

Domain 04 Demo 05

Installing Active Directory and Creating a User

Objective: To install Active Directory and create users for managing organizational resources

Tools required: Windows Server 2022 VM

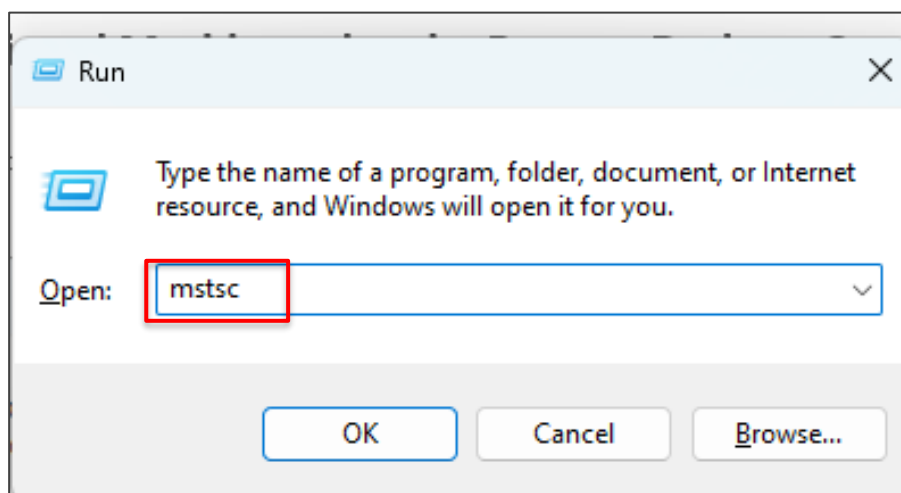
Prerequisites: None

Steps to be followed:

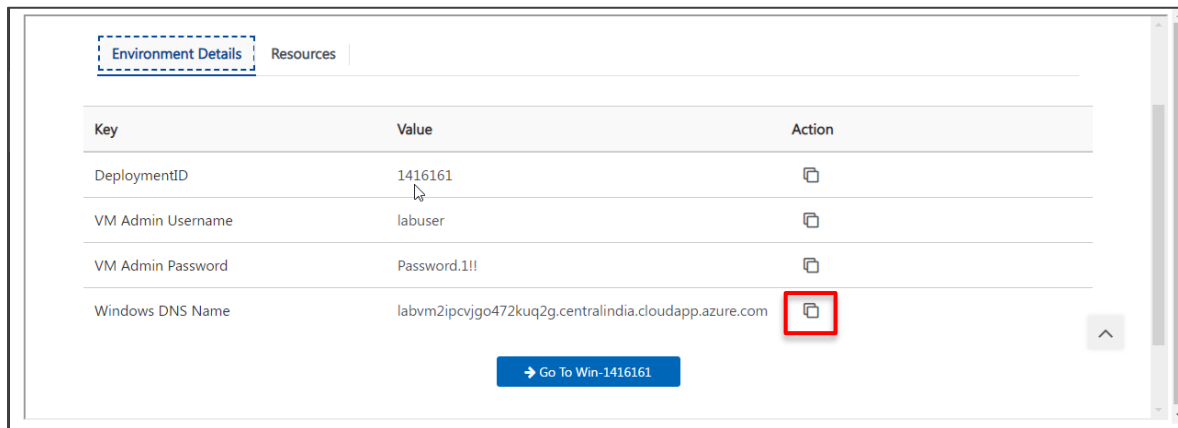
1. Open a virtual machine using the Remote Desktop Connection
2. Install Active Directory Domain Services (AD DS)
3. Create a user under the active directory


Step 1: Open a virtual machine using the Remote Desktop Connection

- 1.1 In your lab, open the **Run** dialog box, type **mstsc**, and press **OK** to open the Remote Desktop Connection application



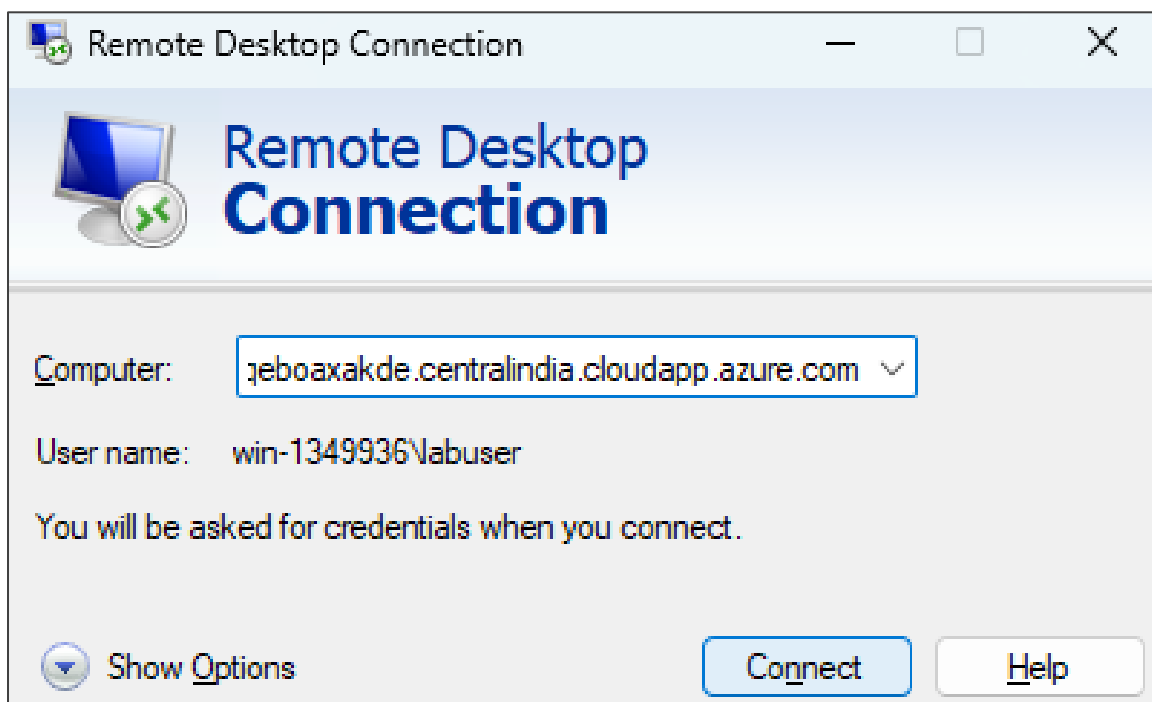
1.2 Copy the **Windows DNS Name** of your lab



Key	Value	Action
DeploymentID	1416161	
VM Admin Username	labuser	
VM Admin Password	Password.1!!	
Windows DNS Name	labvm2ipcvjgo472kuq2g.centralindia.cloudapp.azure.com	

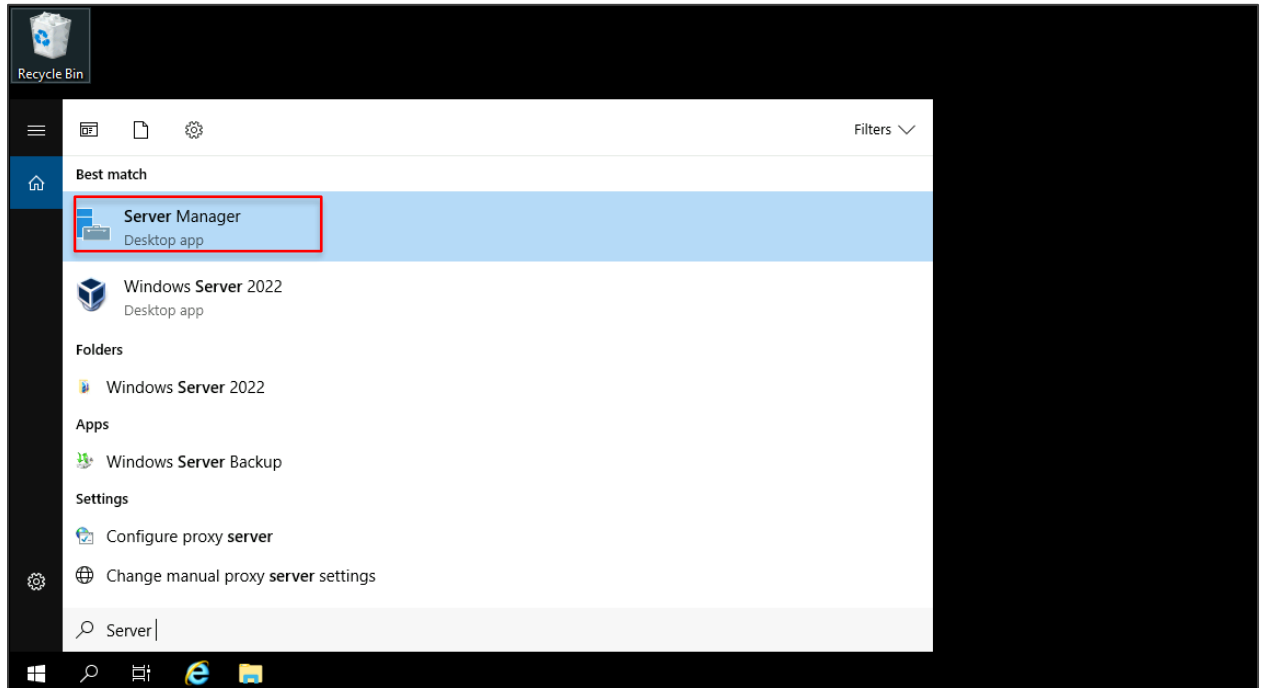
[Go To Win-1416161](#)

1.3 Paste the copied DNS name in the **Computer** field, click on **Connect**, and log in with appropriate credentials

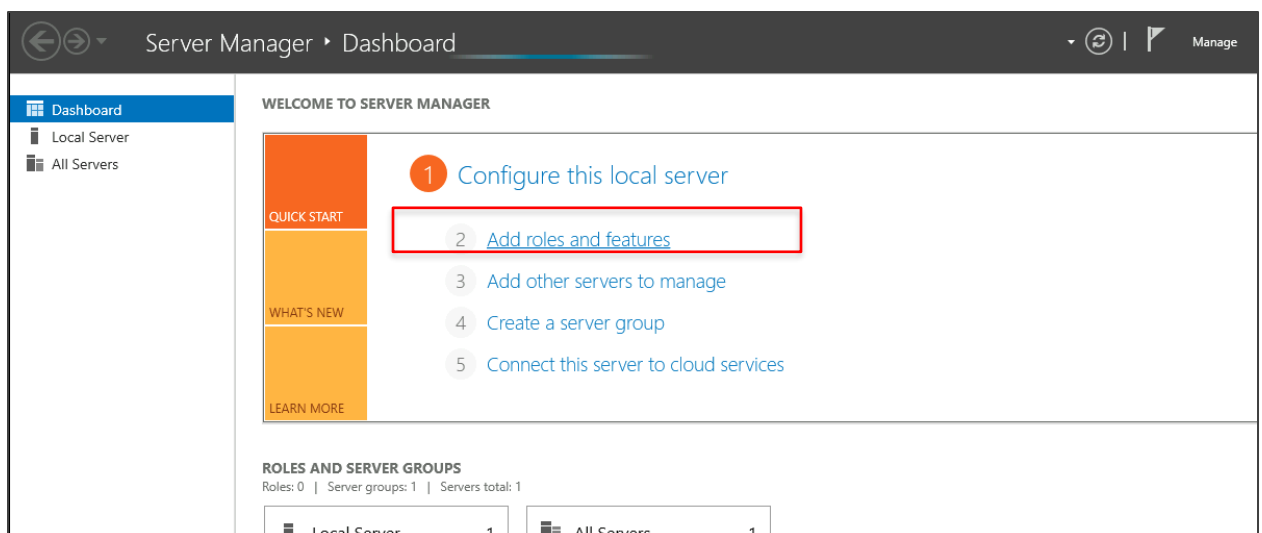


Step 2: Install Active Directory Domain Services (AD DS)

2.1 Search for **Server Manager** and click on it



2.2 Click on **Add roles and features** in the dashboard



2.3 Click on **Next**

Before you begin

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 on 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

Select installation type

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

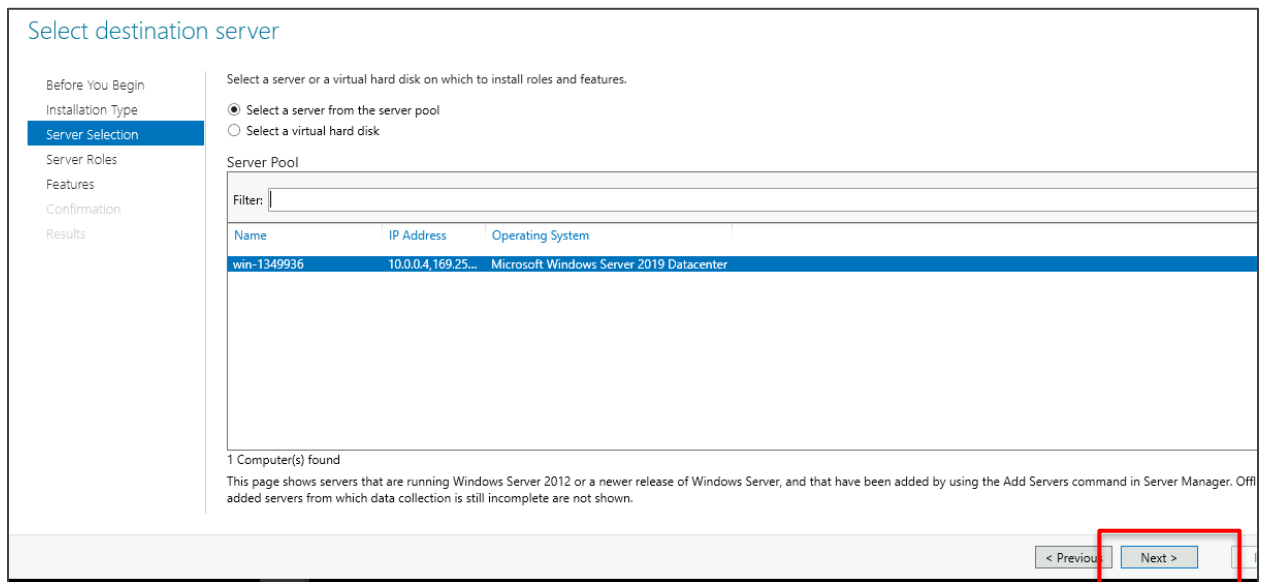
Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

☒ **Role-based or feature-based installation**
 Configure a single server by adding roles, role services, and features.

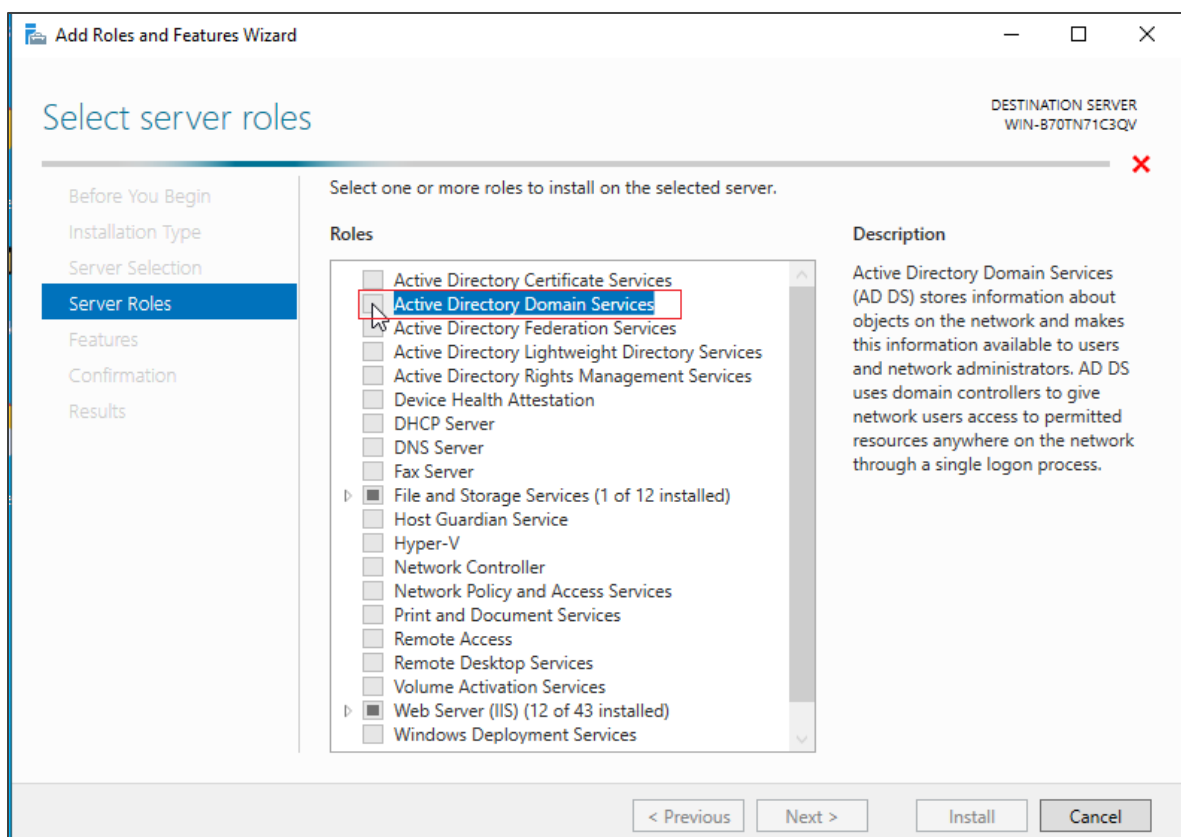
☐ **Remote Desktop Services installation**
 Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

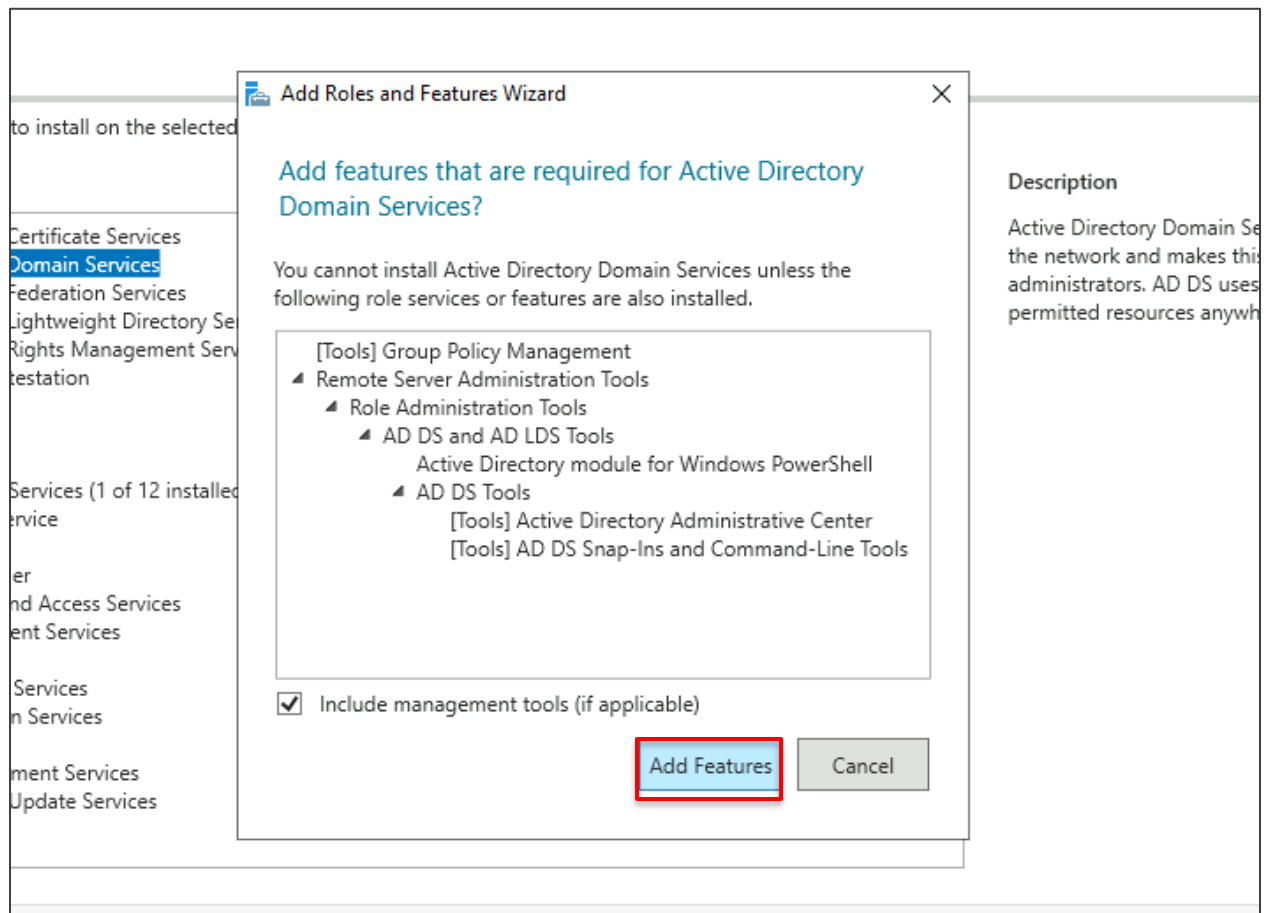
< Previous

Next >

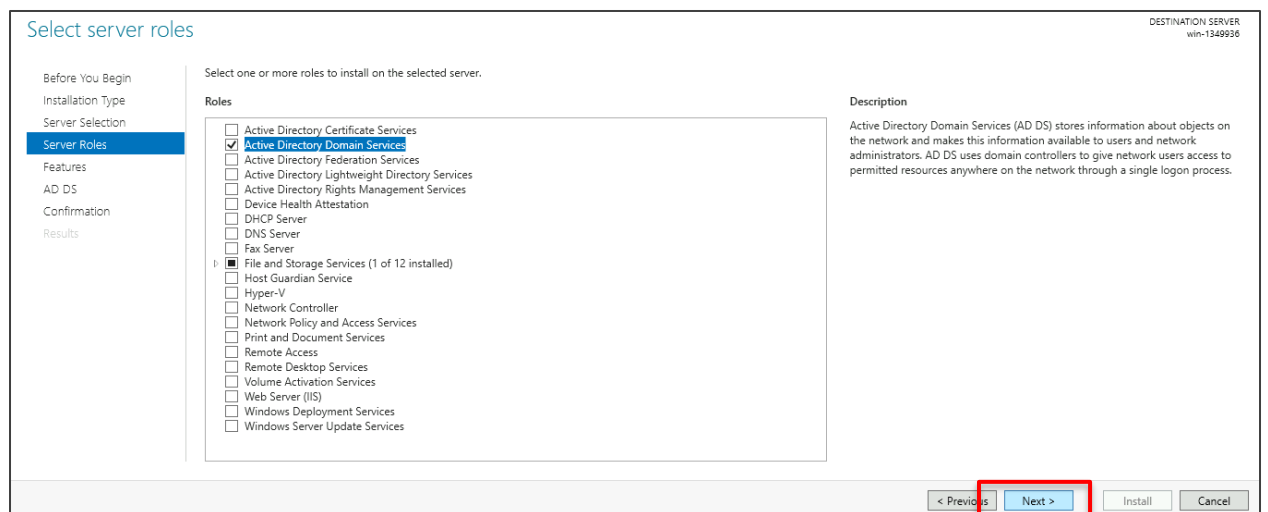


2.4 Select the **Active Directory Domain Services** option, and then click on **Add Features**

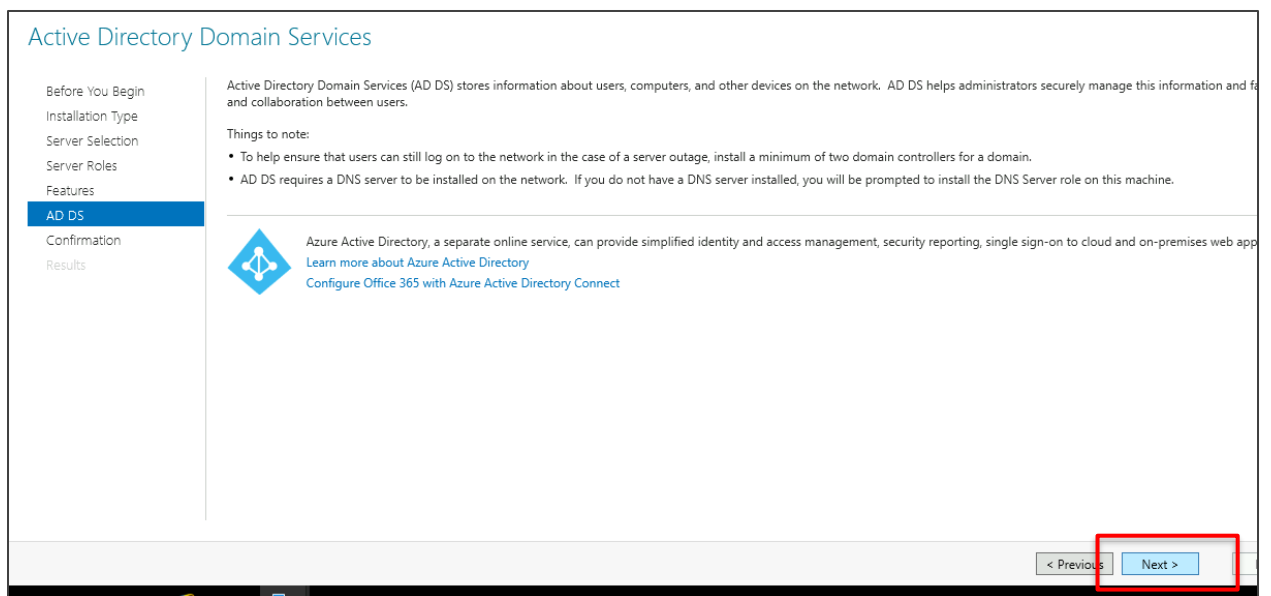
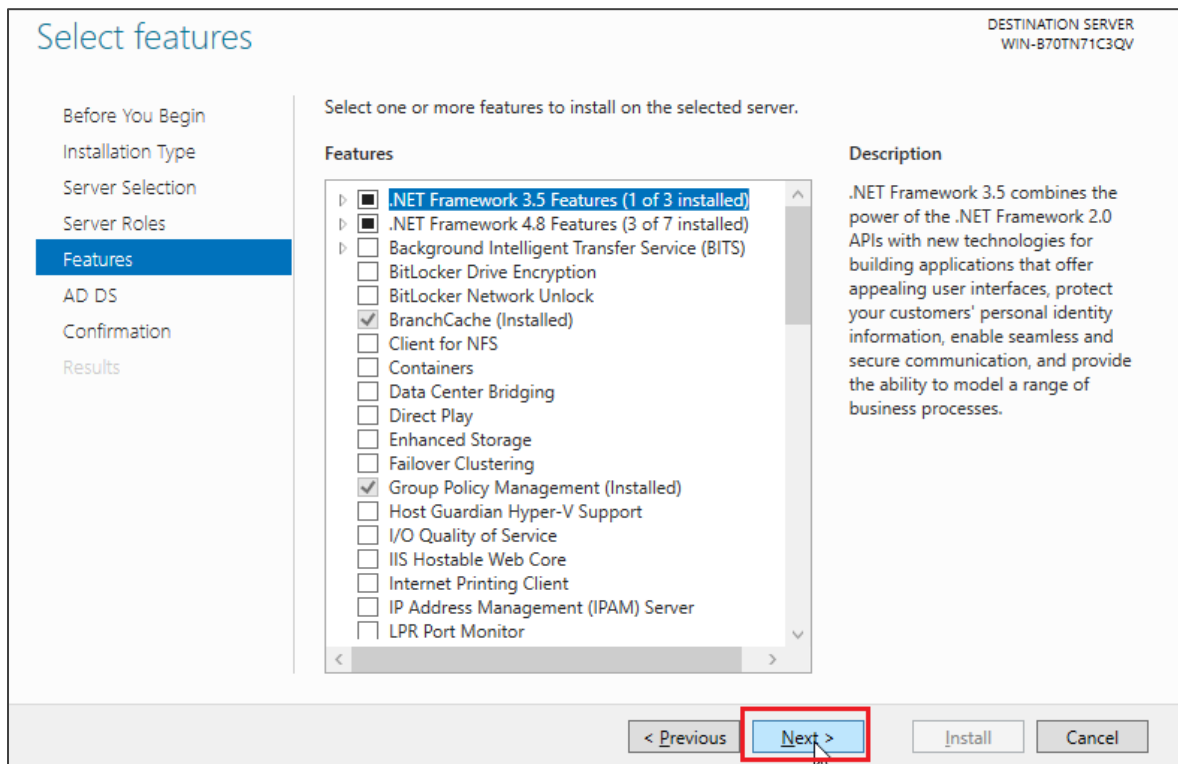




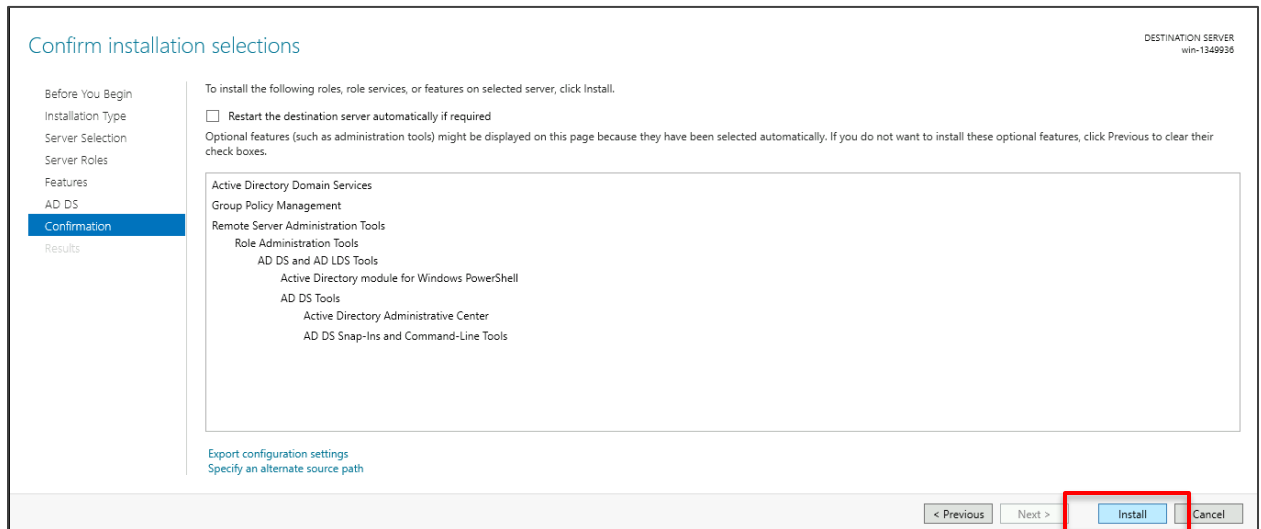
2.5 Click on Next



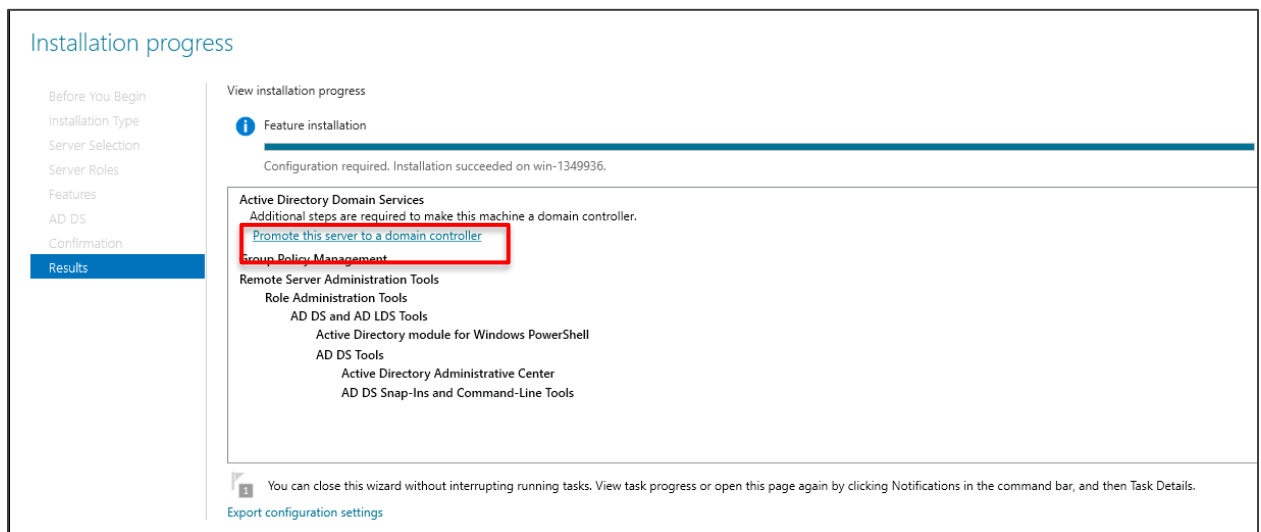
2.6 Again, click on **Next**



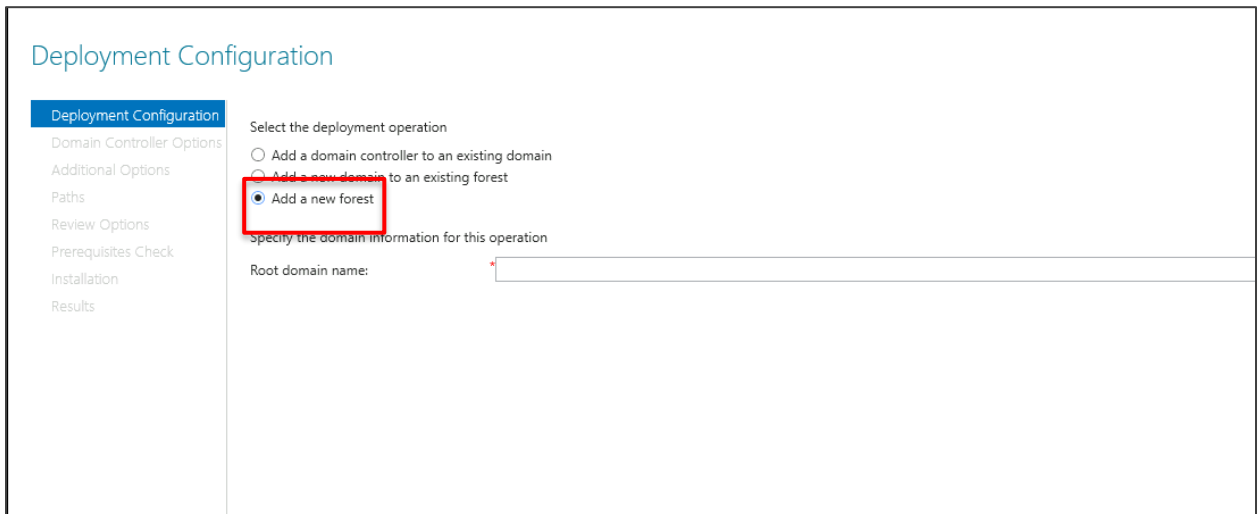
2.7 Click on **Install**



2.8 Click on **Promote this server to a domain controller**



2.9 Click on **Add a new forest**



Deployment Configuration

Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results

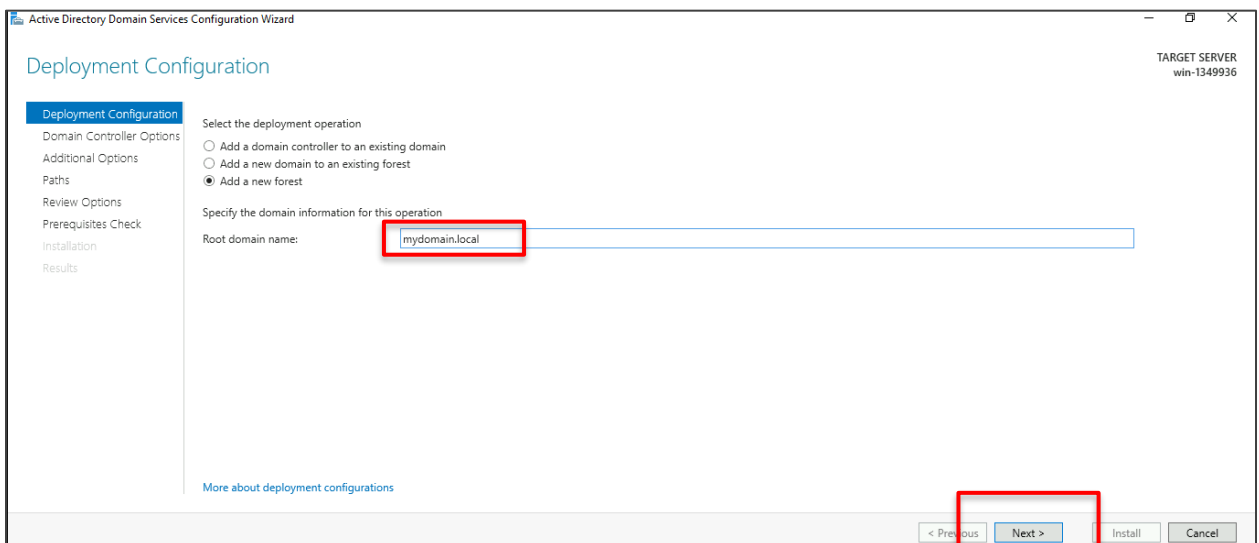
Select the deployment operation

☐ 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

Root domain name: *

2.10 Specify the **Root domain name**, and then click on **Next**



Active Directory Domain Services Configuration Wizard

Deployment Configuration

Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results

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

Root domain name: mydomain.local

[More about deployment configurations](#)

TARGET SERVER
win-1349936

< Previous **Next >** Install Cancel

2.11 Create a Password and click on Next

Domain Controller Options

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Select functional level of the new forest and root domain

Forest functional level: Windows Server 2016

Domain functional level: Windows Server 2016

Specify domain controller capabilities

☒ Domain Name System (DNS) server

☒ Global Catalog (GC)

☐ Read only domain controller (RODC)

Type the Directory Services Restore Mode (DSRM) password

Password:

Confirm password:

[More about domain controller options](#)

< Previous Next > Install Cancel

2.12 Again, click on Next

DNS Options

A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should...

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Specify DNS delegation options

☐ Create DNS delegation

[More about DNS delegation](#)

< Previous Next >

Additional Options

- Deployment Configuration
- Domain Controller Options
- DNS Options
- Additional Options**
- Paths
- Review Options
- Prerequisites Check
- Installation
- Results

Verify the NetBIOS name assigned to the domain and change it if necessary

The NetBIOS domain name:

[More about additional options](#)

Paths

- Deployment Configuration
- Domain Controller Options
- DNS Options
- Additional Options
- Paths**
- Review Options
- Prerequisites Check
- Installation
- Results

Specify the location of the AD DS database, log files, and SYSVOL

Database folder:

Log files folder:

SYSVOL folder:

[More about Active Directory paths](#)

TARGET SERVER: win-134

Review Options

- Deployment Configuration
- Domain Controller Options
- DNS Options
- Additional Options
- Paths
- Review Options**
- Prerequisites Check
- Installation
- Results

Review your selections:

Configure this server as the first Active Directory domain controller in a new forest.

The new domain name is "mydomain.local". This is also the name of the new forest.

The NetBIOS name of the domain: MYDOMAIN

Forest Functional Level: Windows Server 2016

Domain Functional Level: Windows Server 2016

Additional Options:

Global catalog: Yes

DNS Server: Yes

Create DNS Delegation: No

Database folder: C:\Windows\NTDS

Log file folder: C:\Windows\NTDS

These settings can be exported to a Windows PowerShell script to automate additional installations

[View script](#)

[More about installation options](#)

TARGET SERVER
win-1349936

< Previous

Next >

Install

Cancel

2.13 Now, click on **Install**

Prerequisites Check

- Deployment Configuration
- Domain Controller Options
- DNS Options
- Additional Options
- Paths
- Review Options
- Prerequisites Check**
- Installation
- Results

All prerequisite checks passed successfully. Click 'Install' to begin installation.

[Show more](#)

Prerequisites need to be validated before Active Directory Domain Services is installed on this computer

[Rerun prerequisites check](#)

View results

- Windows Server 2019 domain controllers have a default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security channel sessions.
- For more information about this setting, see Knowledge Base article 942564 (<http://go.microsoft.com/fwlink/?LinkId=104751>).
- This computer has at least one physical network adapter that does not have static IP address(es) assigned to its IP Properties. If both IPv4 and IPv6 are enabled for a network adapter, both IPv4 and IPv6 static IP addresses should be assigned to both IPv4 and IPv6 Properties of the physical network adapter. Such static IP address(es) assignment should be done to all the physical network adapters for reliable Domain Name System (DNS) operation.
- A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the domain "mydomain.local". Otherwise, no action is required.
- Prerequisites Check Completed
- All prerequisite checks passed successfully. Click 'Install' to begin installation.

If you click Install, the server automatically reboots at the end of the promotion operation.

[More about prerequisites](#)

TARGET SERVER
win-1349936

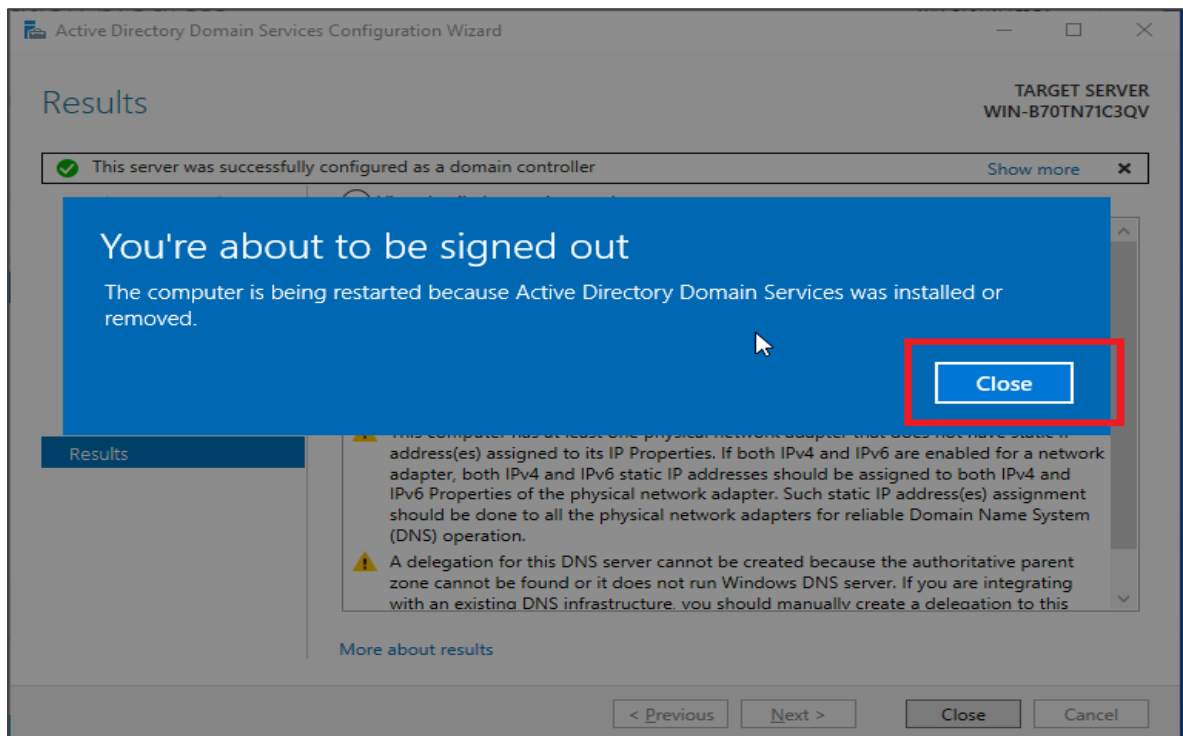
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Next >

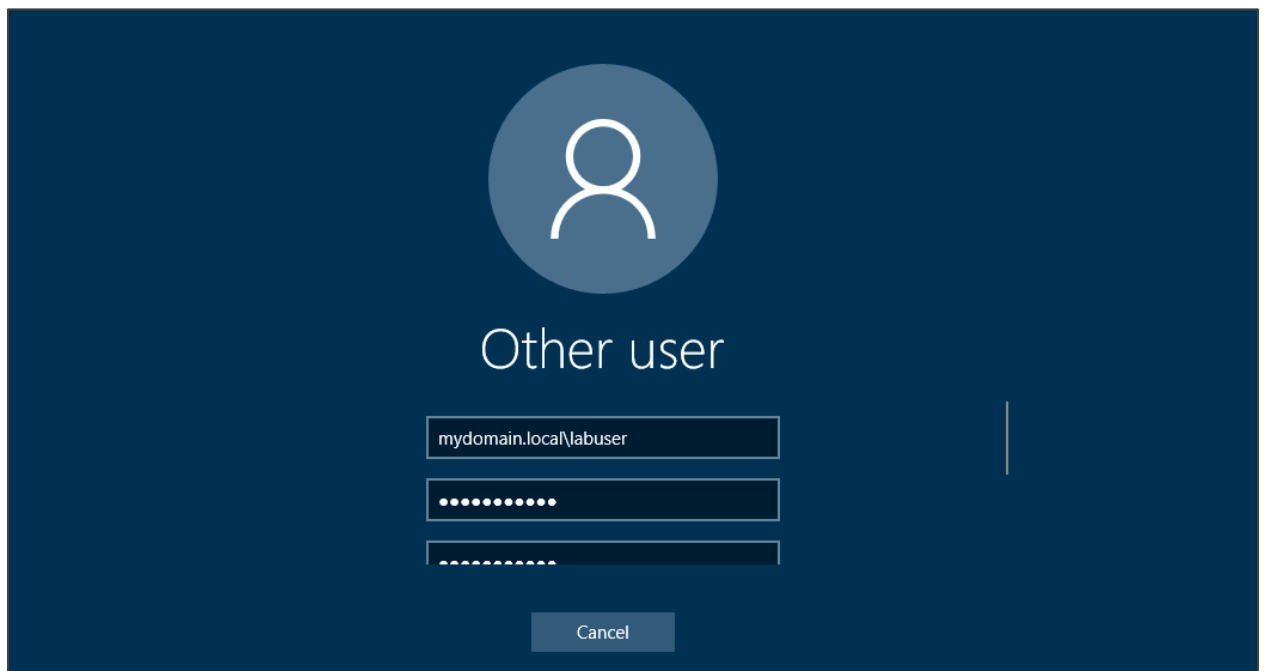
Install

Cancel

2.14 The system needs to be restarted, so click on **Close**

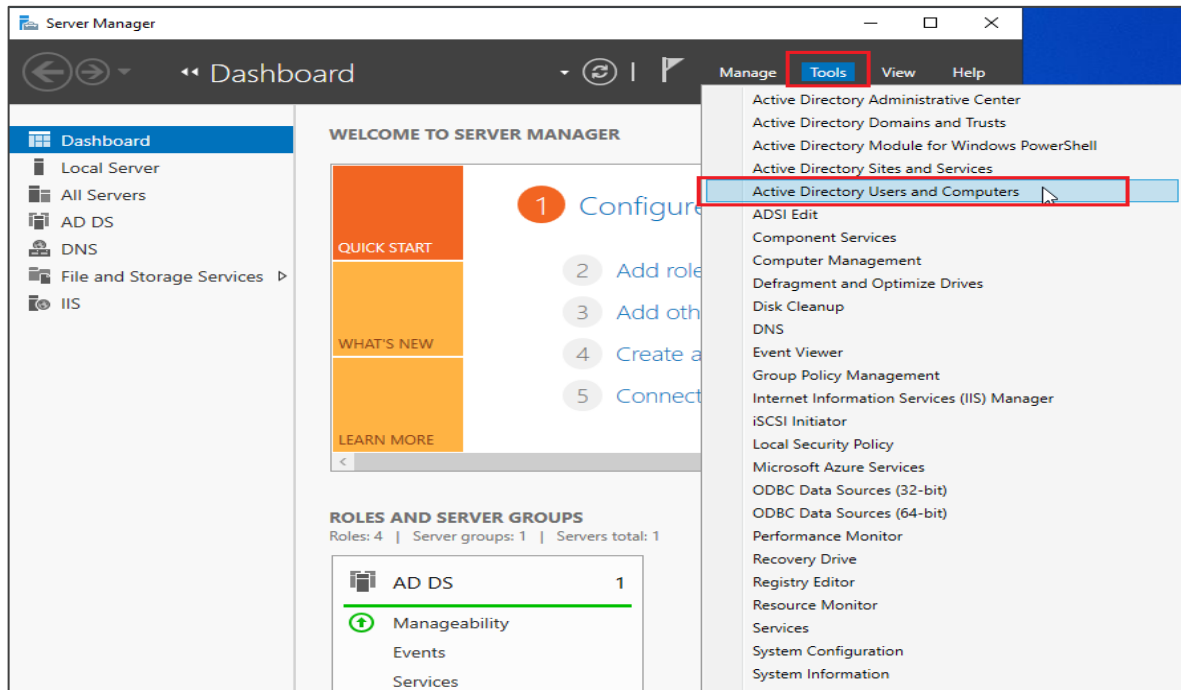


2.15 Once it is restarted, enter your password and log in

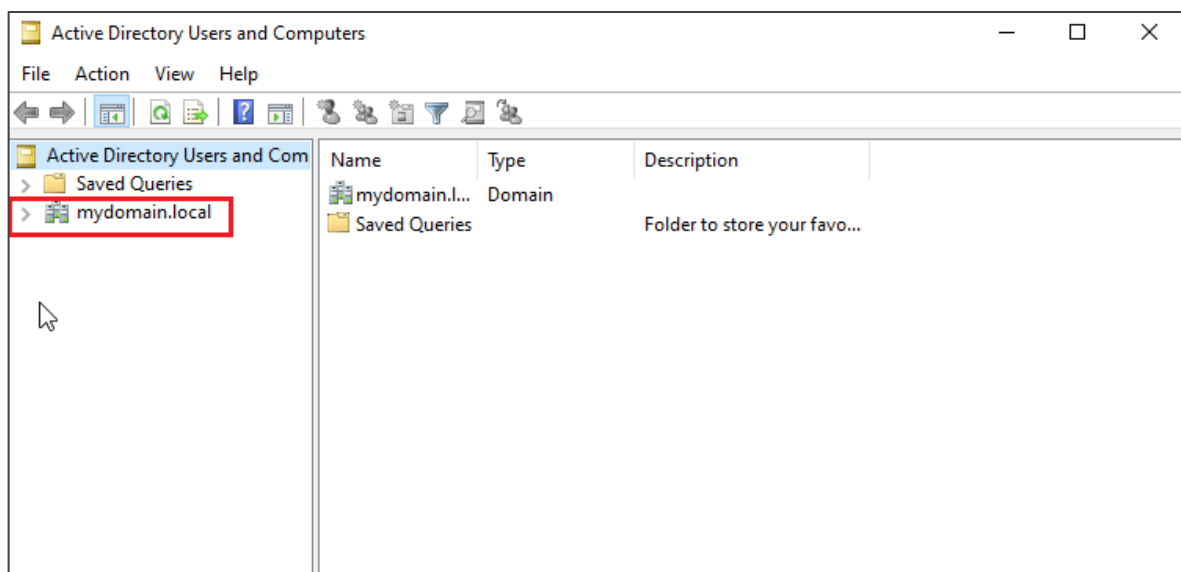


Step 3: Create a user under the active directory

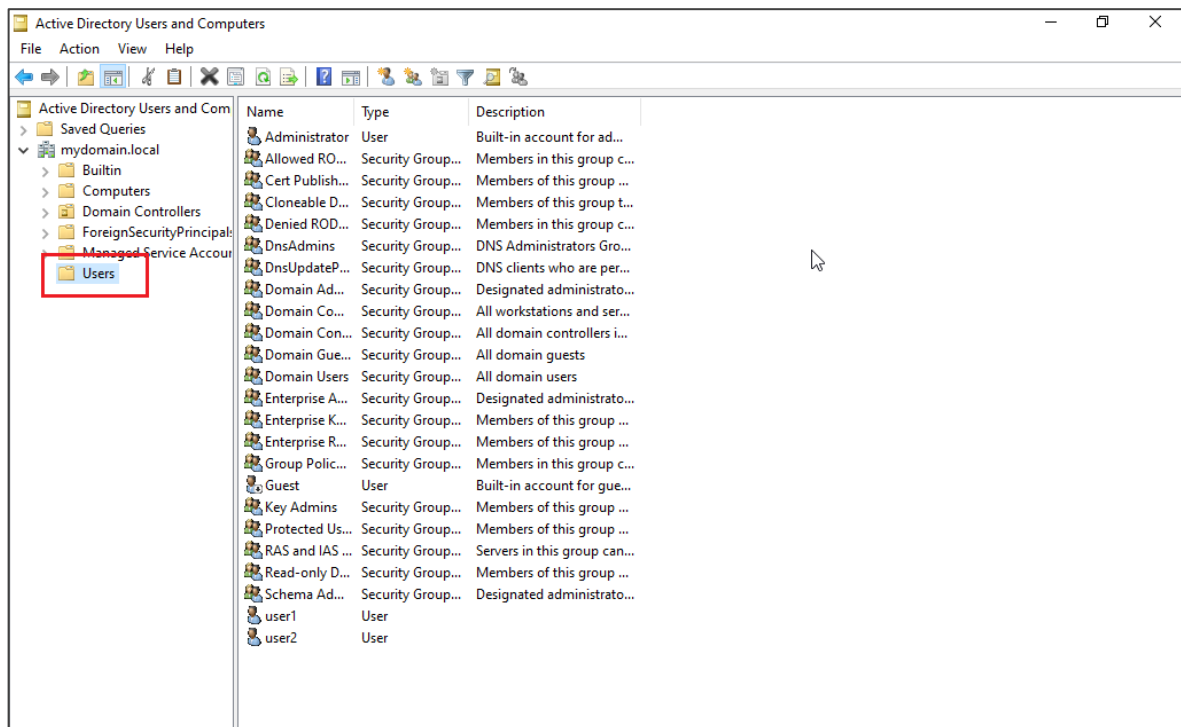
3.1 In the **Dashboard**, click on **Tools** and select **Active Directory Users and Computers**



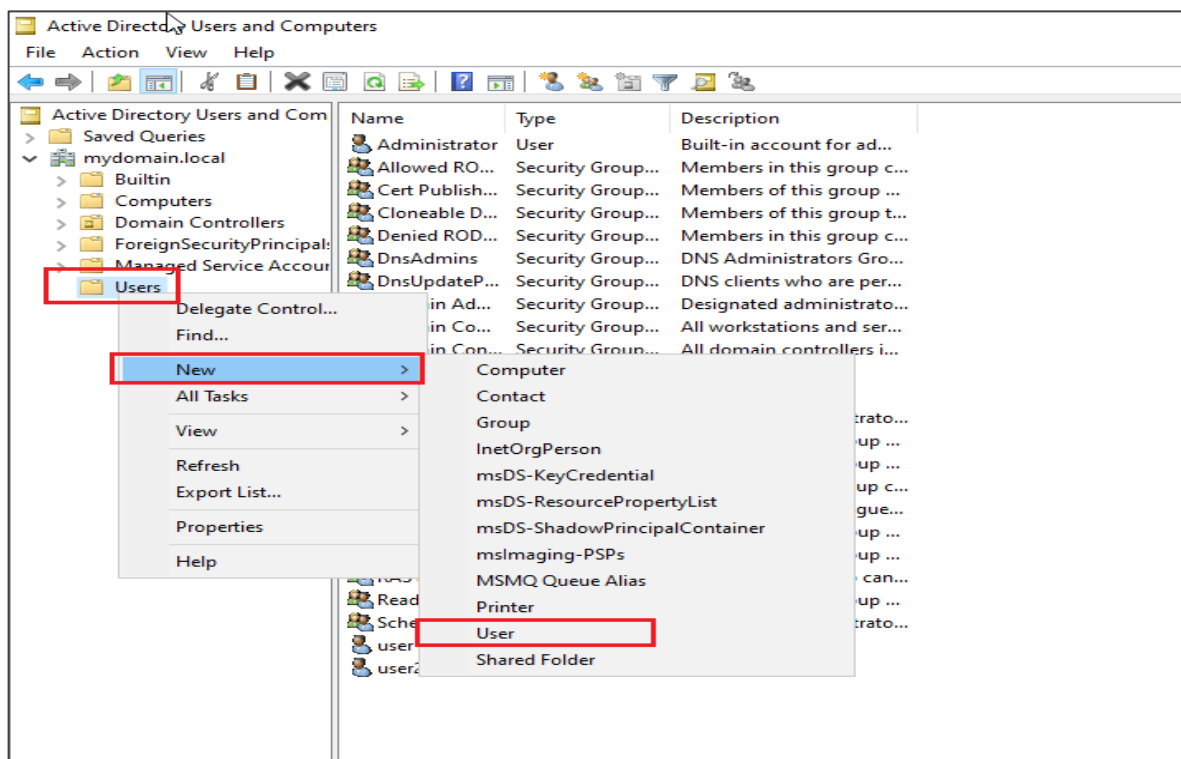
3.2 Click on **mydomain.local** directory



3.3 Now, double-click on **Users**



3.4 Right-click on **Users**, select **New**, and then **User**



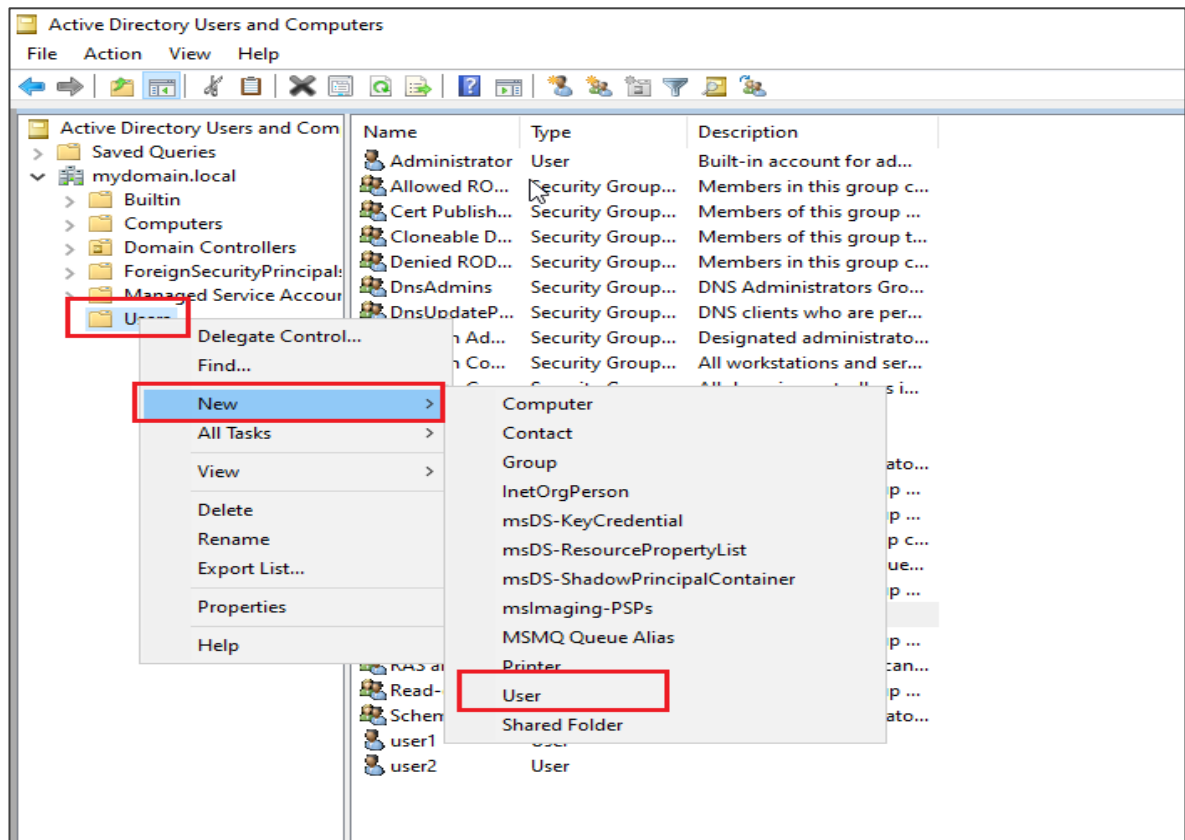
3.5 Enter **First name** and **User login name** as **martin**, then click on **Next**

The screenshot shows the 'New Object - User' dialog box. The 'Create in:' field is set to 'mydomain.local/Users'. The 'First name' field is filled with 'martin'. The 'User login name' field is filled with 'martin'. The 'Next >' button is highlighted with a red box.

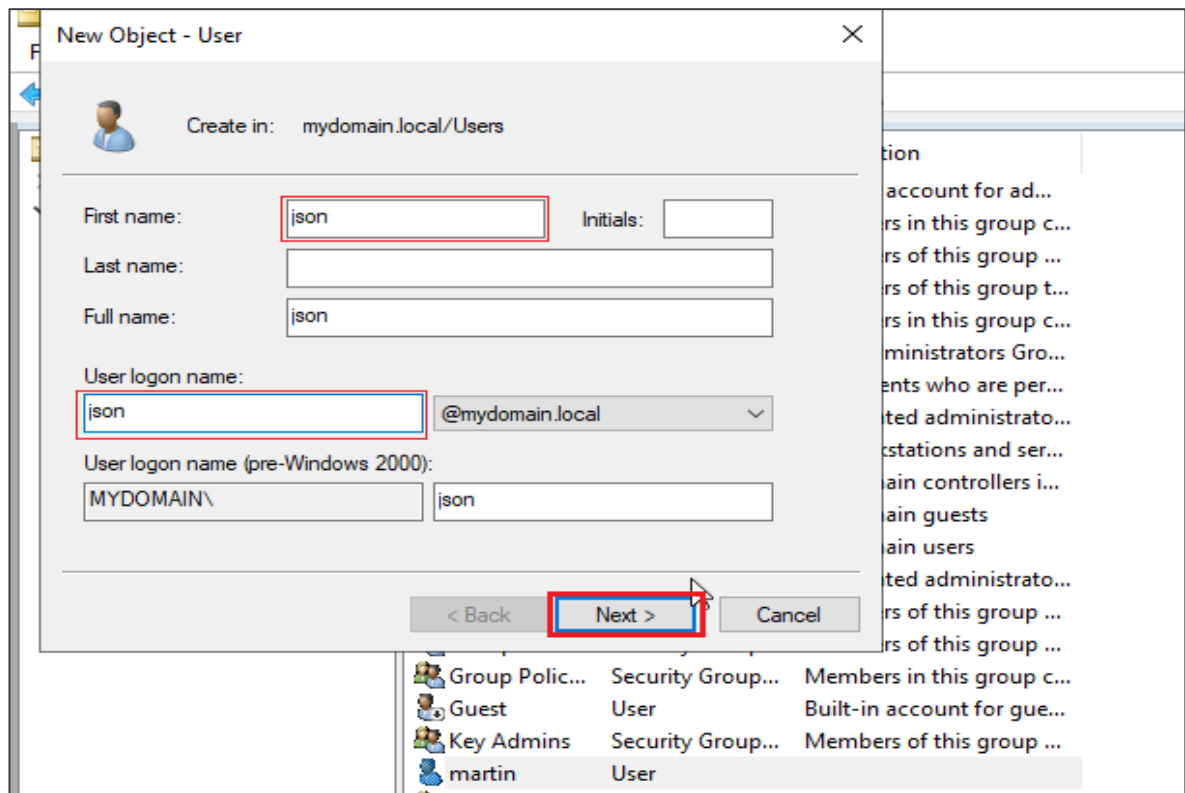
3.6 Create a strong password, select **User cannot change password** and **Password never expires** options, and then click on **Next**

The screenshot shows the 'New Object - User' dialog box. The 'Password' and 'Confirm password' fields are filled with dots. The 'User cannot change password' and 'Password never expires' checkboxes are checked. The 'Next >' button is highlighted with a red box.

3.7 Repeat the process to create a second user, right-click on the **Users**, select **New**, and then click on **User**



3.8 Add the First name and User login name as **json**, and then click on **Next**



The screenshot shows the 'New Object - User' dialog box in Active Directory. The 'Create in' field is set to 'mydomain.local/Users'. The 'First name' field contains 'json' and the 'User login name' field contains 'json'. The 'Next >' button is highlighted with a red box and a mouse cursor. The 'Back' and 'Cancel' buttons are also visible.

Fields and values:

- Create in: mydomain.local/Users
- First name: json
- Initials: (empty)
- Last name: (empty)
- Full name: json
- User login name: json
- User login name (pre-Windows 2000): MYDOMAIN\json

Buttons: < Back, Next > (highlighted), Cancel

3.9 Create a strong password, select the **User cannot change password** and **Password never expires** options, and then click on **Next**

Create in: mydomain.local/Users

Password: [dots]

Confirm password: [dots]

☐ User must change password at next logon

☒ User cannot change password

☒ Password never expires

☐ Account is disabled

< Back Next > Cancel

3.10 Now, click on **Finish**

Create in: mydomain.local/Users

When you click Finish, the following object will be created:

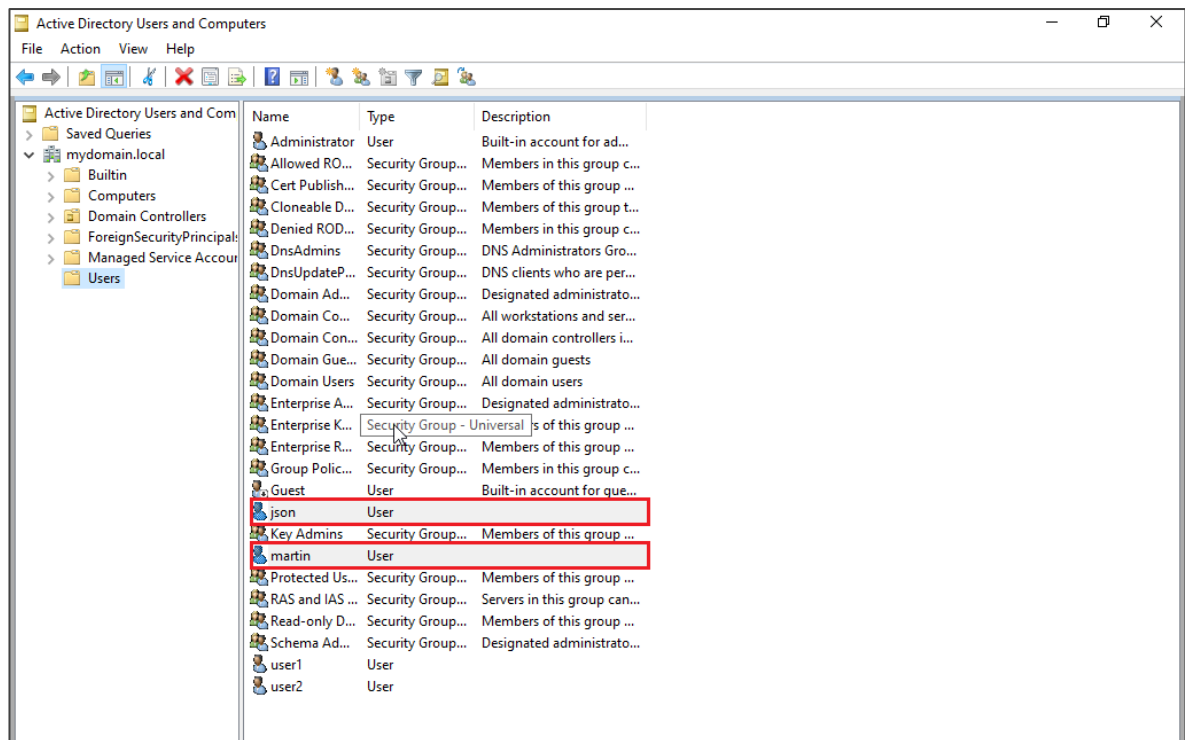
Full name: json

User login name: json@mydomain.local

The user cannot change the password.

The password never expires.

< Back Finish Cancel



You can see both users have been created successfully.

By following these steps, you have successfully installed Active Directory and created users for managing organizational resources.