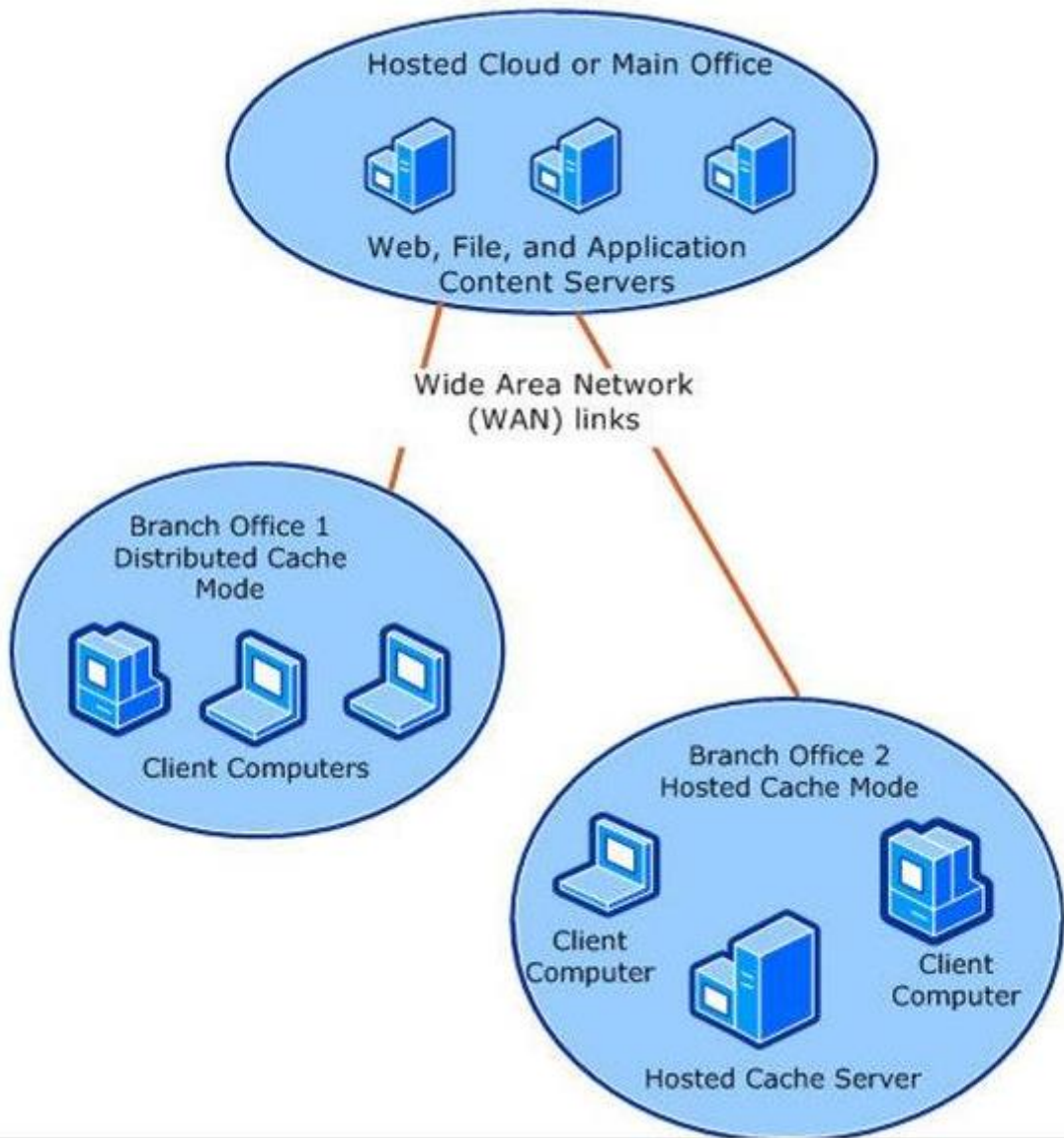


BranchCache enables remote offices to have centralized access to file shares over the wide area .

- Create a BranchCache Enabled File Share
- Use Group policy to configure BranchCache modes

BranchCache has two modes of operation.

- Distributed cache mode:
(content cache at a branch office is distributed among client computers.)
- Hosted cache mode:
(content cache at a branch office is hosted on one or more server computers called hosted cache servers.)



Dashboard

- Local Server
- All Servers
- AD CS
- AD DS
- AD RMS
- DNS
- File and Storage Services
- IIS
- NAP
- Remote Access

WELCOME TO SERVER MANAGER

QUICK START

WHAT'S NEW

LEARN MORE

- 1 Configure this local server
- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group
- 5 Connect this server to cloud services

- Add Roles and Features
- Remove Roles and Features
- Add Servers
- Create Server Group
- Server Manager Properties

Hide



Before you begin

DESTINATION SERVER
testserver.testserver.com

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.

To remove roles, role services, or features:

[Start the Remove Roles and Features Wizard](#)

Before you continue, verify that the following tasks have been completed:

- The Administrator account has a strong password
- Network settings, such as static IP addresses, are configured
- The most current security updates from Windows Update are installed

If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.

To continue, click Next.

Skip this page by default

< Previous

Next >

Install

Cancel



Select installation type

DESTINATION SERVER
testserver.testserver.com

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 computer or virtual 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 a virtual machine-based or session-based desktop deployment.

< Previous

Next >

Install

Cancel



Select destination server

DESTINATION SERVER
testserver.testserver.com

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

Name	IP Address	Operating System
testse		Microsoft Windows Server 2012 R2 Standard

1 Computer(s) found

This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

< Previous

Next >

Install

Cancel



Select server roles

DESTINATION SERVER
testserver.testserver.com

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

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

Roles

<input checked="" type="checkbox"/>	Active Directory Certificate Services (Installed)	^
<input checked="" type="checkbox"/>	Active Directory Domain Services (Installed)	
<input type="checkbox"/>	Active Directory Federation Services	
<input type="checkbox"/>	Active Directory Lightweight Directory Services	≡
<input checked="" type="checkbox"/>	Active Directory Rights Management Services (1 of 1 installed)	
<input type="checkbox"/>	Application Server	
<input type="checkbox"/>	DHCP Server	
<input checked="" type="checkbox"/>	DNS Server (Installed)	
<input type="checkbox"/>	Fax Server	
<input checked="" type="checkbox"/>	File and Storage Services (3 of 12 installed)	
<input checked="" type="checkbox"/>	File and iSCSI Services (2 of 11 installed)	
<input checked="" type="checkbox"/>	File Server (Installed)	
<input checked="" type="checkbox"/>	BranchCache for Network Files	
<input type="checkbox"/>	Data Deduplication	
<input type="checkbox"/>	-----	

Description

BranchCache for Network Files provides support for BranchCache on this file server. BranchCache is a wide area network (WAN) bandwidth optimization technology that caches content from your main office content servers at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN. After you complete installation, you must share folders and enable hash generation for shared folders by using Group Policy or Local Computer Policy.

< Previous

Next >

Install

Cancel



Select features

DESTINATION SERVER
testserver.testserver.com

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

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

Features

<input checked="" type="checkbox"/>	.NET Framework 3.5 Features (1 of 3 installed)	^
<input checked="" type="checkbox"/>	.NET Framework 4.5 Features (4 of 7 installed)	
<input type="checkbox"/>	Background Intelligent Transfer Service (BITS)	≡
<input type="checkbox"/>	BitLocker Drive Encryption	
<input type="checkbox"/>	BitLocker Network Unlock	
<input type="checkbox"/>	BranchCache	
<input type="checkbox"/>	Client for NFS	
<input type="checkbox"/>	Data Center Bridging	
<input type="checkbox"/>	Direct Play	
<input type="checkbox"/>	Enhanced Storage	
<input type="checkbox"/>	Failover Clustering	
<input checked="" type="checkbox"/>	Group Policy Management (Installed)	
<input type="checkbox"/>	IIS Hostable Web Core	
<input checked="" type="checkbox"/>	Ink and Handwriting Services (Installed)	▼

Description

.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.

< Previous

Next >

Install

Cancel



Confirm installation selections

DESTINATION SERVER
testserver.testserver.com

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

BranchCache for Network Files

[Export configuration settings](#)
[Specify an alternate source path](#)

< Previous

Next >

Install

Cancel



Add Roles and Features Wizard



Installation progress

DESTINATION SERVER
testserver.testserver.com

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

View installation progress

i Feature installation

Installation succeeded on testserver.testserver.com.

File and Storage Services
File and iSCSI Services
BranchCache for Network Files



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

Dashboard

Local Server

All Servers

AD CS

AD DS

AD RMS

DNS

File and Storage Services ▶

IIS

NAP

Remote Access

WELCOME TO SERVER MANAGER

QUICK START

WHAT'S NEW

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Server Manager > File and Storage Services > Shares

Servers

Volumes

Disks

Storage Pools

Shares

iSCSI

Work Folders



SHARES

All shares | 5 total

TASKS

New Share...

Refresh

Filter

Share	Local Path	Protocol	Availability Type
▲ testserver (5)			
CertEnroll	F:\Windows\system32\CertSrv\Cer...	SMB	Not Clustered
DocShare	F:\DocShare	SMB	Not Clustered
NETLOGON	F:\Windows\SYSTEM32\sysvol\testse...	SMB	Not Clustered
RMStemplates	F:\RMStemplates	SMB	Not Clustered
SYSVOL	F:\Windows\SYSTEM32\sysvol	SMB	Not Clustered

VOLUMES

CertEnroll

55.5%

Go to V

QUOTA

No data a



Select the profile for this share

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

File share profile:

- SMB Share - Quick
- SMB Share - Advanced
- SMB Share - Applications
- NFS Share - Quick
- NFS Share - Advanced

Description:

This basic profile represents the fastest way to create an SMB file share, typically used to share files with Windows-based computers.

- Suitable for general file sharing
- Advanced options can be configured later by using the Properties dialog

< Previous

Next >

Create

Cancel



Select the server and path for this share

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

Server:

Server Name	Status	Cluster Role	Owner Node	
testserver	Online	Not Clustered		

Share location:

Select by volume:

Volume	Free Space	Capacity	File System	
C:	29.9 GB	185 GB	NTFS	
E:	15.9 GB	200 GB	NTFS	
F:	27.3 GB	61.3 GB	NTFS	

The location of the file share will be a new folder in the \Shares directory on the selected volume.

Type a custom path:

Browse...

< Previous

Next >

Create

Cancel



Specify share name

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

Share name:

nfs_share

Share description:

Local path to share:

F:\Shares\nfs_share

i If the folder does not exist, the folder is created.

Remote path to share:

\\testserver\nfs_share

< Previous

Next >

Create

Cancel

Configure share settings

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

Enable access-based enumeration

Access-based enumeration displays only the files and folders that a user has permissions to access. If a user does not have Read (or equivalent) permissions for a folder, Windows hides the folder from the user's view.

Allow caching of share

Caching makes the contents of the share available to offline users. If the BranchCache for Network Files role service is installed, you can enable BranchCache on the share.

Enable BranchCache on the file share

BranchCache enables computers in a branch office to cache files downloaded from this share, and then allows the files to be securely available to other computers in the branch.

Encrypt data access

When enabled, remote file access to this share will be encrypted. This secures the data against unauthorized access while the data is transferred to and from the share. If this box is checked and grayed out, an administrator has turned on encryption for the entire server.

< Previous

Next >

Create

Cancel



Specify permissions to control access

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

Permissions to access the files on a share are set using a combination of folder permissions, share permissions, and, optionally, a central access policy.

Share permissions: Everyone Full Control

Folder permissions:

Type	Principal	Access	Applies To
Allow	CREATOR OWNER	Full Control	Subfolders and files only
Allow	BUILTIN\Users	Special	This folder and subfolders
Allow	BUILTIN\Users	Read & execute	This folder, subfolders, and files
Allow	BUILTIN\Administrators	Full Control	This folder, subfolders, and files
Allow	NT AUTHORITY\SYSTEM	Full Control	This folder, subfolders, and files

Customize permissions...

< Previous

Next >

Create

Cancel



Confirm selections

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

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

SHARE LOCATION

Server:	testserver
Cluster role:	Not Clustered
Local path:	F:\Shares\nfs_share

SHARE PROPERTIES

Share name:	nfs_share
Protocol:	SMB
Access-based enumeration:	Disabled
Caching:	Enabled
BranchCache:	Enabled
Encrypt data:	Disabled

< Previous

Next >

Create

Cancel



View results

- Select Profile
- Share Location
- Share Name
- Other Settings
- Permissions
- Confirmation
- Results**

The share was successfully created.

Task	Progress	Status
Create SMB share	<div style="width: 100%; background-color: #007060;"></div>	Completed
Set SMB permissions	<div style="width: 100%; background-color: #007060;"></div>	Completed