



IAM

Best Practices for Scenarios_Activity Domain IWA SSO

Version 12.0.42



Change Log

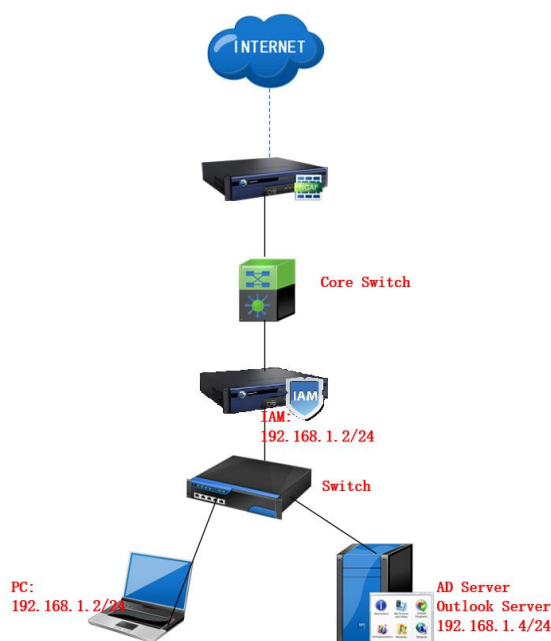
Date	Change Description
August 24, 2020	Version 12.0.42 document release.
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Chapter 1 Scenario

A customer uses a Microsoft AD server to manage intranet users. All end users are Windows systems. The client's office applications are mainly applications from Microsoft companies such as Outlook; the customer wants to control intranet users and requires visualization of control, that is, a specific domain can be queried. The user's online behavior and traffic information also perform identity verification for intranet users. Integrating all customer needs, and at the same time, the customer uses the Microsoft AD domain to manage users. Among the several ways of combining Microsoft AD domain authentication, the script SSO has the highest success rate, but the customer does not allow to deliver scripts through the Microsoft AD domain, so we can choose Integrated Windows Authentication method.



AD Server:

IP: 192.168.1.4

Domain Name: sangfor.com

Account/Password: administrator/@sangfor123

Test PC:

IP: 192.168.1.3

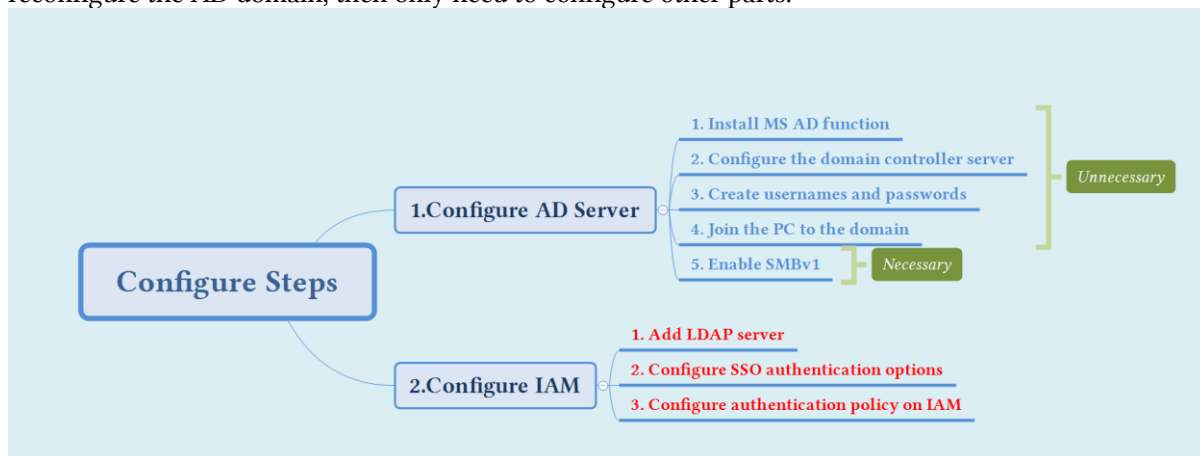
Account/Password: administrator/@sangfor123

Domain Account/Password: sangfortest/@sangfor123

1.1 Configure Steps

The configuration steps are as shown in the figure below. It should be noted that in order to make everyone familiar with the AD domain faster, we add the method of configuring the AD domain, which is the part marked "not necessary". If the customer has used the AD domain before and does not need to

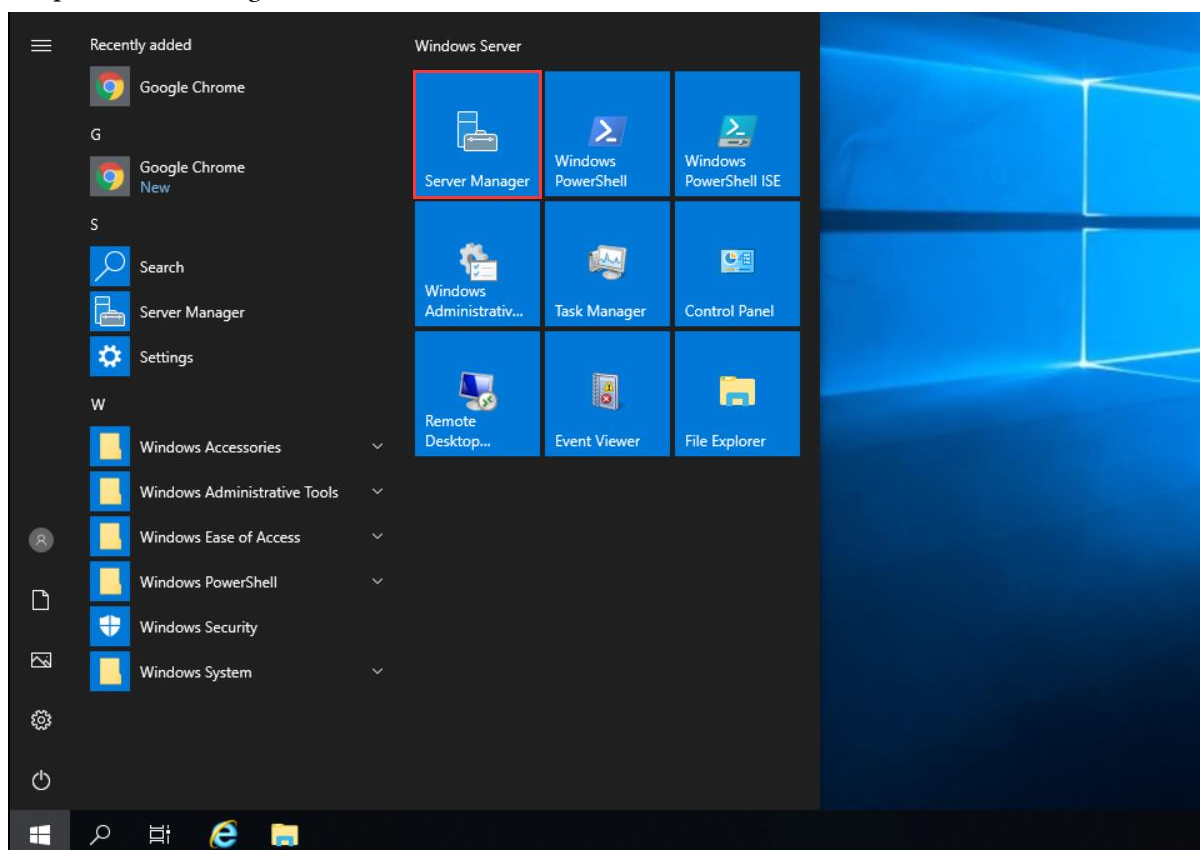
reconfigure the AD domain, then only need to configure other parts.



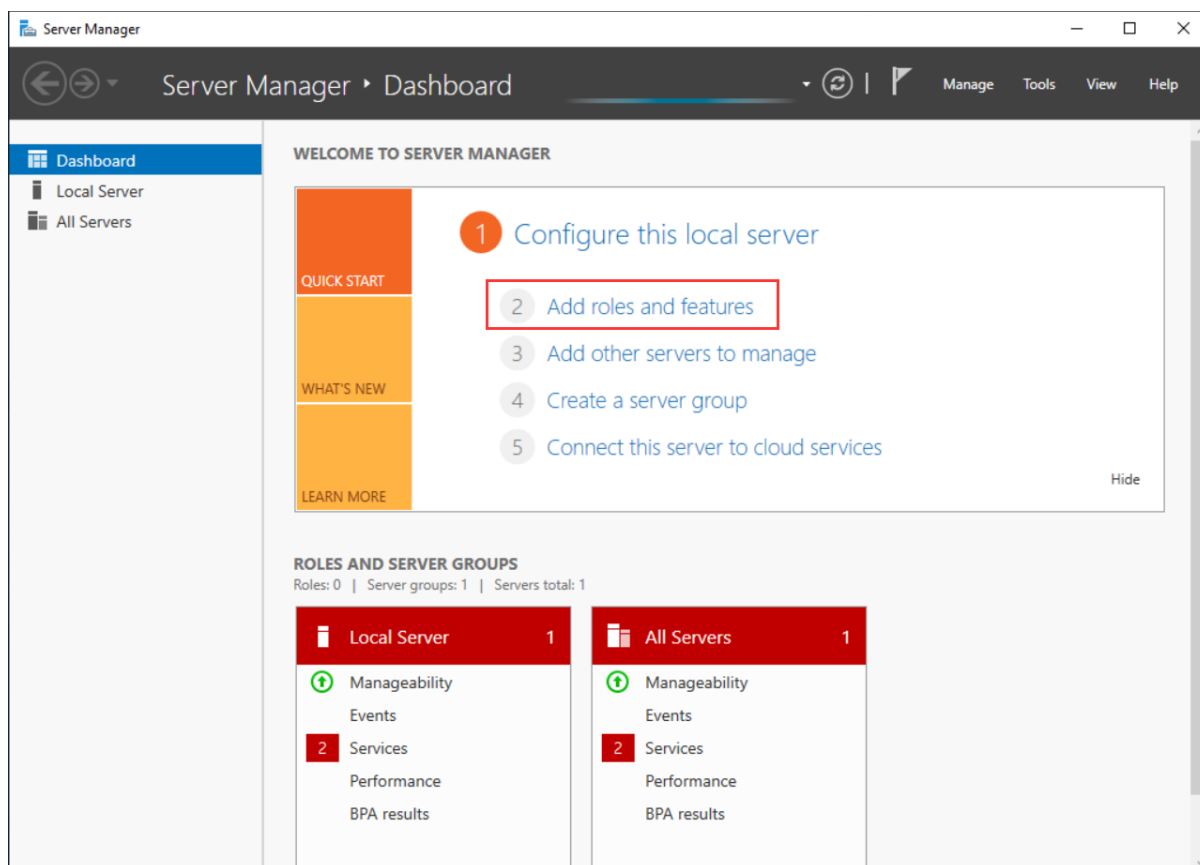
Chapter 2 How to Configure Activity Domain Server

2.1 Install MS AD function

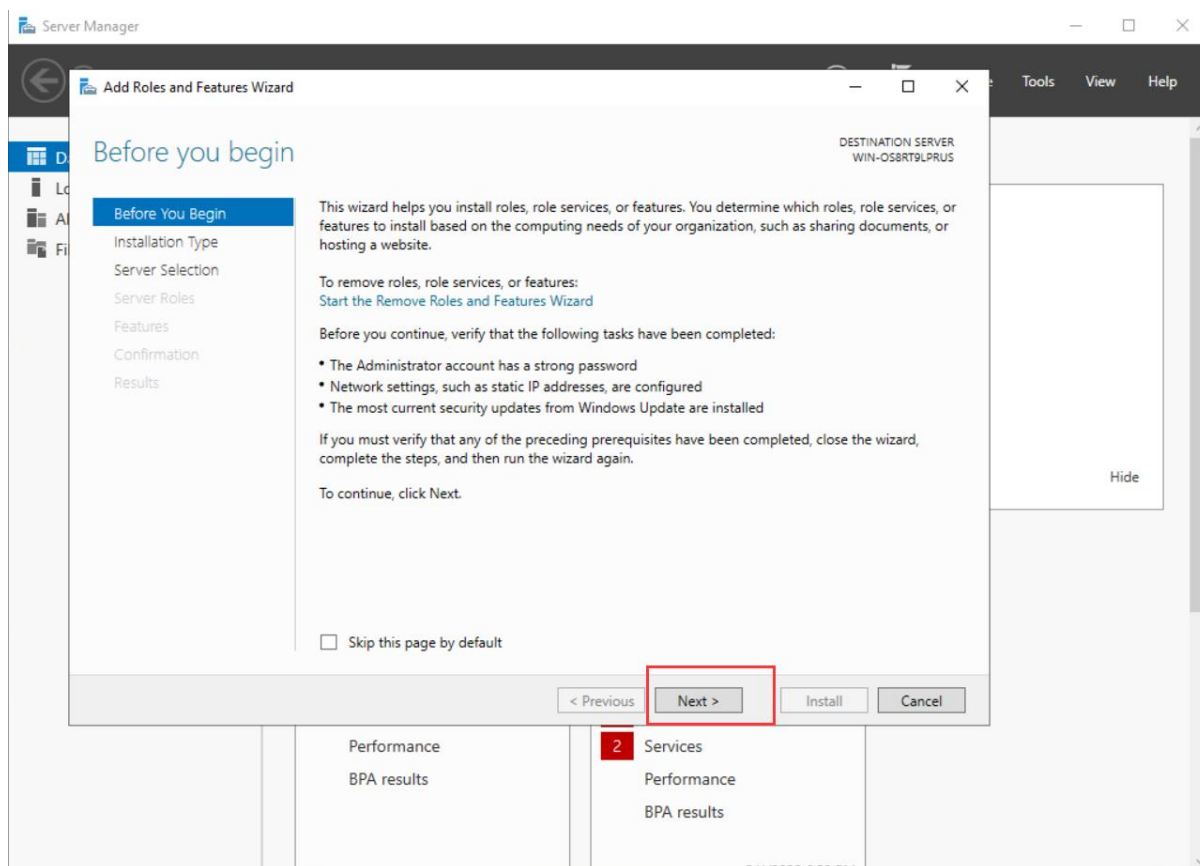
1. Open Server Manager in Windows Server 2019.



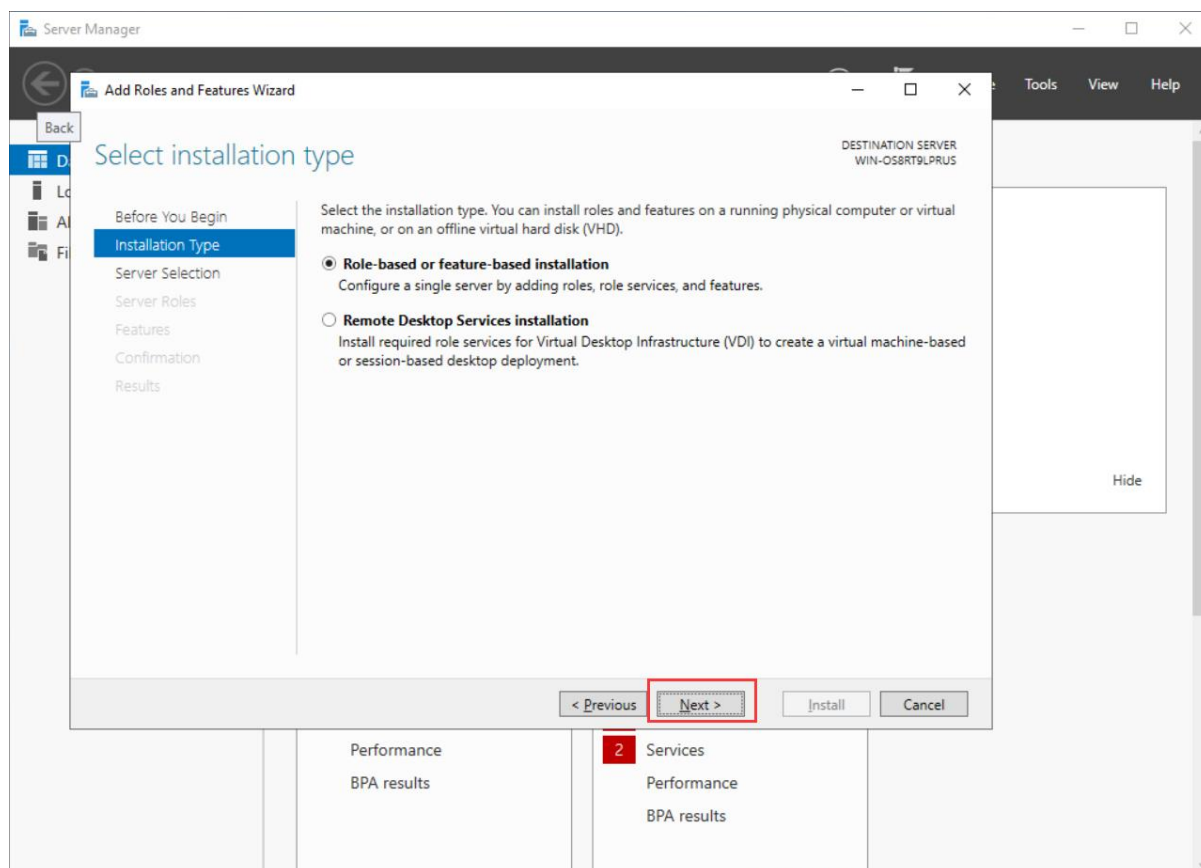
2. Click "Add roles and features".



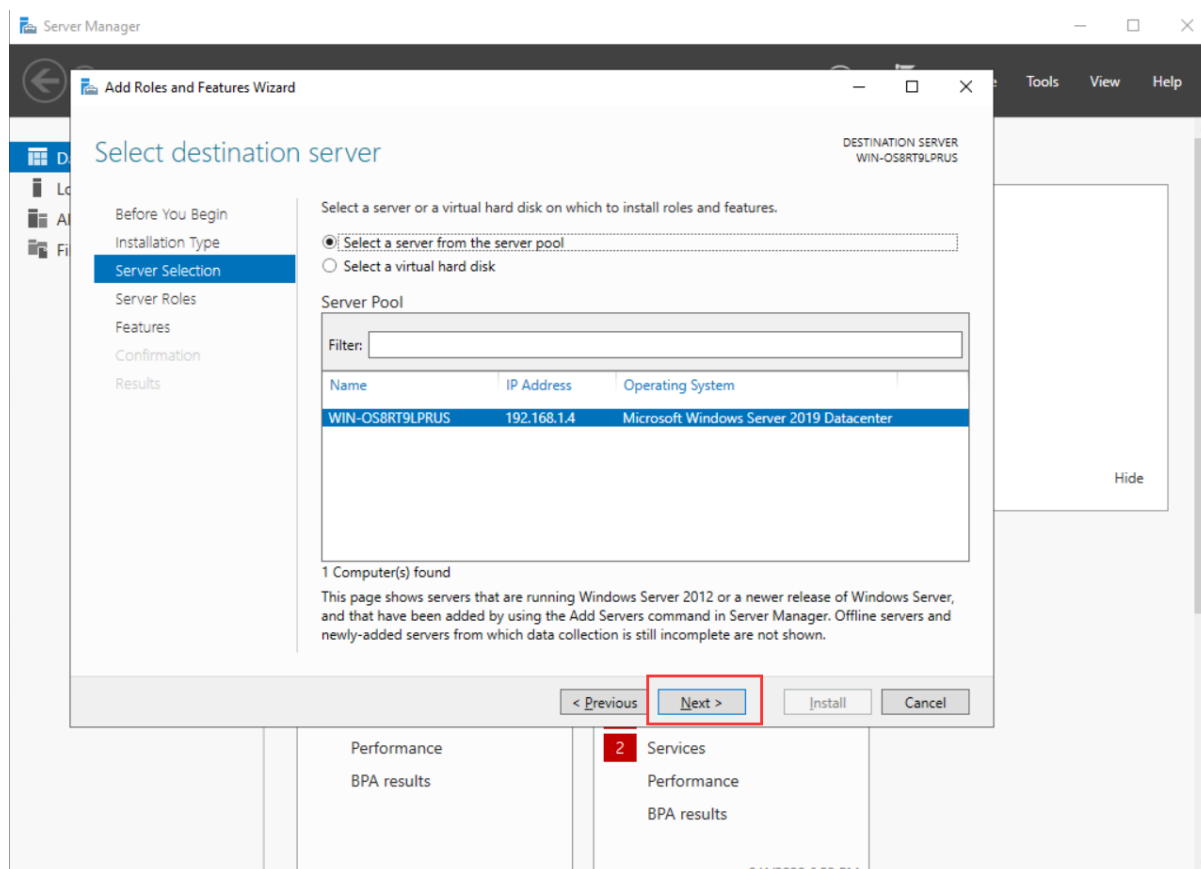
3. Click "Next".



4. Click "Next".

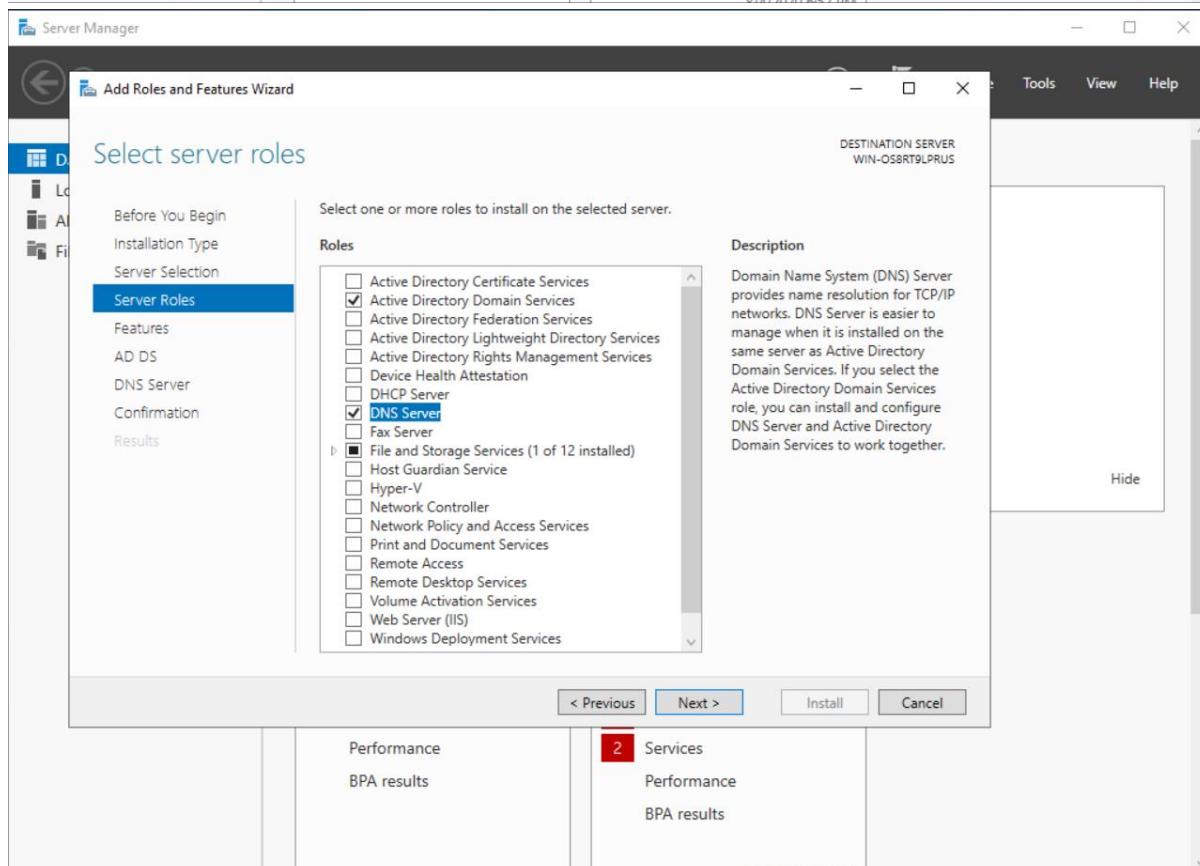
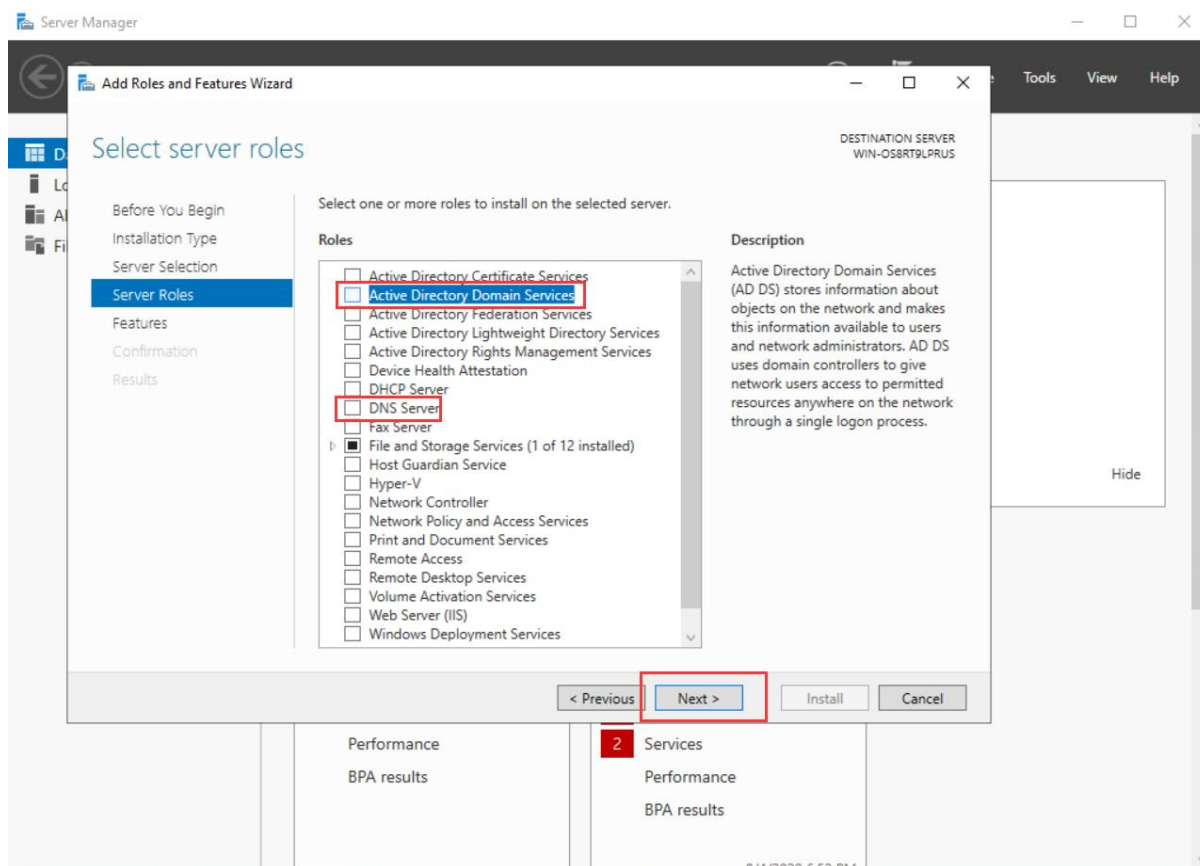


5. Click "Next".



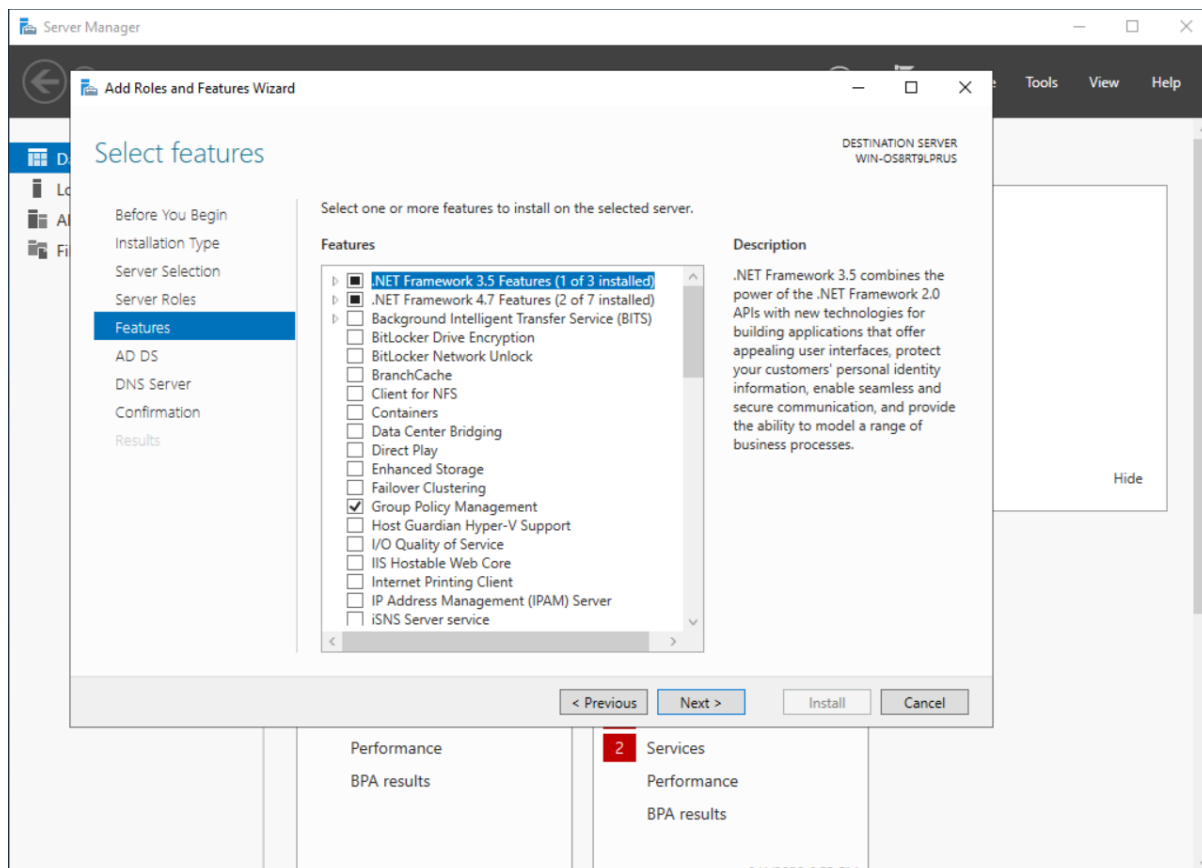
6. Select the functions that need to be installed "Active Directory Domain Services" and "DNS Server", then click "Next".

Activity Domain IWA SSO

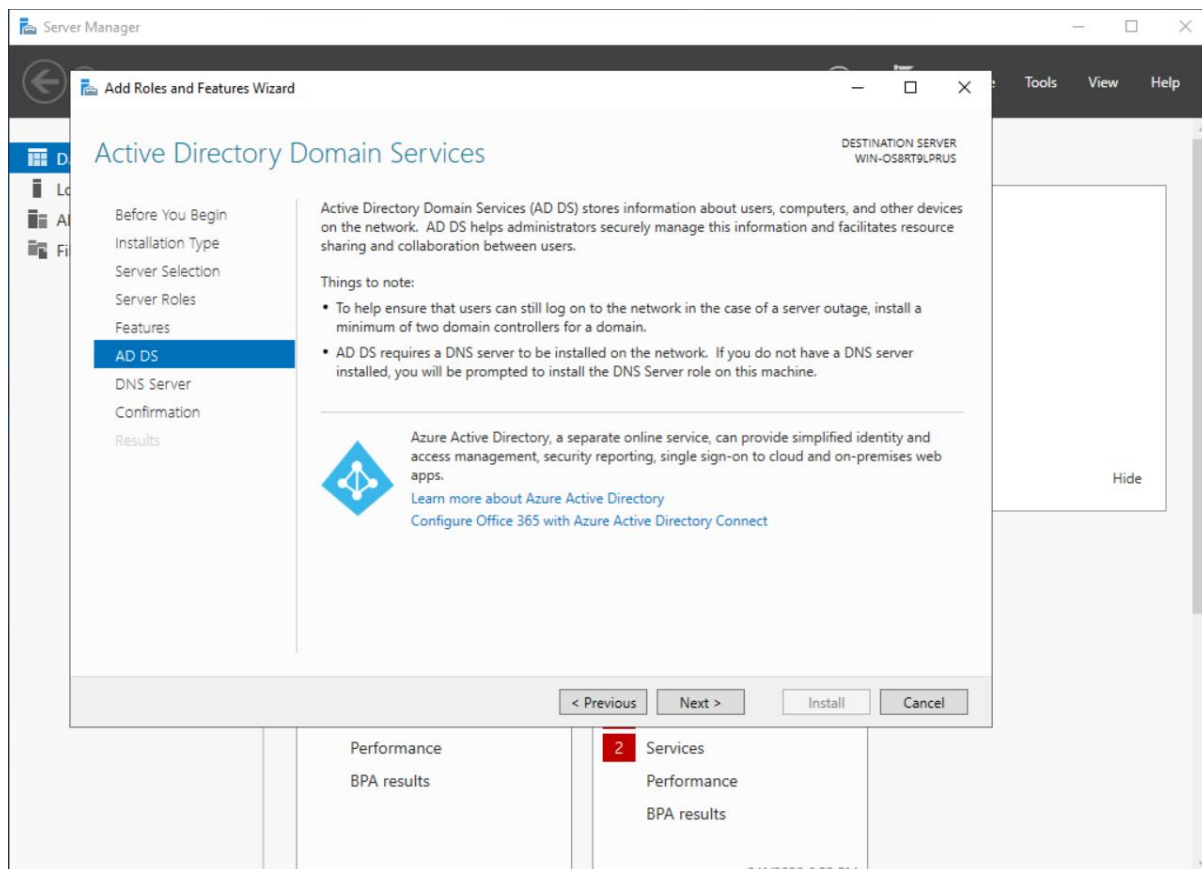


7. Click "Next".

Activity Domain IWA SSO

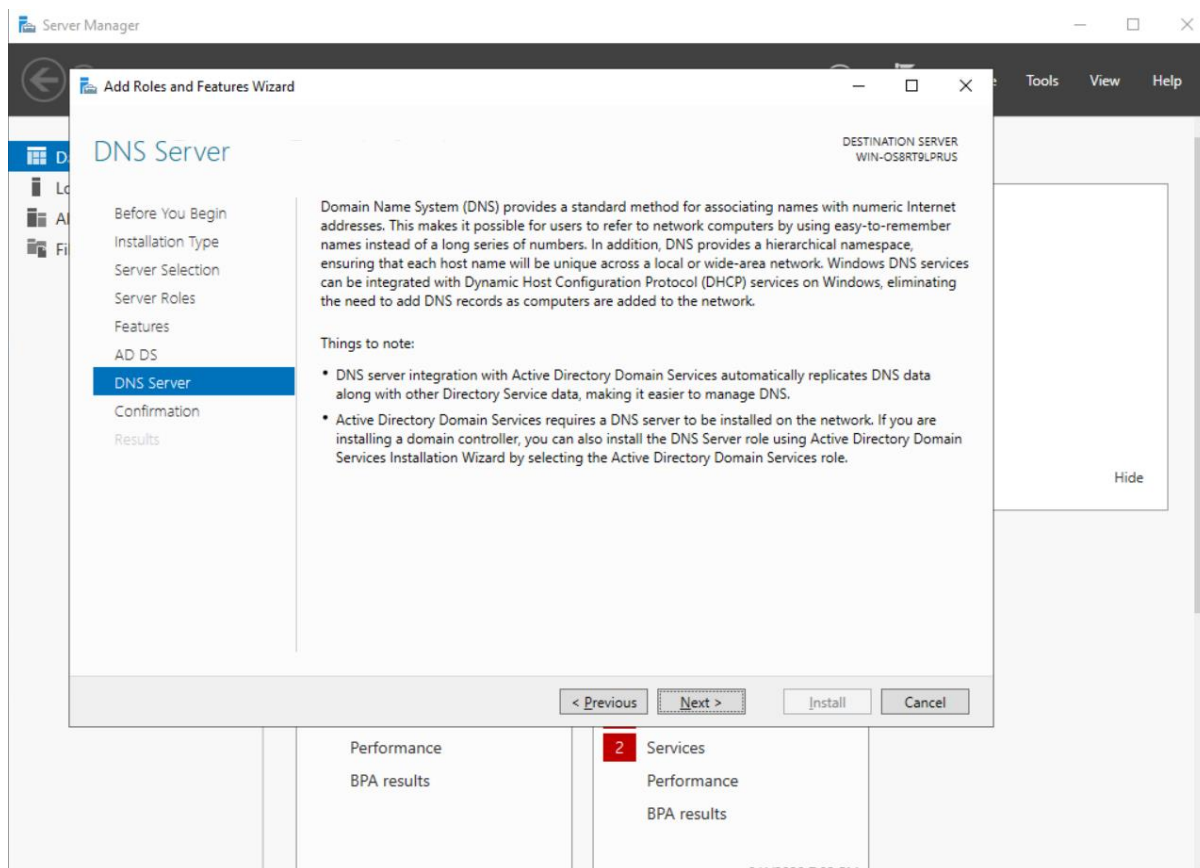


8. Click "Next".

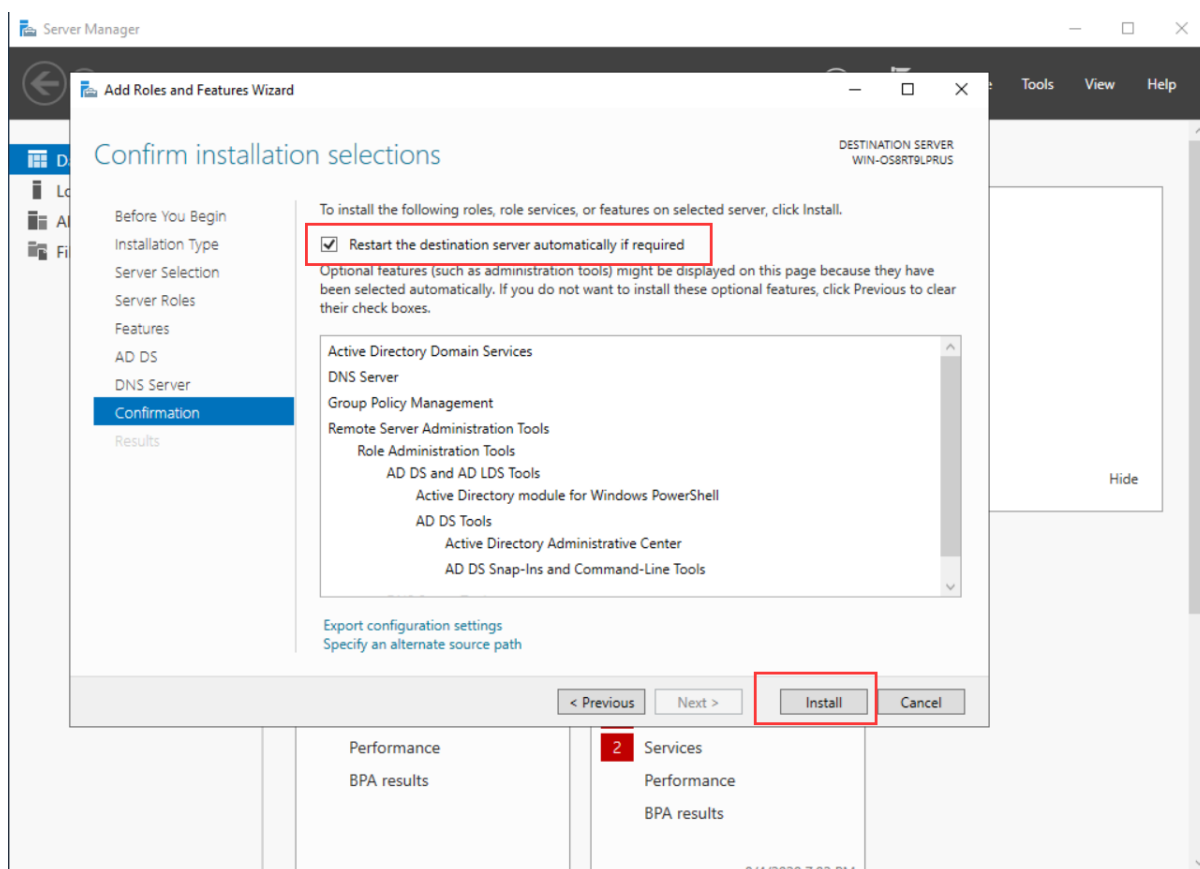


9. Click "Next".

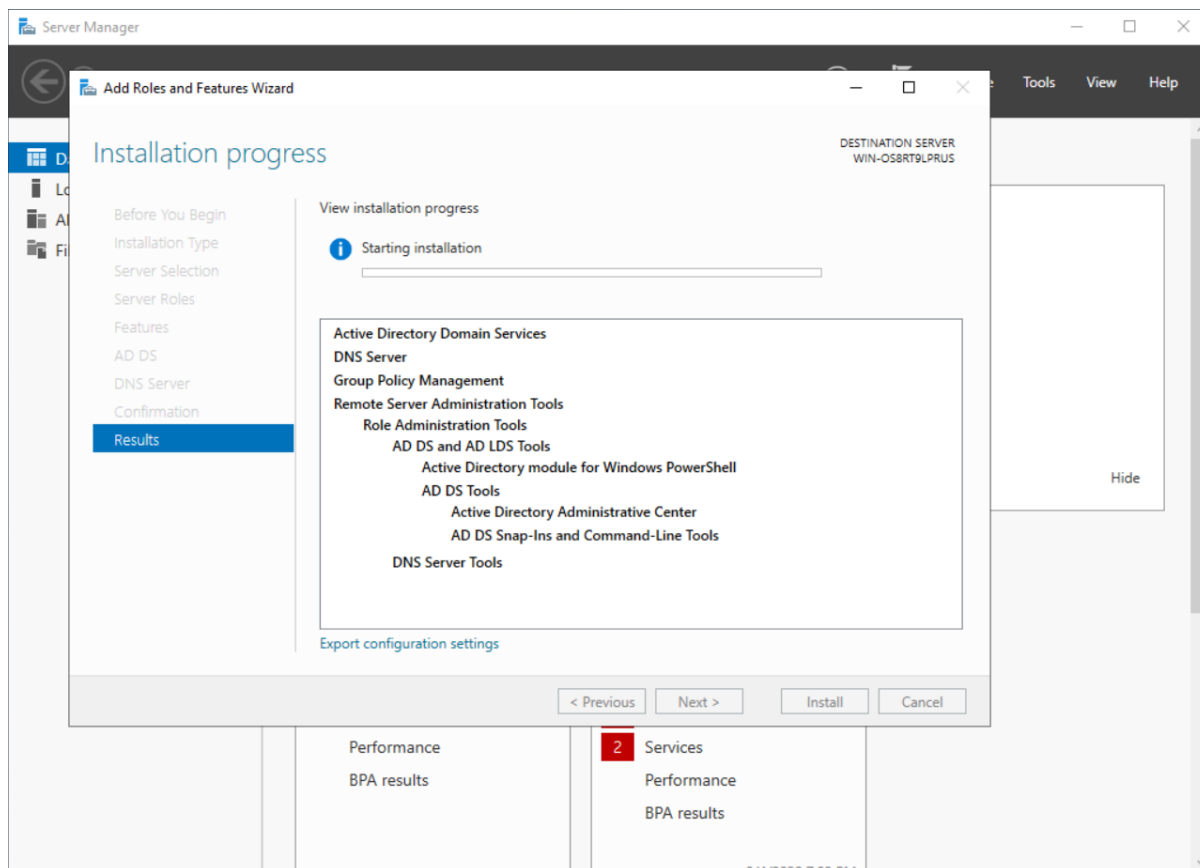
Activity Domain IWA SSO



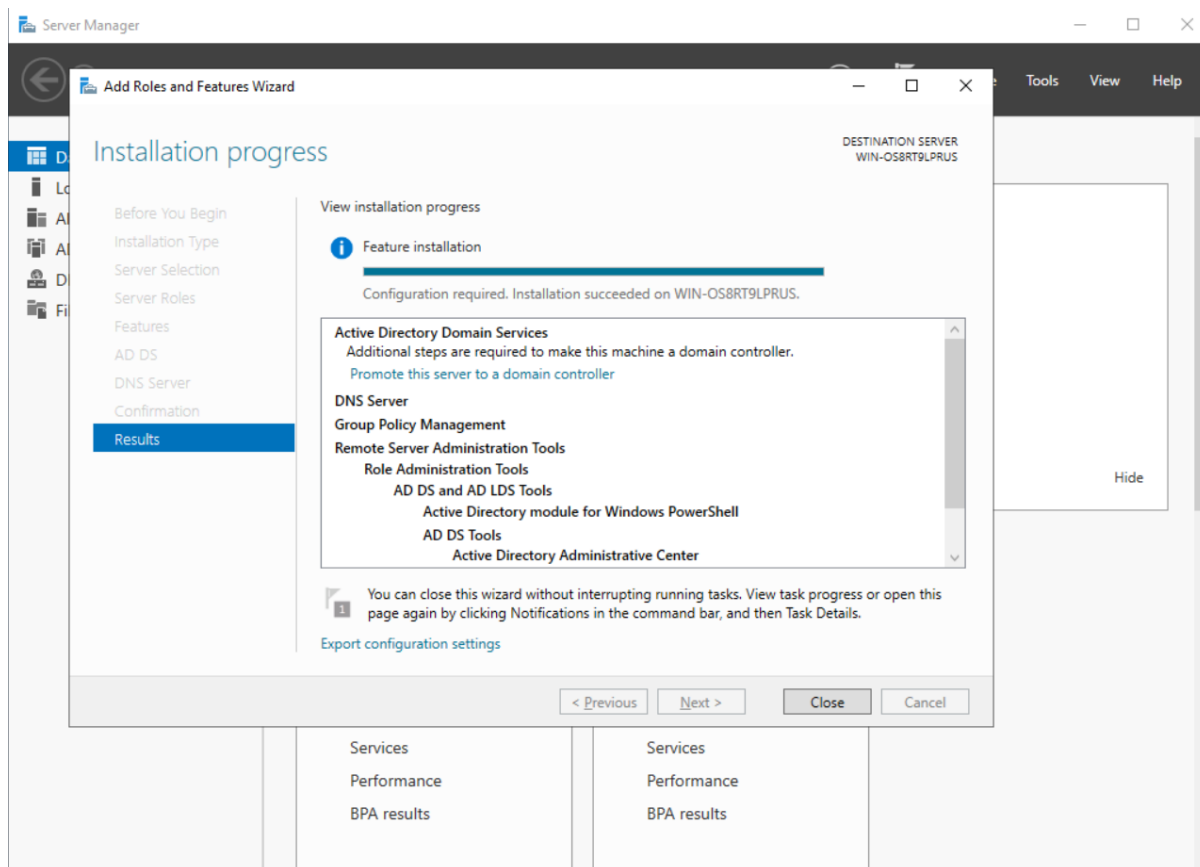
10. Click "Install".



Activity Domain IWA SSO

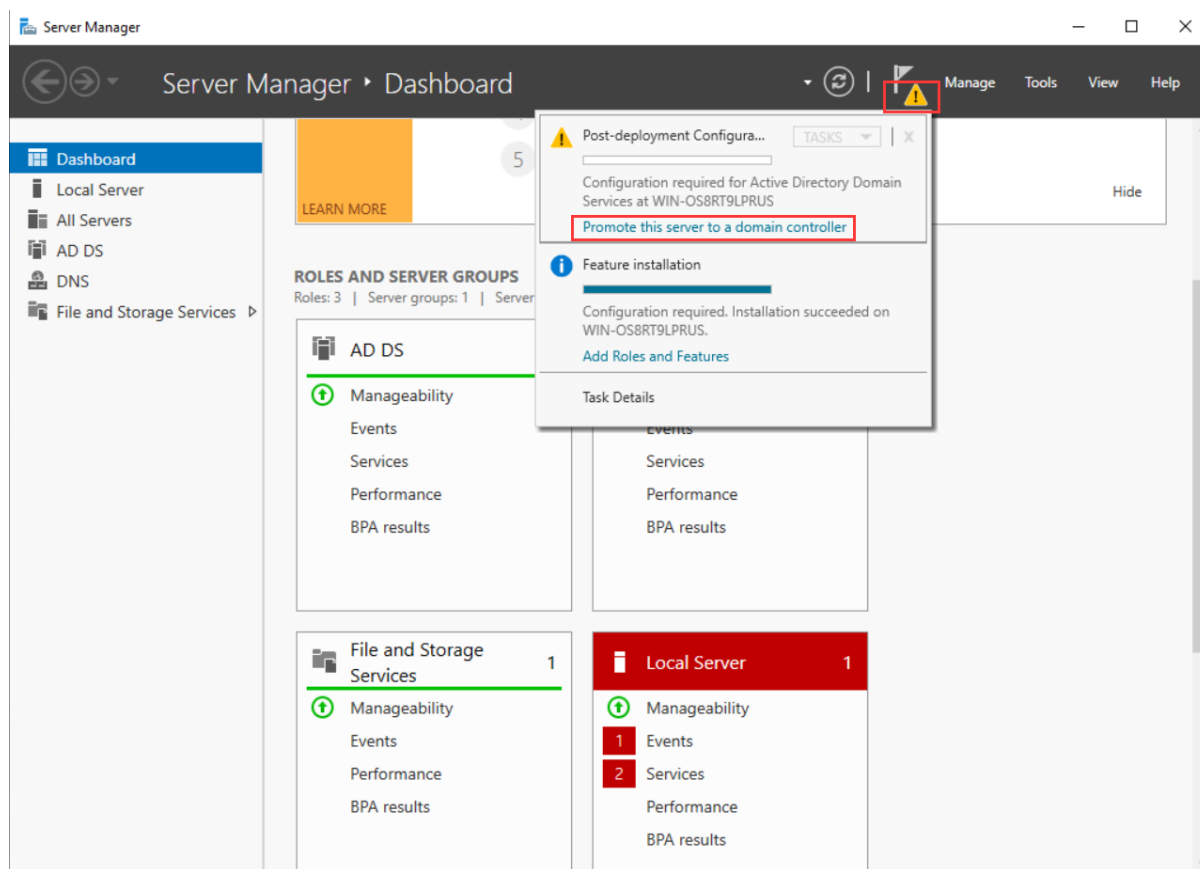


11. Click "Close" after installation.



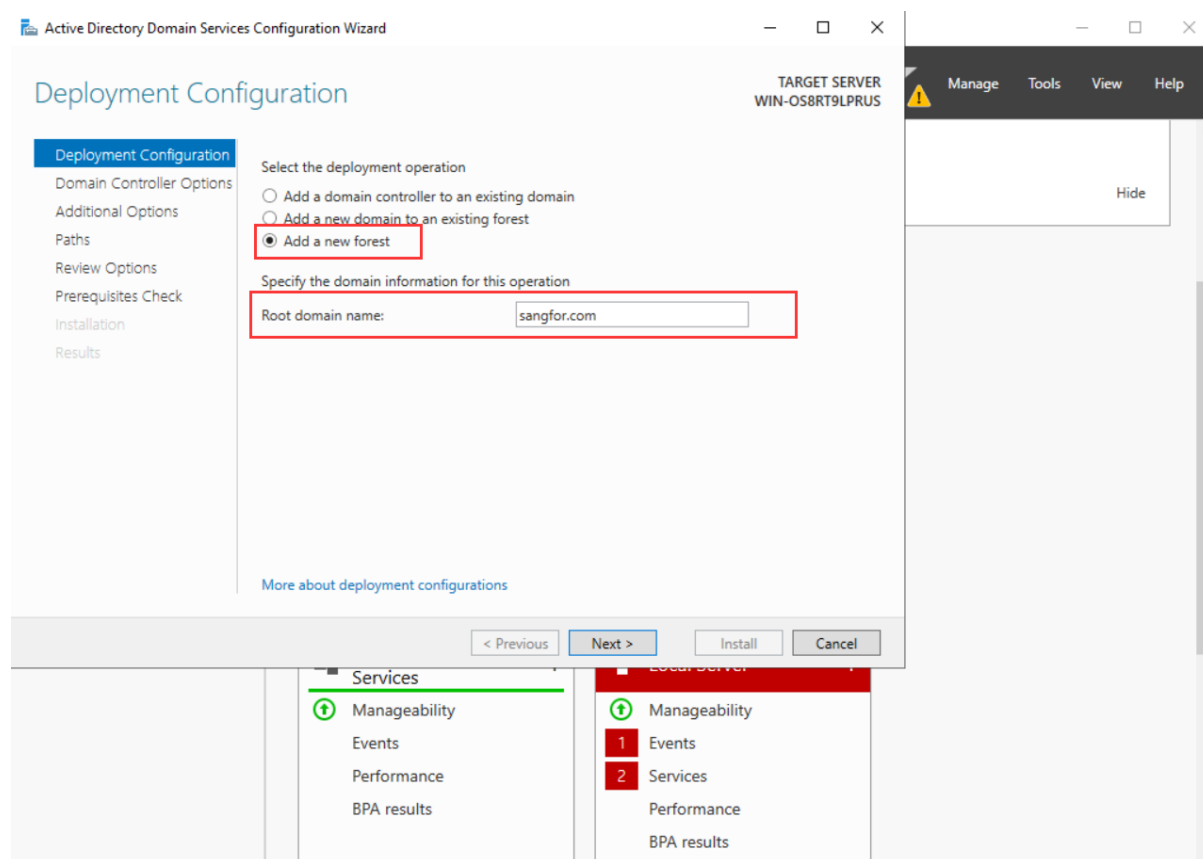
2.2 Configure the domain controller server

1. According to the following figure, select "Promote this server to a domain controller".

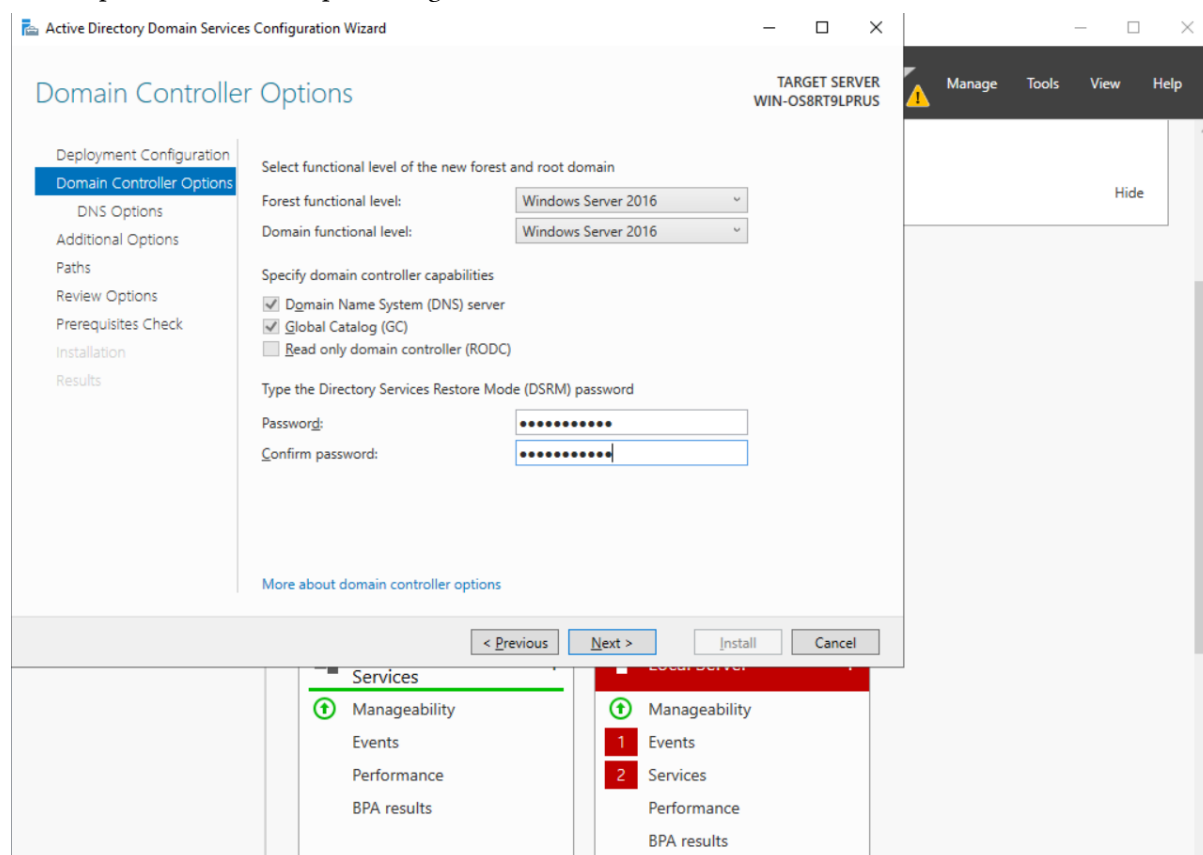


2. Configure the domain name for the AD domain, such as sangfor.com.

Activity Domain IWA SSO

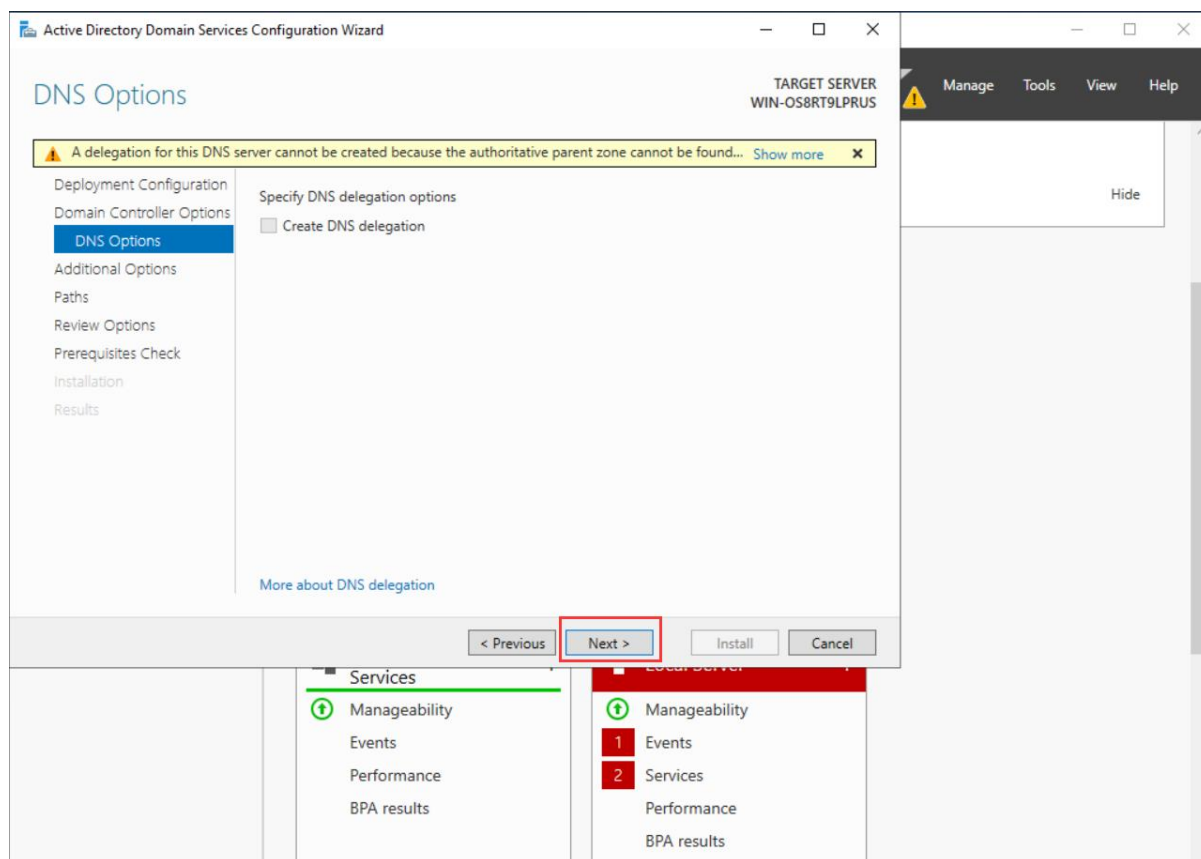


3. Set a password, for example @sangfortest.

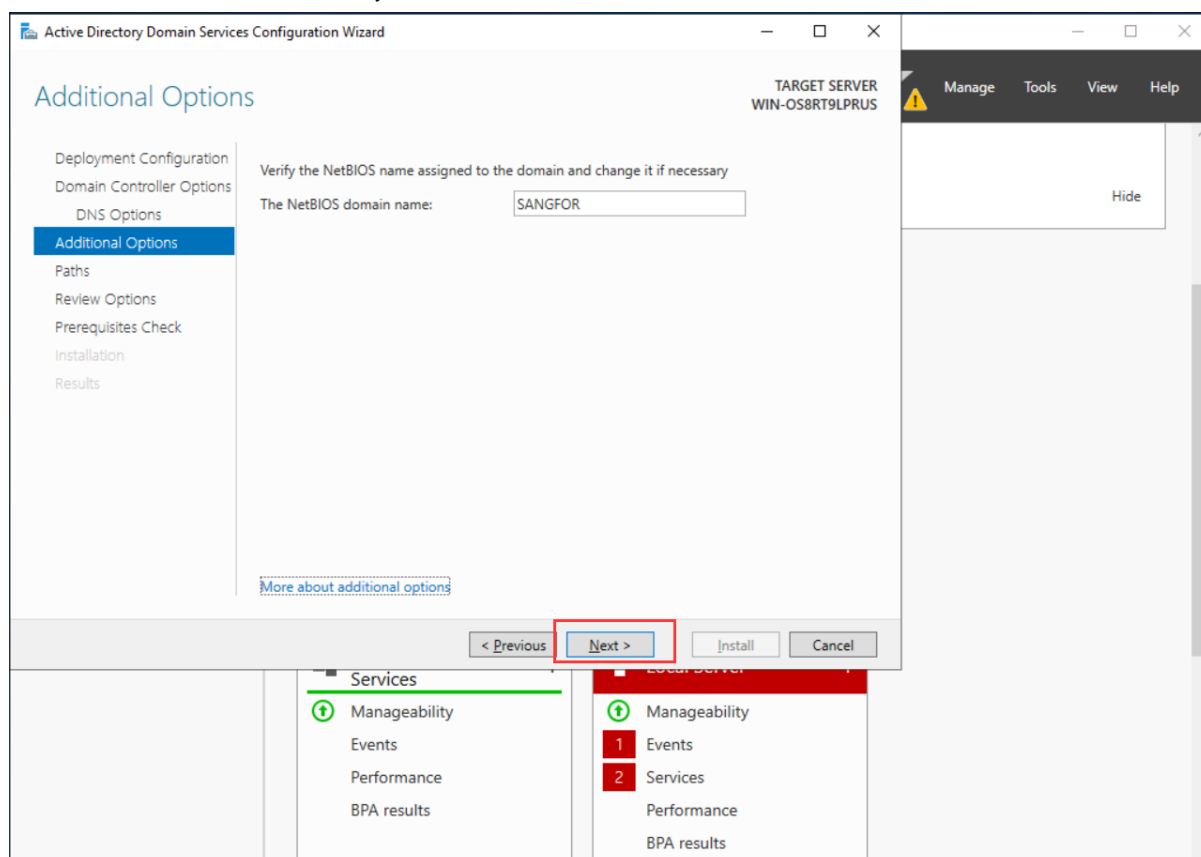


4. Click "Next".

Activity Domain IWA SSO

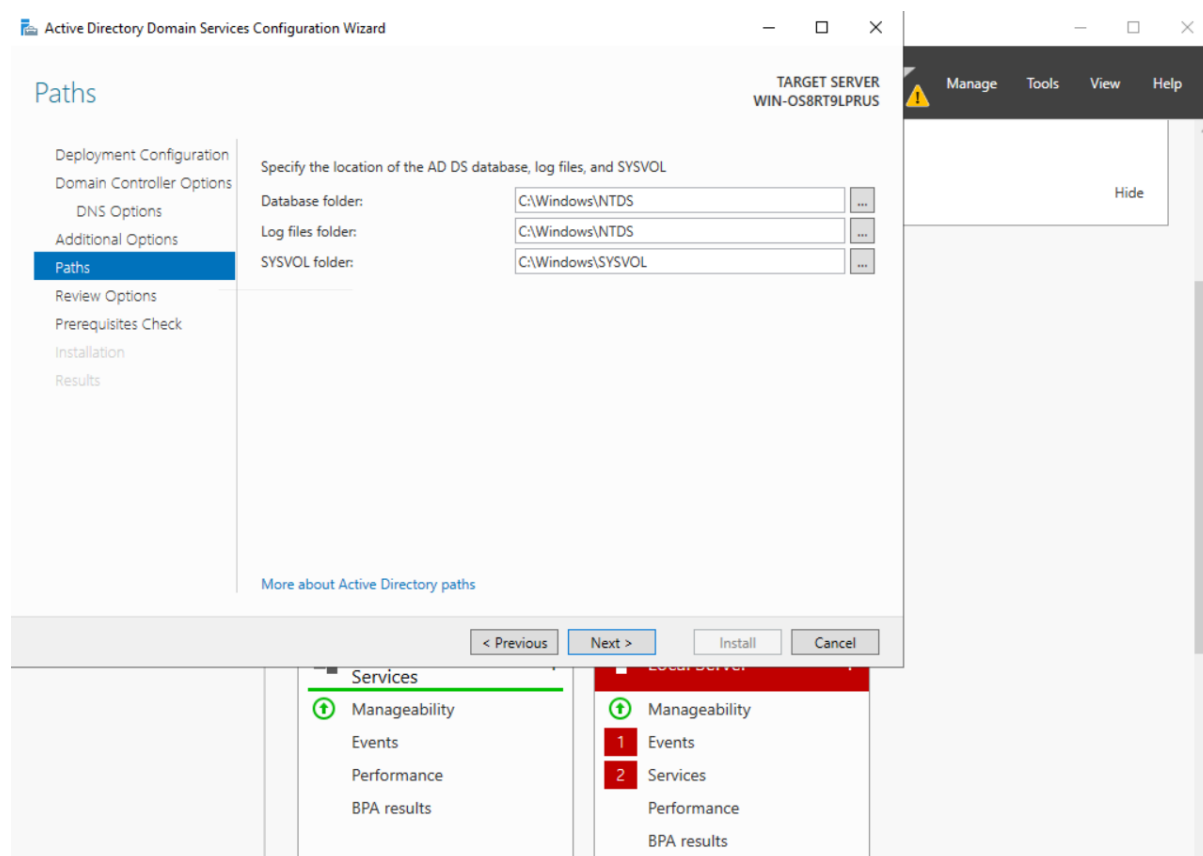


5. Set NETBIOS Domain Name, you can use the default SANGFOR.

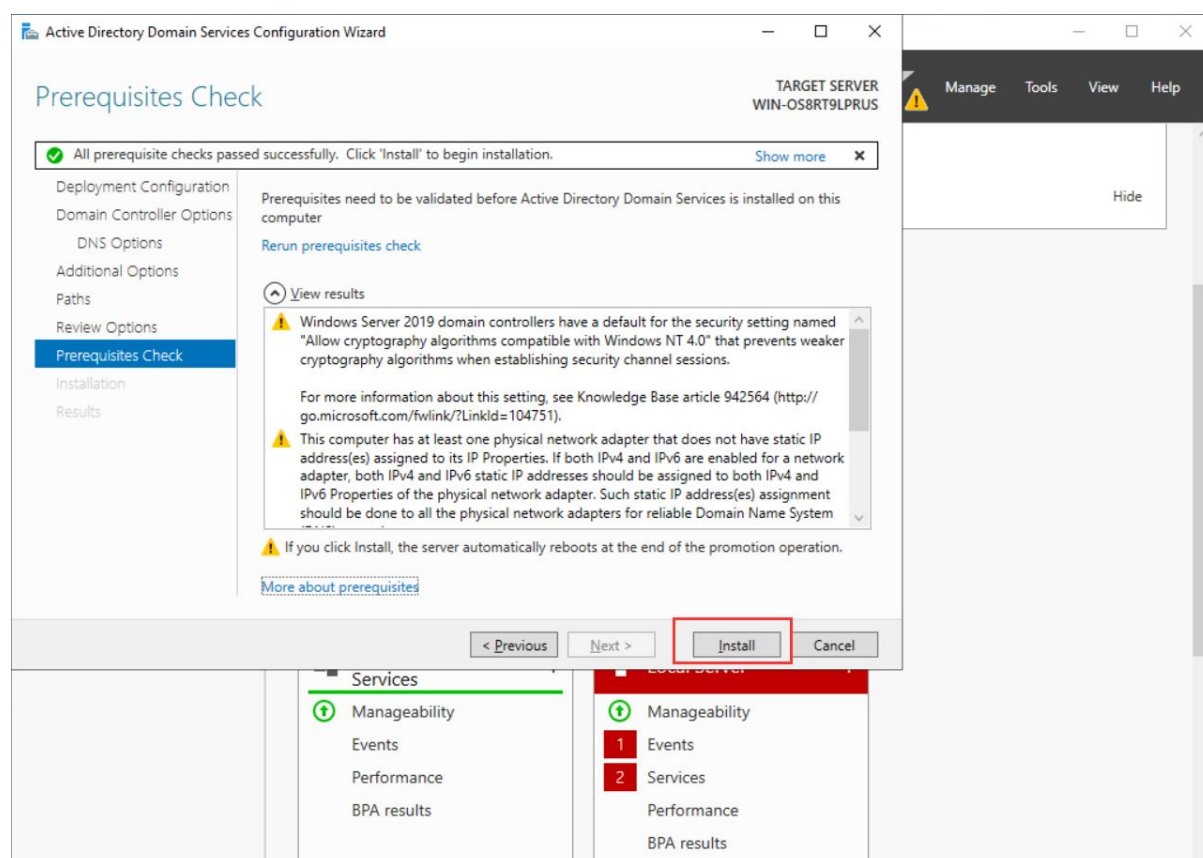


6. Click "Next".

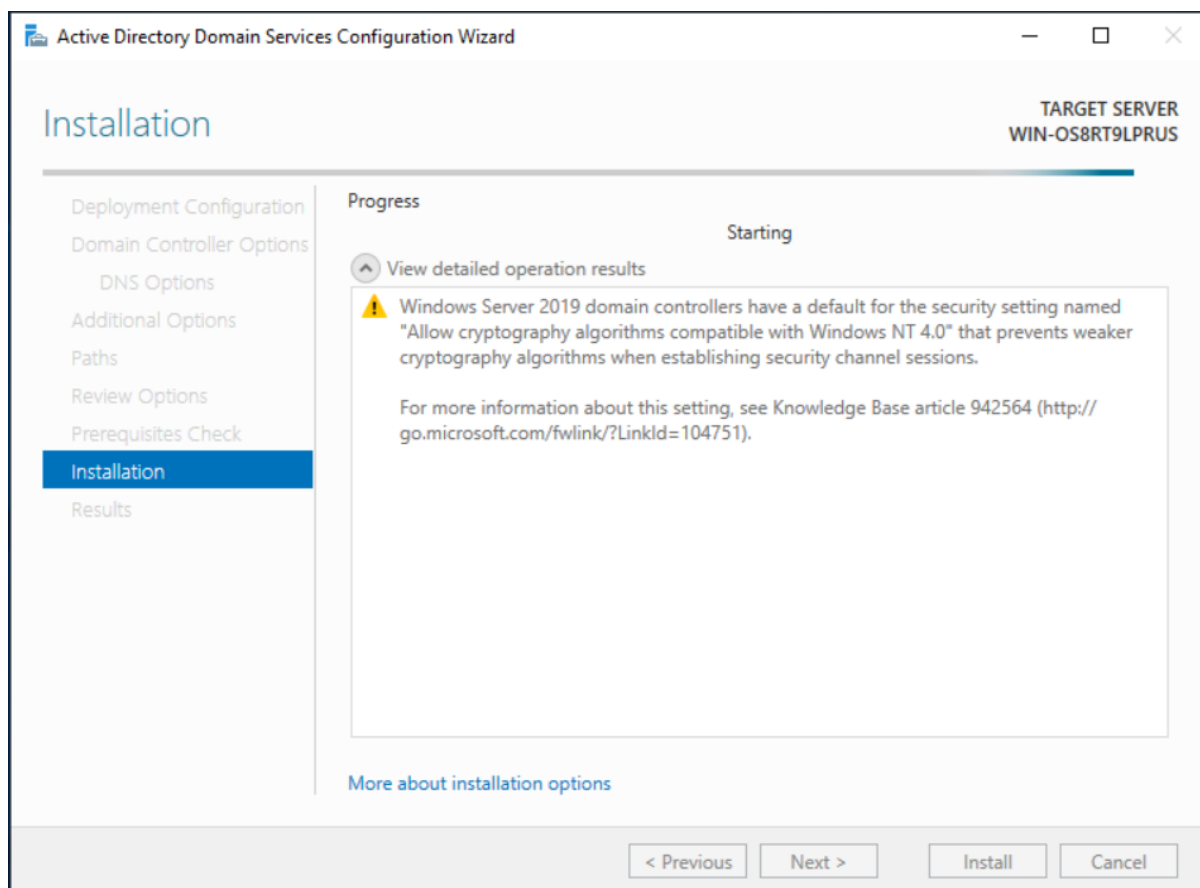
Activity Domain IWA SSO



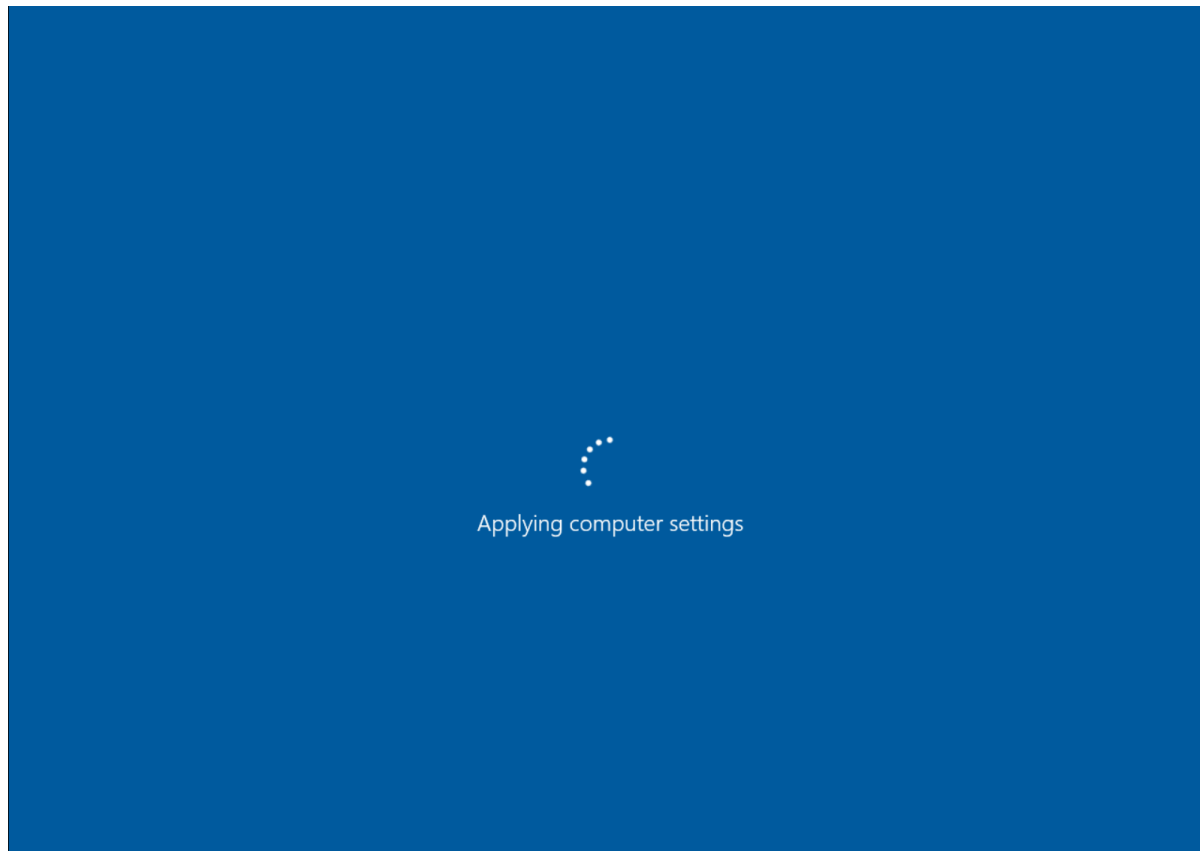
7. Select "Install".



8. Wait for the equipment to install and deploy related functions.

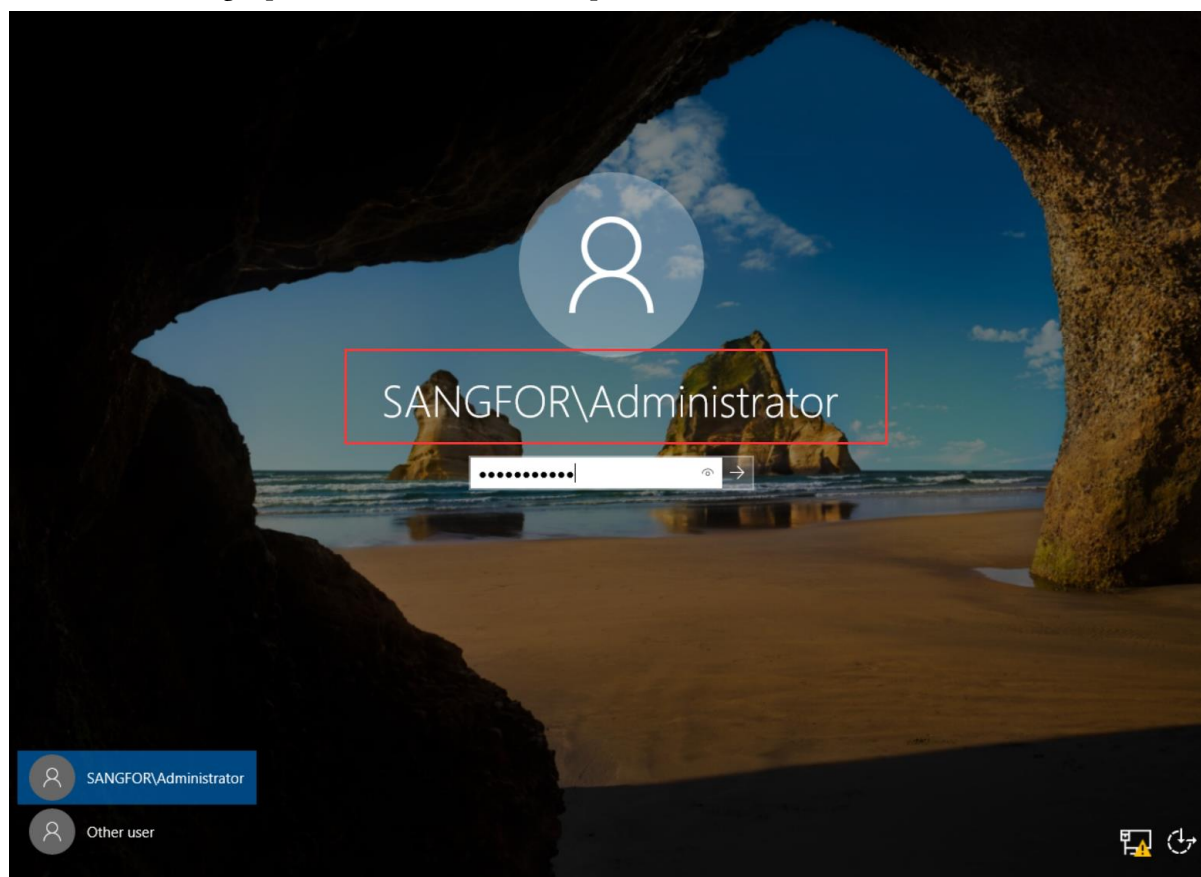


9. After the installation is complete, Windows Server will automatically restart.



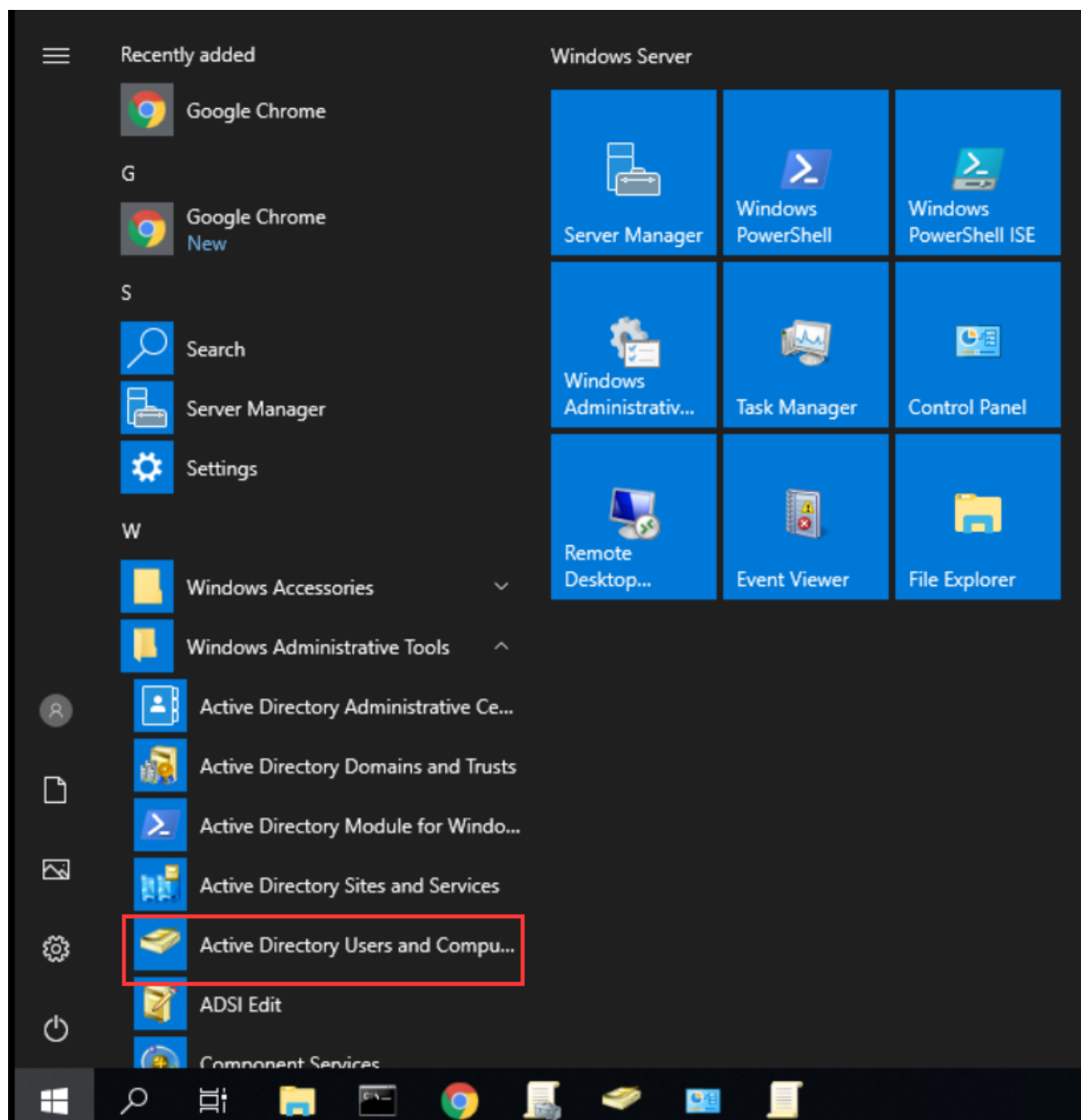
10. After the Windows Server restarts, you can see on the login page that the default local administrator

administrator who logs in to the operating system has become the administrator administrator in the domain, and the login password is the same as the password of the local administrator account.



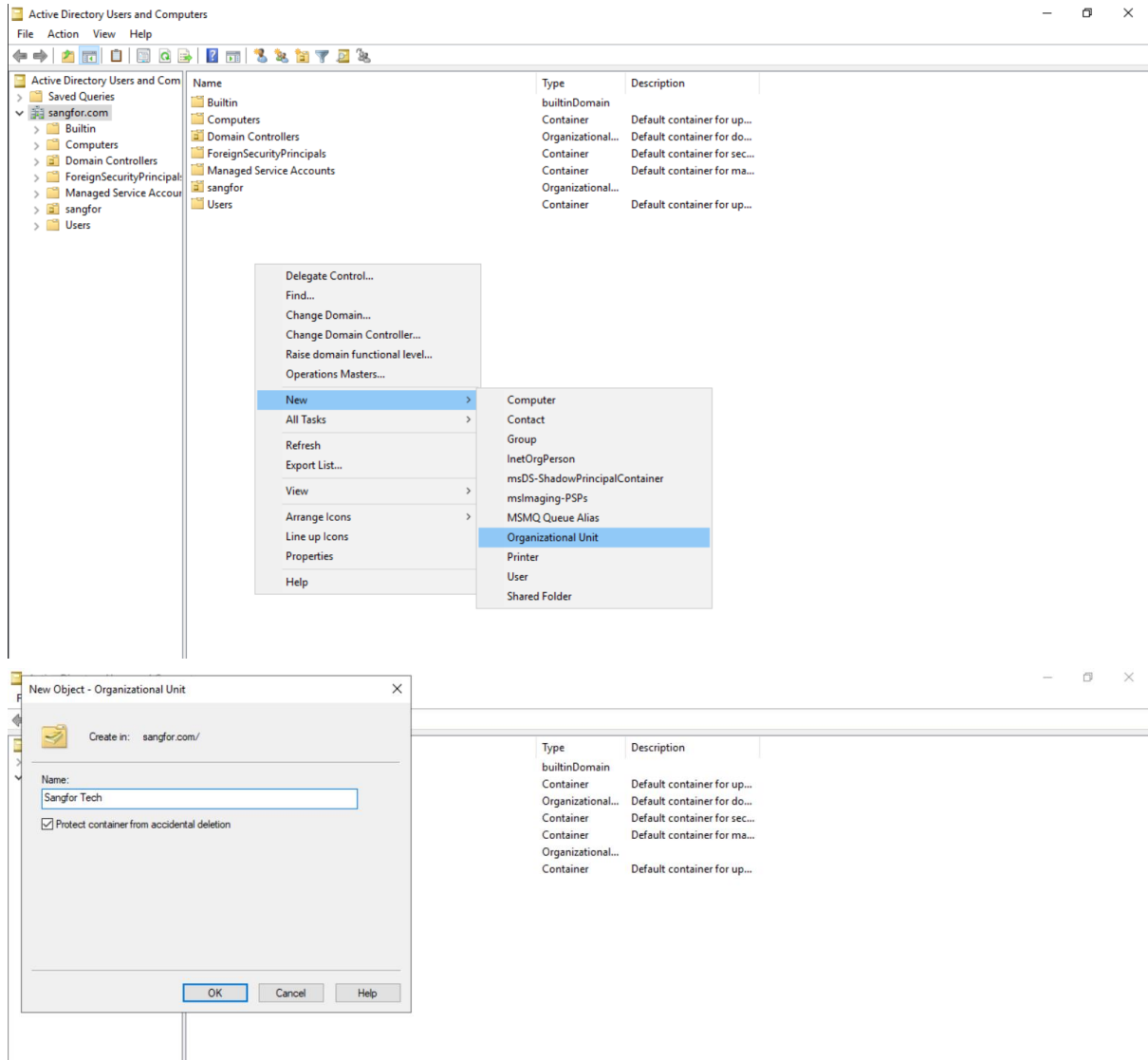
2.3 Create usernames and passwords for other users in the domain

1. Open "Active Directory Users and Computers".

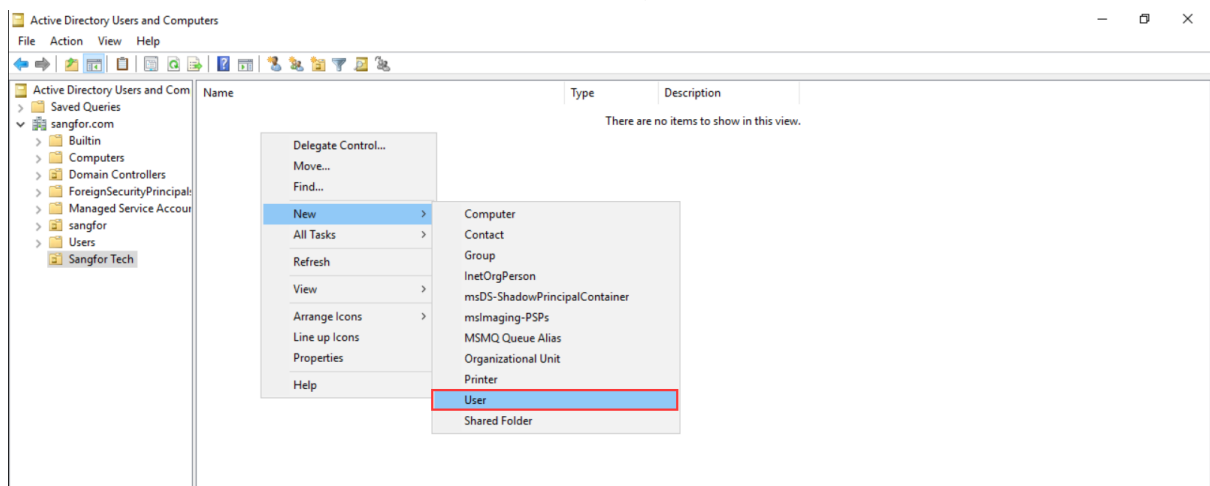


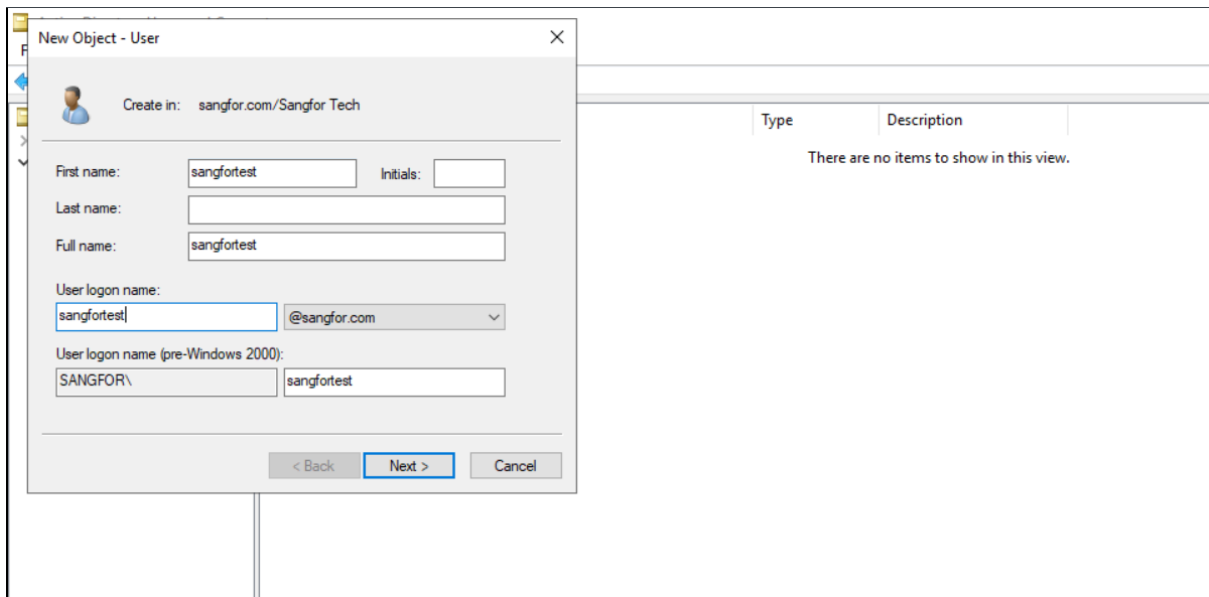
2. In order to facilitate the management of users according to the company's organizational structure, a logical container is created here to represent a department. For example, create a department called Sangfor Tech.

Activity Domain IWA SSO

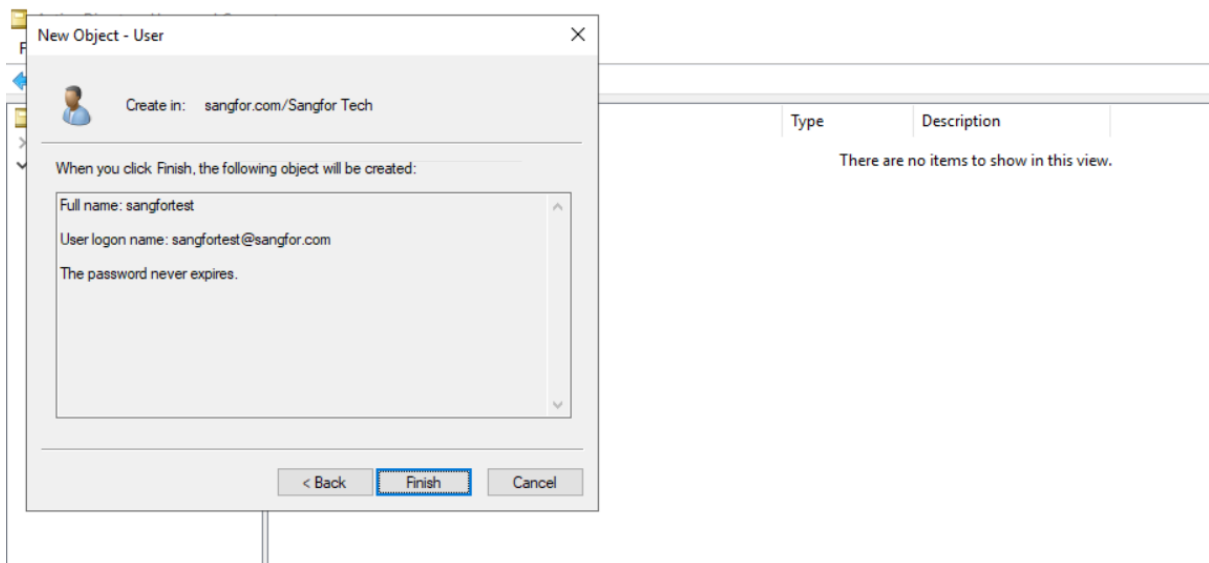
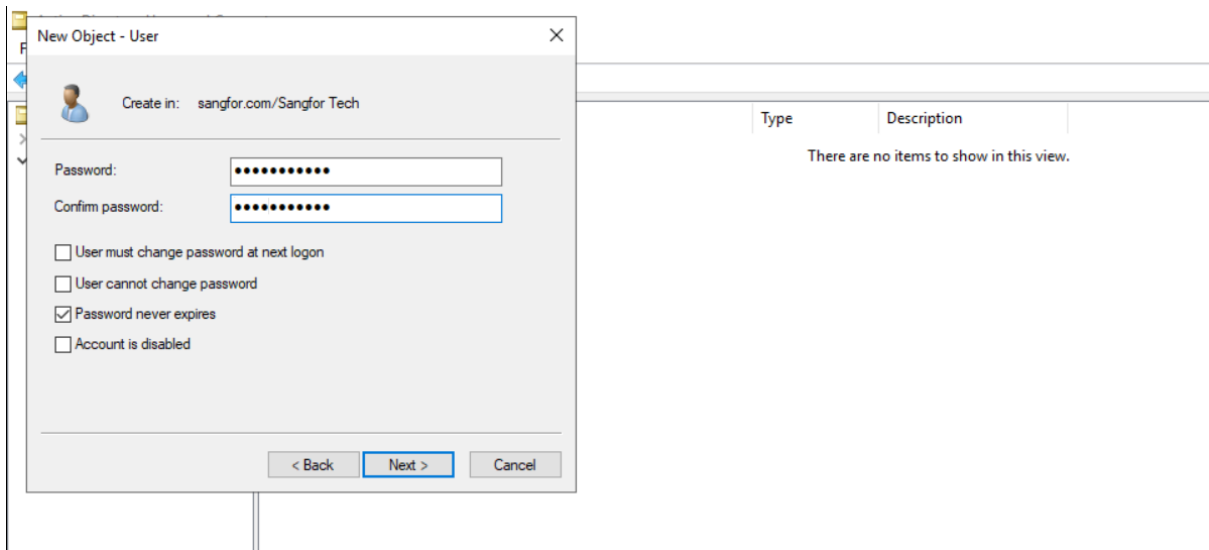


3. Create a user in the container, for example called sangfortest.





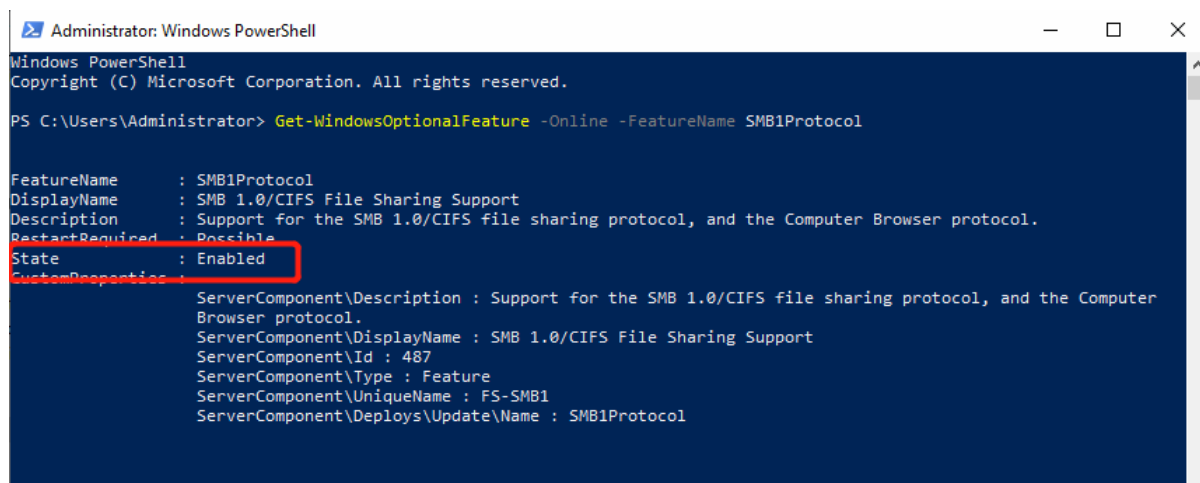
Set a login password for this user.



2.4 Enable SMBv1 of Windows Server

The interaction between IAM and Windows Server requires the use of the SMBv1 protocol, and some Windows Servers disable the SMBv1 protocol by default, so you need to manually enable it.

1. Open Powershell with administrator permission.
2. Use **Get-WindowsOptionalFeature -Online -FeatureName SMB1Protocol** command to check the SMBv1 Status.

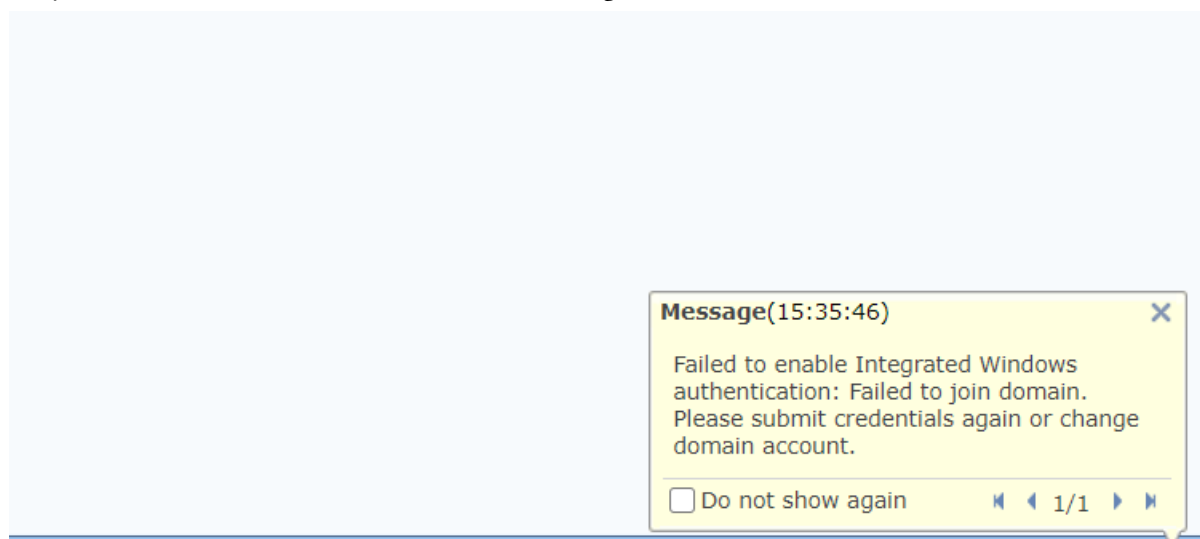


```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> Get-WindowsOptionalFeature -Online -FeatureName SMB1Protocol

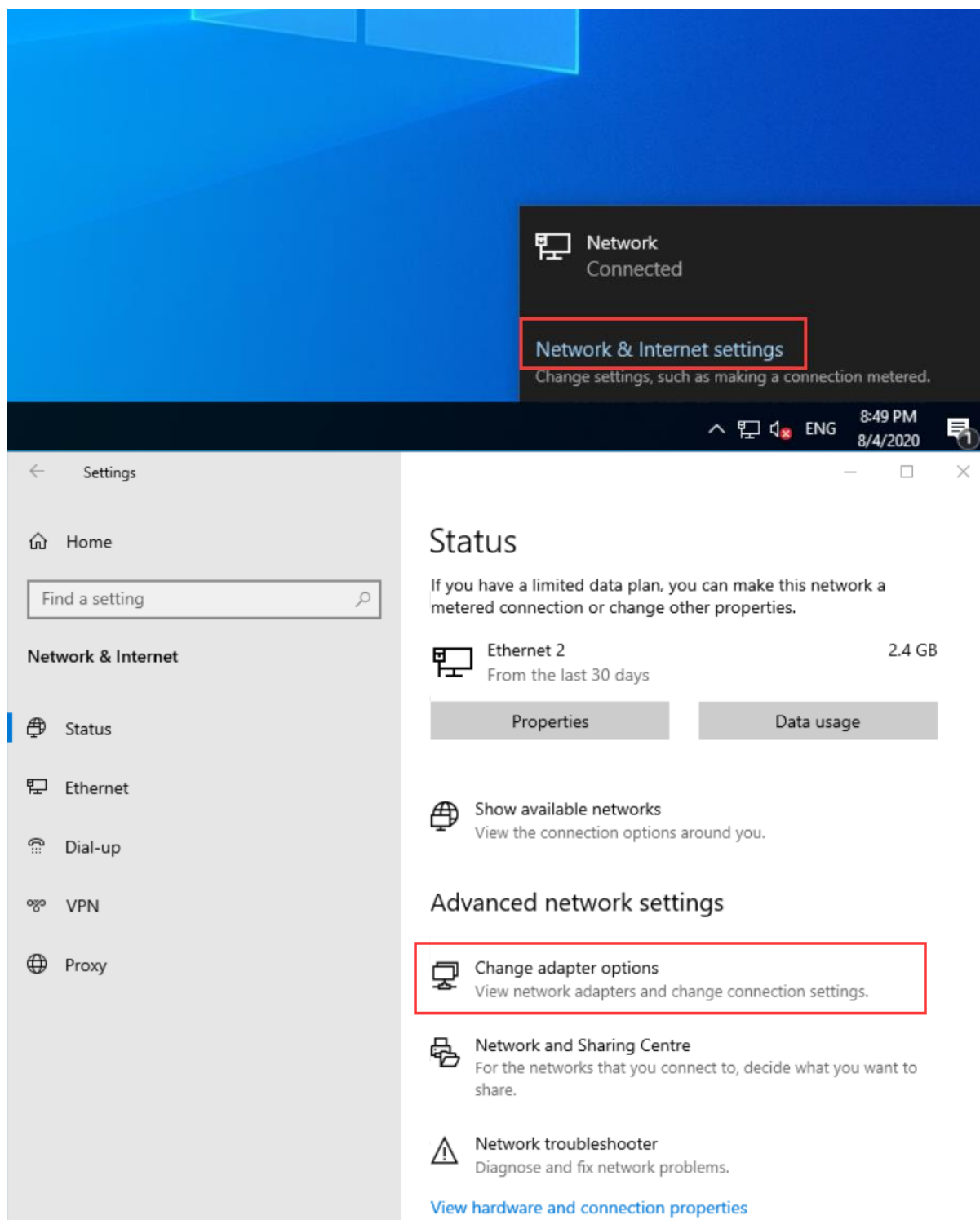
FeatureName      : SMB1Protocol
DisplayName      : SMB 1.0/CIFS File Sharing Support
Description      : Support for the SMB 1.0/CIFS file sharing protocol, and the Computer Browser protocol.
RestartRequired : Possible
State            : Enabled
CustomResponse  :
ServerComponent\Description : Support for the SMB 1.0/CIFS file sharing protocol, and the Computer
ServerComponent\DisplayName : SMB 1.0/CIFS File Sharing Support
ServerComponent\Id         : 487
ServerComponent\Type      : Feature
ServerComponent\UniqueName : FS-SMB1
ServerComponent\Deploys\UpdateName : SMB1Protocol
```

3. Use **Enable-WindowsOptionalFeature -Online -FeatureName SMB1Protocol** command to enable SMBv1, then the windows server will restart to apply the function.
4. For more method of each version of windows server, you can look Microsoft Website for more details.
5. If you not enable the SMBv1, it will show following error.

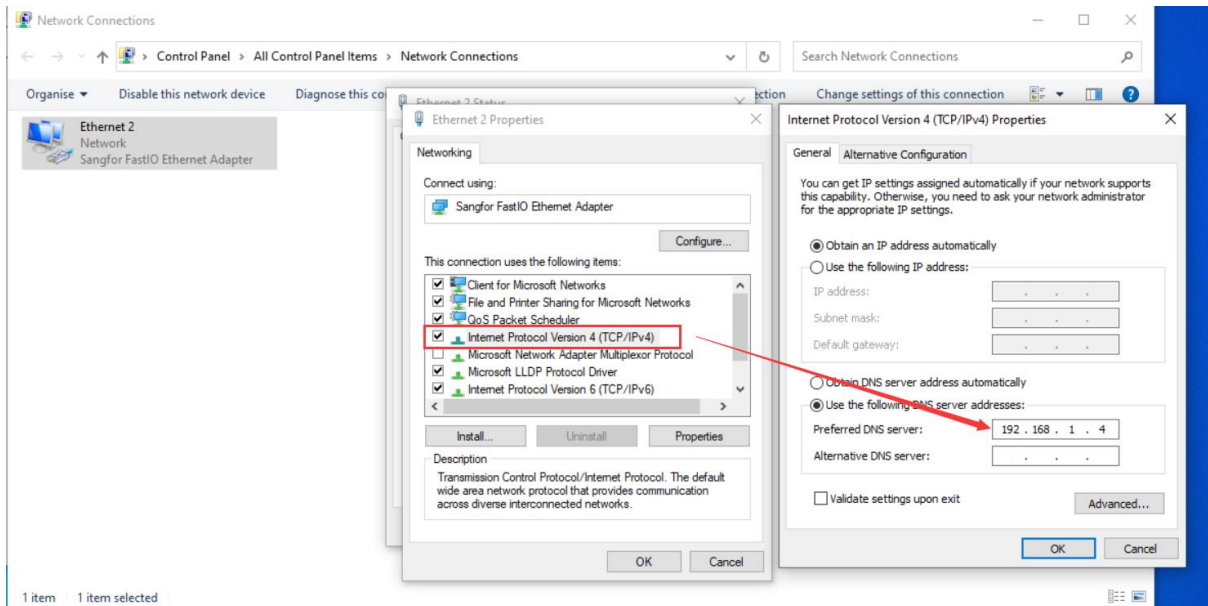
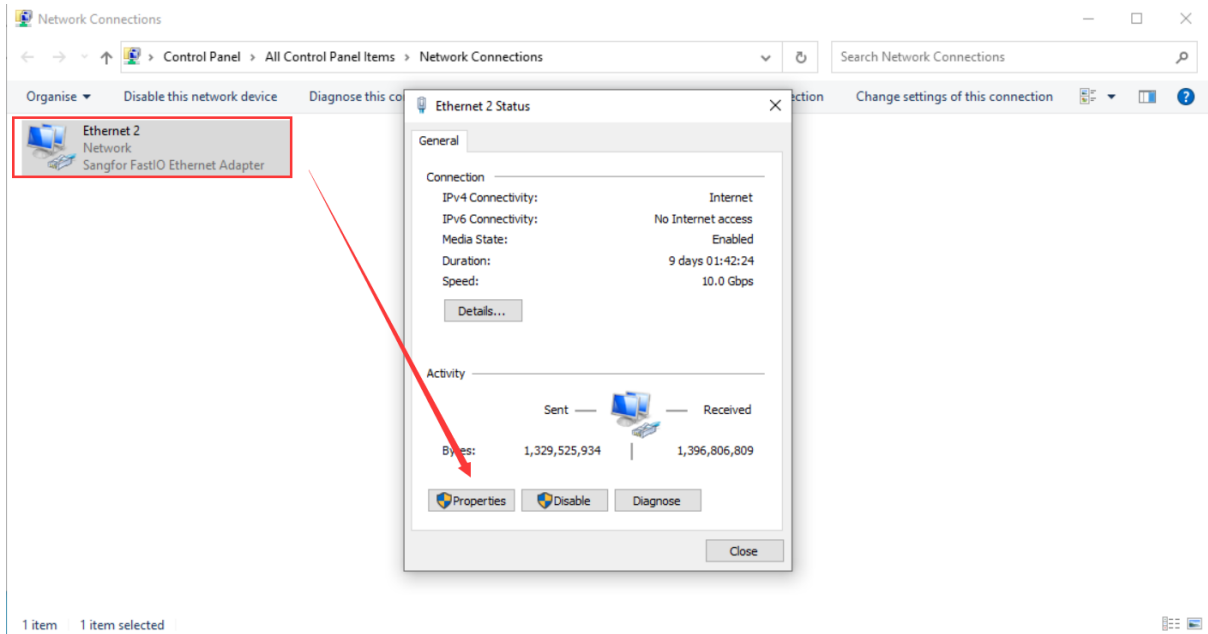


2.5 Join the PC to the domain

1. Configure the PC's network card, and configure DNS as the IP of the domain control server: 192.168.1.4

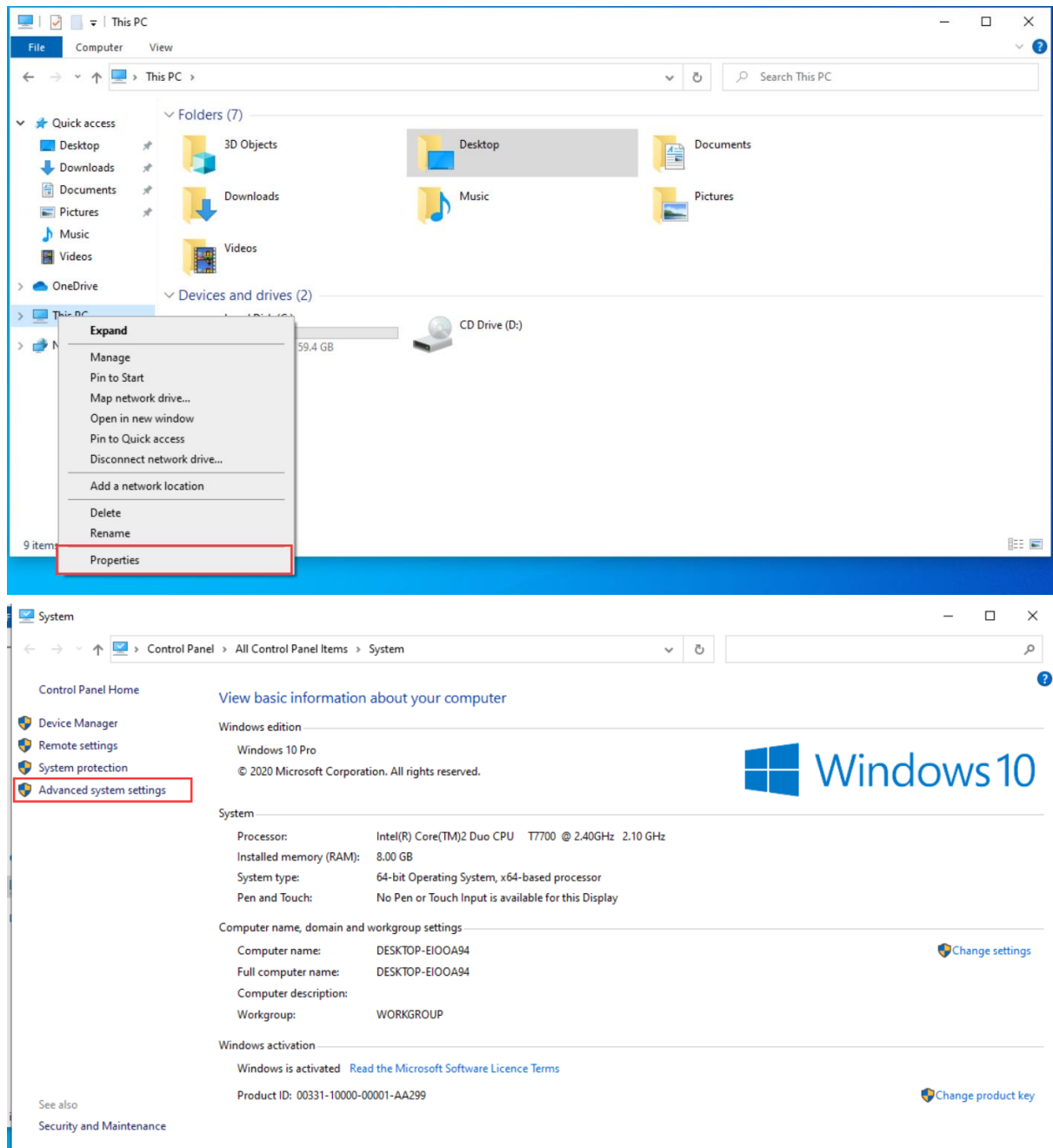


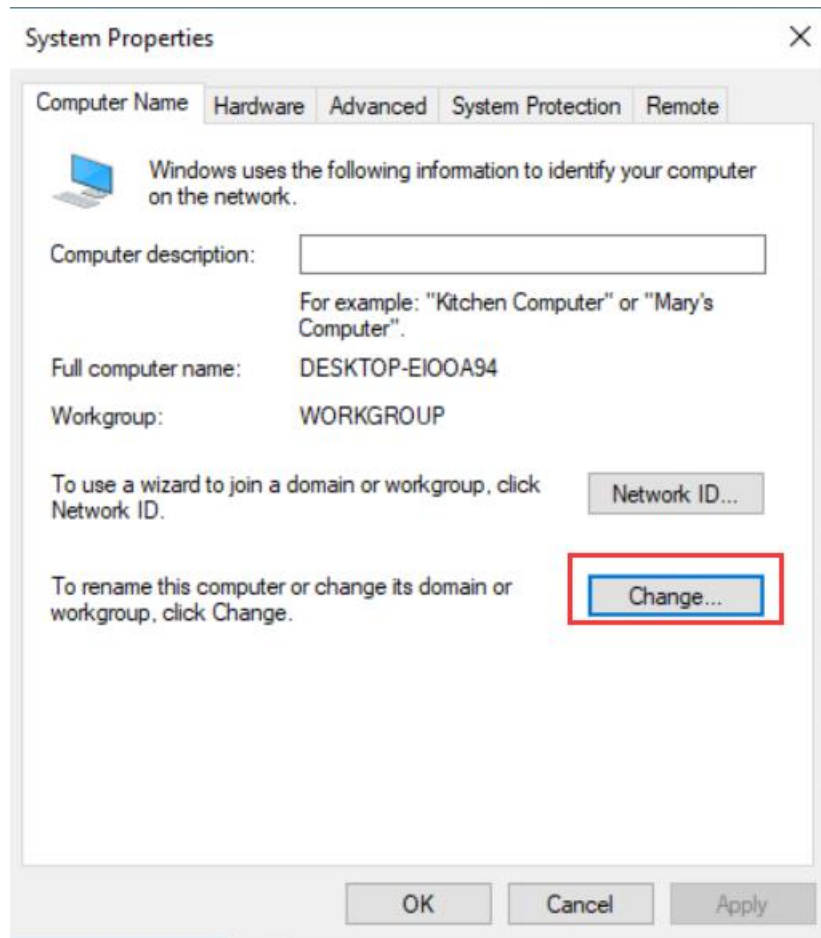
Activity Domain IWA SSO

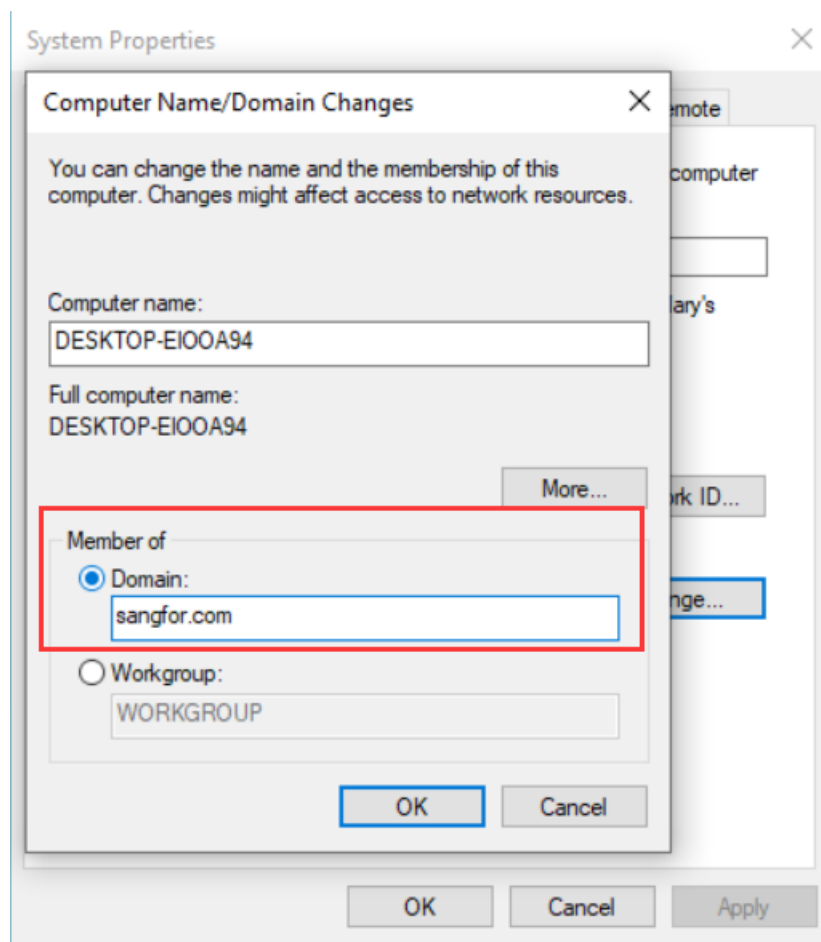


2. Join the PC to the domain.

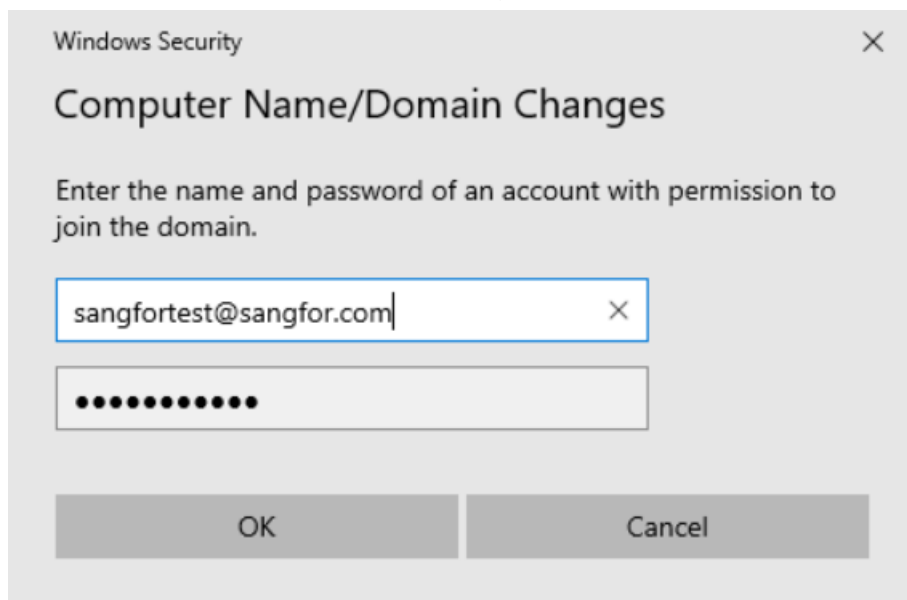
Activity Domain IWA SSO



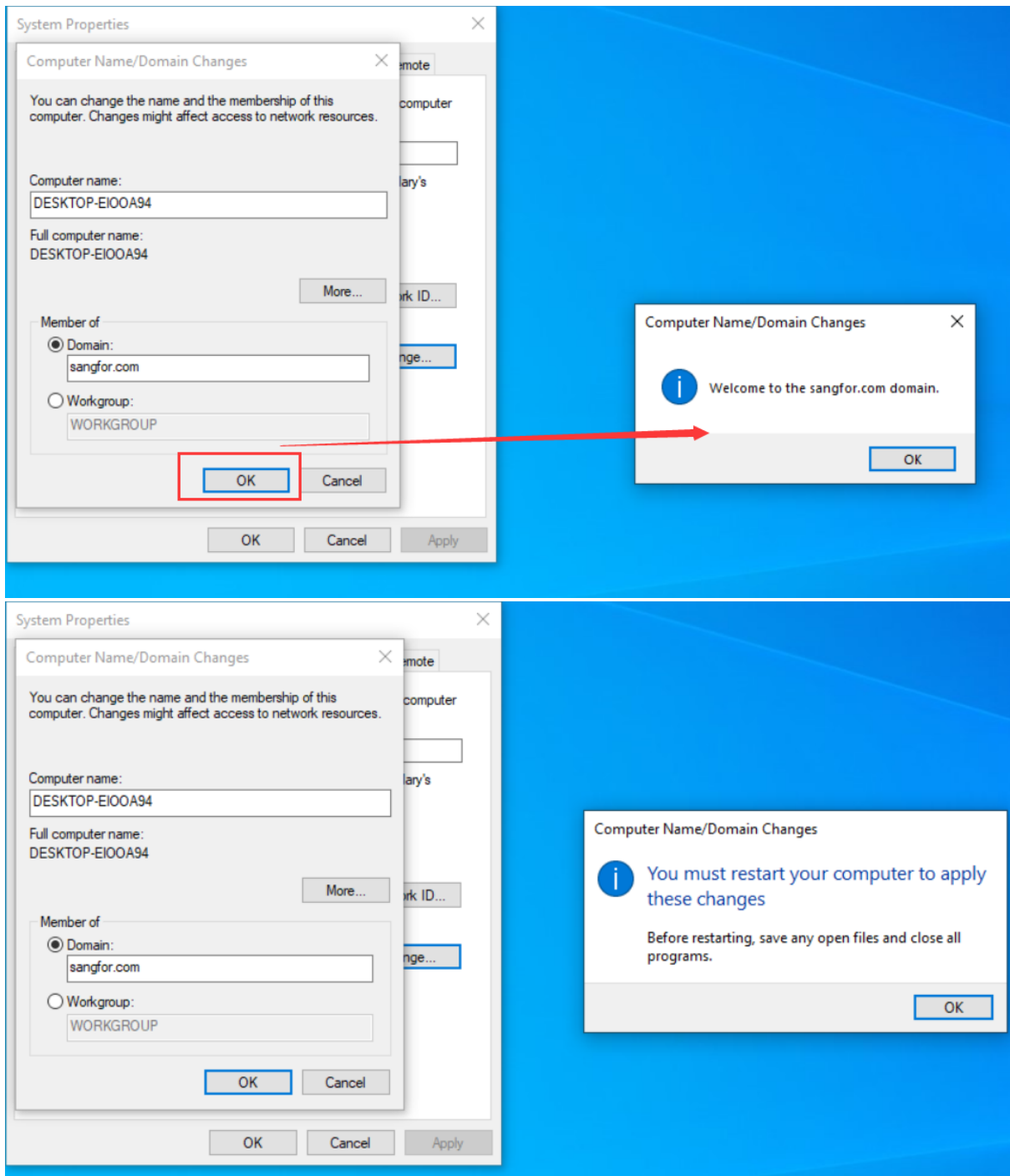


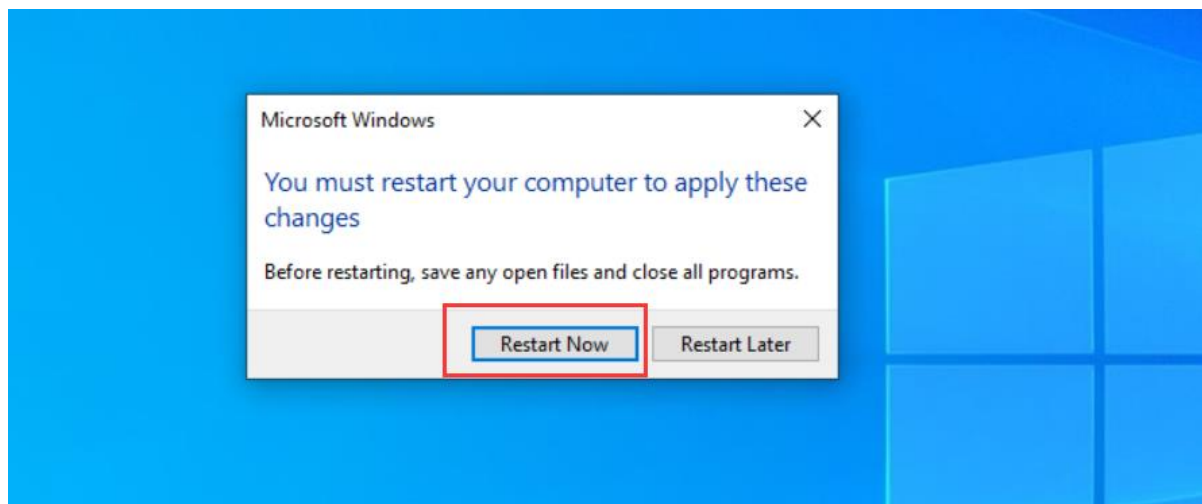


3. In the process of joining the domain, you need to verify your identity, just use the sangfortest user created on the AD domain control 192.168.1.4 for testing.

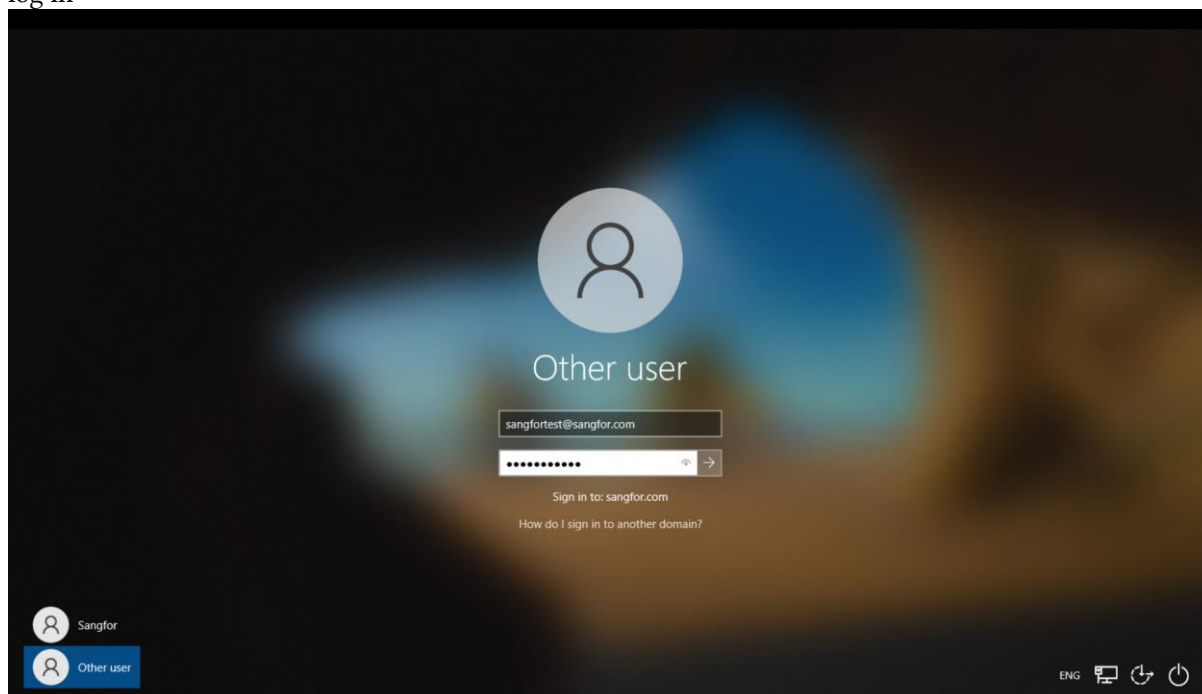


4. After successfully joining the domain, you need to restart the PC.





5. After restarting, you can see the login page of the PC, choose to use the domain account sangfortest to log in

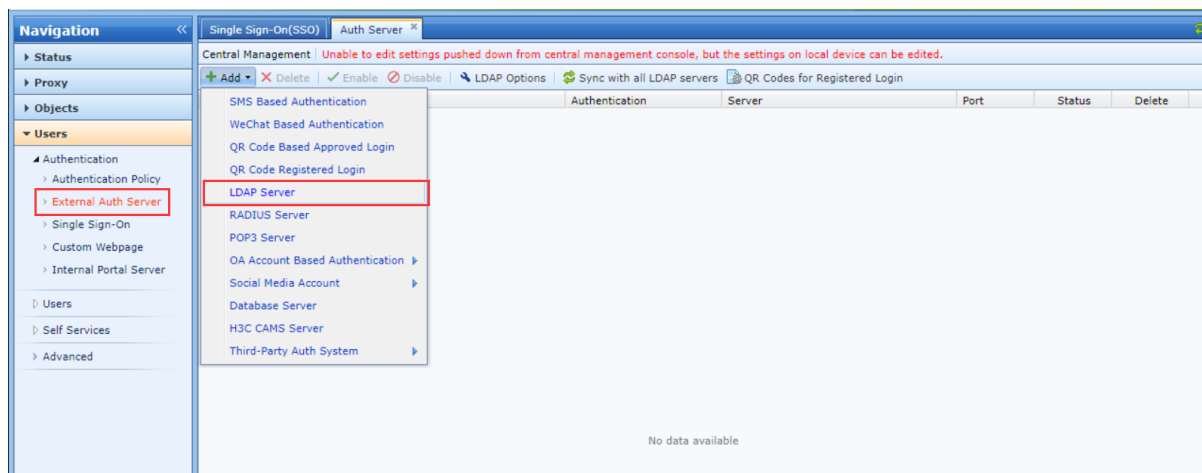


Chapter 3 How to Configure IAM

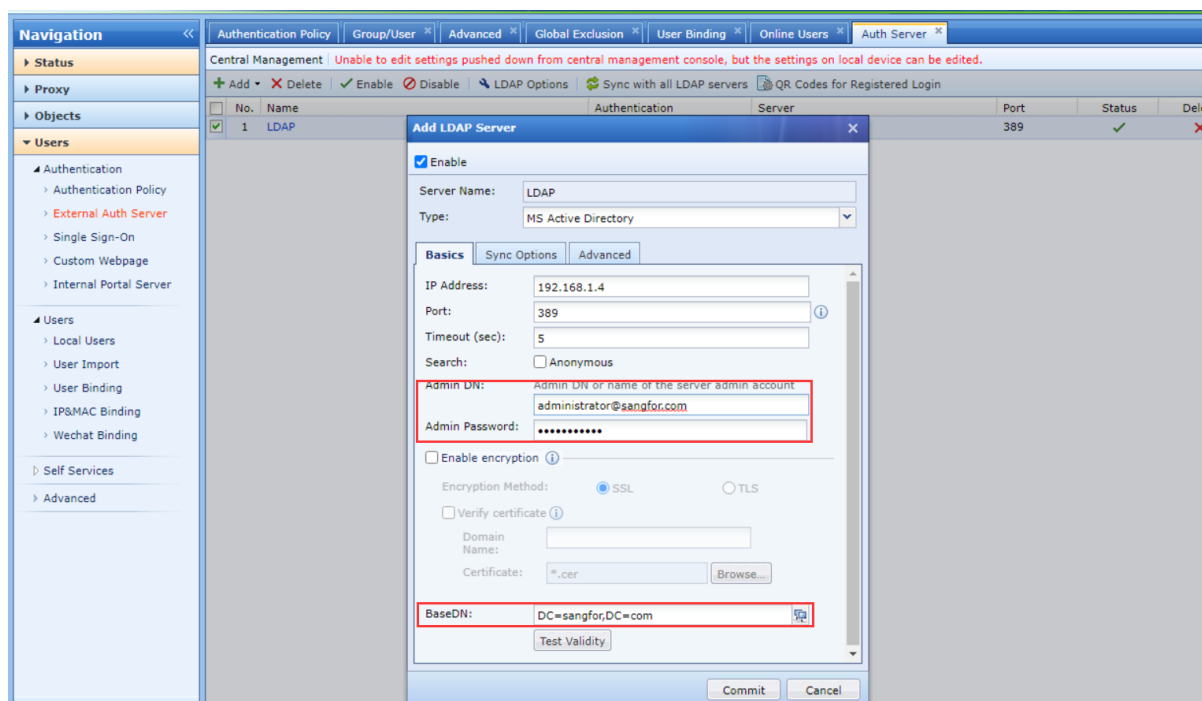
3.1 Add LDAP server

1. Add Microsoft AD server on IAM.

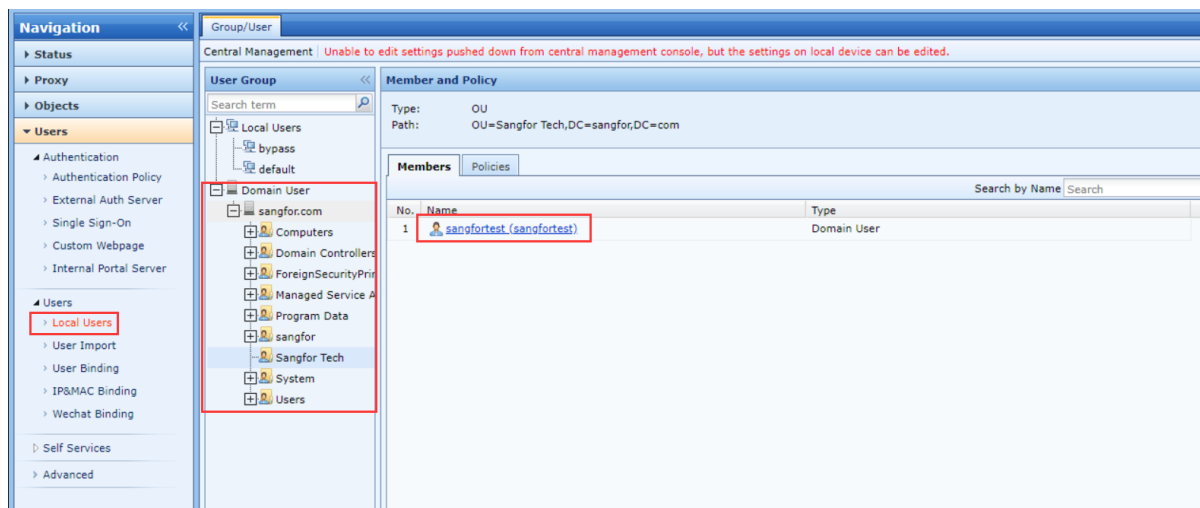
Activity Domain IWA SSO



2. Pay attention to the user name to enter the complete domain name, you can use the created sangfortest@sangfor.com, but usually it is recommended to use the administrator account, to avoid the lack of permissions that cause IAM to be unable to interact with the Microsoft AD server. BaseDN can choose sangfor.

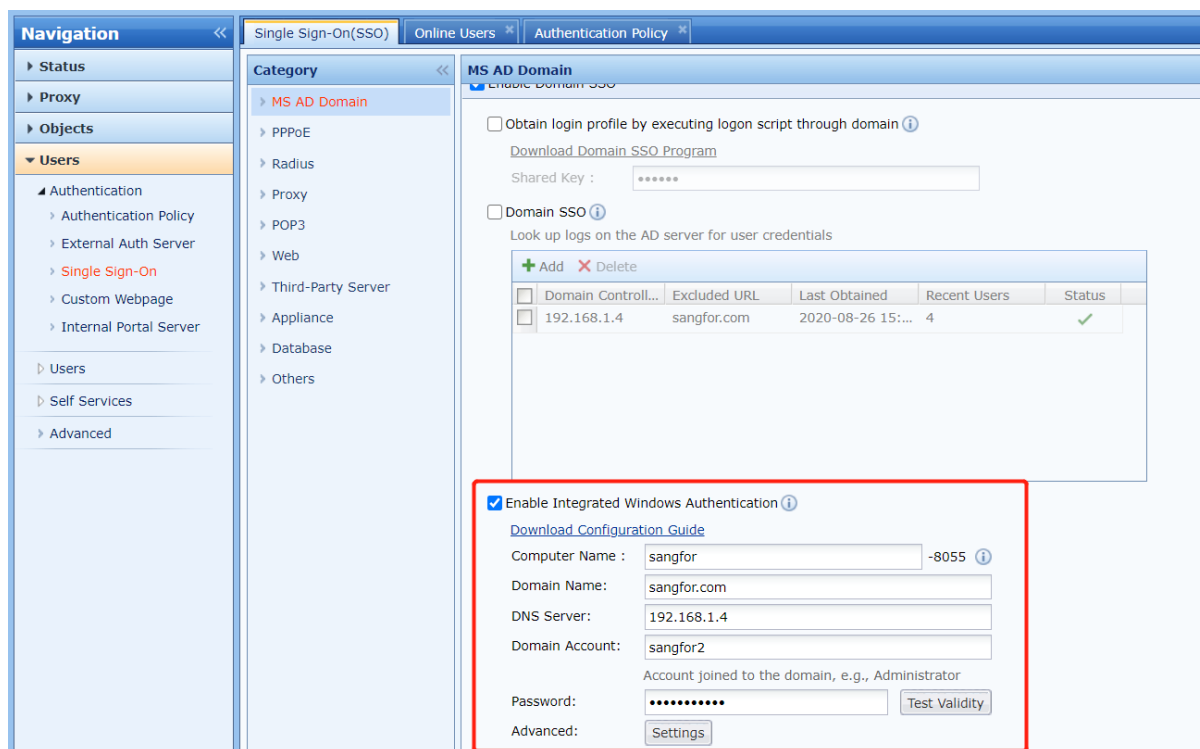


3. If IAM and AD can interact normally, then in the local user, you can see that IAM has obtained the domain user information of the AD server, including the sangfortest user we created before.



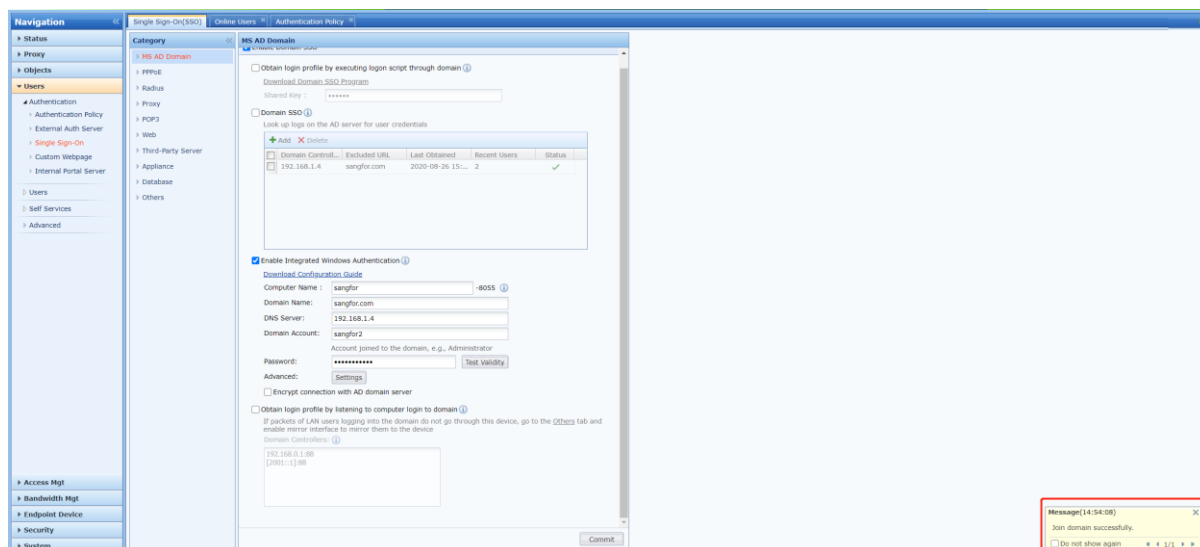
3.2 Configure Integrated Windows Authentication SSO

1. Turn on "Domain SSO" and turn on IWA. Here you need to configure Integrated Windows Authentication.



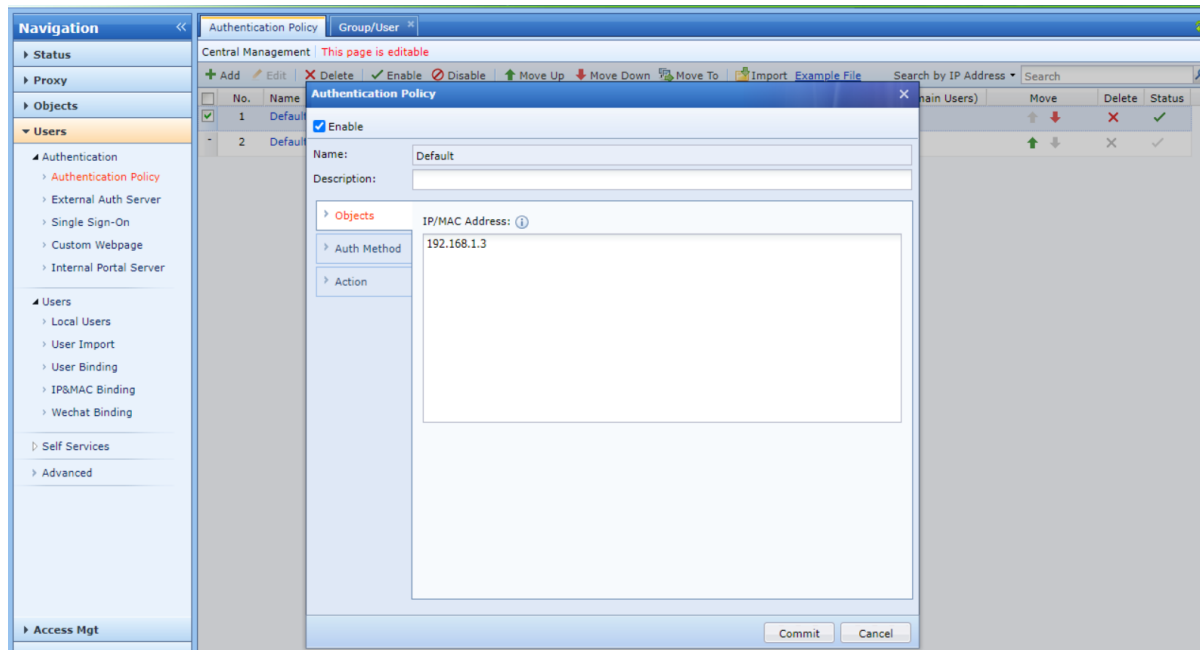
If you can see the prompt "Join domain successfully." in the lower right corner, which means the IAM has been joined to Windows Server successfully.

Activity Domain IWA SSO

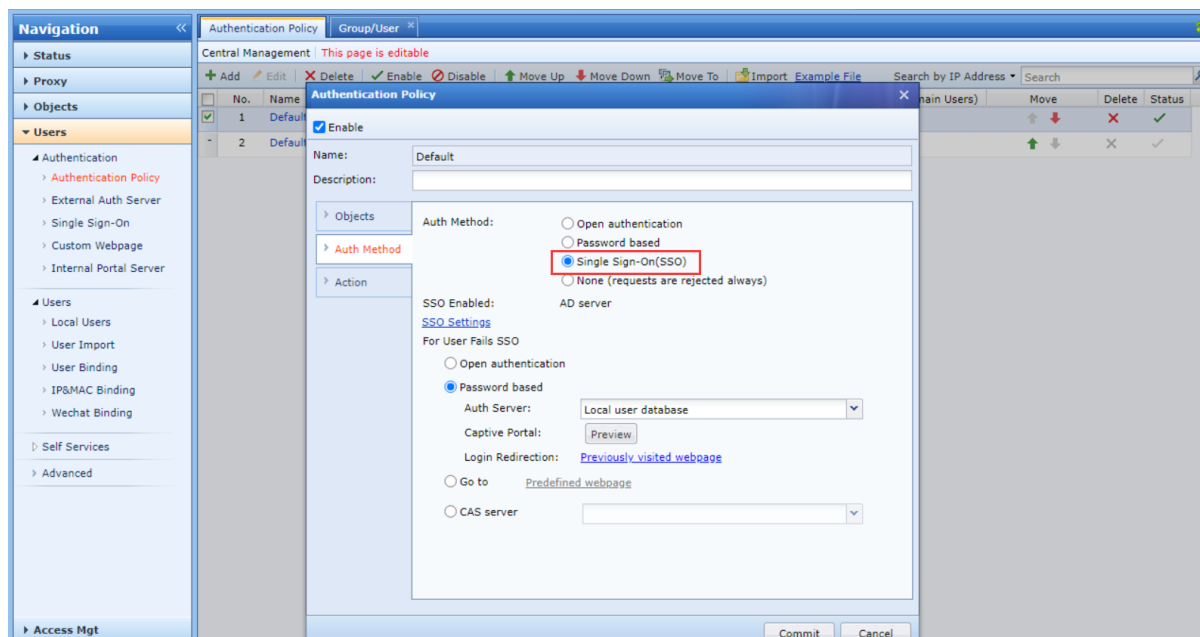


3.3 Configure authentication policy on IAM

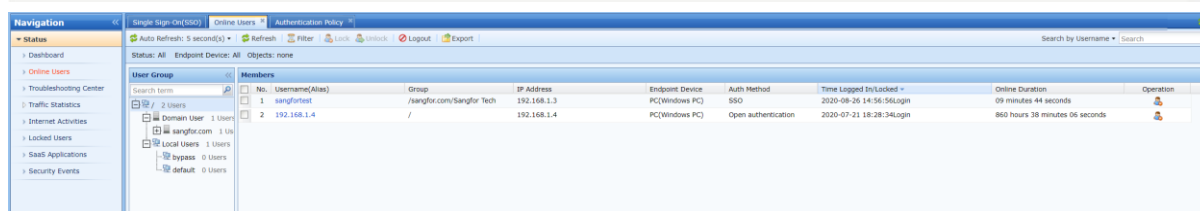
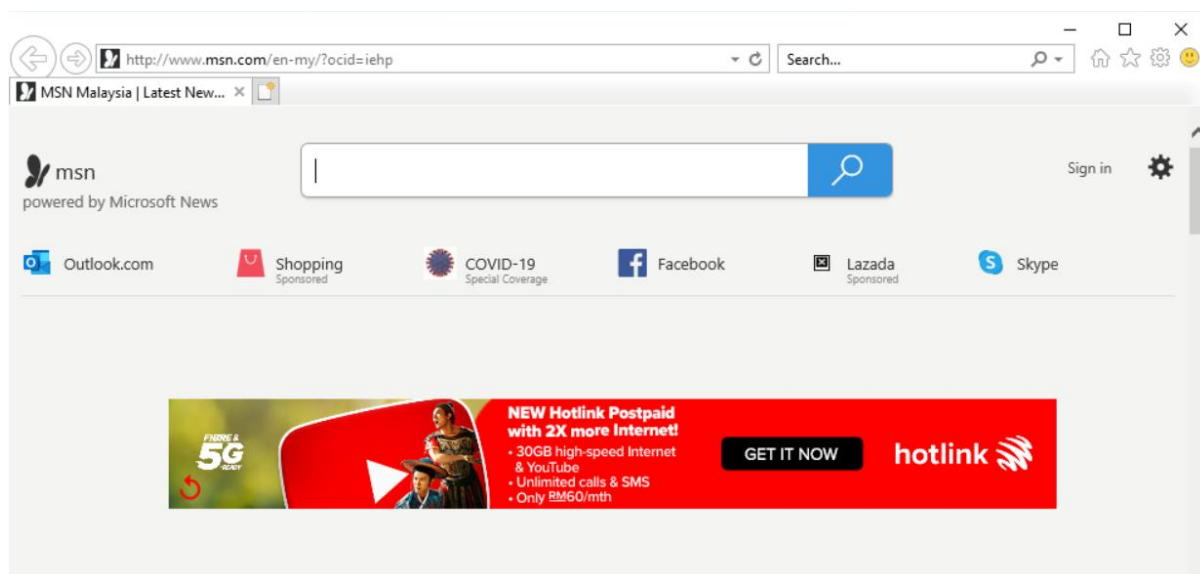
1. Set the scope of the authentication policy, that is, which IP should match the authentication policy.



2. Select the authentication method as "SSO".

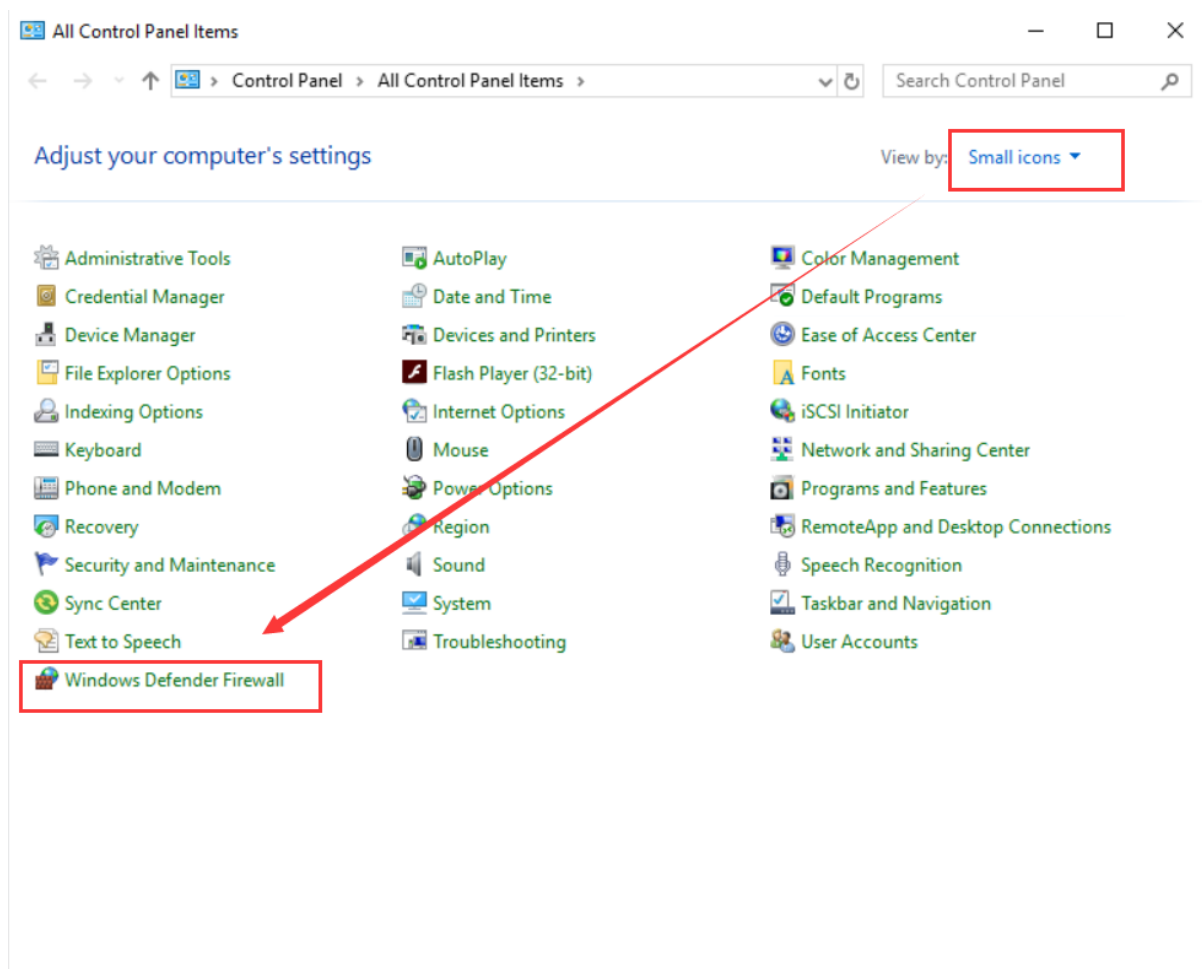
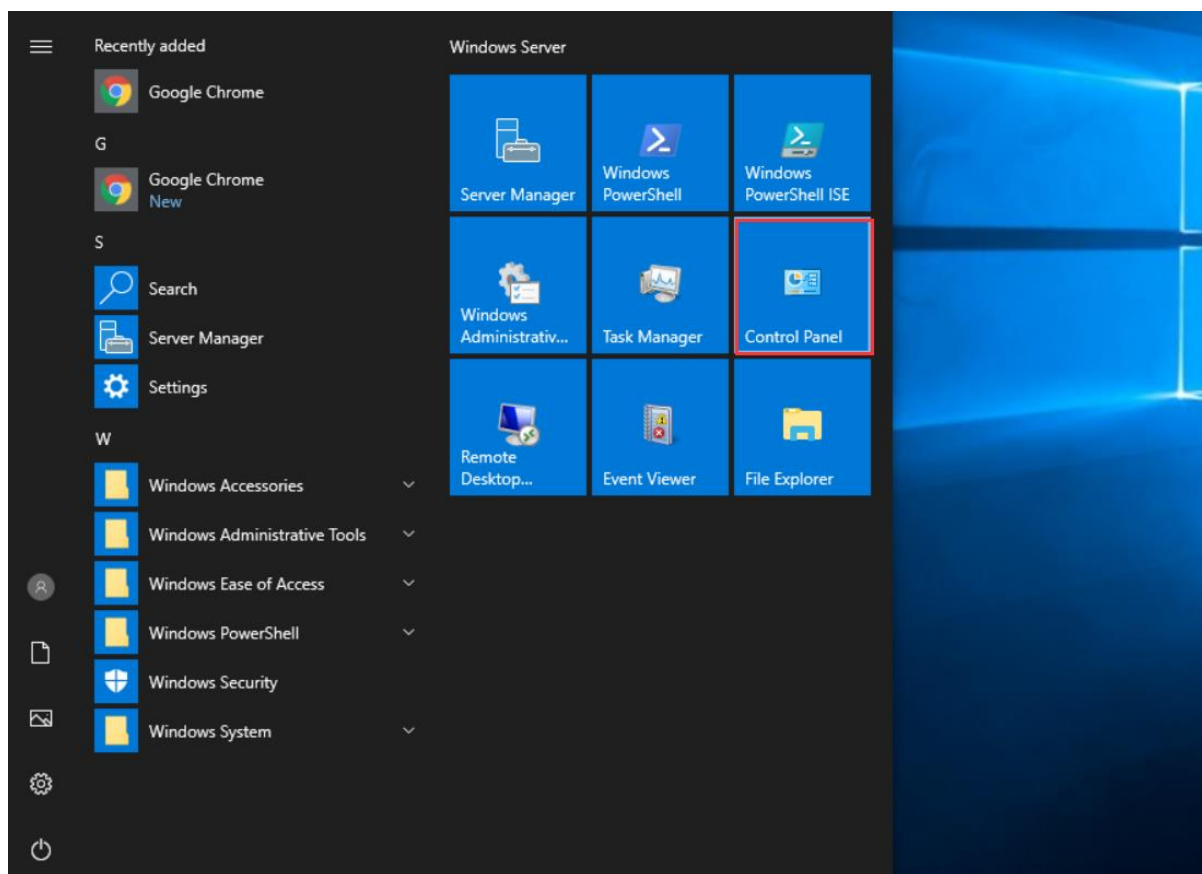


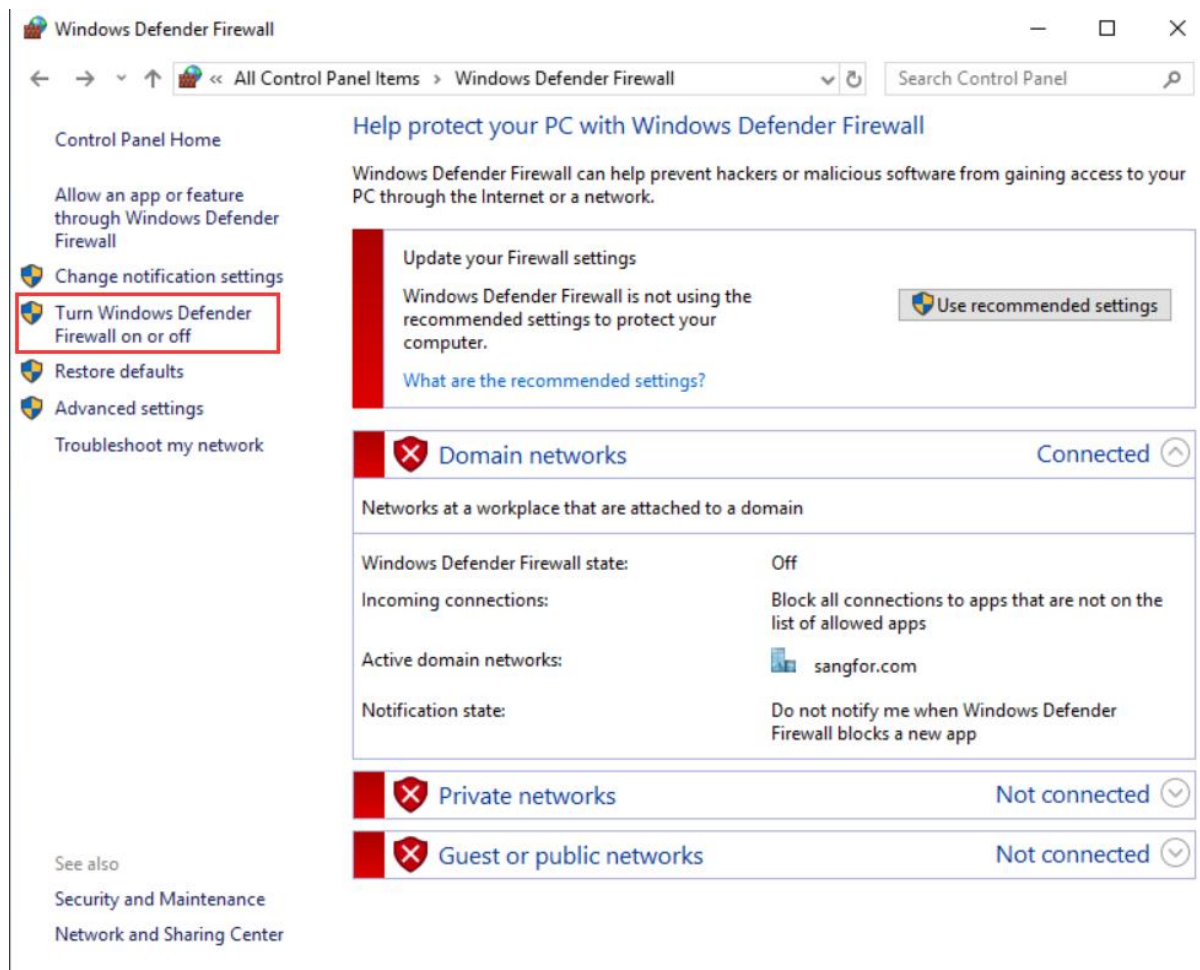
3. Restart the test PC192.168.1.3 and log in to the PC with a domain account. After you enter desktop, you must open Internet Explorer and access http website, then you can see that PC192.168.1.3 is online and the authentication method is SSO on the IAM.

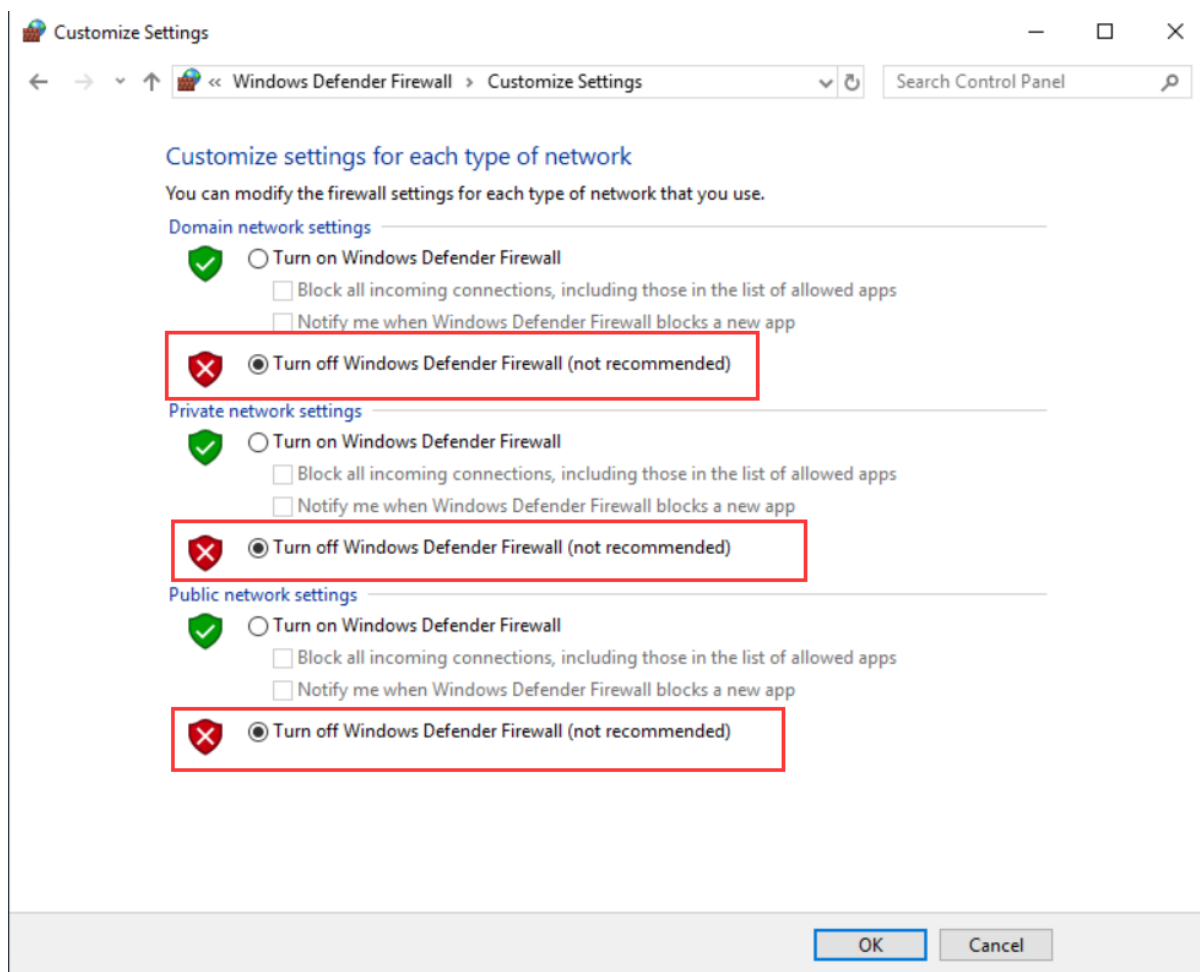


Chapter 4 Precautions

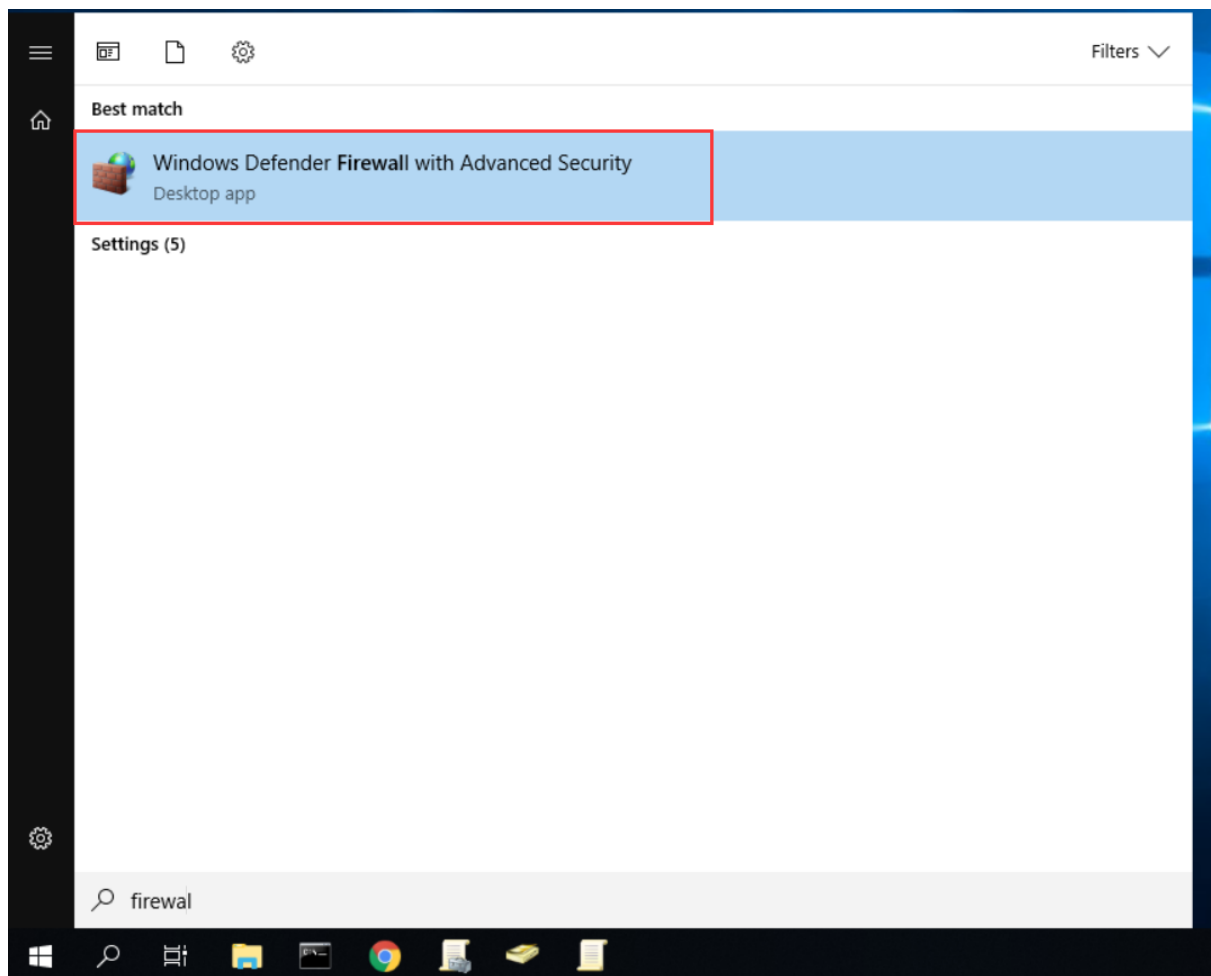
1. It is usually recommended to turn off the system firewall of Windows Server, because the security mechanism of Windows Server is very strict, which usually causes other devices unable to obtain relevant data from AD Server.



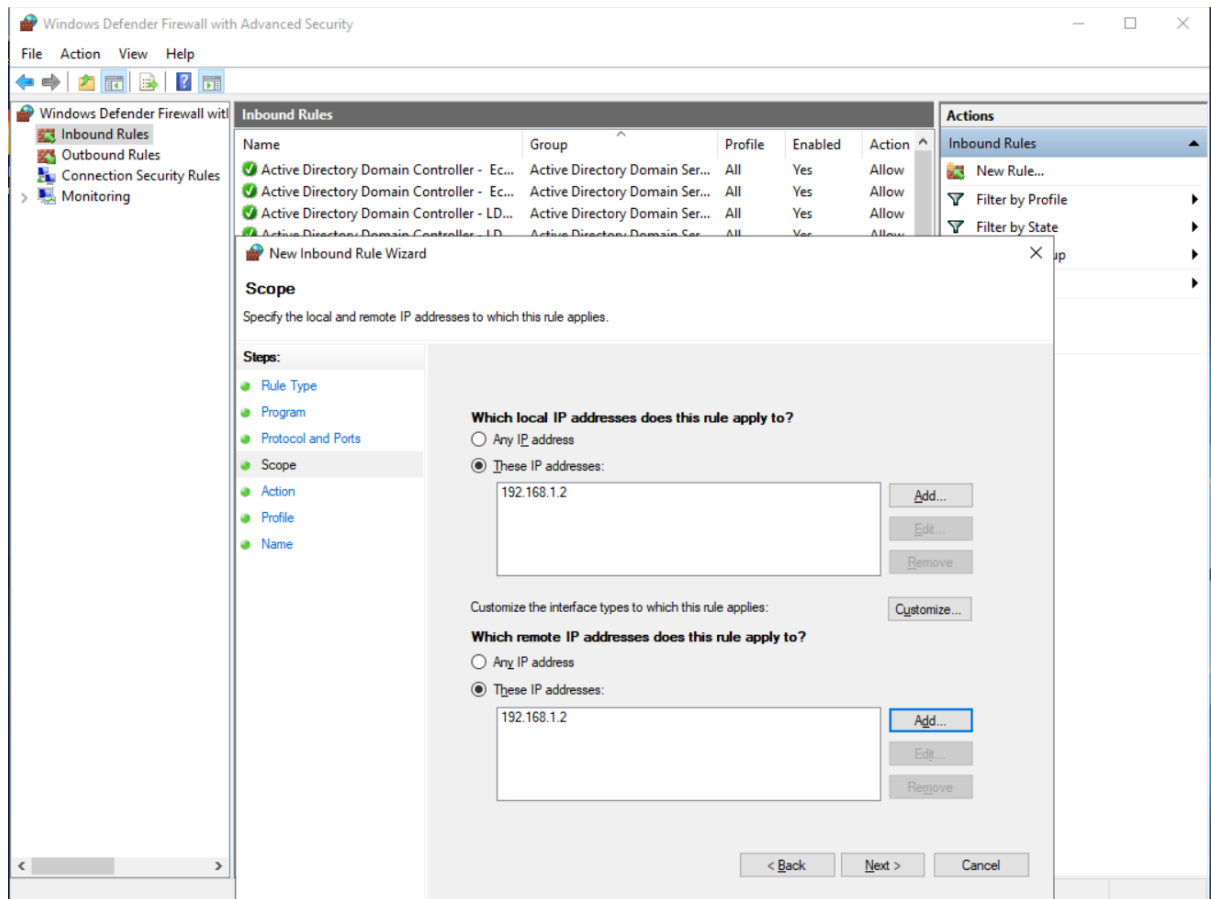




Or you can manually add firewall rules to allow related devices to access AD Server.



Activity Domain IWA SSO





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