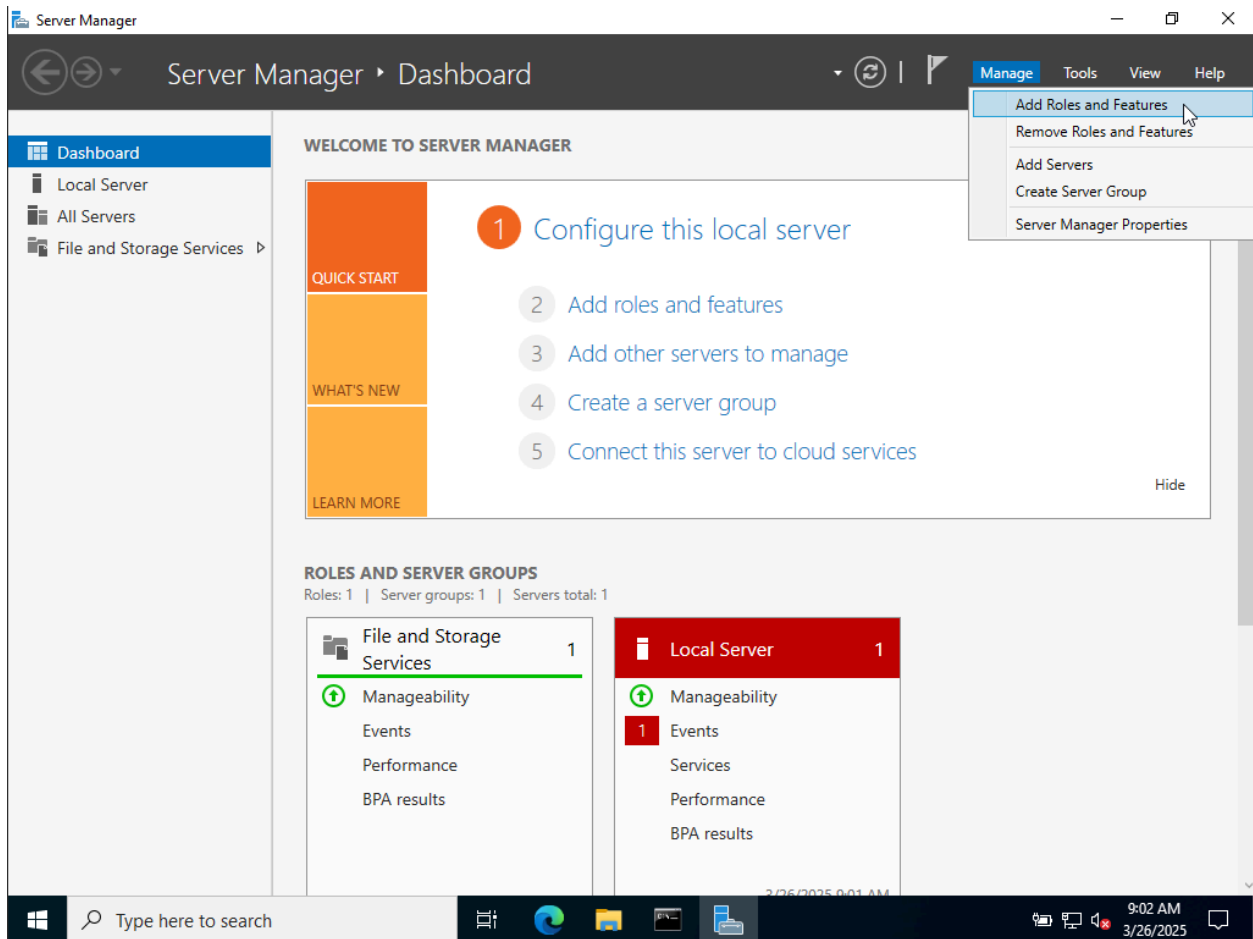


Setup Active Directory

Head to Server Manager → Manage → Add Roles and Features:



Setup the setting like this:

Before you begin

DESTINATION SERVER
ADDC-Version1**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
ADDC-Version1

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

Add Roles and Features Wizard

Select destination server

DESTINATION SERVER
ADDC-Version1

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
ADDC-Version1	192.168.10.7	Microsoft Windows Server 2022 Standard Evaluation

1 Computer(s) found

This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, 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.

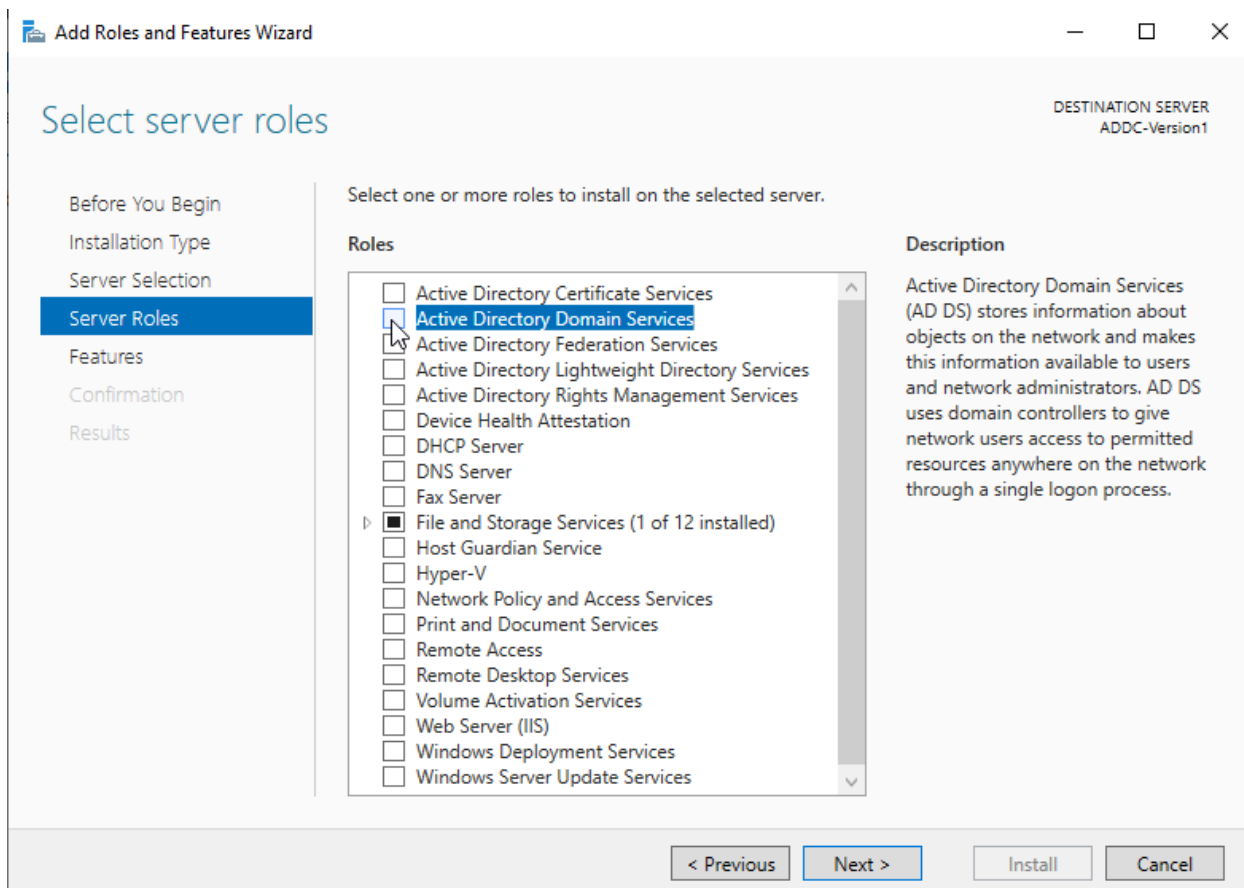
< Previous

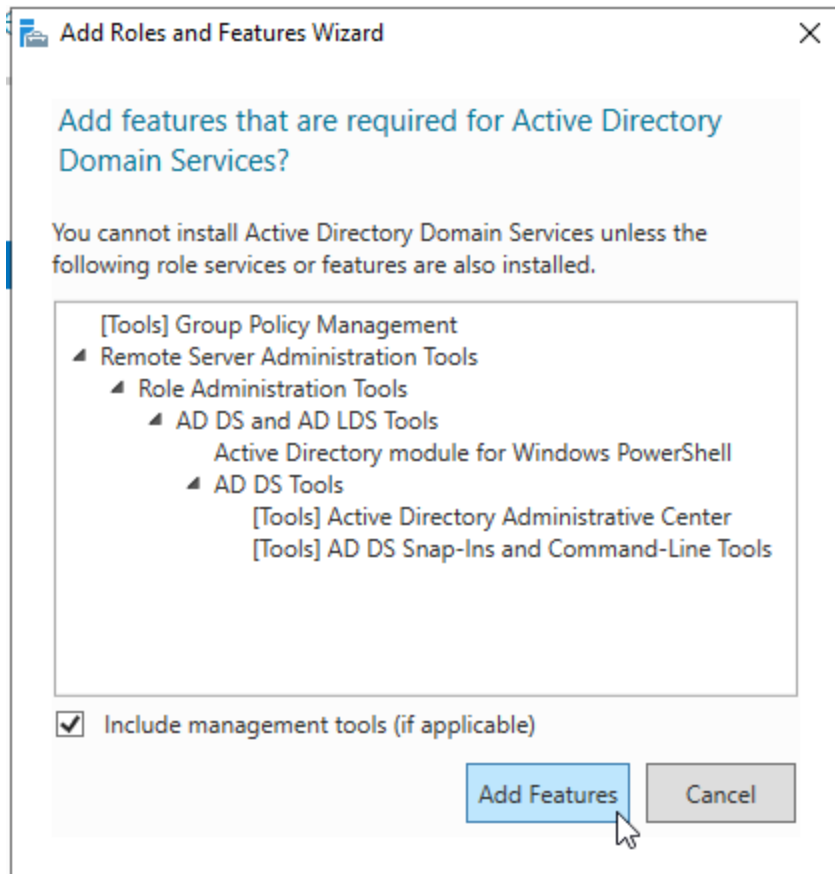
Next >

Install

Cancel

This is where you can see the company servers (not include Splunk)





Select features

DESTINATION SERVER
ADDC-Version1

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

Confirmation

Results

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

Features

- ☐ .NET Framework 3.5 Features
- ☒ .NET Framework 4.8 Features (2 of 7 installed)
- ☐ Background Intelligent Transfer Service (BITS)
- ☐ BitLocker Drive Encryption
- ☐ BitLocker Network Unlock
- ☐ BranchCache
- ☐ Client for NFS
- ☐ Containers
- ☐ Data Center Bridging
- ☐ Direct Play
- ☐ Enhanced Storage
- ☐ Failover Clustering
- ☒ Group Policy Management
- ☐ Host Guardian Hyper-V Support
- ☐ I/O Quality of Service
- ☐ IIS Hostable Web Core
- ☐ Internet Printing Client
- ☐ IP Address Management (IPAM) Server
- ☐ LPR Port Monitor

Description

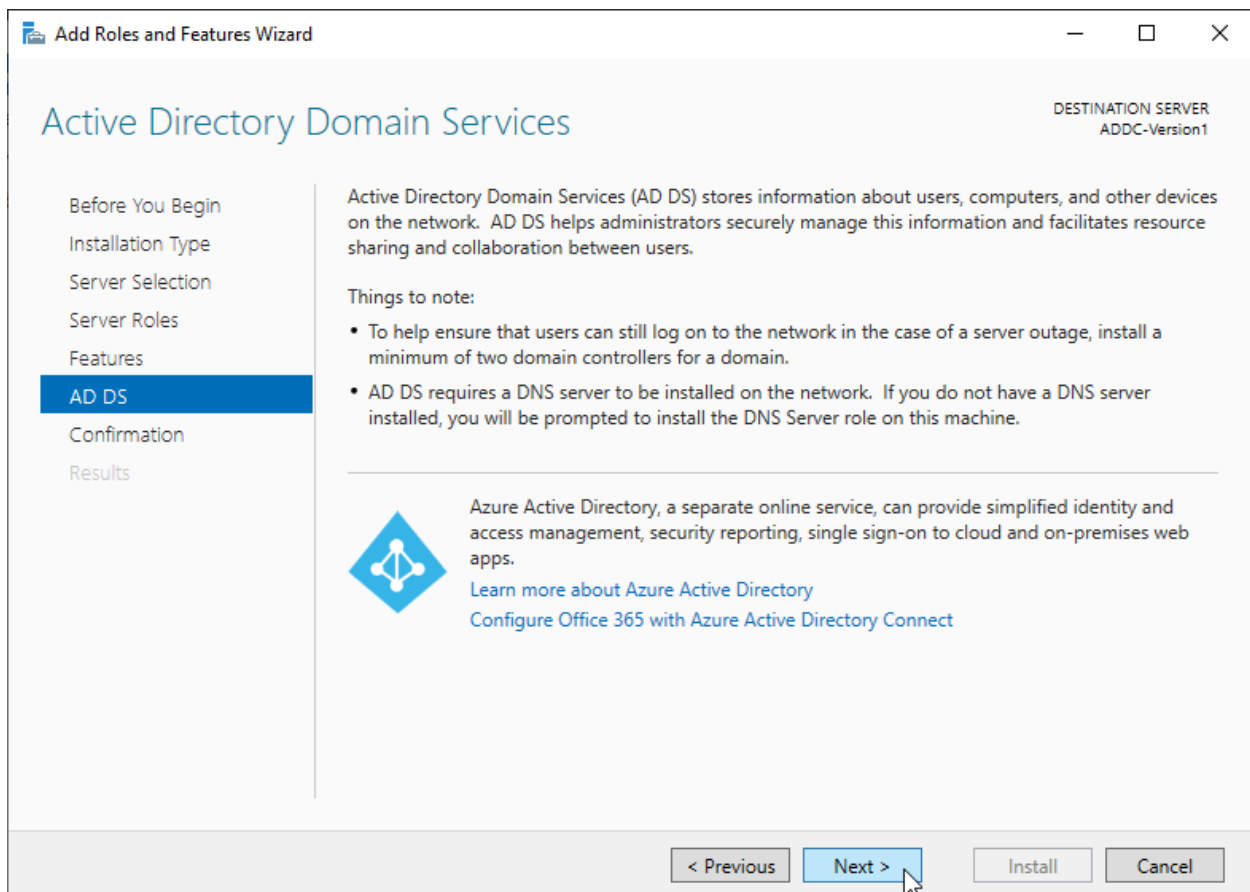
.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business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

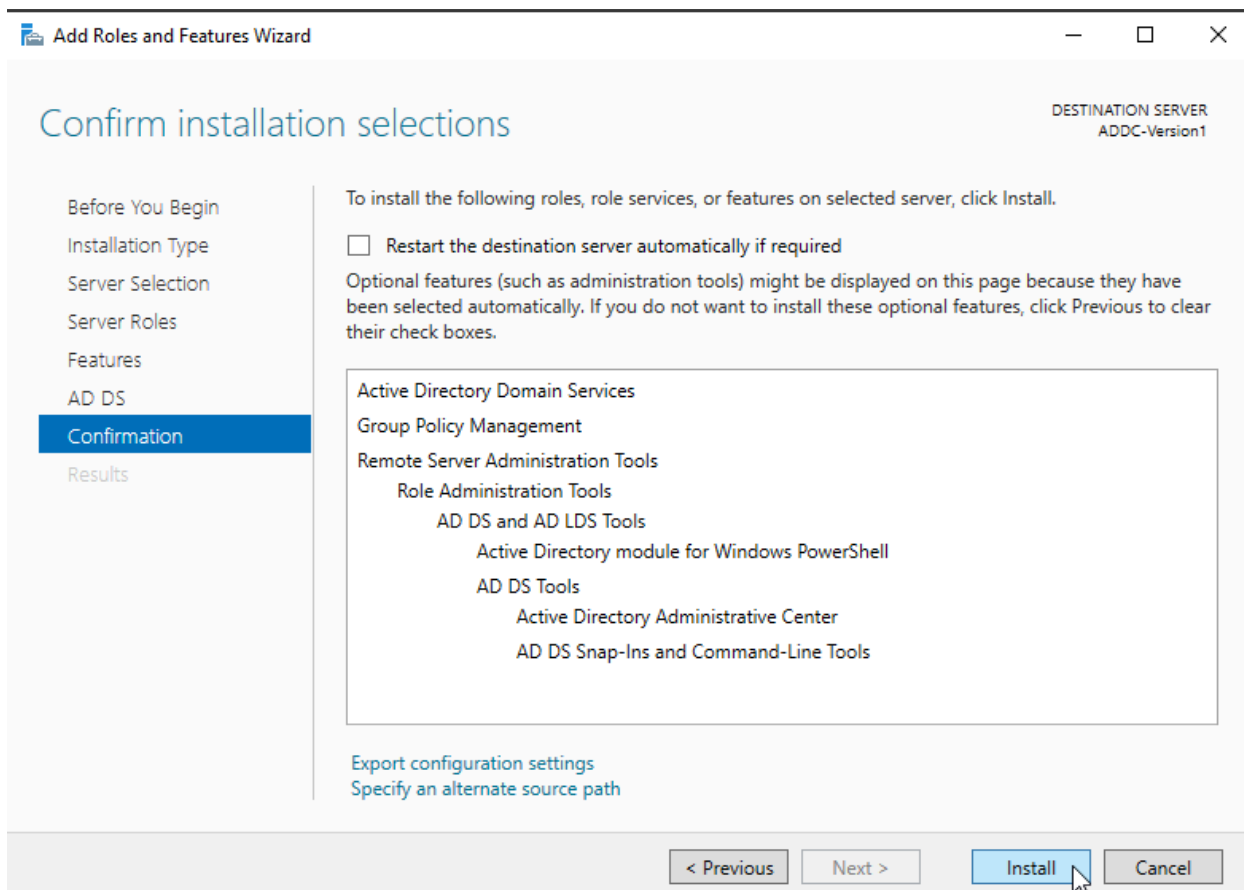
< Previous

Next >

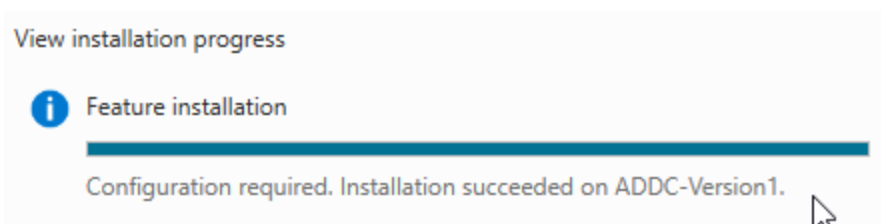
Install

Cancel

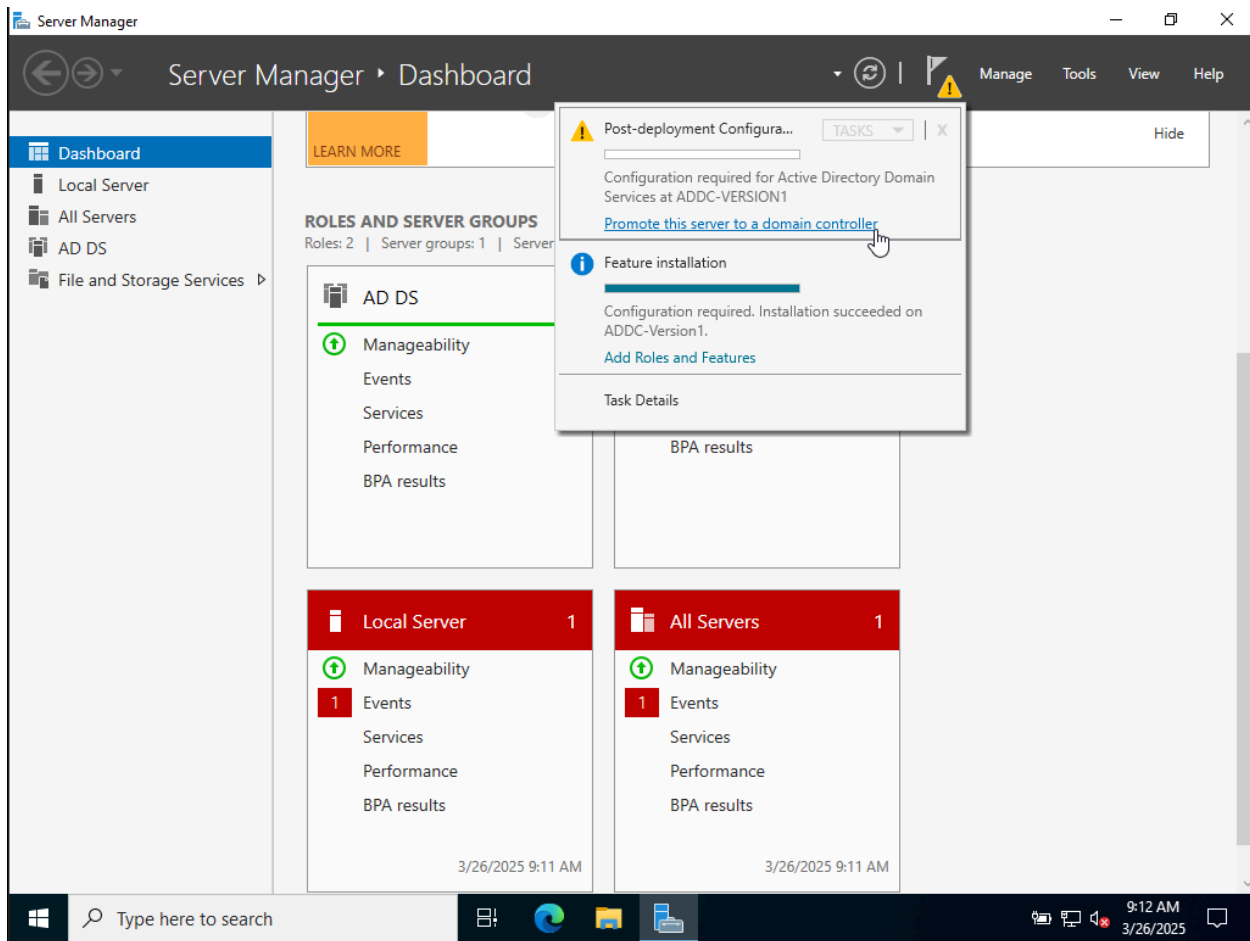




Wait for it to install until you see *Installation succeeded on "Name"*.



It time to setup the server into domain controller. Click to the Warning Icon above:



Active Directory Domain Services Configuration Wizard

Deployment Configuration

TARGET SERVER
ADDC-Version1

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:

[More about deployment configurations](#)

< Previous Next > Install Cancel

- We choose the *Add a new forest* because we want to create a brand new domain.
- The domain name must have a top level domain so the name must be *something.something*

Active Directory Domain Services Configuration Wizard

Domain Controller Options

TARGET SERVER
ADDC-Version1

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

Password is Kirsten1230\$

DNS Options

TARGET SERVER
ADDC-Version1

⚠ A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found... [Show more](#) ×

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 >

Install

Cancel

Active Directory Domain Services Configuration Wizard

Additional Options

TARGET SERVER
ADDC-Version1

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](#)

< Previous Next > Install Cancel

Active Directory Domain Services Configuration Wizard

Paths

TARGET SERVER
ADDC-Version1

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: C:\Windows\NTDS

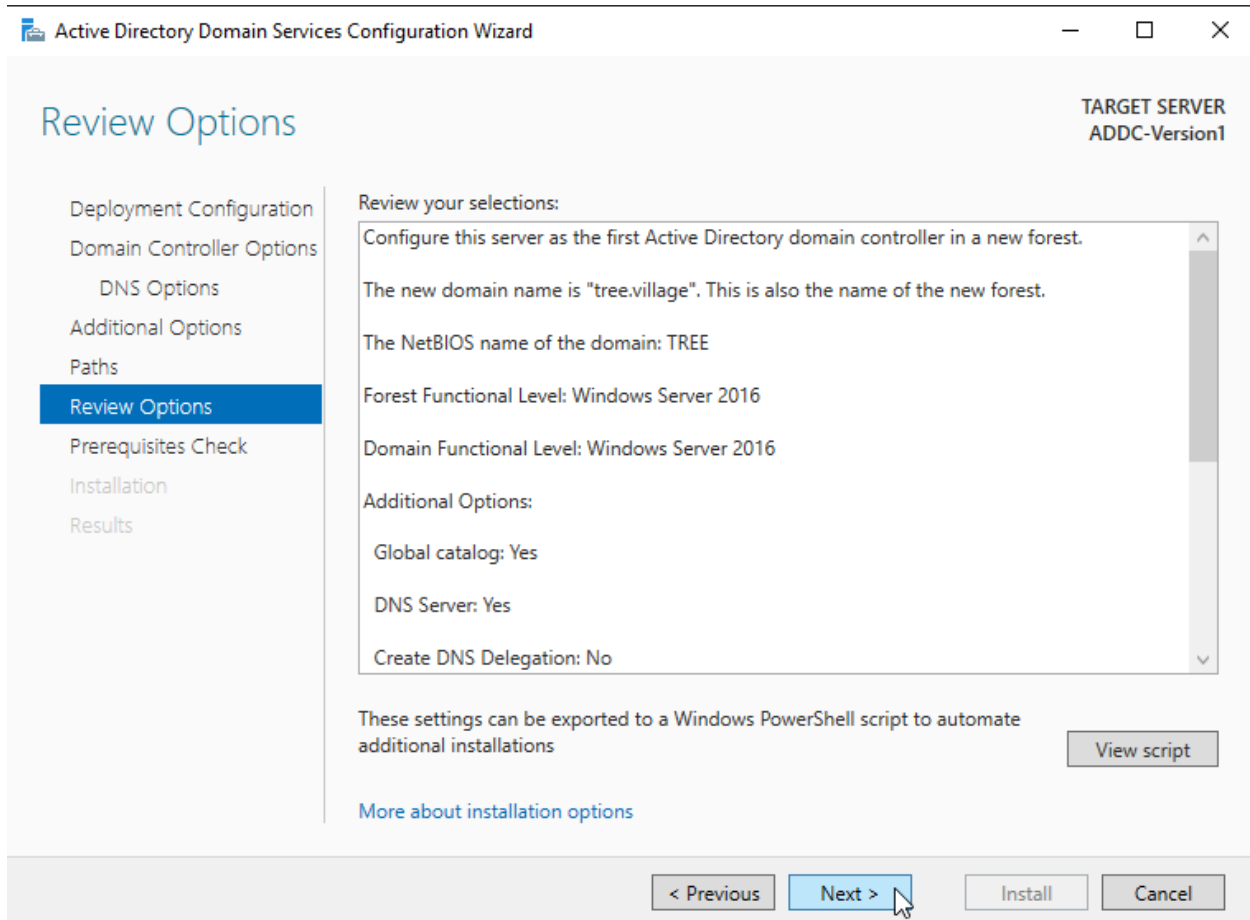
Log files folder: C:\Windows\NTDS

SYSVOL folder: C:\Windows\SYSVOL

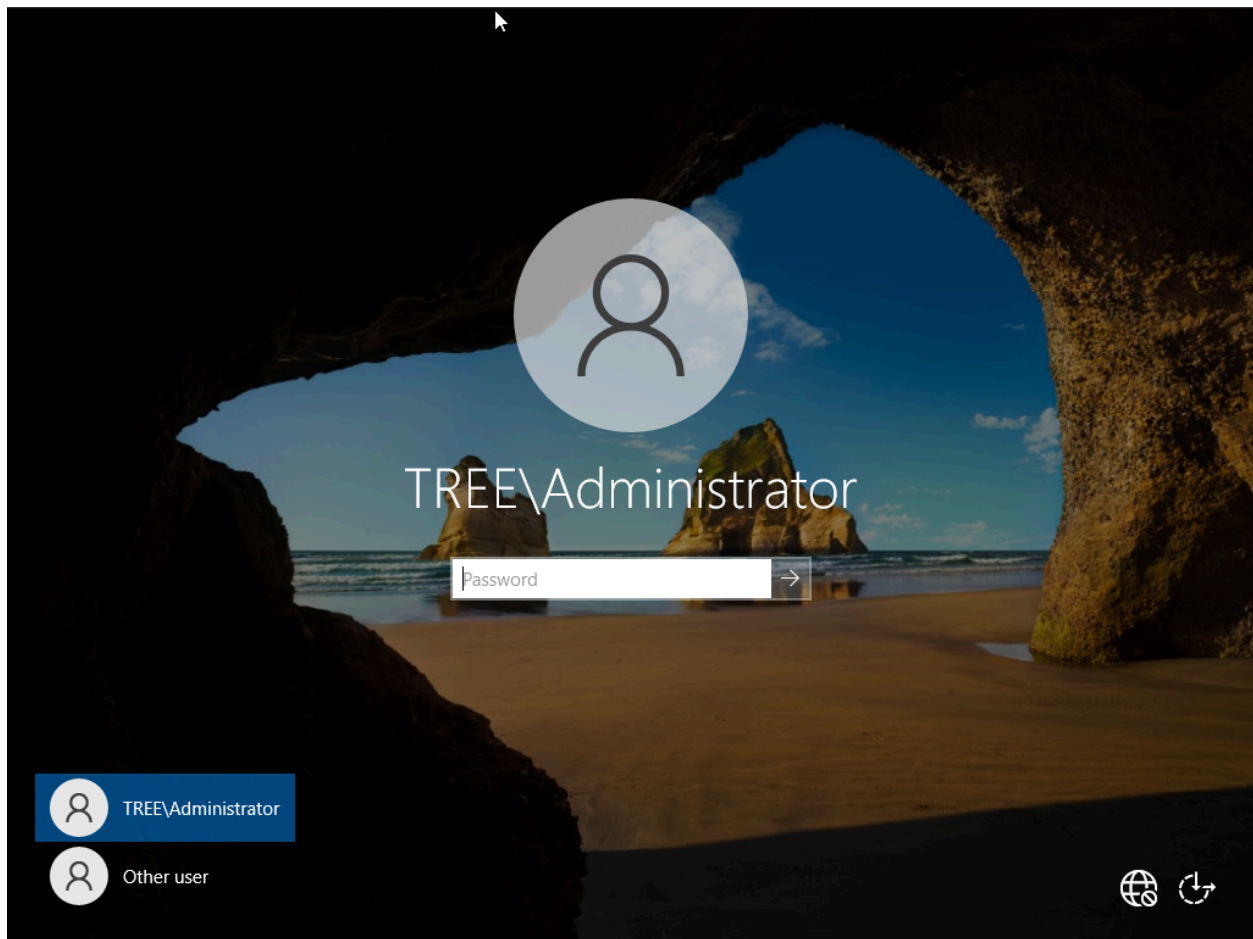
[More about Active Directory paths](#)

< Previous Next > Install Cancel

- This will be the path use to store the database file name ntds.dit.
- FYI love to target DC (Domain Controllers) not only because it has access to everything but also because of ntds.dit since it contains everything related to active directory including password hashes.
- If any unauthorized activity towards ntds.dit, you can assume that your entire domain is unfortunately compromised.

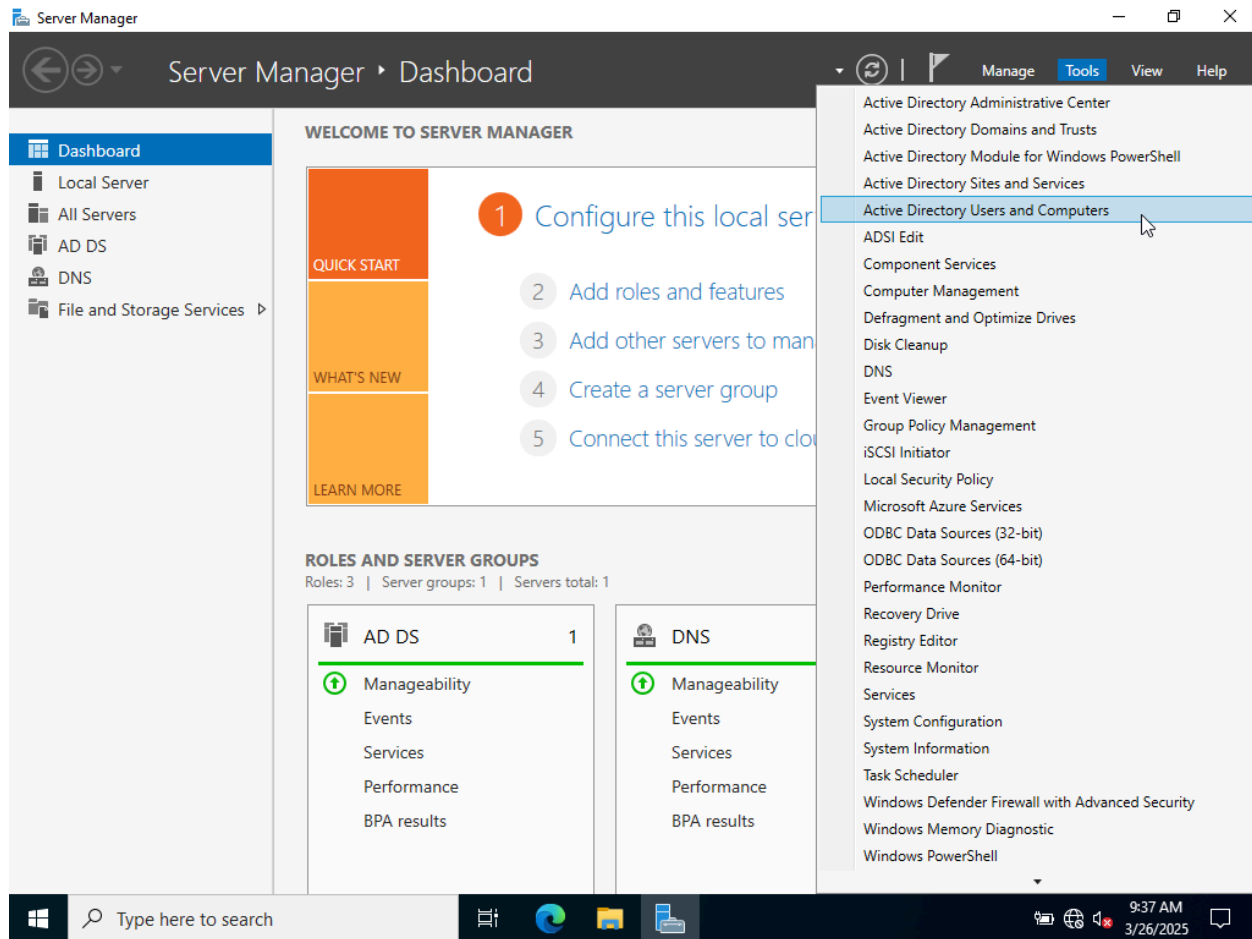


After you see this screen mean that we successfully installed ADDC and promoted our server to DC (Domain Controller):

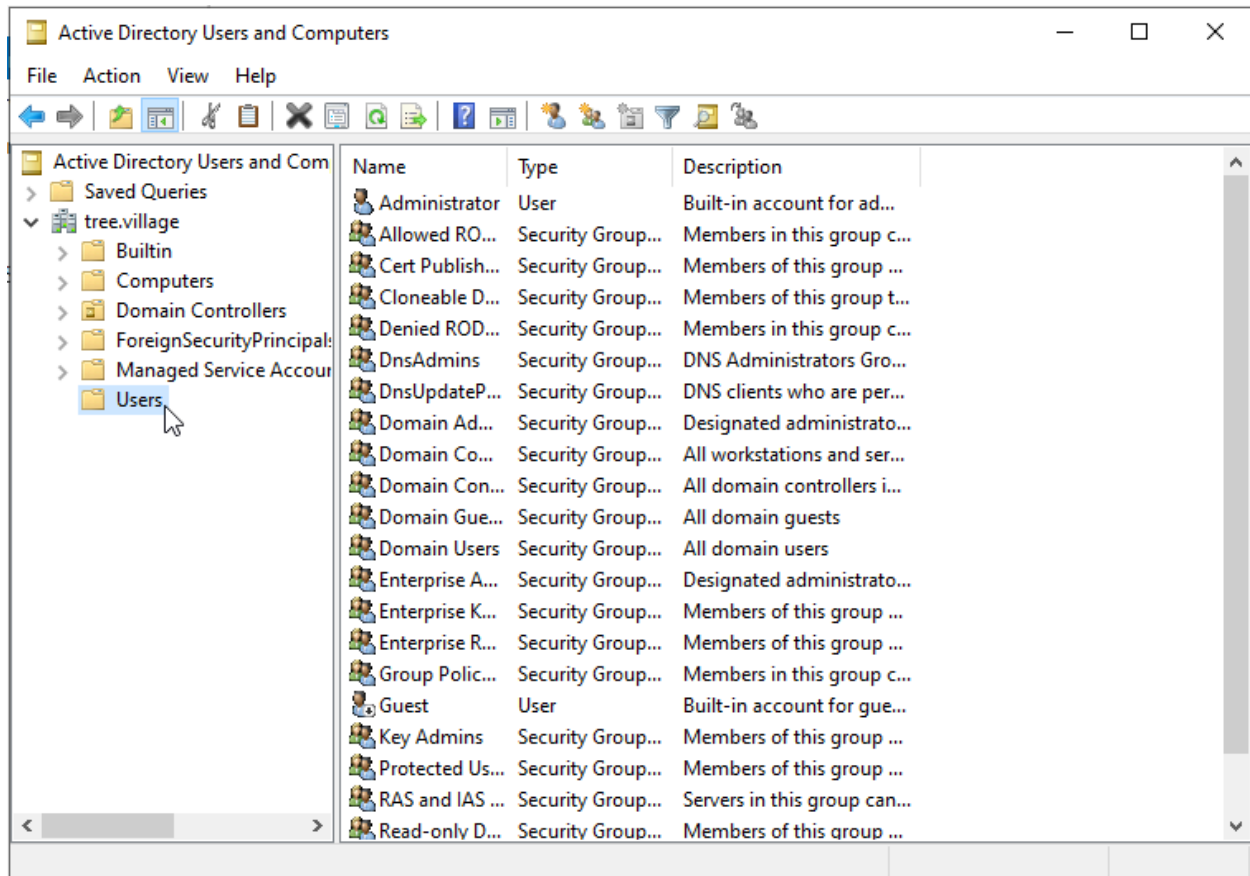


Create Users

Head to Server Manager → Tools → Active Directory Users and Computers

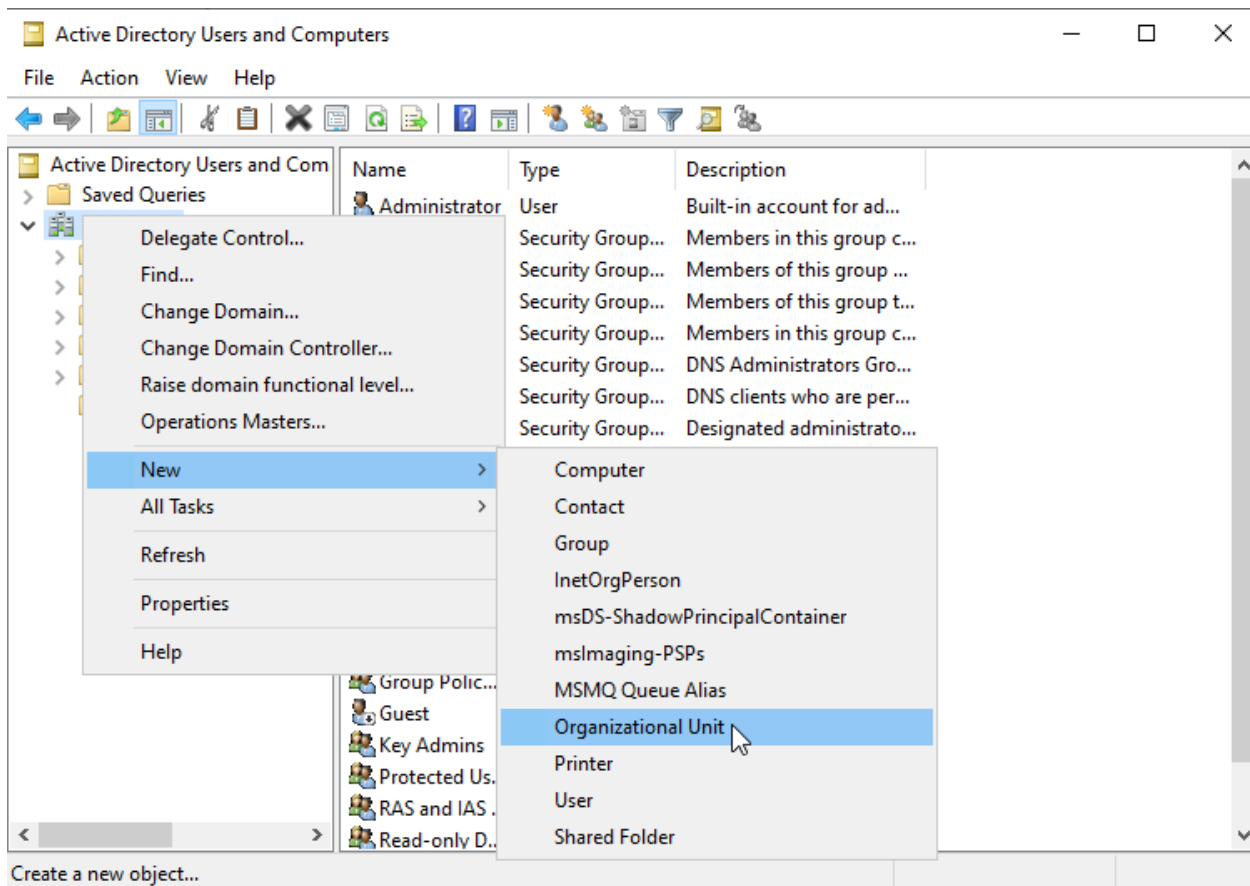


- This is where we can create objects such as User, Computer, Groups,...

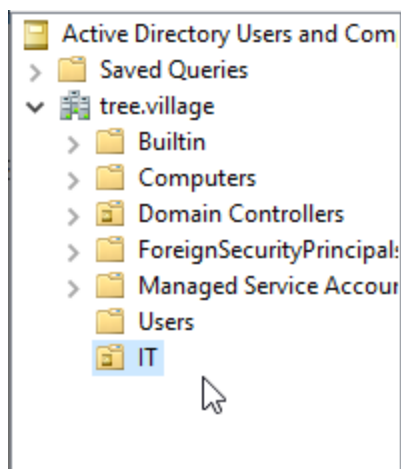


This is where all the prebuilt User in here, now we want to create organizational units since a company usually gonna have different departments such as HR, IT, Finance,...

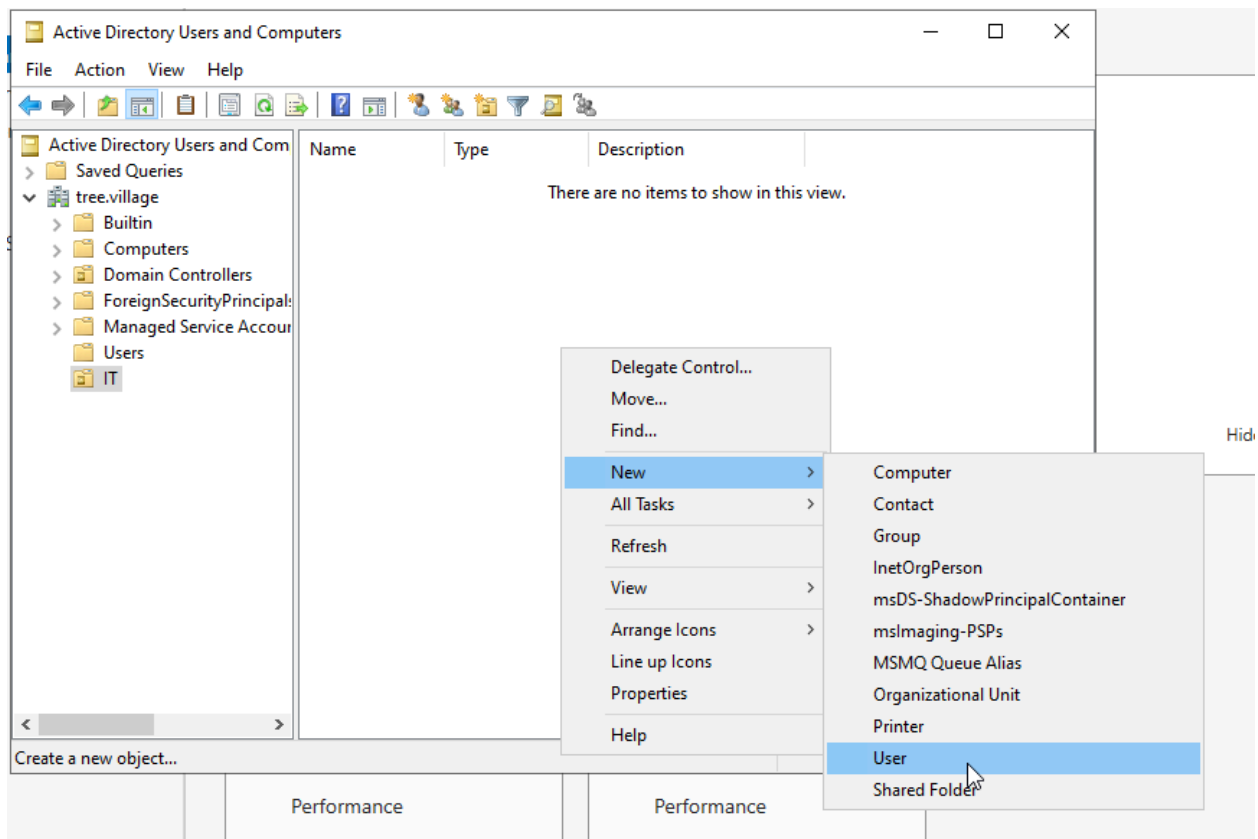
Right click the domain → New → Organizational Unit



Create a new object...



Let create a user:



New Object - User

Create in: tree.village/IT

First name: Justin Initials:

Last name: Thor


Full name: Justin Thor

User logon name: JThor @tree.village

User logon name (pre-Windows 2000): TREE\ JThor

< Back Next > Cancel

New Object - User ✕

 Create in: tree.village/IT

Password:

Confirm password:

☐ User must change password at next logon

☐ User cannot change password


☐ Password never expires

☐ Account is disabled

< Back Next > Cancel

Password: Jaisie123\$

New Object - User ✕

 Create in: tree.village/IT

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

Full name: Justin Thor

User login name: JThor@tree.village

< Back Finish Cancel

Active Directory Users and Com

> Saved Queries

> tree.village

> Builtin

> Computers


> Domain Controllers

> ForeignSecurityPrincipal:

> IT

> Managed Service Accour

> Users

Name	Type	Description
 Justin Thor	User	

Let create another user under HR department:

Active Directory Users and Com

> Saved Queries

tree.village

> Builtin

> Computers

> Domain Controllers


> ForeignSecurityPrincipal:

IT

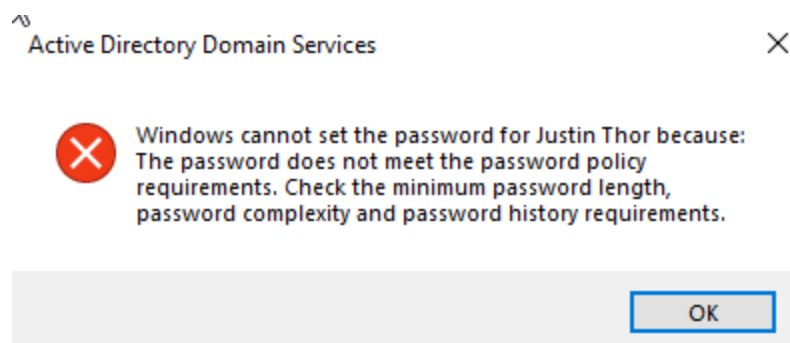
> Managed Service Accour

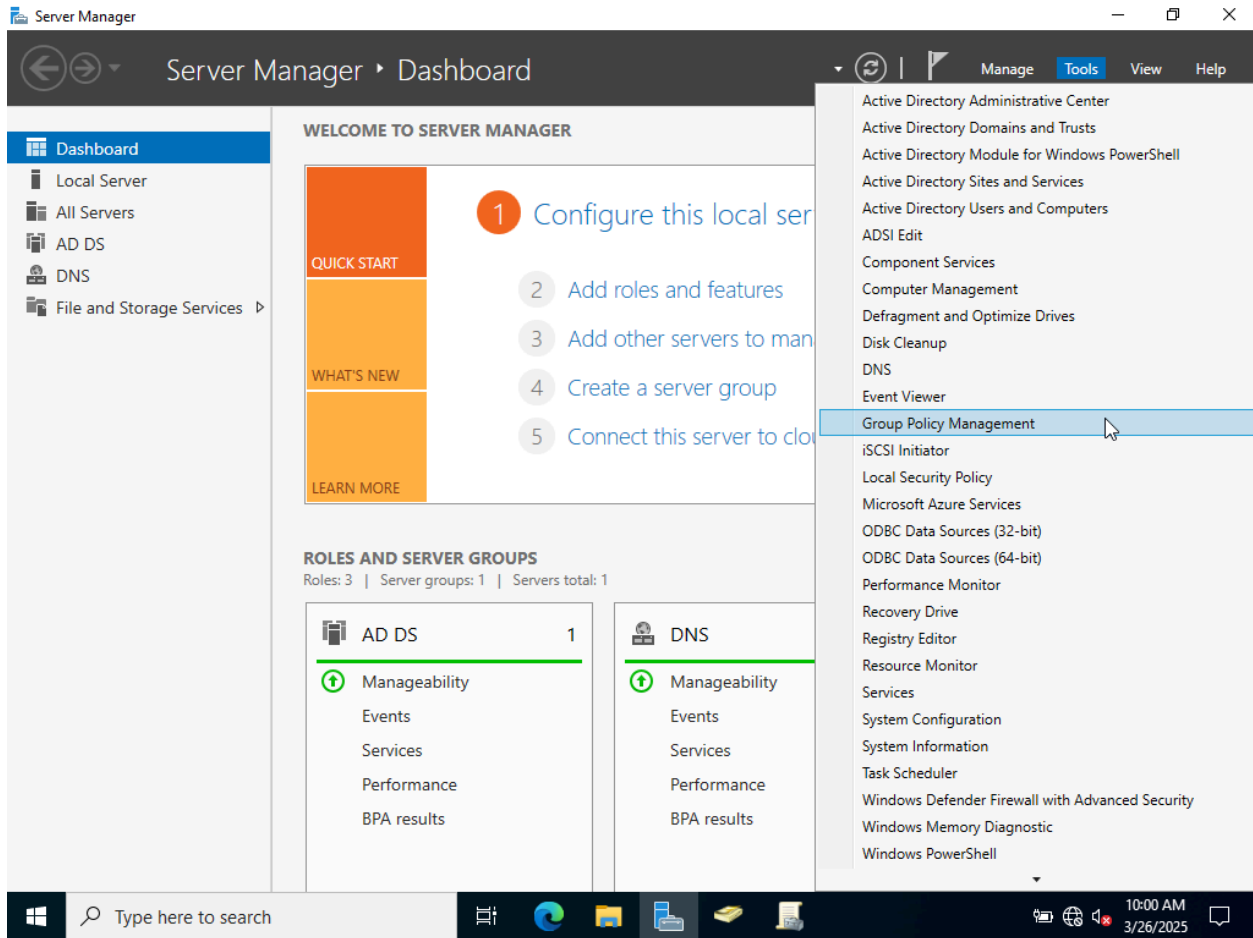
> Users

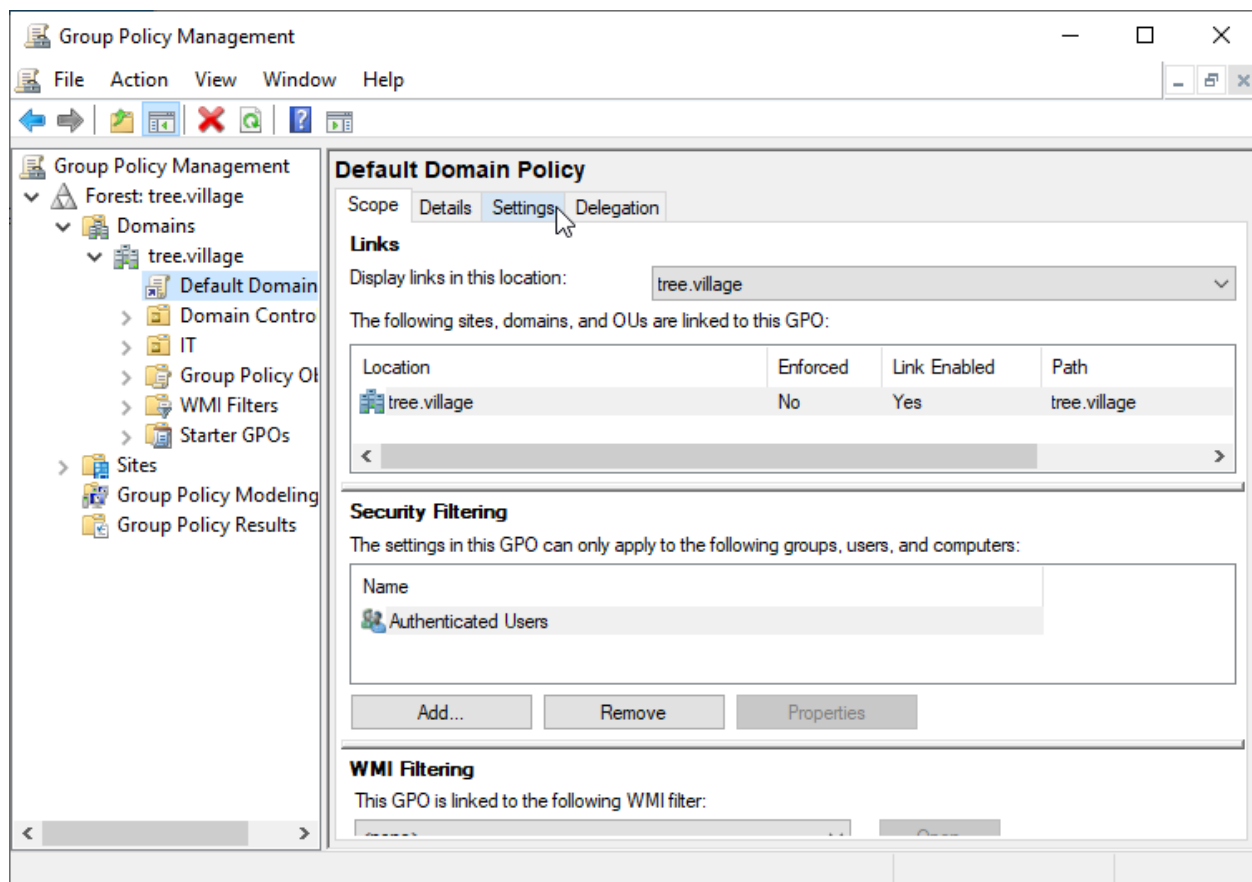
HR

Name	Type	Description
 Jesse Husam	User	

BONUS PART:



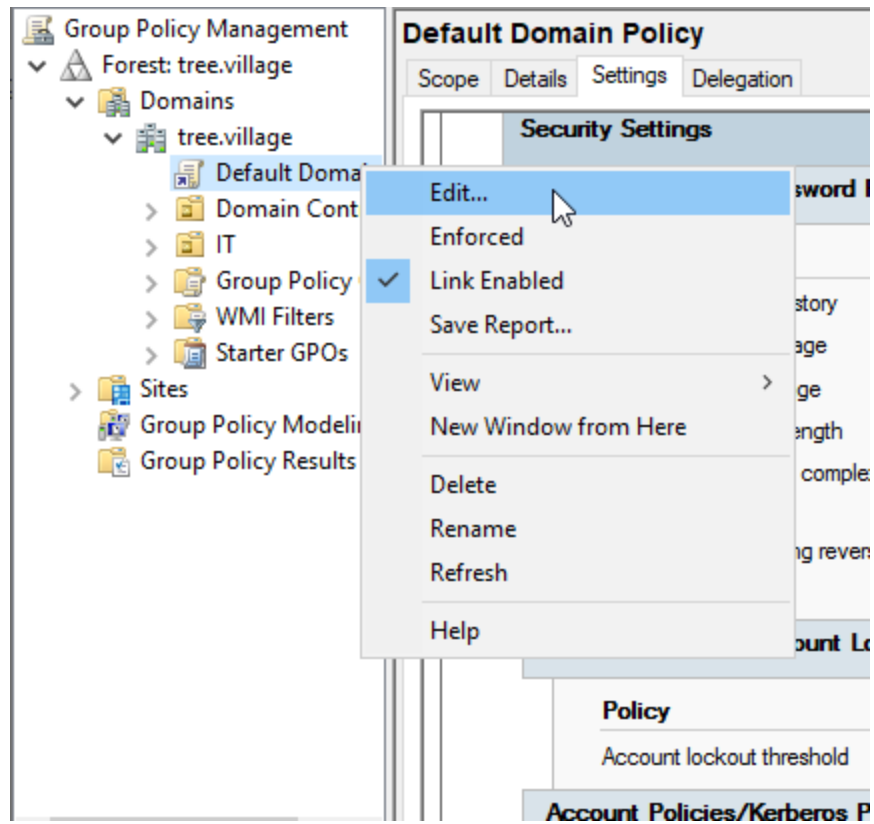


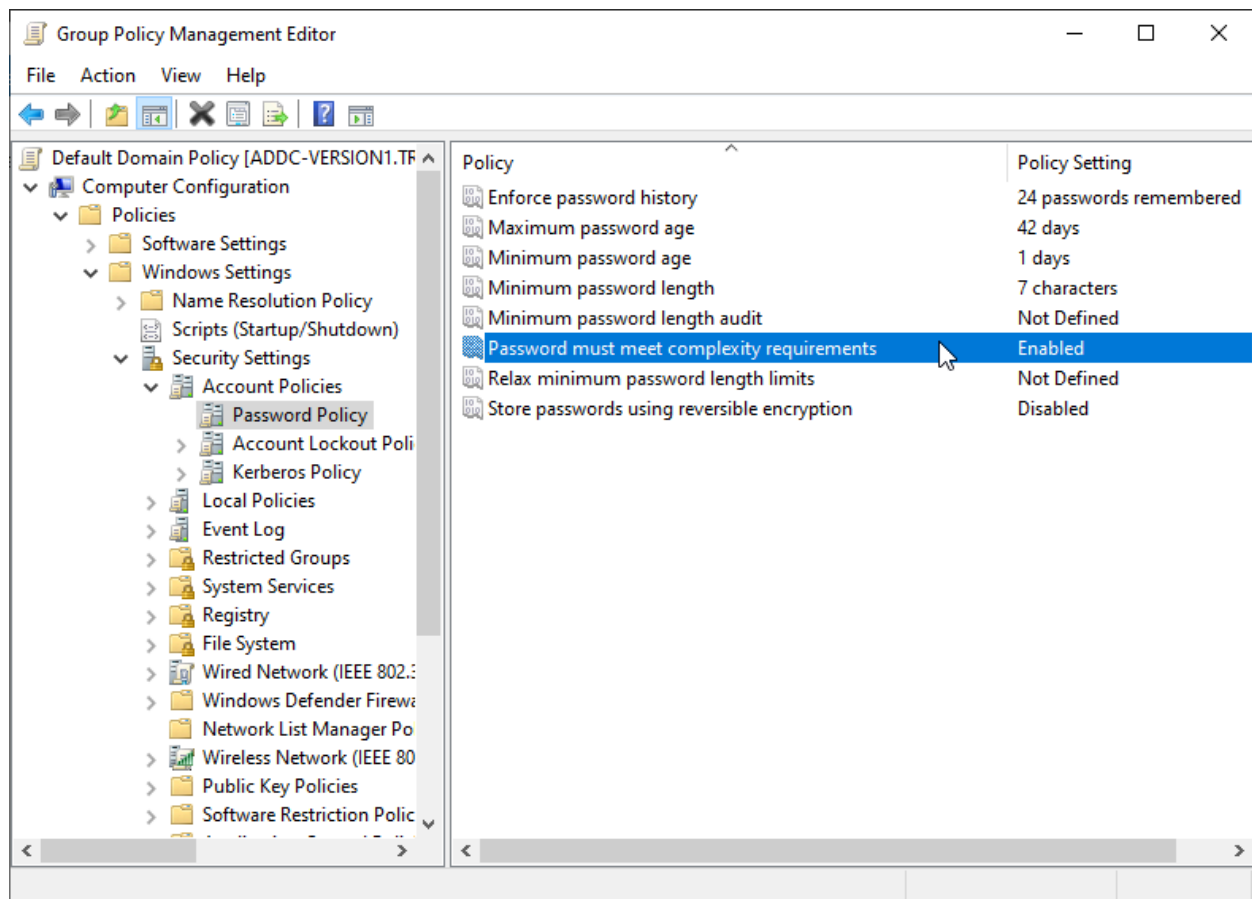


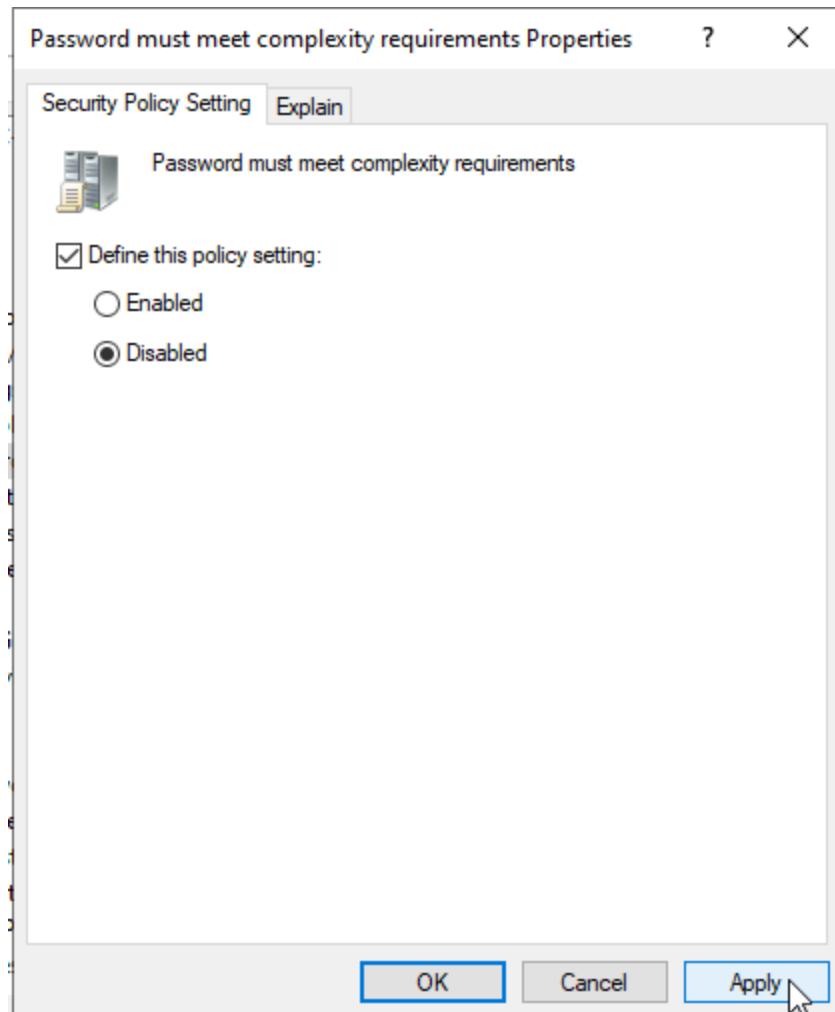
Security Settings

Account Policies/Password Policy

Policy	Setting
Enforce password history	24 passwords remembered
Maximum password age	42 days
Minimum password age	1 days
Minimum password length	7 characters
Password must meet complexity requirements	Enabled
Store passwords using reversible encryption	Disabled

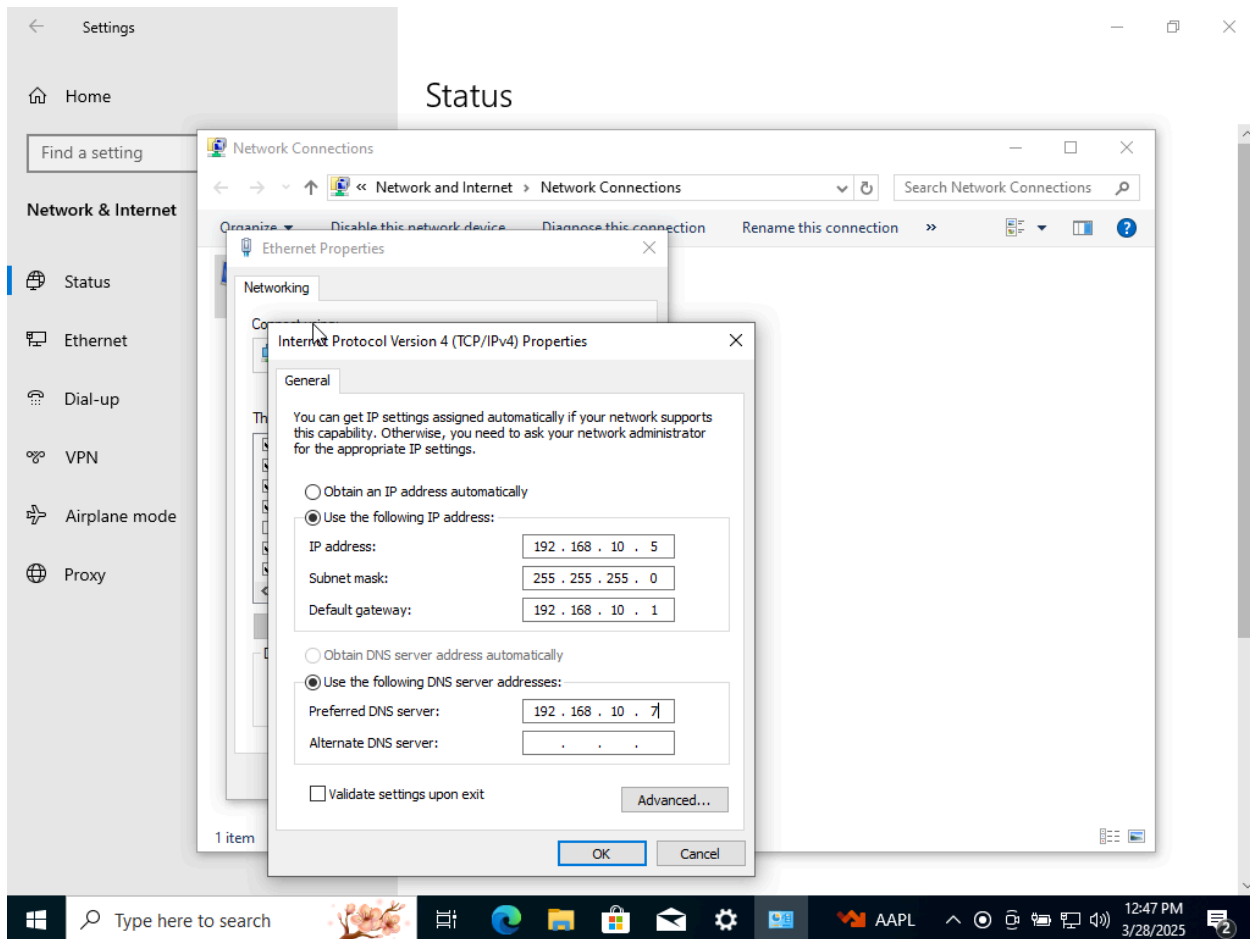




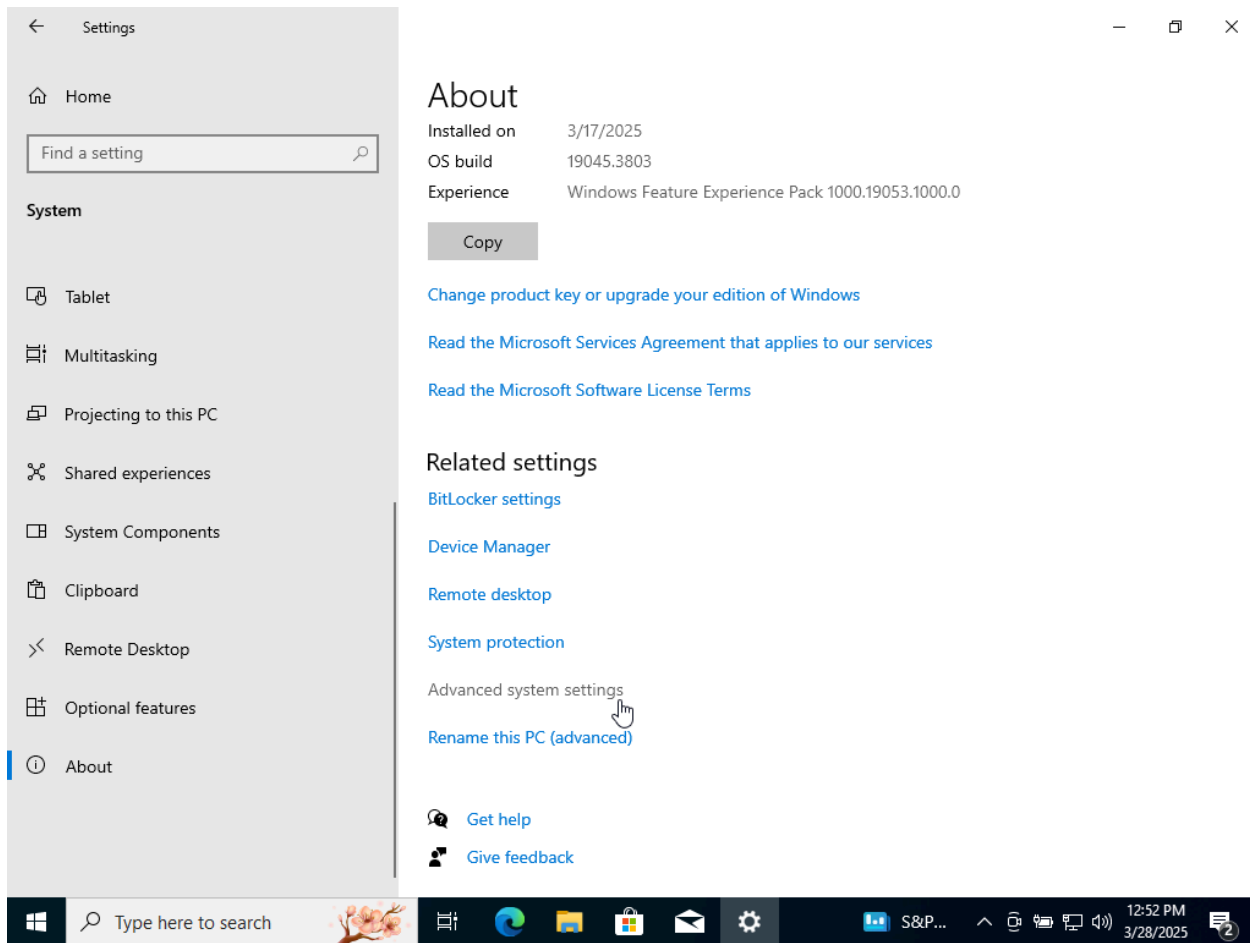


Join Windows 10 VM to ADDC Server VM

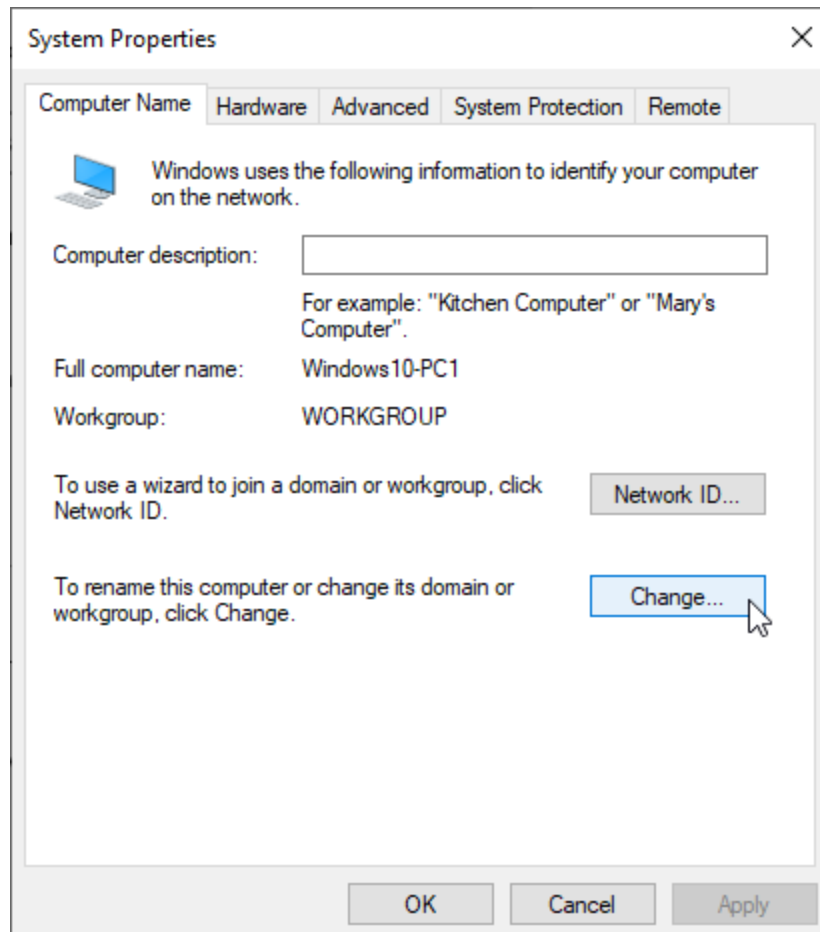
We will need to assign the DNS server address of our Windows 10 to Domain Controller IP address:



After that you will need to group your windows 10 to the Domain Controller by go to Setting → System → About→ Advanced system settings:



Under Computer Name hit Change:



Under the *Member of* , we want to switch to Domain and put the Domain we set up the Domain Controller earlier. My will be *tree.village* and we will click OK:

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name:
Windows10-PC1

Full computer name:
Windows10-PC1

More...

Member of

☒ Domain:
tree.village

☐ Workgroup:
WORKGROUP

OK Cancel

Windows Security

Computer Name/Domain Changes

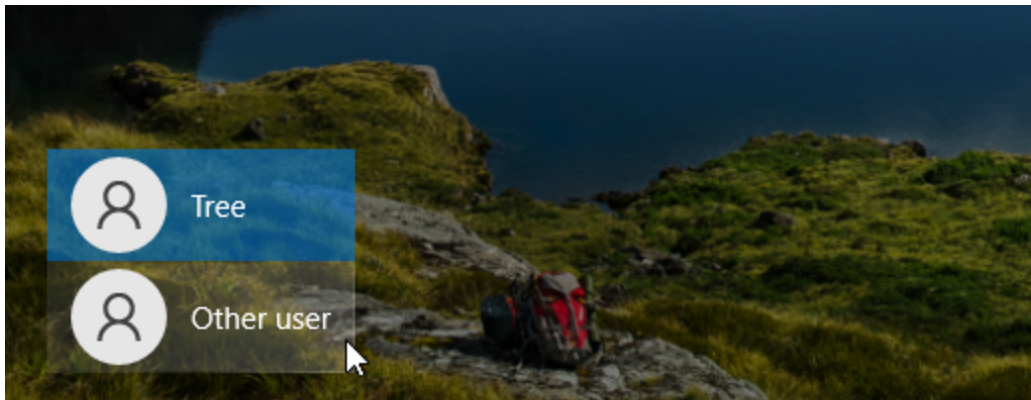
Enter the name and password of an account with permission to join the domain.

administrator

.....

OK Cancel

It will start request to restart so you just go ahead and restart the computer. After restart, once we get to the log in screen you will want to log in under Other User:



You will want to log in with the new User credential you create at the ADDC Server VM. If you be able to see *Sign in to: TREE* (The domain name you setup) then you are successfully:

