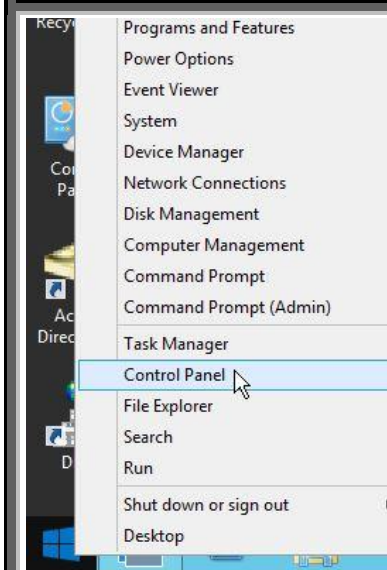
Next >

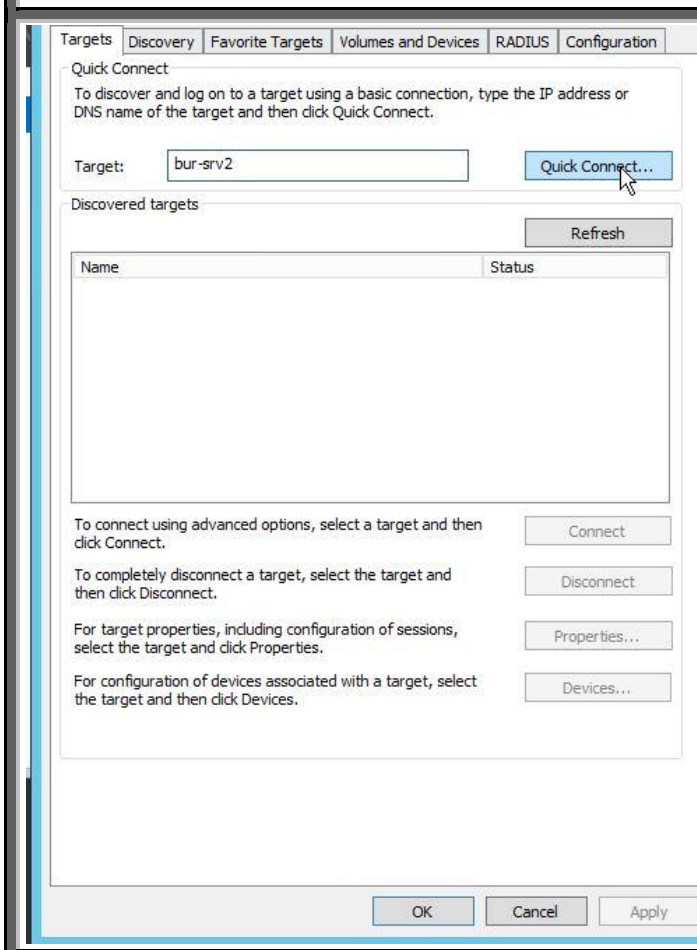
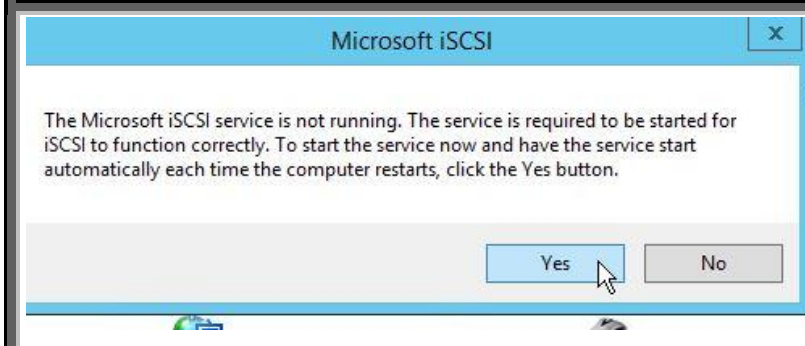
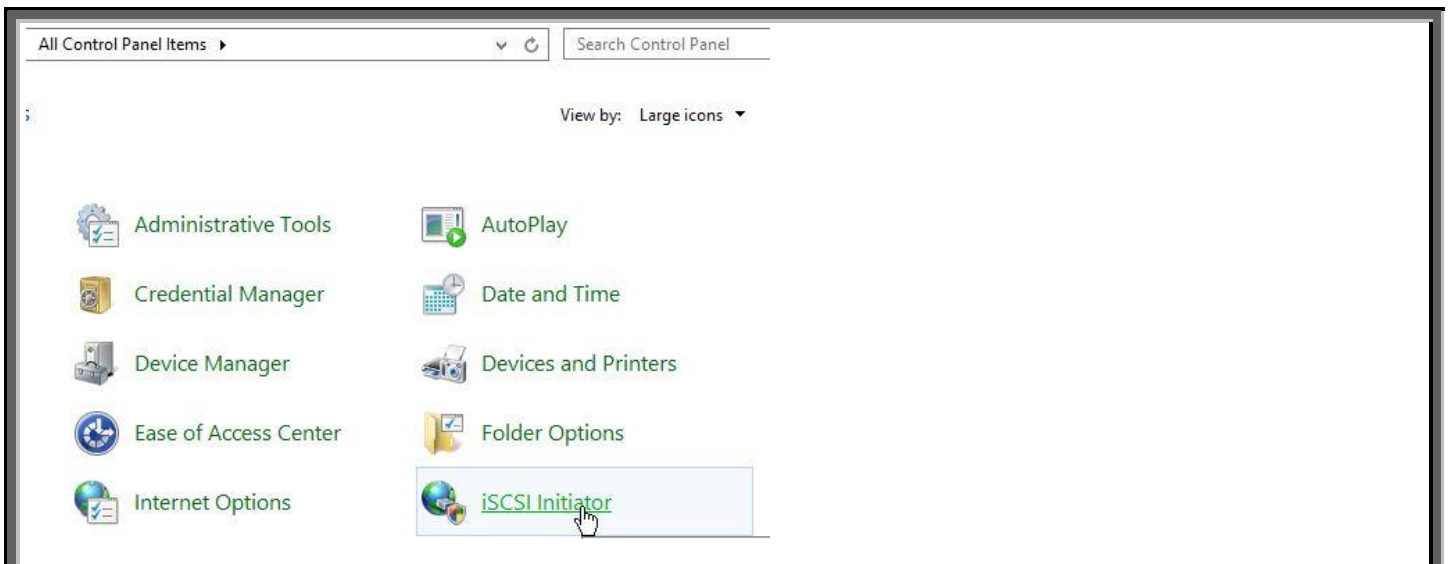
Create

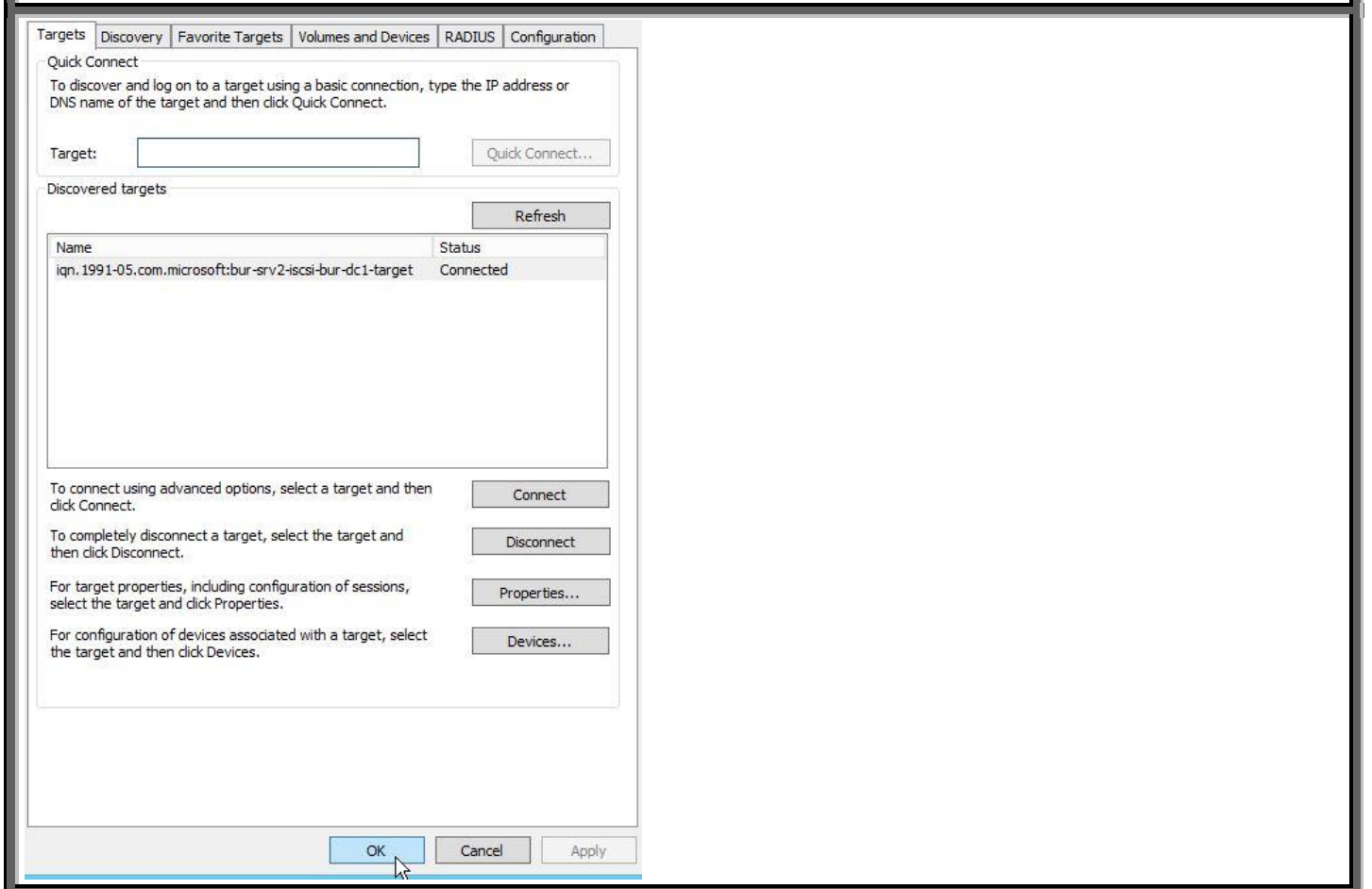
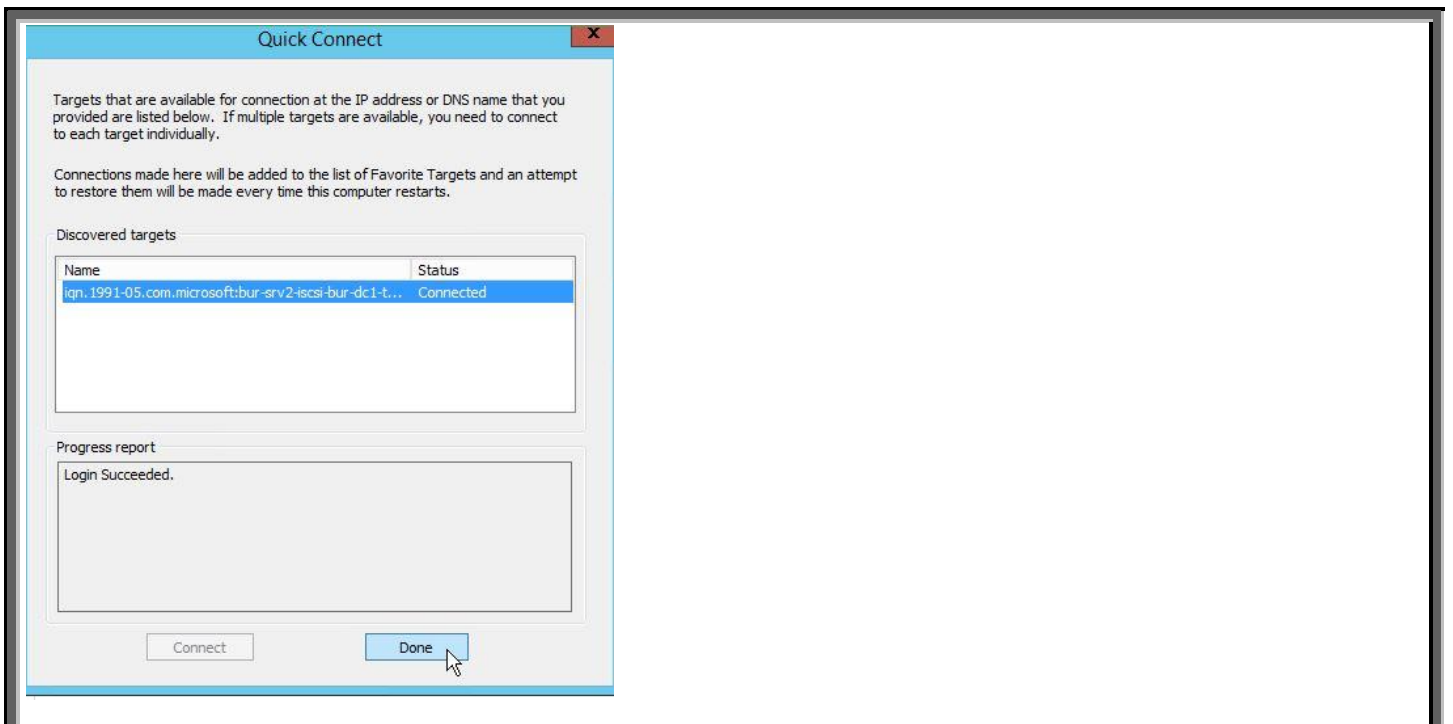
Cancel

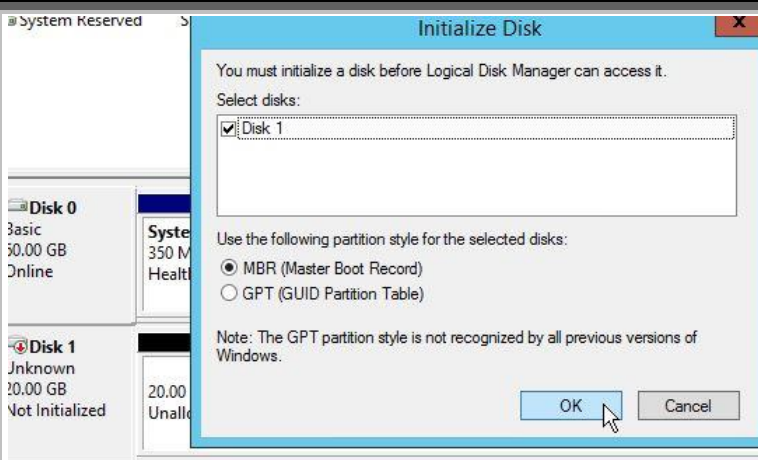
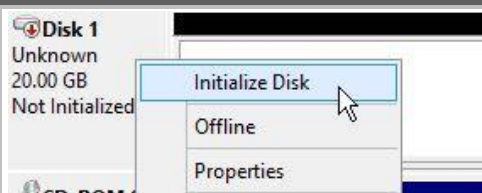
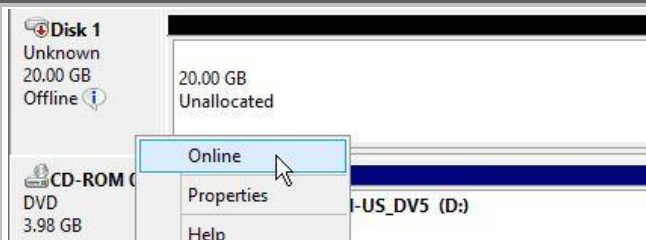
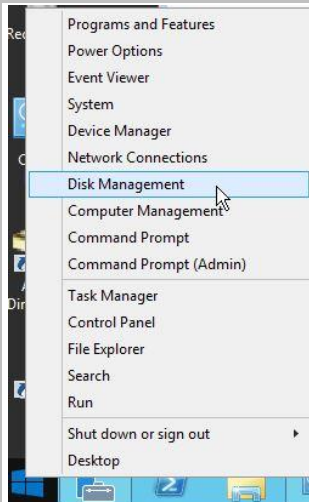


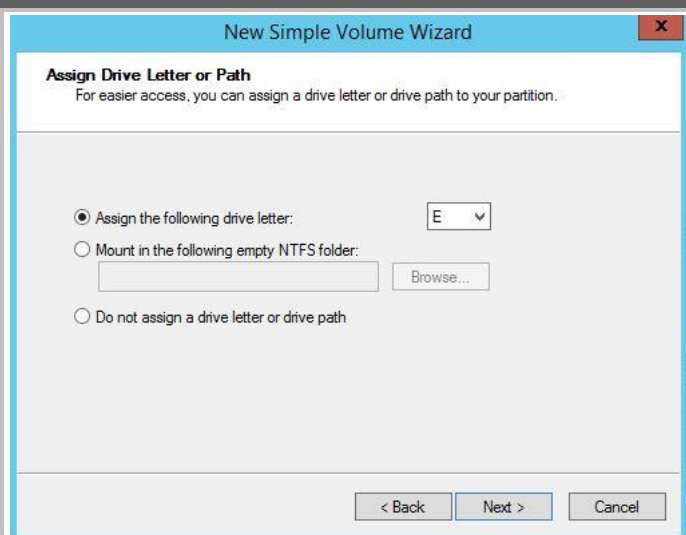
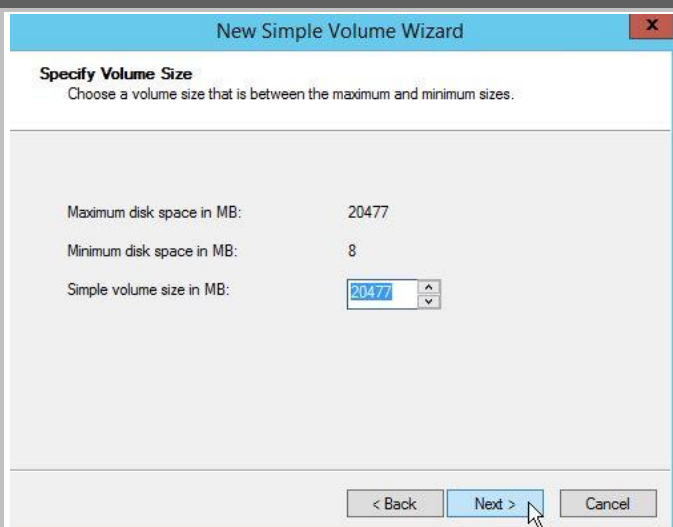
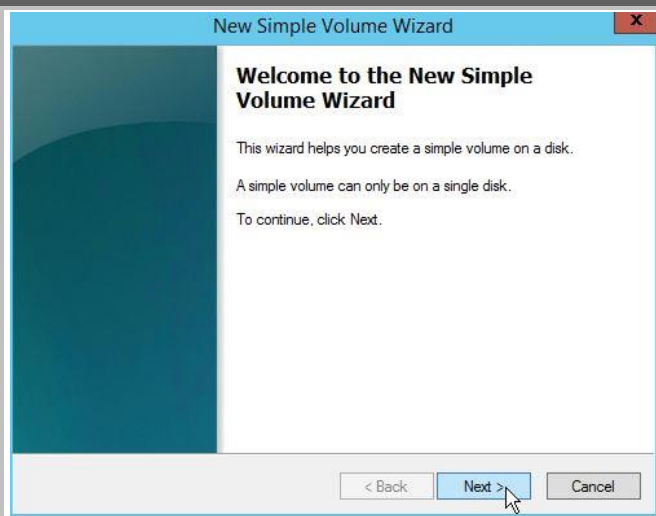
BUR-DC1'E GEÇİN











New Simple Volume Wizard

Format Partition

To store data on this partition, you must format it first.

Choose whether you want to format this volume, and if so, what settings you want to use.

Do not format this volume

Format this volume with the following settings:

File system:

NTFS

Allocation unit size:

Default

Volume label:

Iscsi-Srv2

☒ Perform a quick format

☐ Enable file and folder compression

< Back

Next >

Cancel

New Simple Volume Wizard

Completing the New Simple Volume Wizard

You have successfully completed the New Simple Volume Wizard.

You selected the following settings:

Volume type: Simple Volume

Disk selected: Disk 1

Volume size: 20477 MB

Drive letter or path: E:

File system: NTFS

Allocation unit size: Default

Volume label: Iscsi-Srv2

Quick format: Yes

To close this wizard, click Finish.

< Back

Finish

Cancel

Devices and drives (4)



Floppy Disk Drive (A:)



DVD Drive (D:)
IRM_SSS_X64FRE_EN-US_DV5
0 bytes free of 3.97 GB



Local Disk (C:)

43.3 GB free of 59.6 GB



Iscsi-Srv2 (E:)

19.9 GB free of 19.9 GB