

# Deploy Network File System

Server 2012














Network File System (NFS) provides a file sharing solution that enables you to transfer files between computers running Windows Server 2012 and UNIX operating systems using the NFS protocol.

## Deploy NFS infrastructure

You need to deploy the following computers and connect them on a local area network (LAN):

- Windows Server 2012 on which you will install Server for NFS and Client for NFS
- UNIX-based computer that is running NFS server and NFS client software. The UNIX-based computer that is running NFS server hosts an NFS file share or export, which is accessed by a computer that is running Windows Server 2012 as a client using Client for NFS.
- You can install NFS server and client software either in the same UNIX-based computer or on different UNIX-based computers, as desired.
- A domain controller running at the Windows Server 2008 R2 functional level. The domain controller provides user authentication information and mapping for the Windows environment.
- When a domain controller is not deployed, you can use a Network Information Service (NIS) server to provide user authentication information for the UNIX environment. Or, if you prefer, you can use Password and Group files that are stored on the computer that is running the User Name Mapping service.

## Dashboard

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-  AD DS
-  DNS
-  File and Storage Services ▸
-  Hyper-V
-  IIS
-  NAP
-  Print Services
-  Remote Access
-  WDS
-  WSUS

## 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


## ROLES AND SERVER GROUPS


Roles: 11 | Server groups: 1 | Servers total: 5


 AD CS 2

-  Manageability
- Events
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 AD DS 2

-  Manageability
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- Performance
- BPA results

 DNS

-  Manageability
- Events
- Services
- Performance
- BPA results



# Before you begin

DESTINATION SERVER  
WIN-R44O8GIKKQK.DeanLashley.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

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Install

Cancel



## Select installation type

DESTINATION SERVER  
WIN-R44O8GIKKQK.DeanLashley.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.

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## Add Roles and Features Wizard



# Select destination server

DESTINATION SERVER  
WIN-R44O8GIKKQK.DeanLashley.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

Filter:

Name	IP Address	Operating System
WIN-R44O8GIKKQK.Dea...	192.168.254.20...	Microsoft Windows Server 2012 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.

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## Add Roles and Features Wizard



# Select server roles

DESTINATION SERVER  
WIN-R44O8GIKKQK.DeanLashley.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

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

### Description

Server for NFS enables this computer to share files with UNIX-based computers and other computers that use the network file system (NFS) protocol.

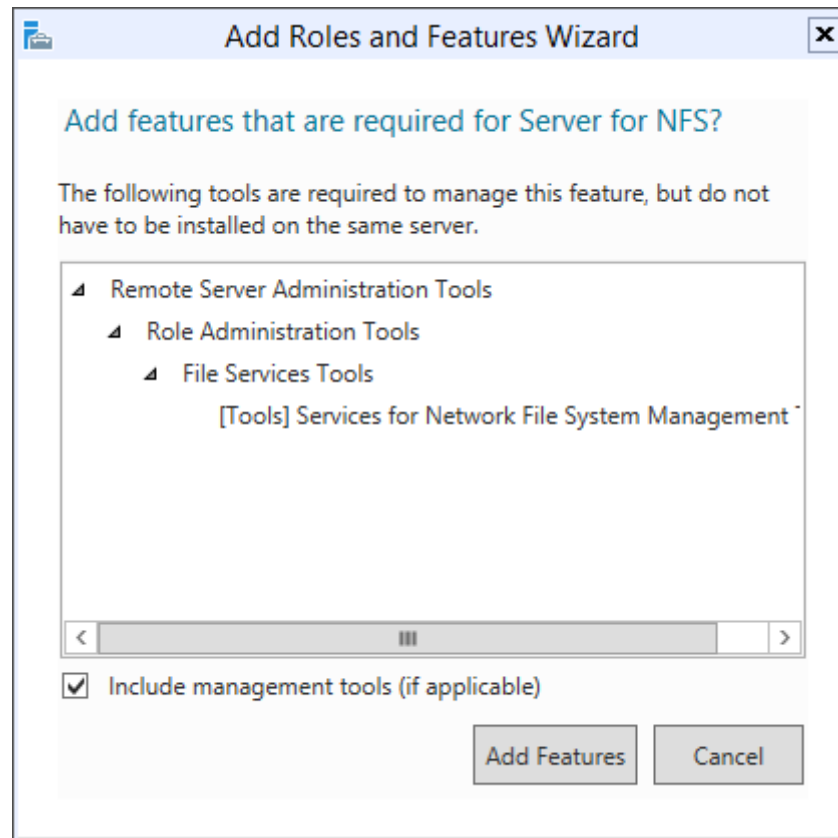
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## Add Roles and Features Wizard



# Select server roles

DESTINATION SERVER  
WIN-R44O8GIKKQK.DeanLashley.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

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

### Description

Server for NFS enables this computer to share files with UNIX-based computers and other computers that use the network file system (NFS) protocol.

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## Add Roles and Features Wizard



### Select features

DESTINATION SERVER  
WIN-R44O8GIKQK.DeanLashley.com

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

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

#### Features

- .NET Framework 3.5 Features (Installed)
- .NET Framework 4.5 Features (Installed)
- Background Intelligent Transfer Service (BITS)
- BitLocker Drive Encryption
- BitLocker Network Unlock
- BranchCache (Installed)
- Client for NFS**
- Data Center Bridging
- Enhanced Storage
- Failover Clustering (Installed)
- Group Policy Management (Installed)
- Ink and Handwriting Services (Installed)
- Internet Printing Client
- IP Address Management (IPAM) Server

#### Description

**Client for NFS** enables this computer to access files on UNIX-based NFS servers. When installed, you can configure a computer to connect to UNIX NFS shares that allow anonymous access.

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## Confirm installation selections

DESTINATION SERVER  
WIN-R44O8GIKKQK.DeanLashley.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.

Client for NFS  
File And Storage Services  
    File and iSCSI Services  
    Server for NFS  
  
Remote Server Administration Tools  
    Role Administration Tools  
    File Services Tools  
    Services for Network File System Management Tools

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

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Install

Cancel

## Add Roles and Features Wizard

## Installation progress

DESTINATION SERVER  
WIN-R44O8GIKKQK.DeanLashley.com[Before You Begin](#)[Installation Type](#)[Server Selection](#)[Server Roles](#)[Features](#)[Confirmation](#)**Results**

## View installation progress

**i** Feature installation

Installation started on WIN-R44O8GIKKQK.DeanLashley.com

**Client for NFS****File And Storage Services**

File and iSCSI Services

Server for NFS

**Remote Server Administration Tools**

Role Administration Tools

File Services Tools

Services for Network File System Management Tools



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](#)

&lt; Previous

Next &gt;

Close

Cancel



