



# IAM

## Best Practices for Scenarios\_Activity Domain Script SSO

Version 12.0.42



## Change Log

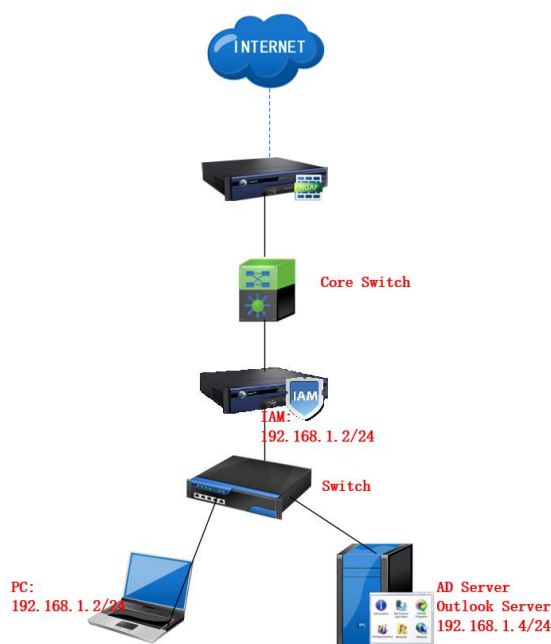
| Date         | Change Description                |
|--------------|-----------------------------------|
| Aug 4, 2020  | Version 12.0.42 document release. |
| May 17, 2021 | Version 12.0.42 document update.  |

# CONTENT

|  |    |
|--|----|
| Chapter 1 Scenario .....   | 1  |
| 1.1 Configure Steps .....  | 1  |
| Chapter 2 How to Configure Activity Domain Server .....                | 2  |
| 2.1 Install MS AD function.....  | 2  |
| 2.2 Configure the domain controller server.....                        | 9  |
| 2.3 Create usernames and passwords for other users in the domain ..... | 14 |
| 2.4 Join the PC to the domain.....                                     | 18 |
| Chapter 3 How to Configure IAM.....                                    | 24 |
| 3.1 Add LDAP server .....  | 24 |
| 3.2 Configure script SSO on IAM and AD Server .....                    | 26 |
| 3.3 Configure the login and logout script on the AD .....              | 27 |
| 3.4 Configure authentication policy on IAM.....                        | 34 |
| Chapter 4 Precautions .....  | 35 |

## 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. The customer is allowed to deliver scripts through the Microsoft AD domain and requires a higher SSO Success rate, so choose to use scripted SSO.



AD Server:

IP: 192.168.1.4

Domain Name: sangfor.com

Account/Password: administrator/@sangfor123

Test PC:

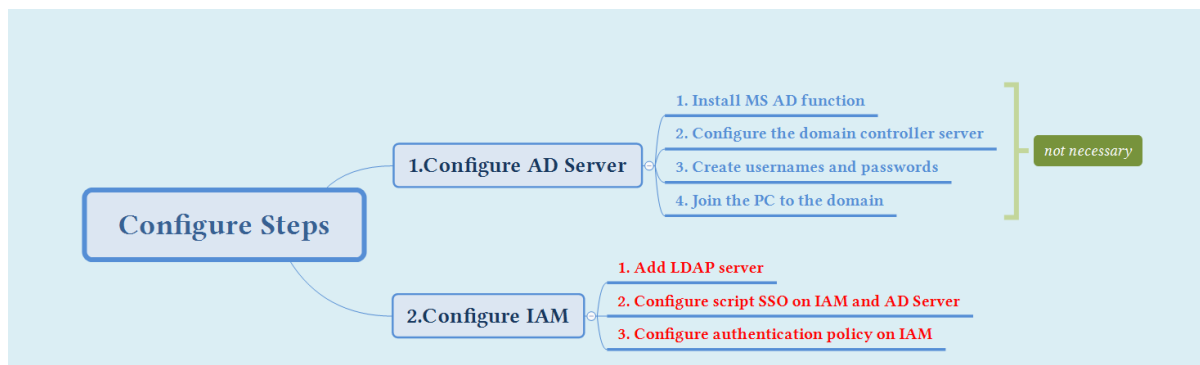
IP: 192.168.1.3

Account/Password: administrator/@sangfor123

Domain Account/Password: sangfortest/@sangfor123

### 1.1 Configure Steps

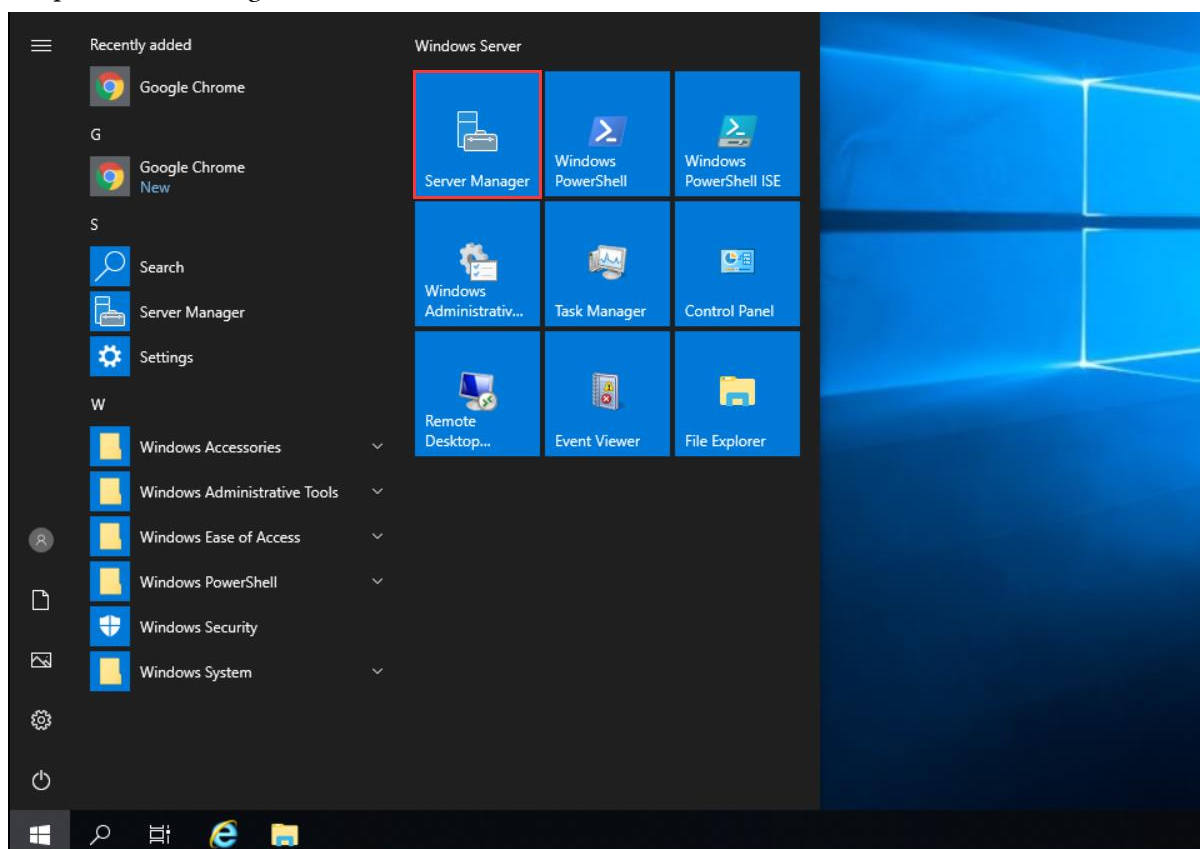
The configuration steps are as shown in the figure below. It should be noted that in order to make everyone familiar with the AD domain faster, we add the method of configuring the AD domain, which is the part marked "not necessary". If the customer has used the AD domain before and does not need to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



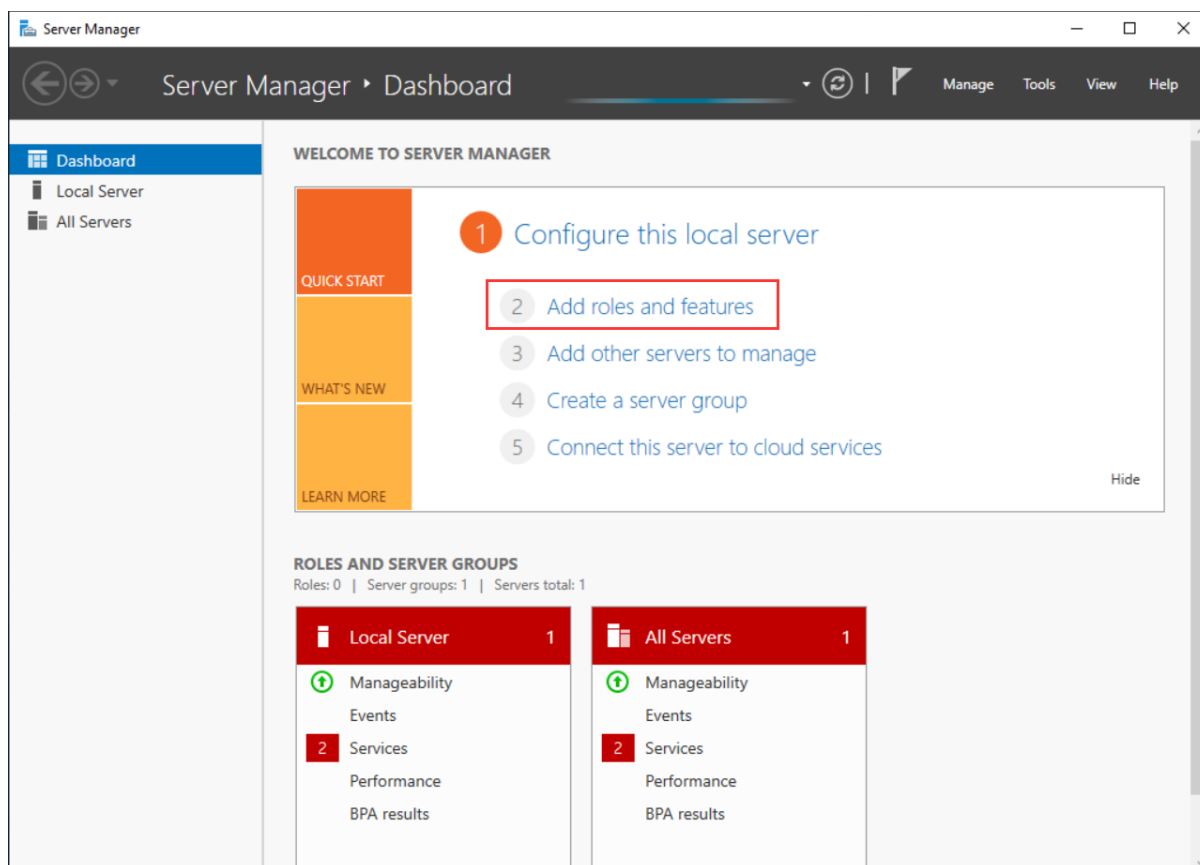
# Chapter 2 How to Configure Activity Domain Server

## 2.1 Install MS AD function

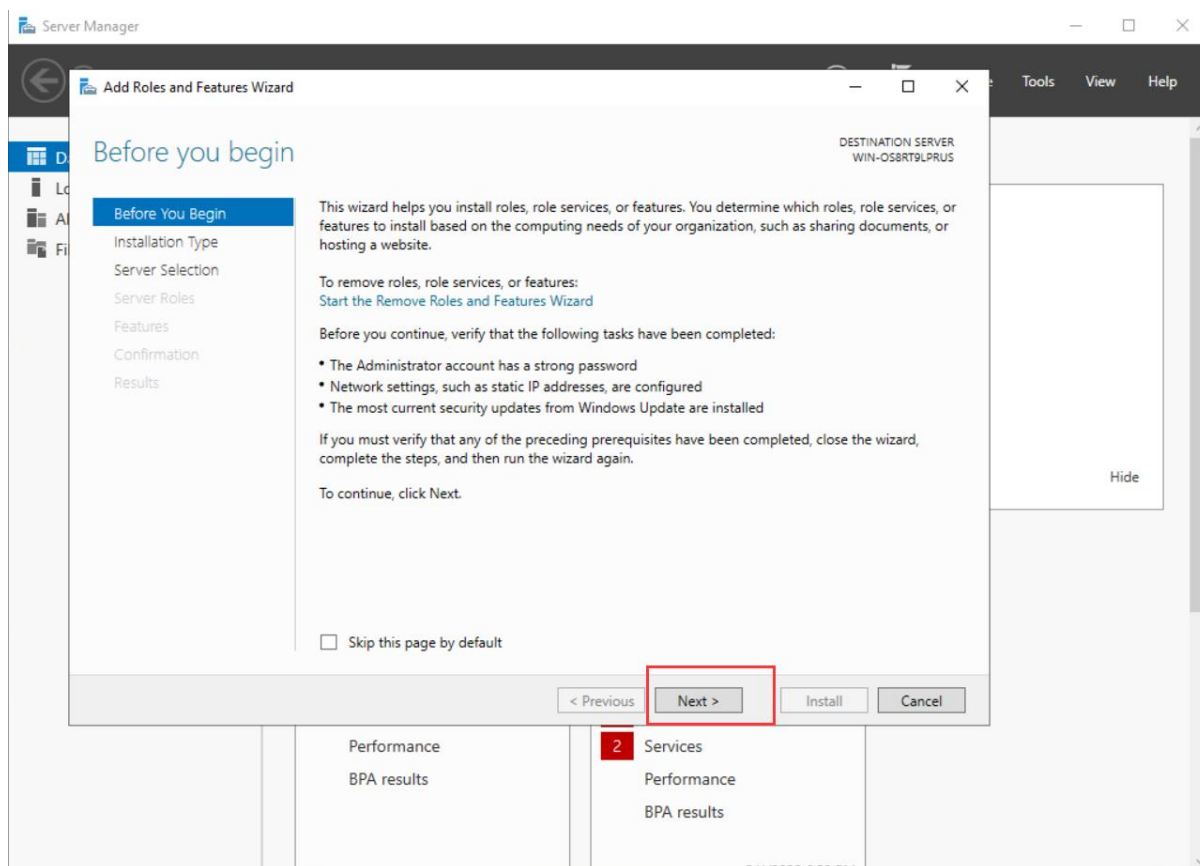
1. Open Server Manager in Windows Server 2019.



2. Click "Add roles and features".

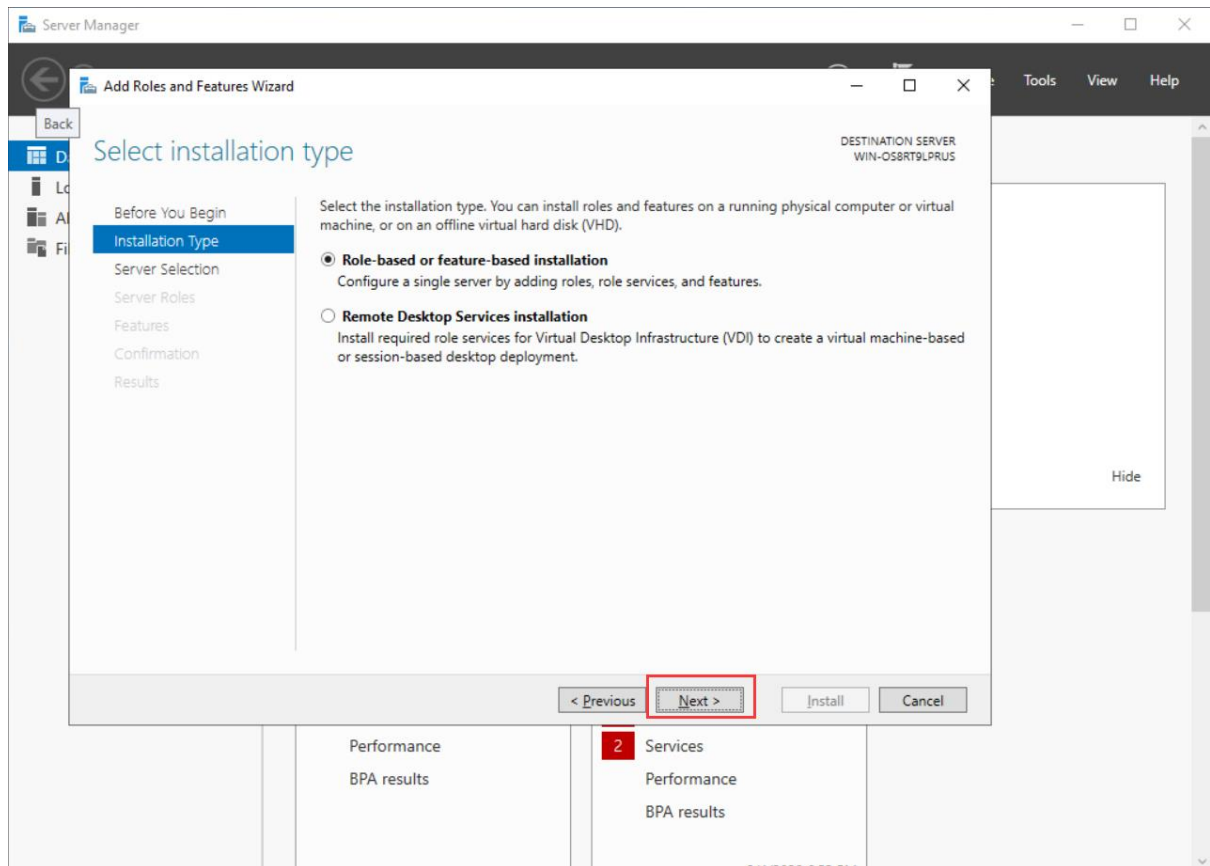


3. Click "Next".

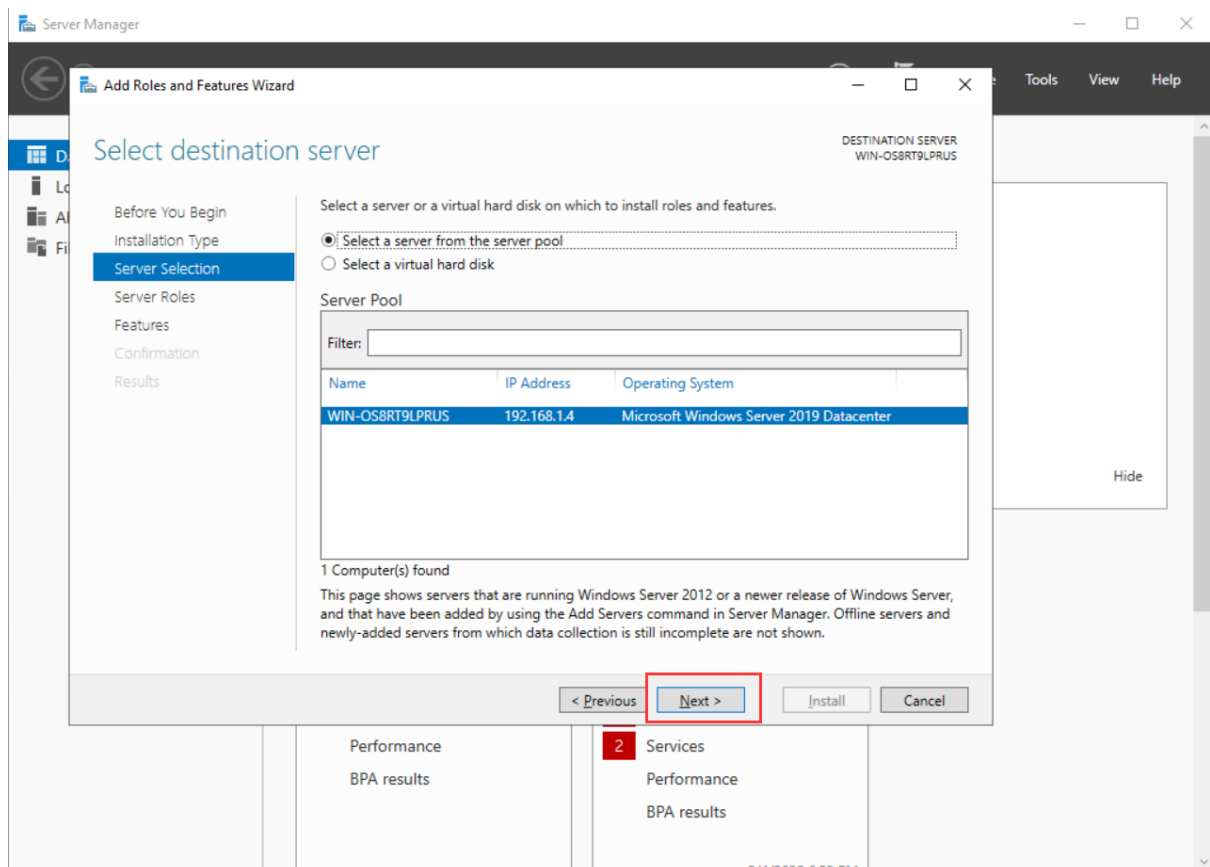


4. Click "Next".

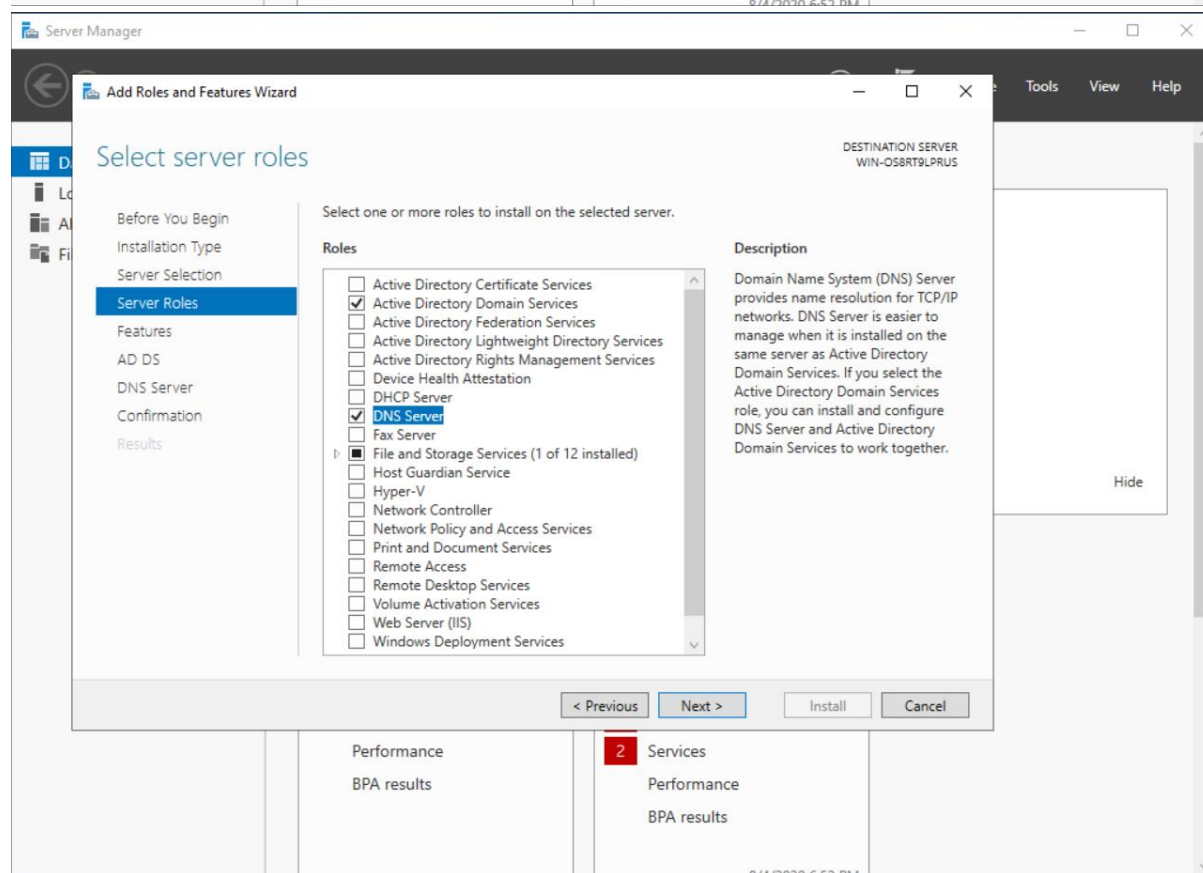
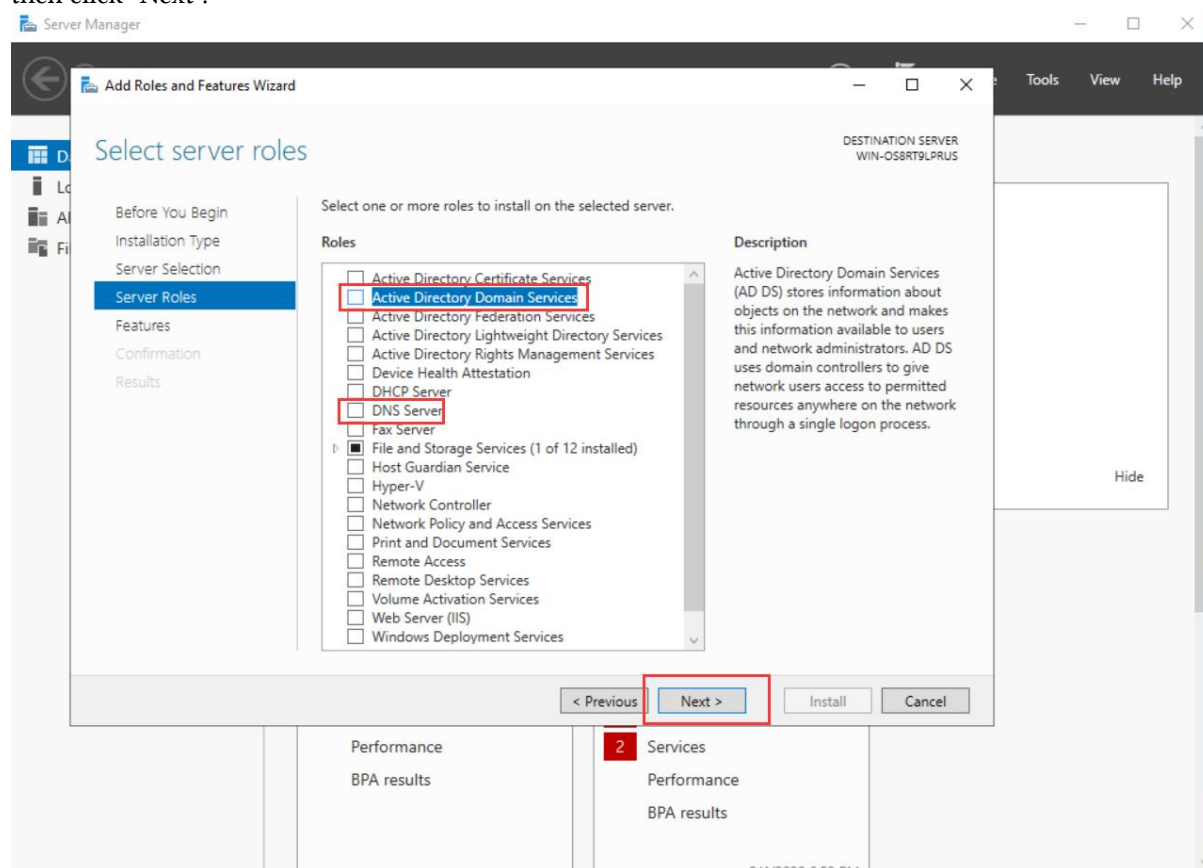
## Activity Domain Script SSO



5. Click "Next".

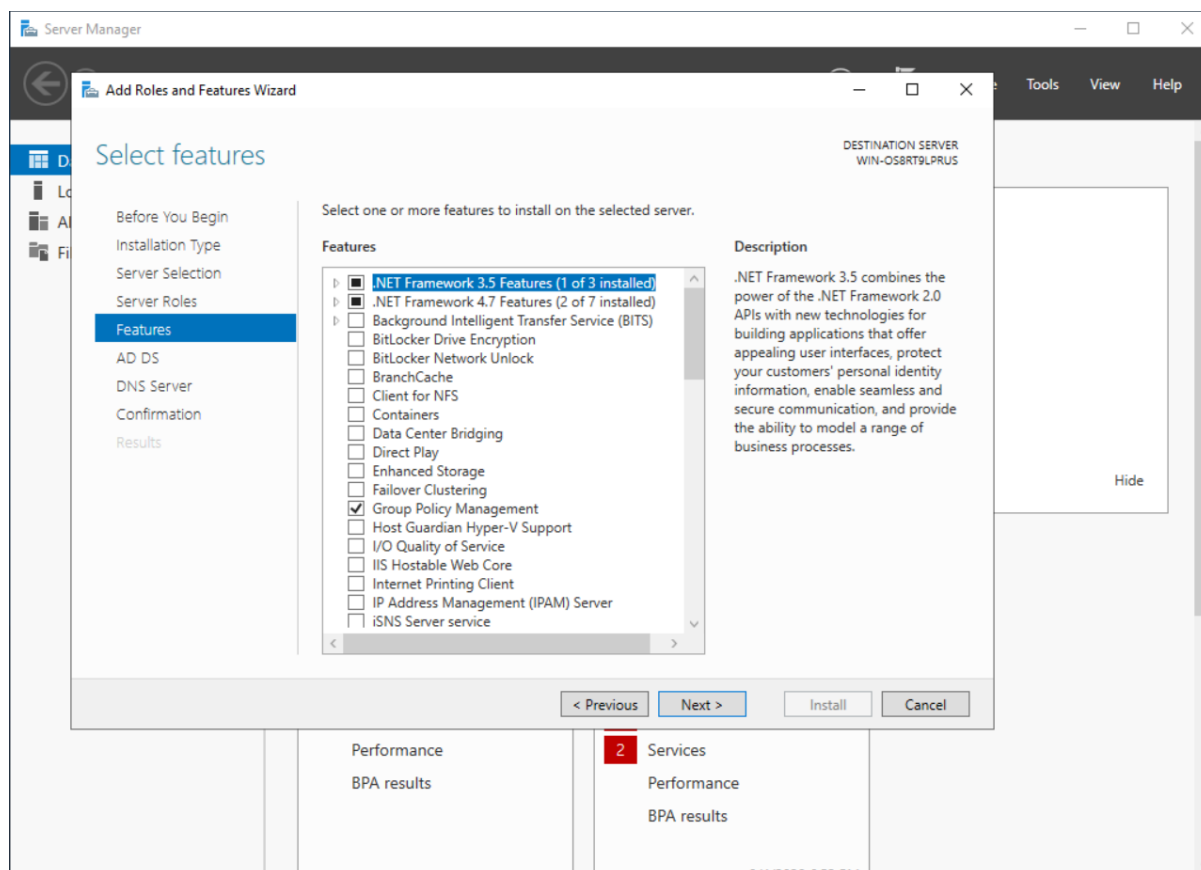


6. Select the functions that need to be installed "Active Directory Domain Services" and "DNS Server", then click "Next".

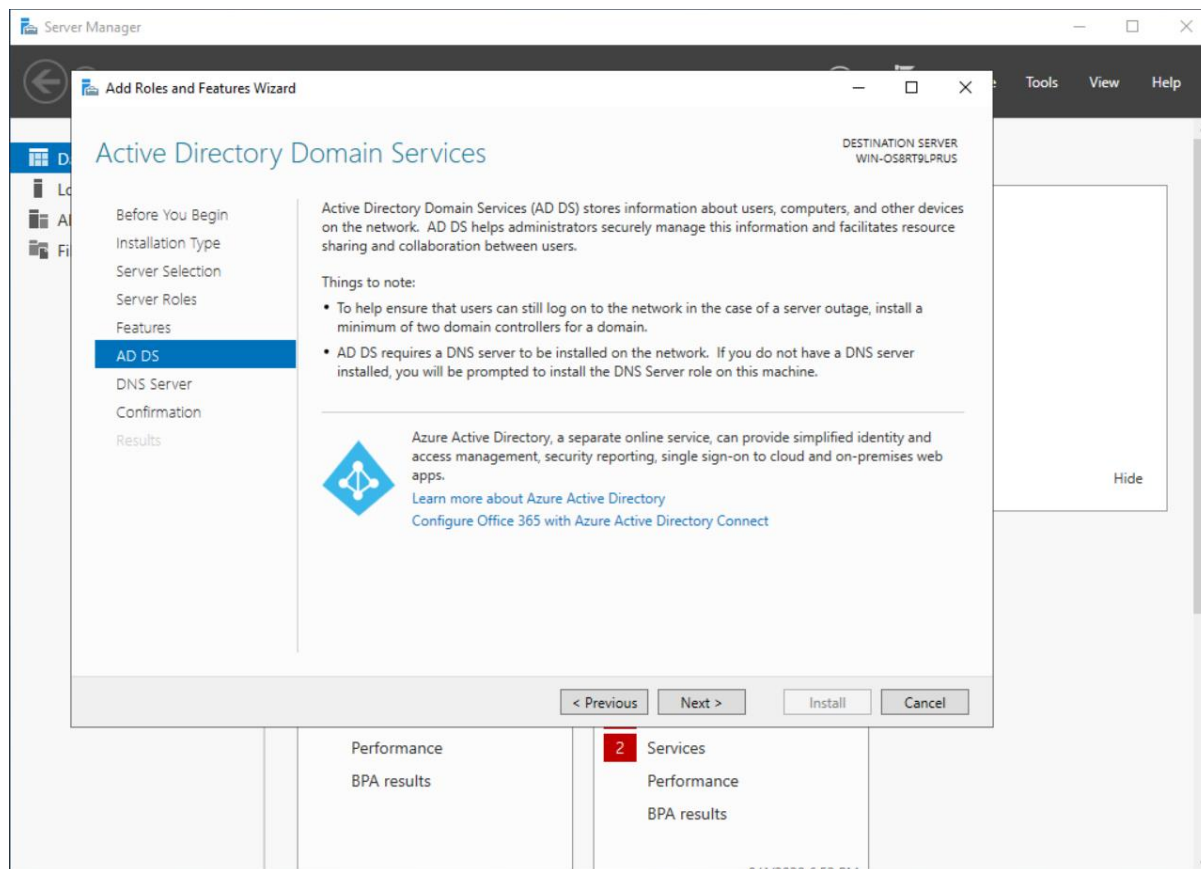


7. Click "Next".

## Activity Domain Script SSO

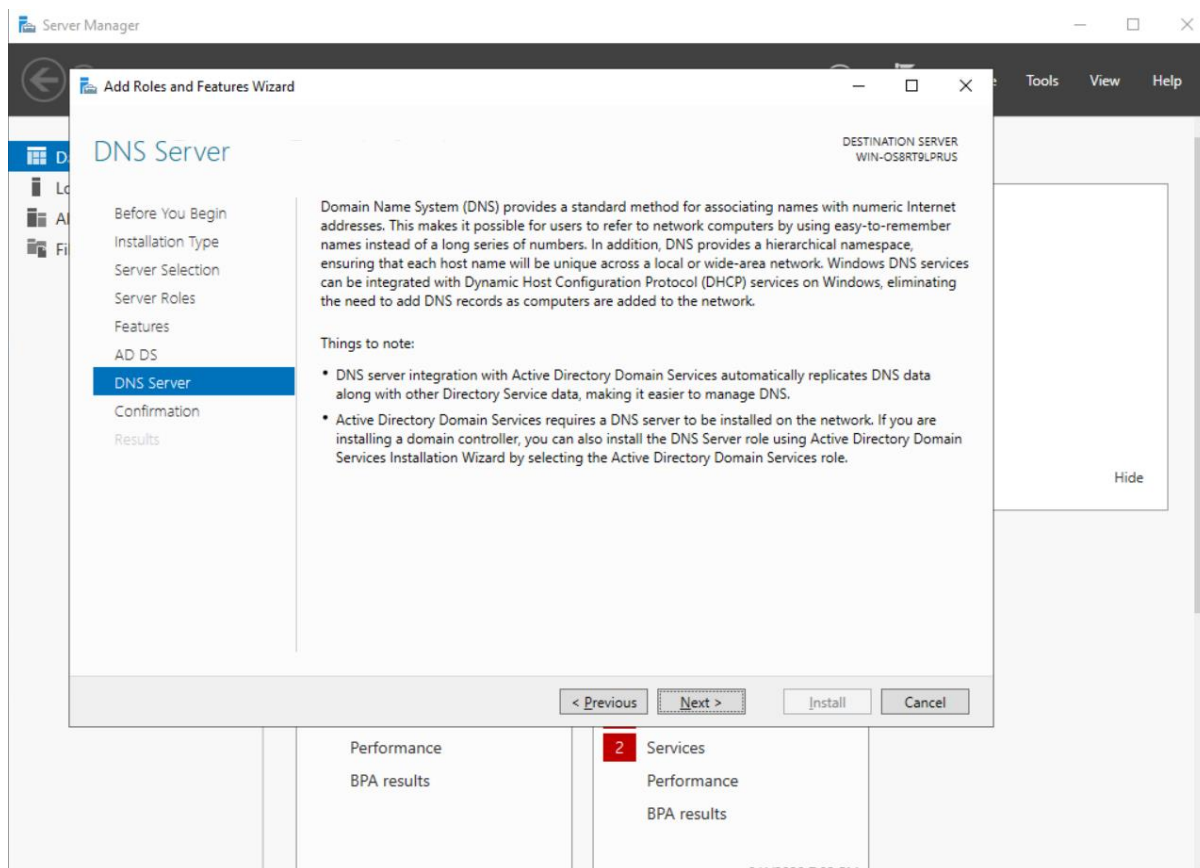


8. Click "Next".

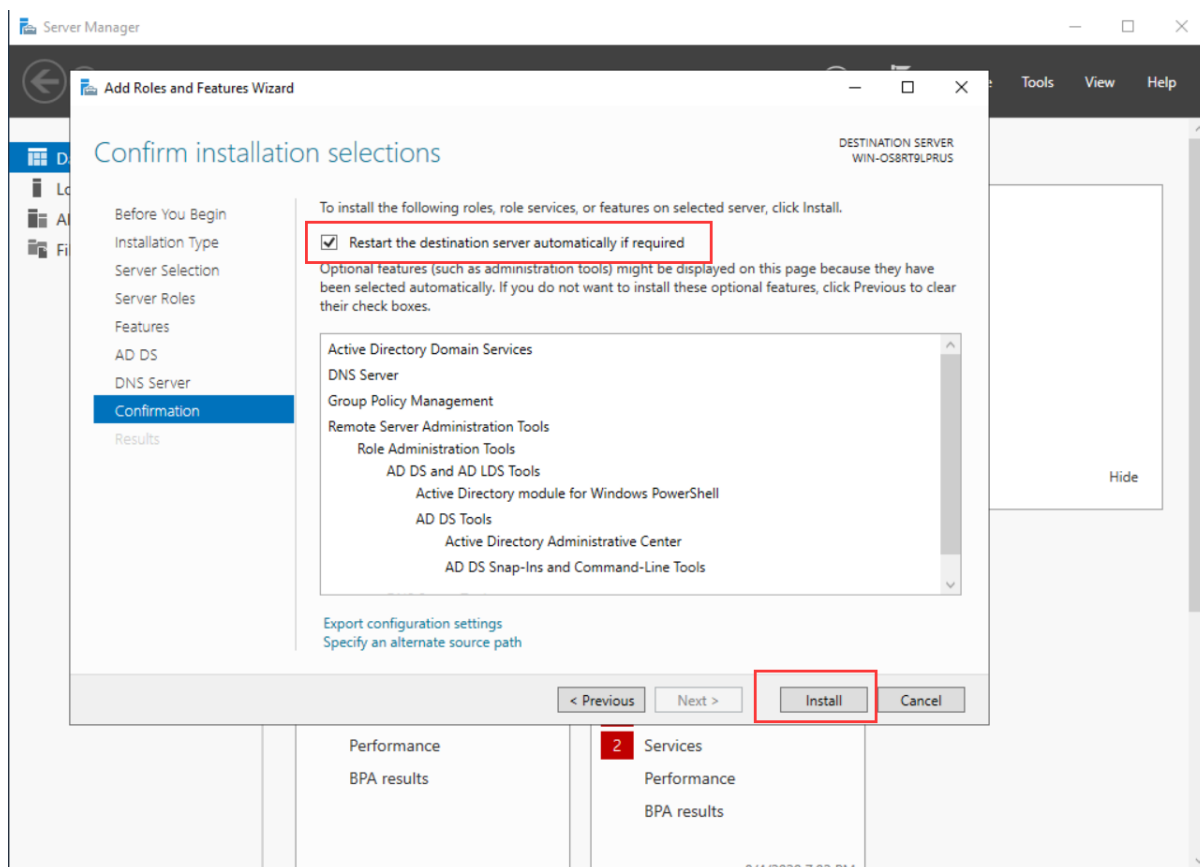


9. Click "Next".

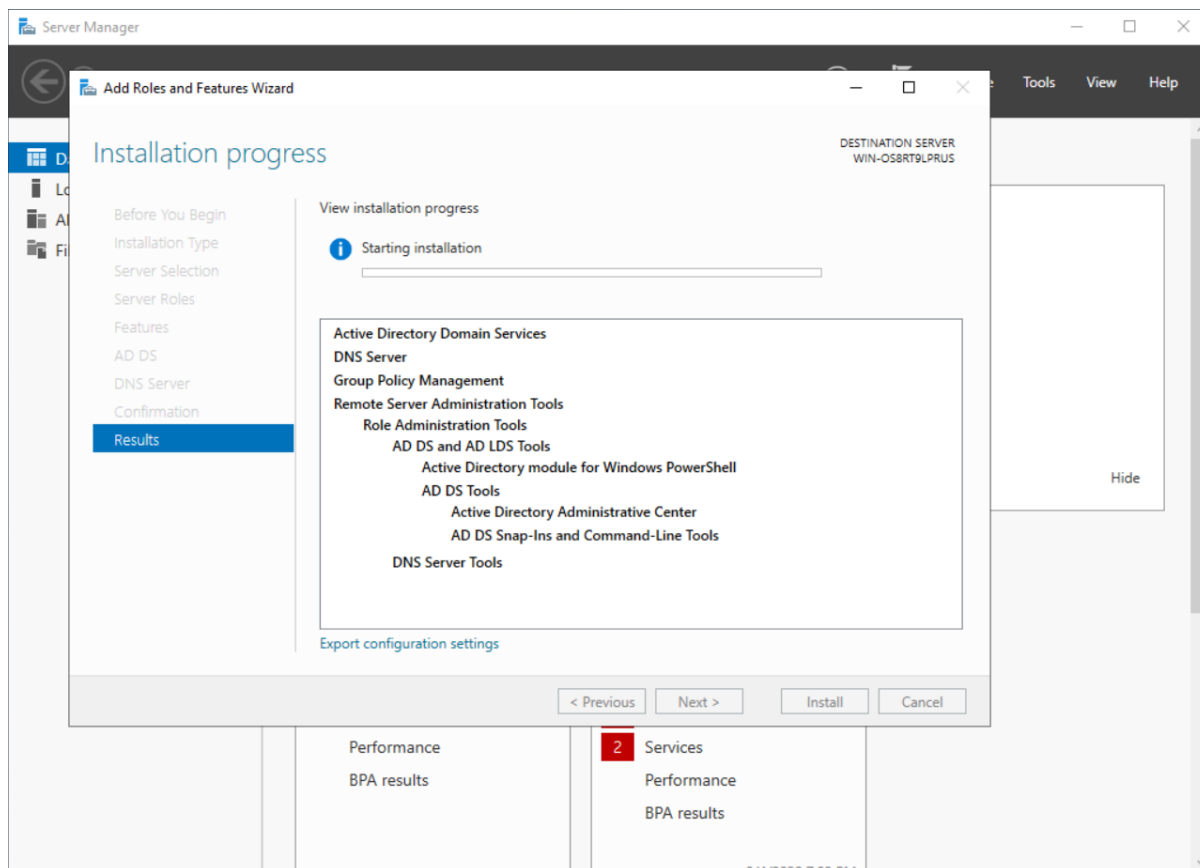
## Activity Domain Script SSO



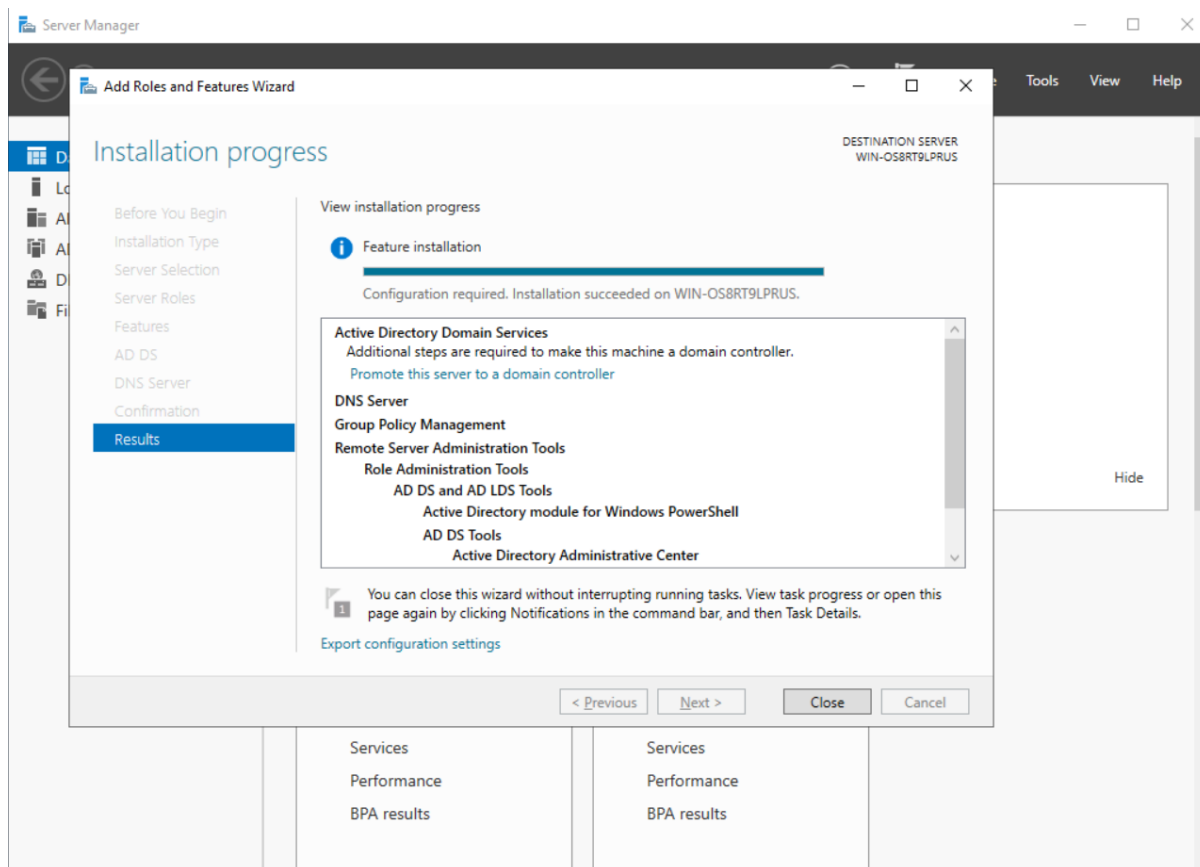
10. Click "Install".



# Activity Domain Script SSO

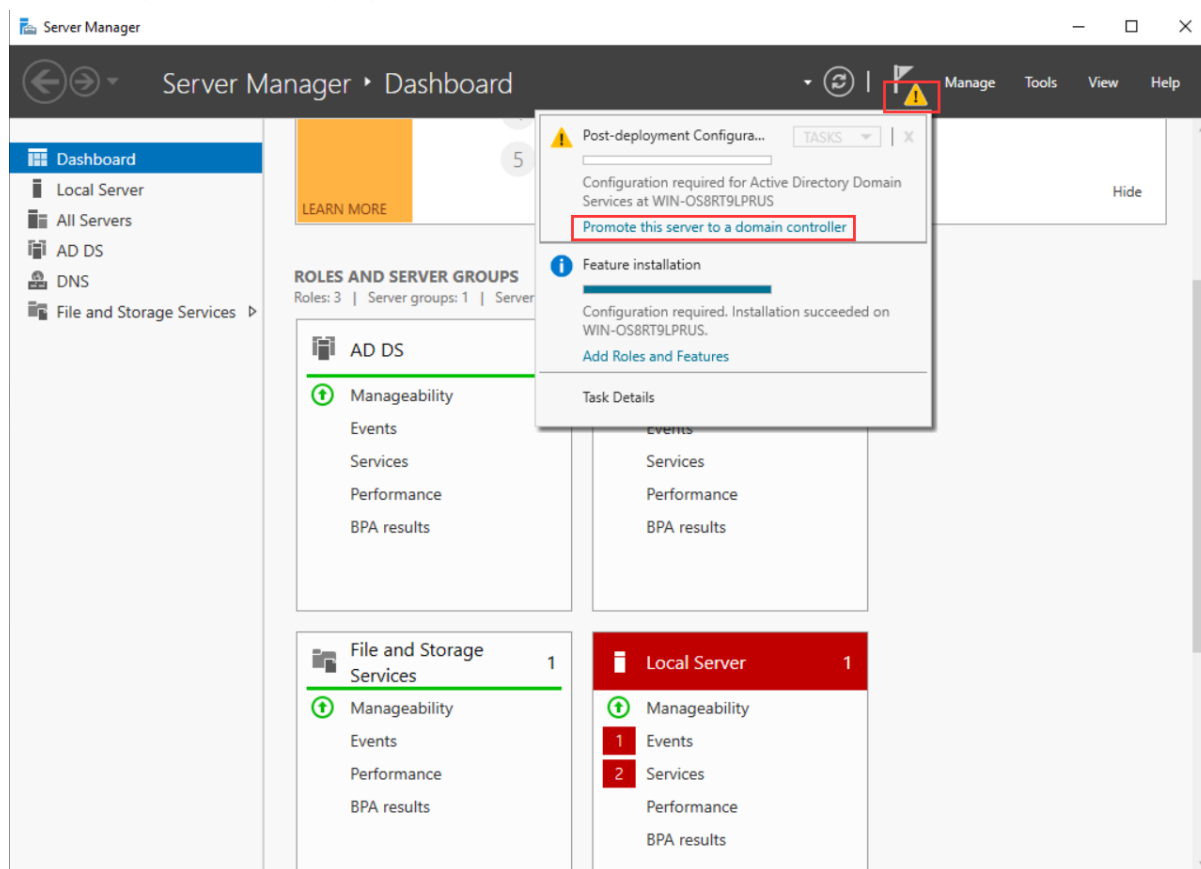


11. Click "Close" after installation.



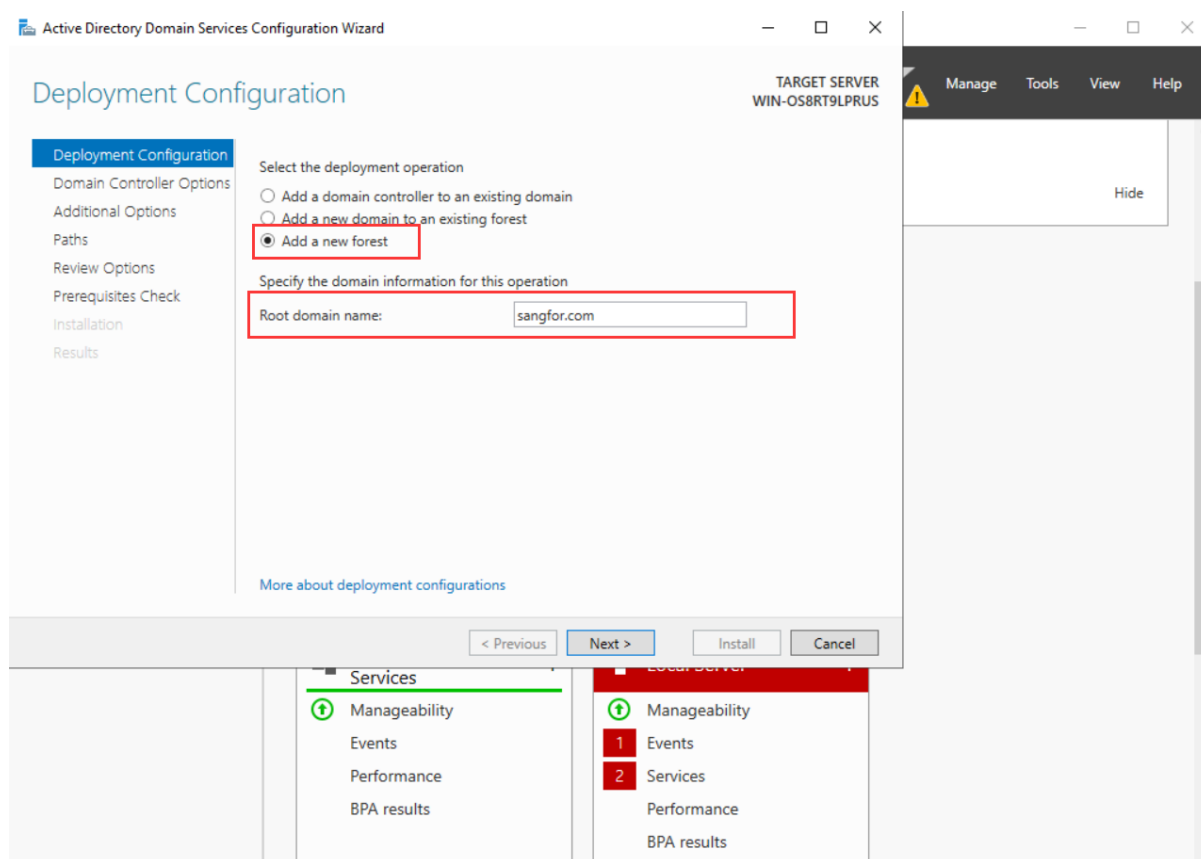
## 2.2 Configure the domain controller server

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

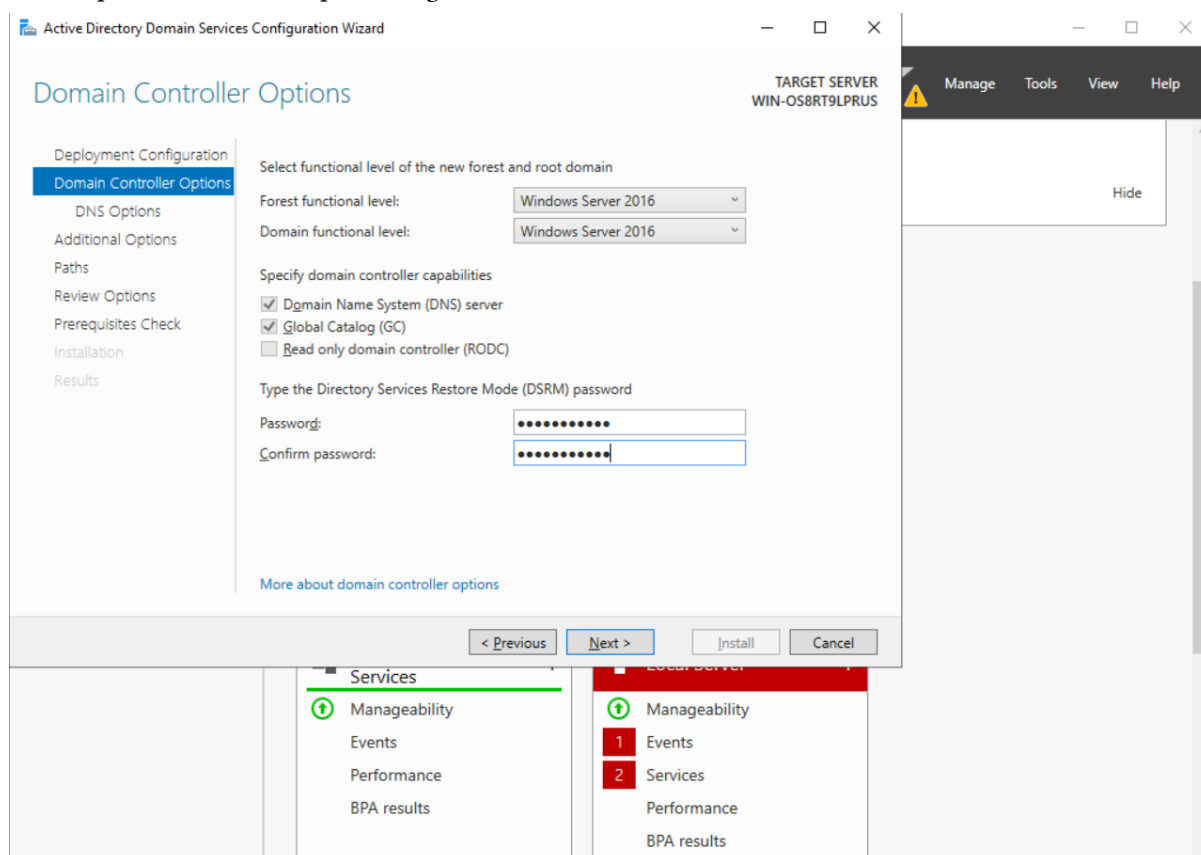


2. Configure the domain name for the AD domain, such as sangfor.com.

### Activity Domain Script SSO

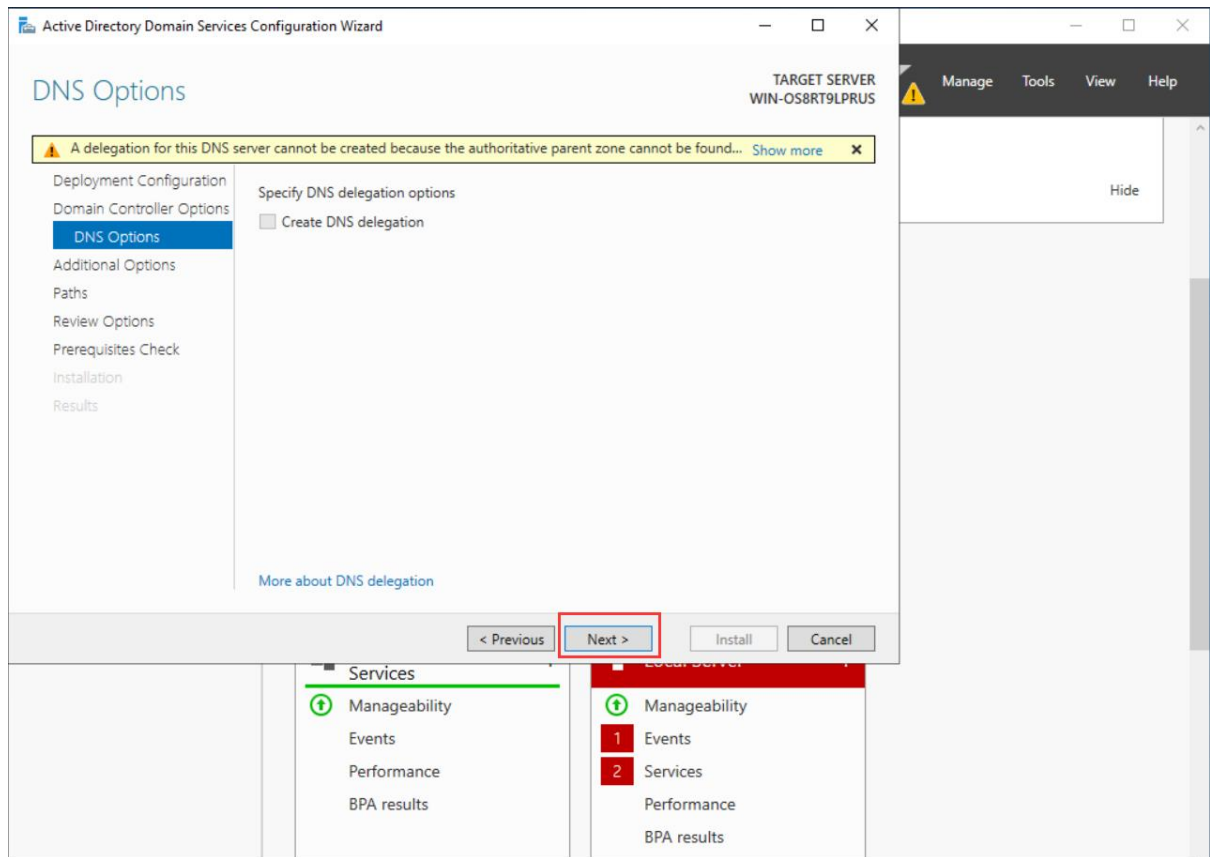


3. Set a password, for example @sangfortest.

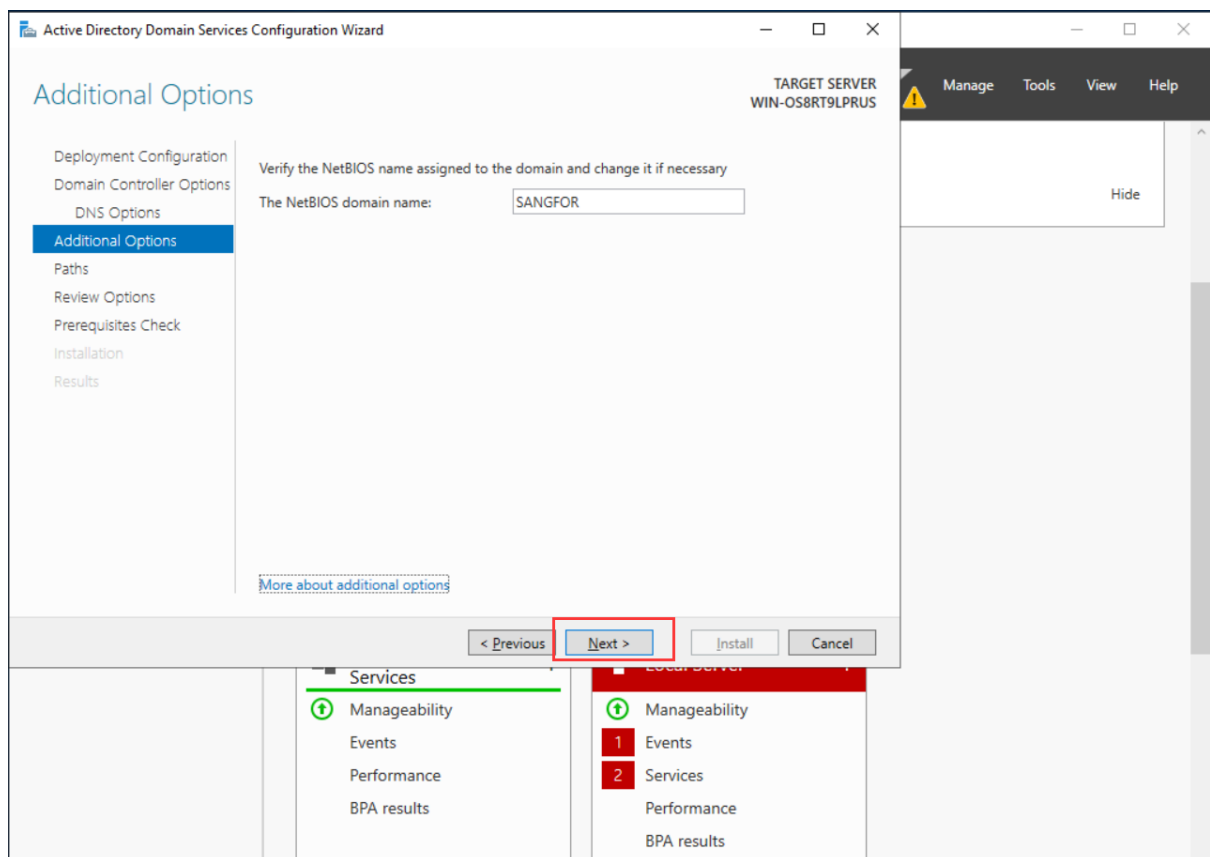


4. Click "Next".

## Activity Domain Script SSO

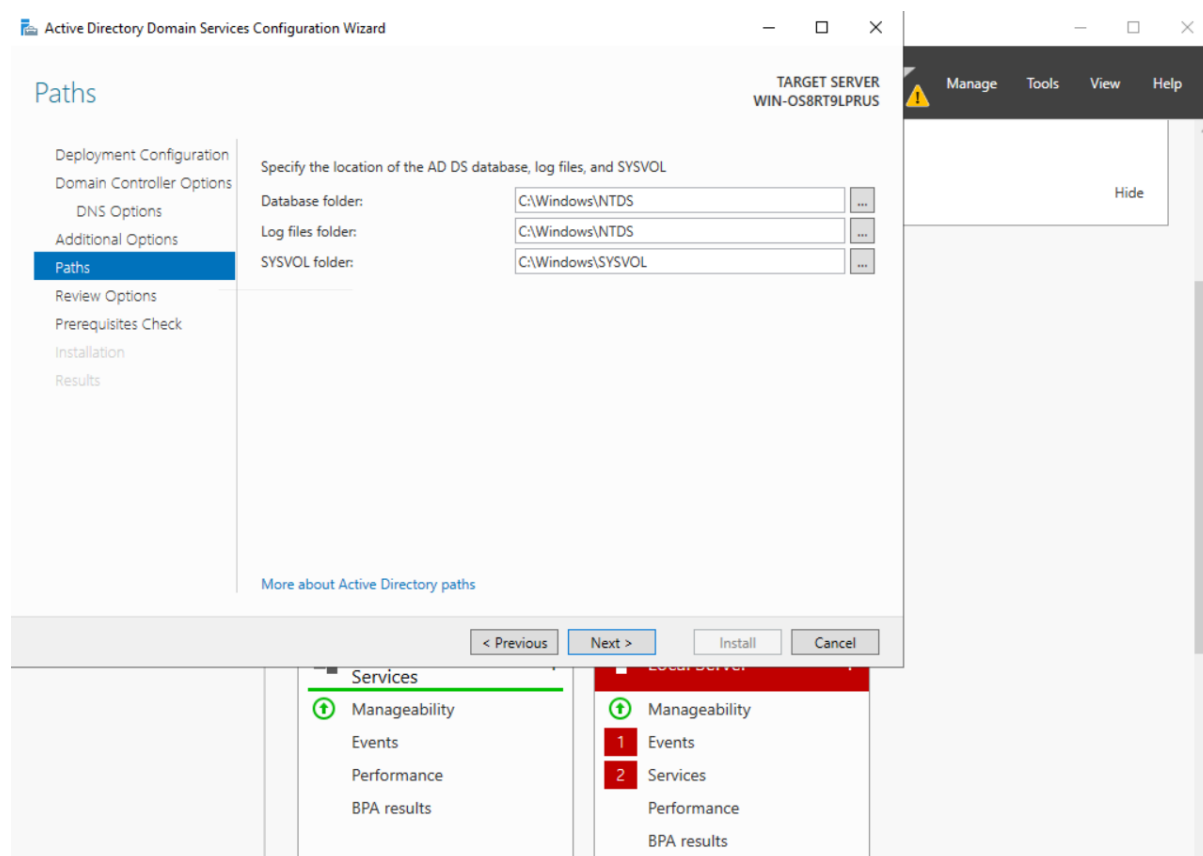


5. Set NETBIOS Domain Name, you can use the default SANGFOR.

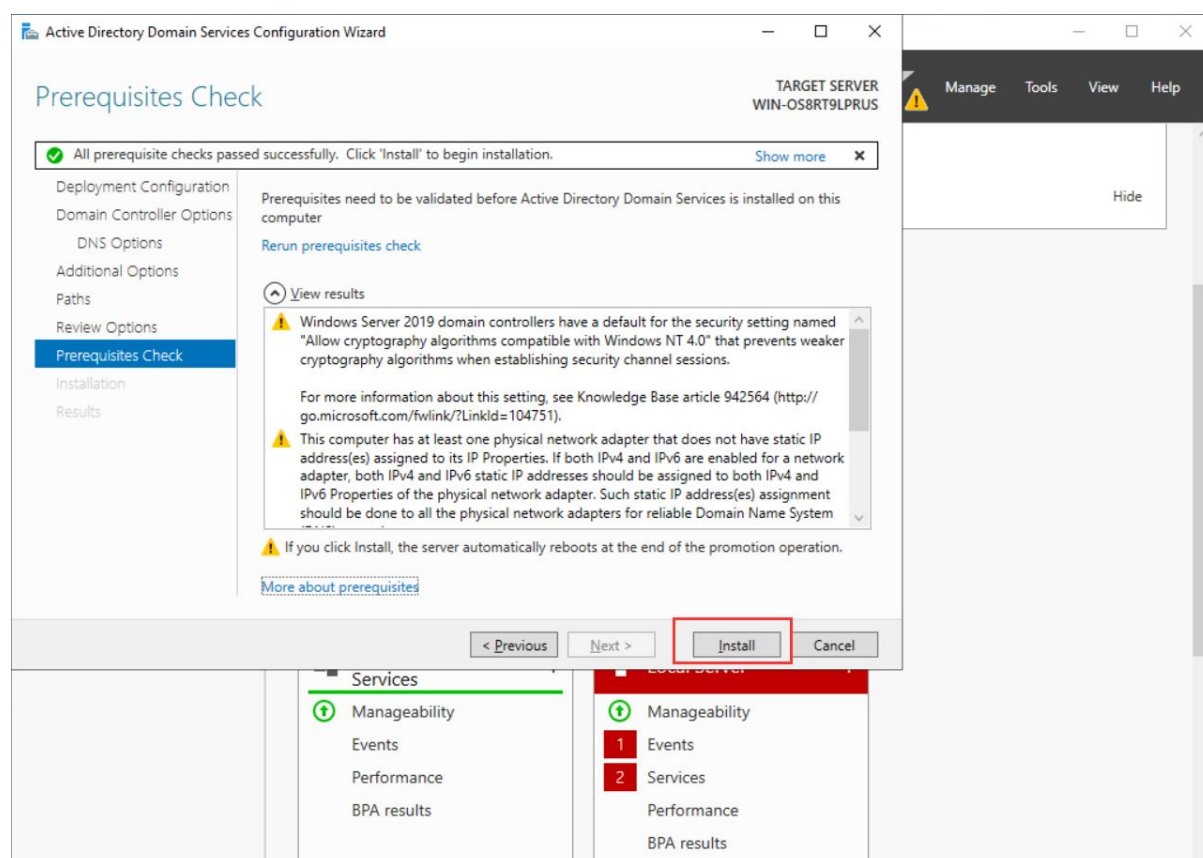


6. Click "Next".

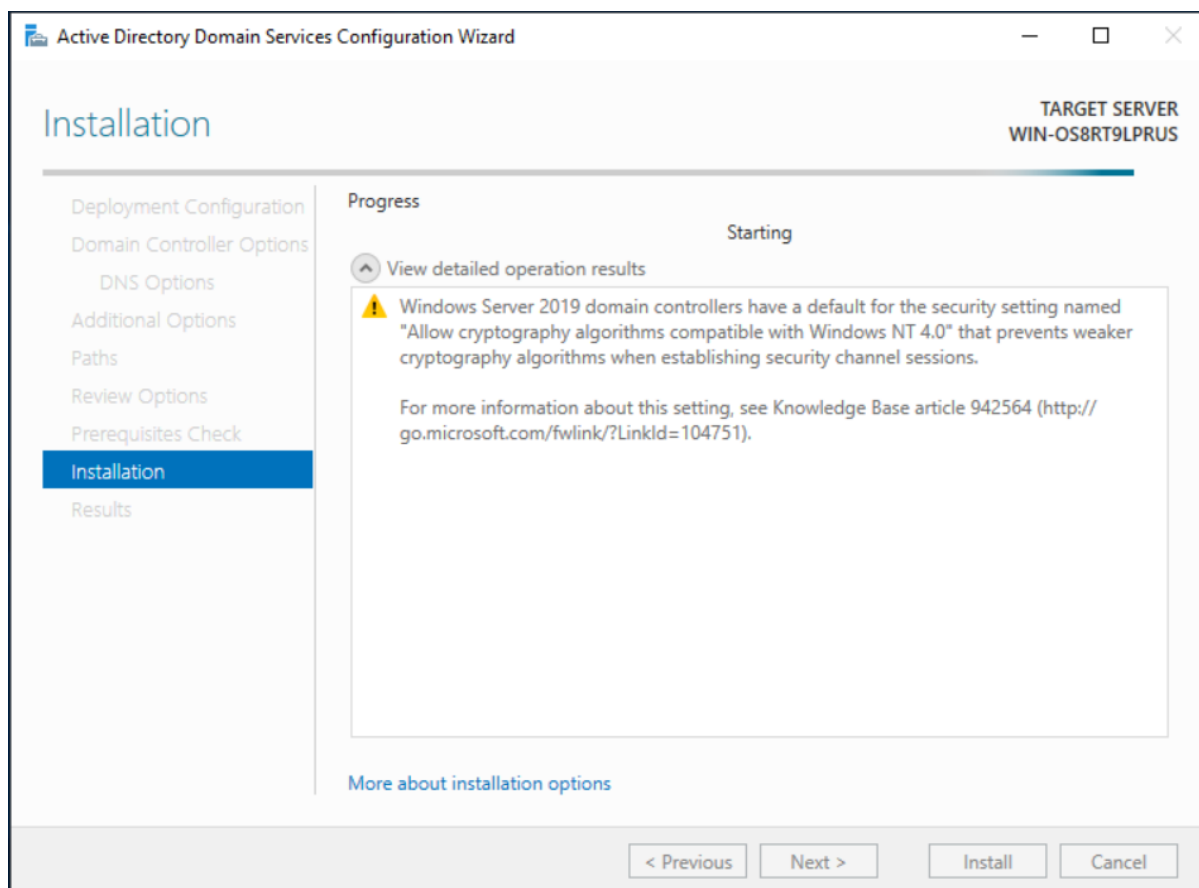
## Activity Domain Script SSO



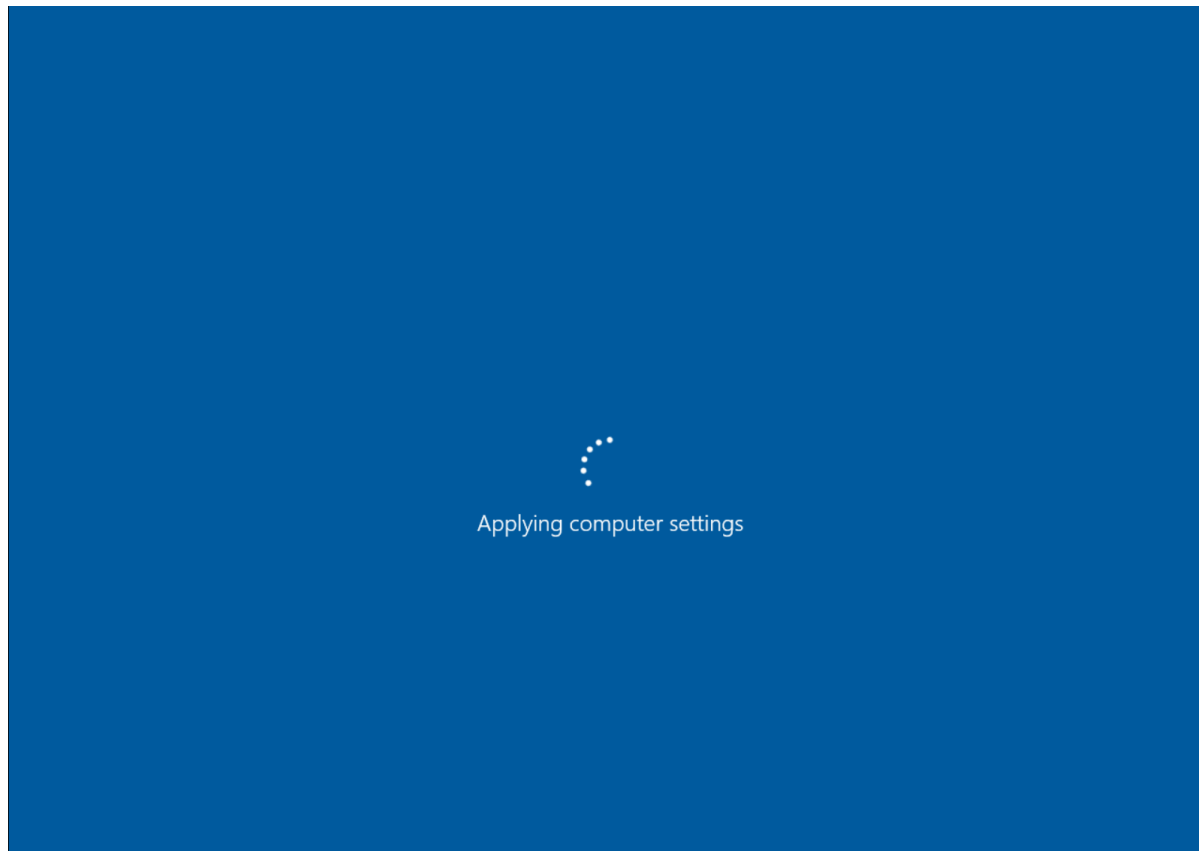
7. Select "Install".



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

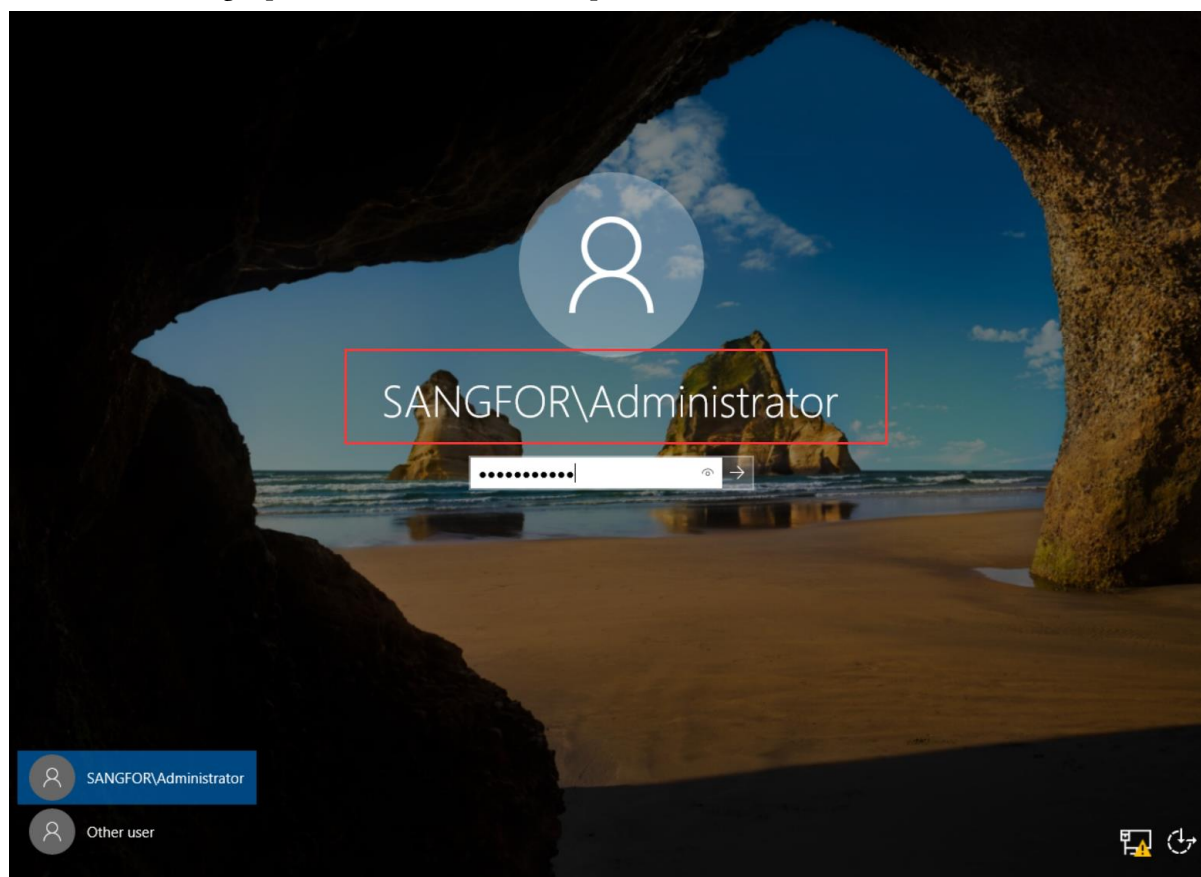


9. After the installation is complete, Windows Server will automatically restart.



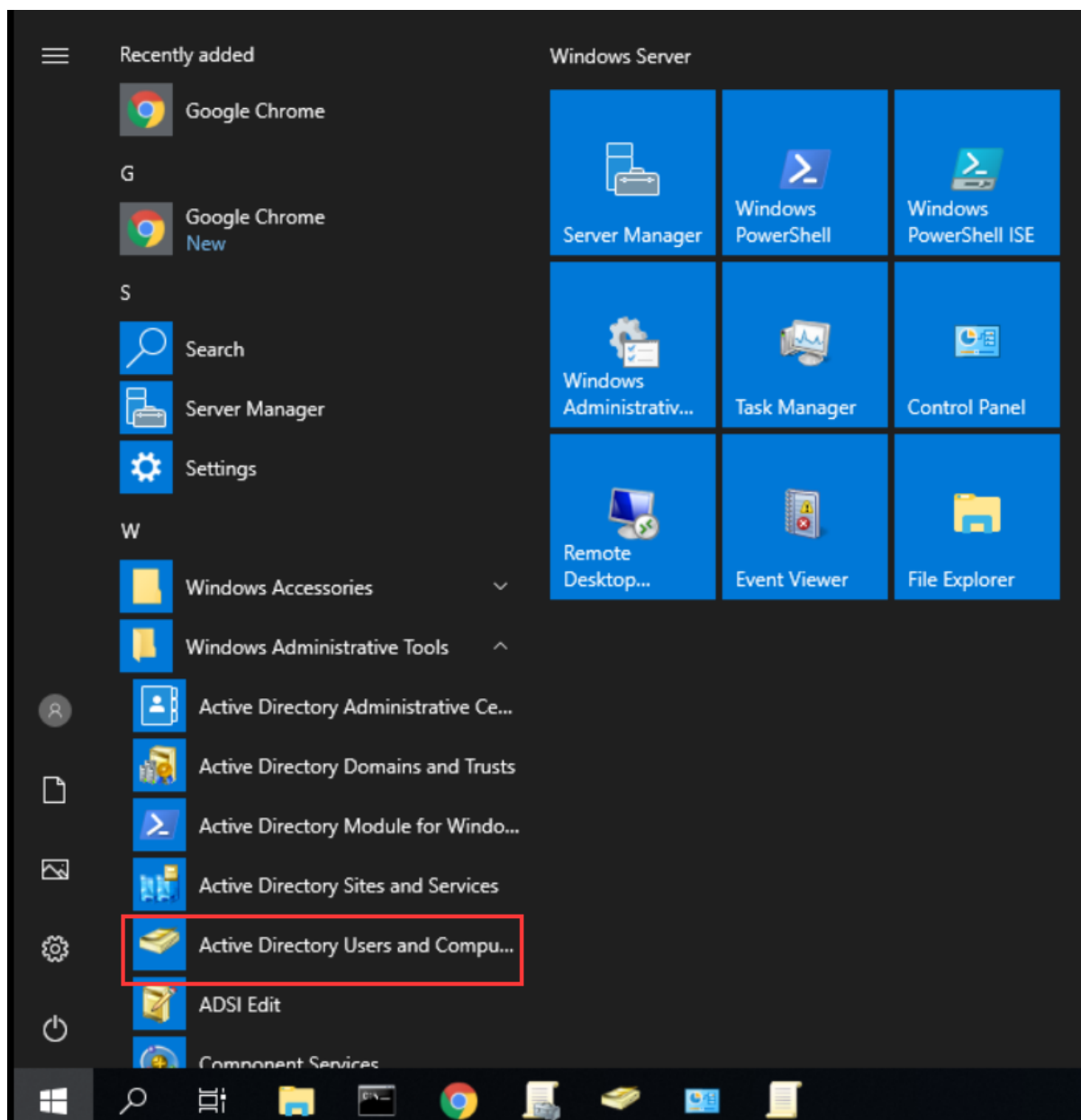
10. After the Windows Server restarts, you can see on the login page that the default local administrator

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.



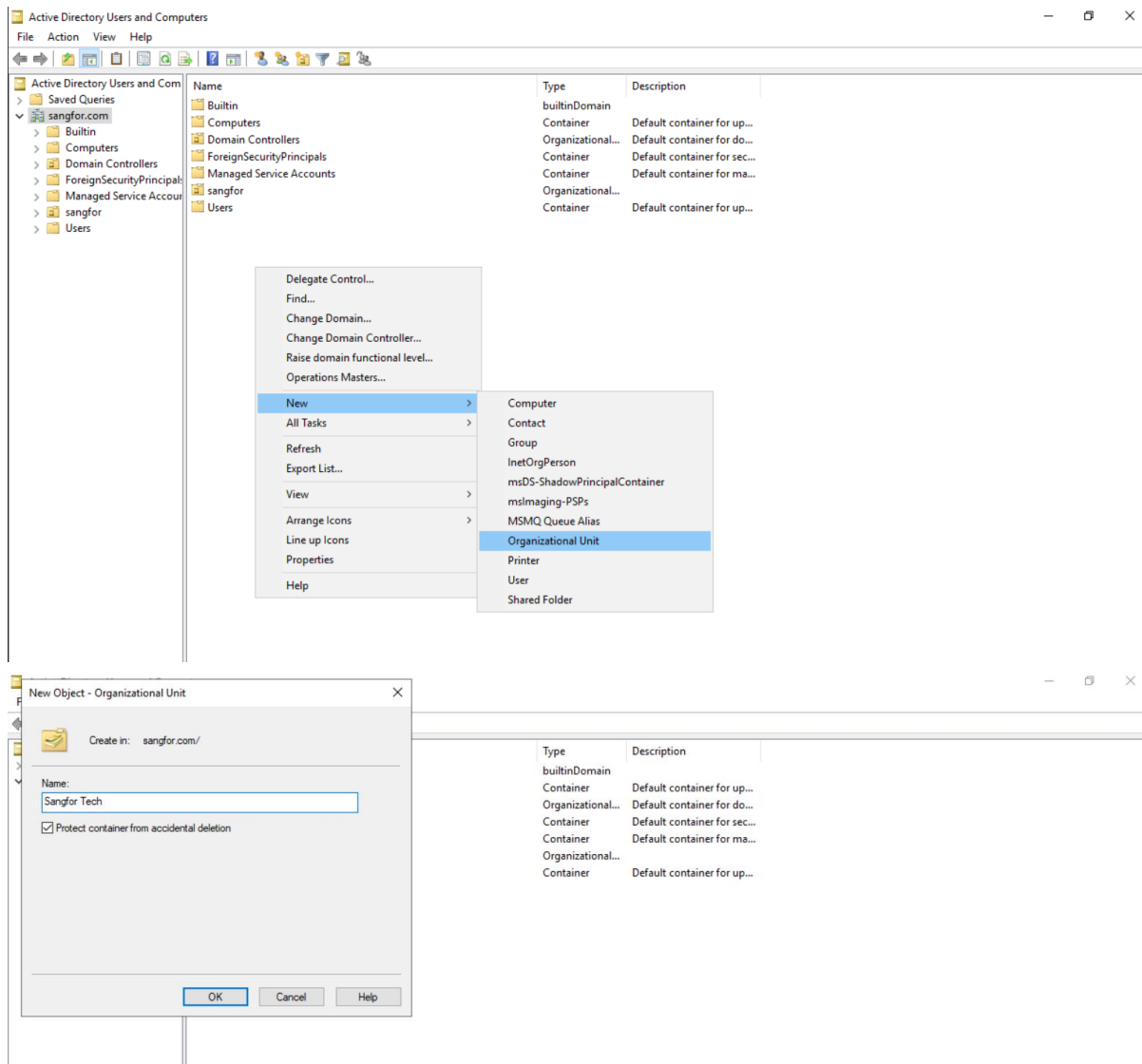
## 2.3 Create usernames and passwords for other users in the domain

1. Open "Active Directory Users and Computers".

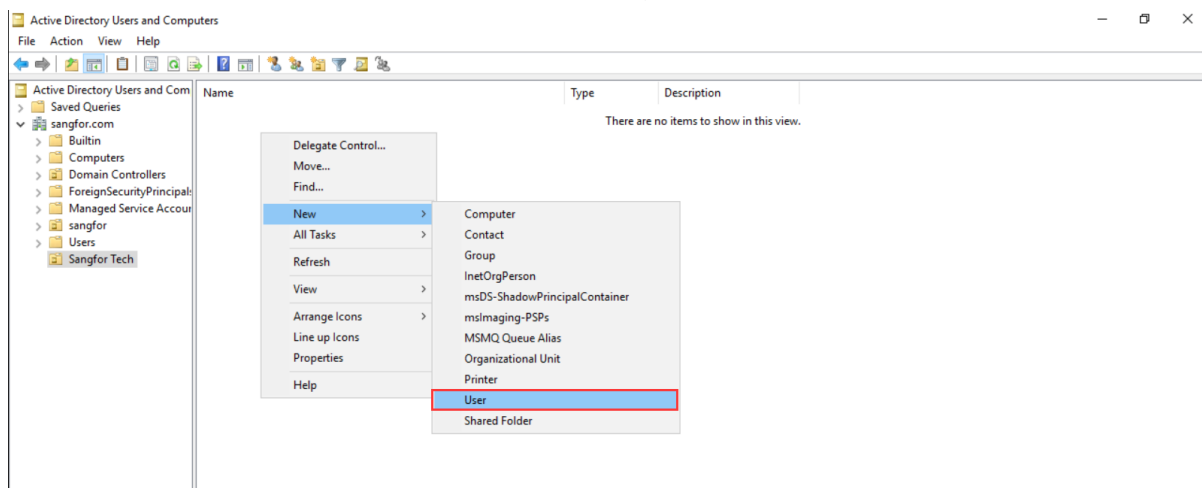


2. In order to facilitate the management of users according to the company's organizational structure, a logical container is created here to represent a department. For example, create a department called Sangfor Tech.

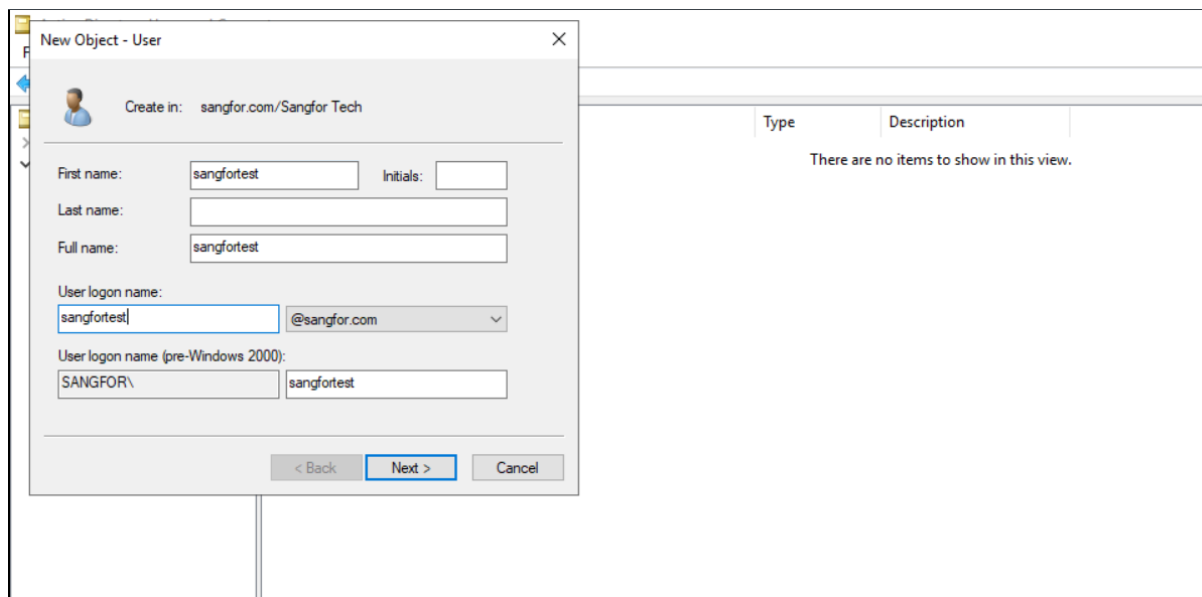
### Activity Domain Script SSO



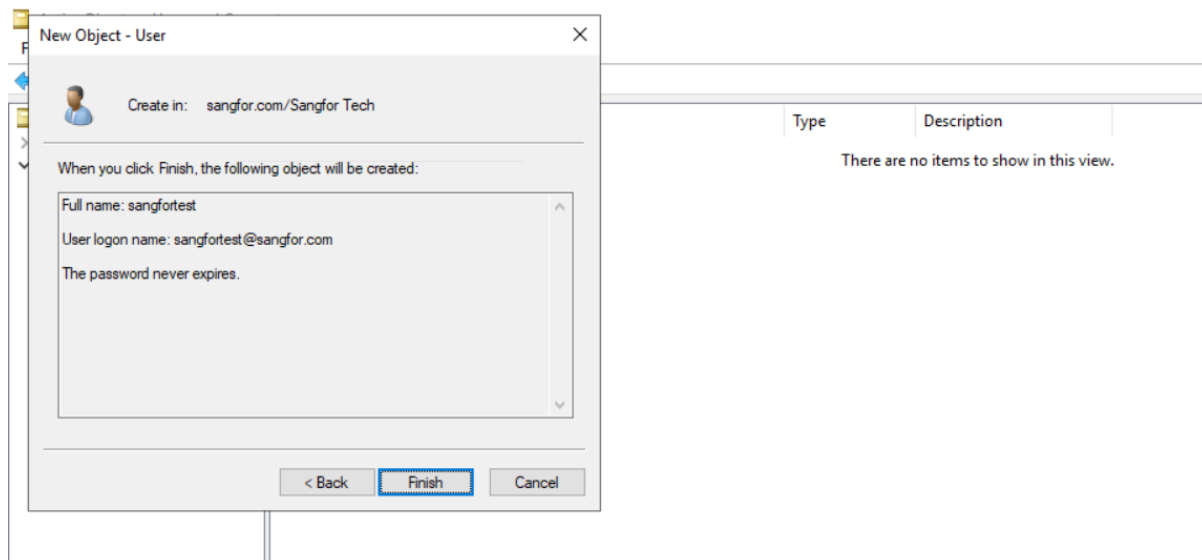
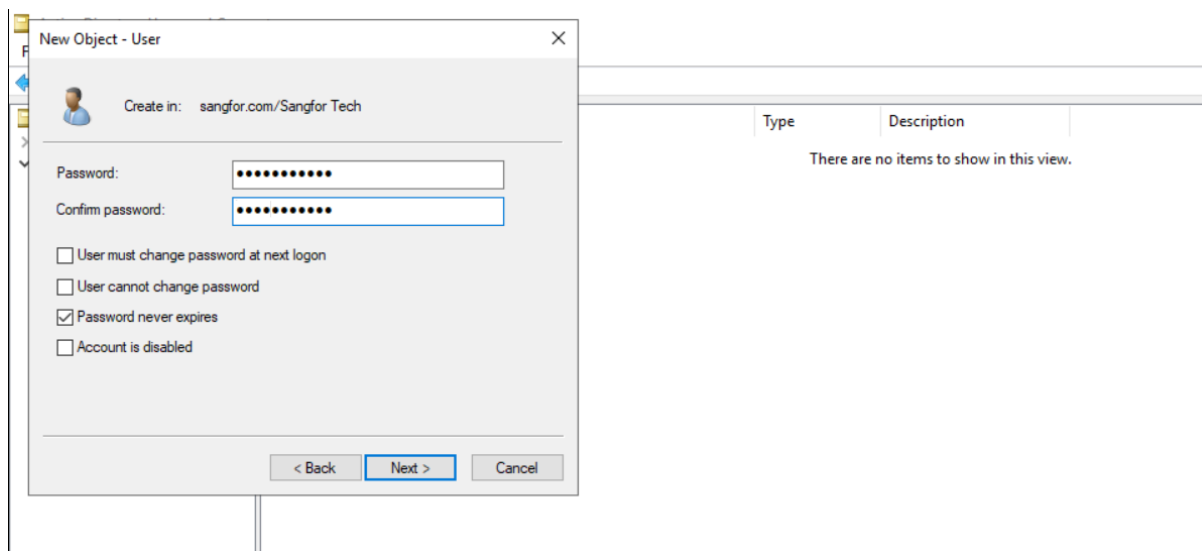
3. Create a user in the container, for example called sangfortest.



# Activity Domain Script SSO

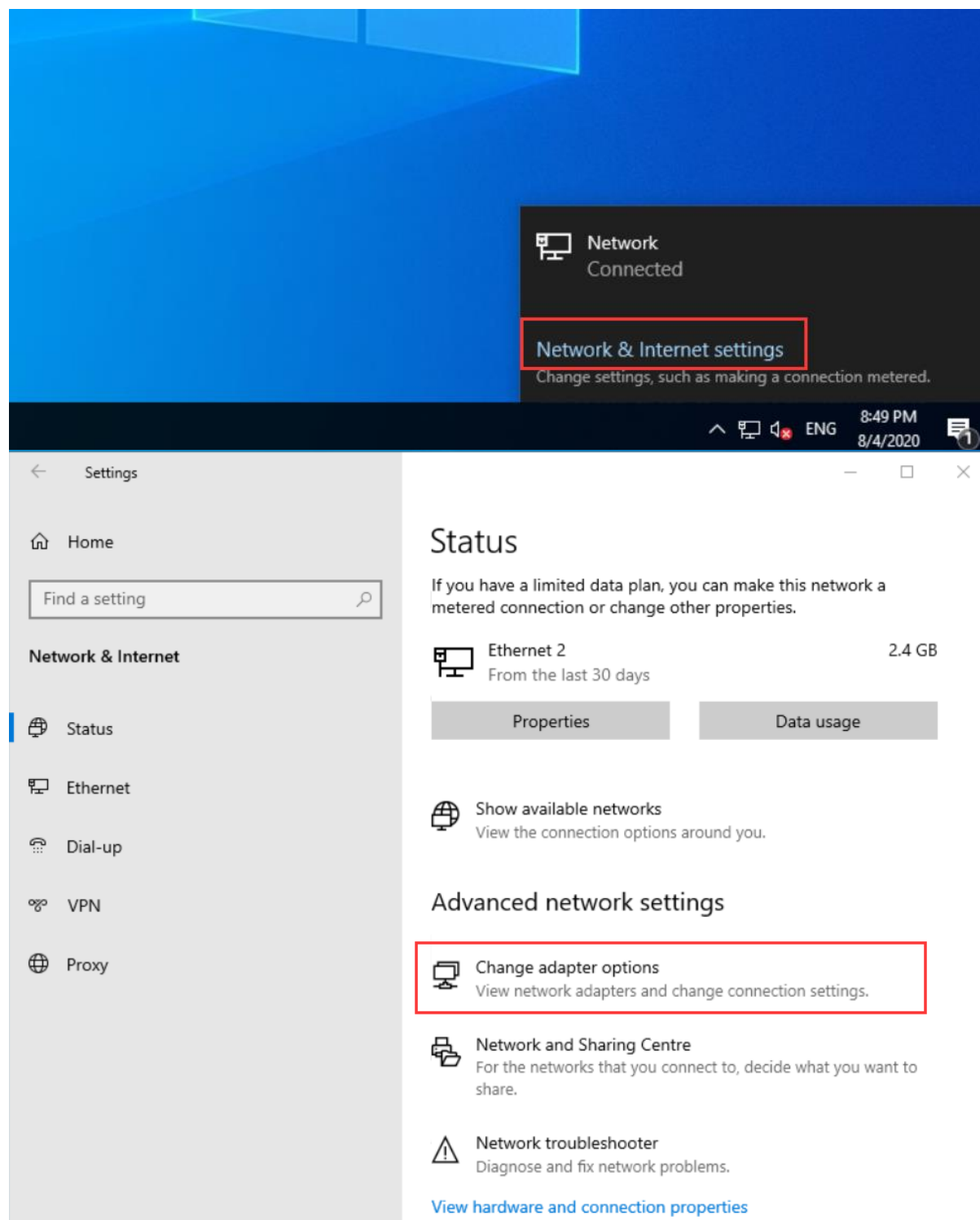


Set a login password for this user.

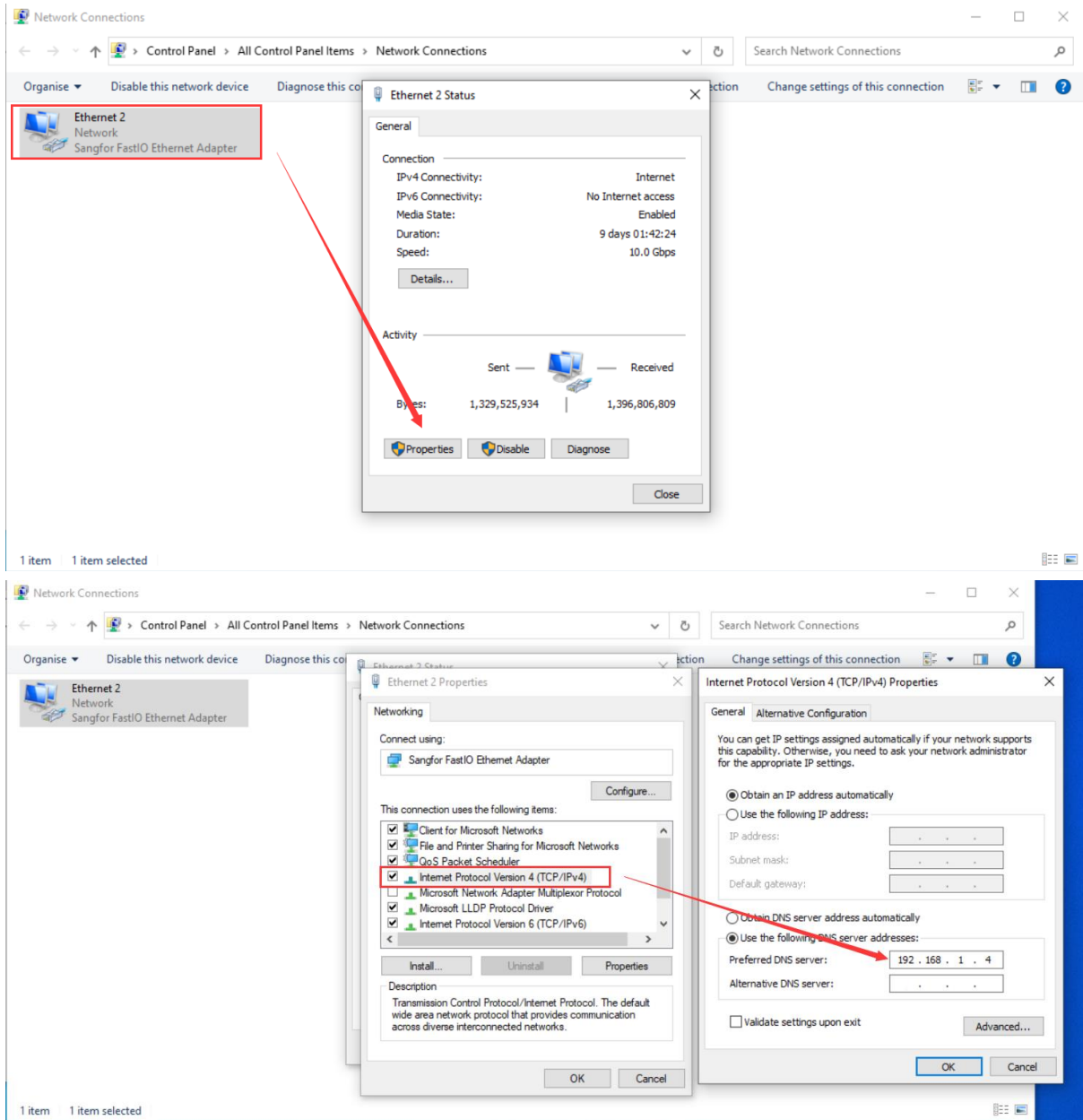


## 2.4 Join the PC to the domain

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

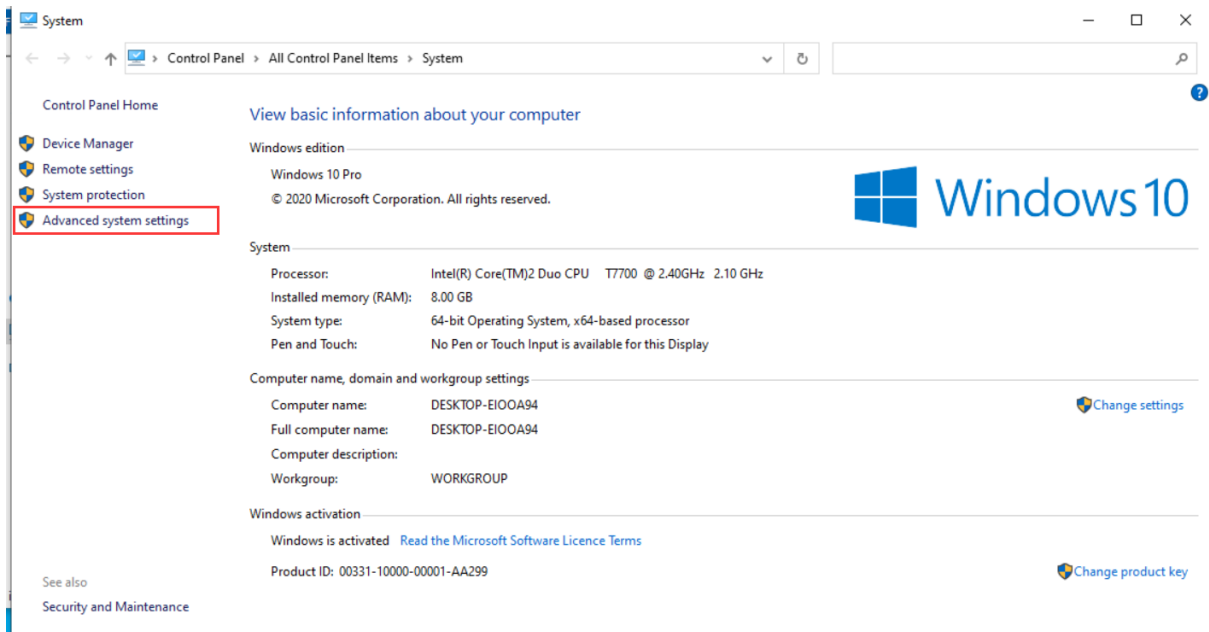
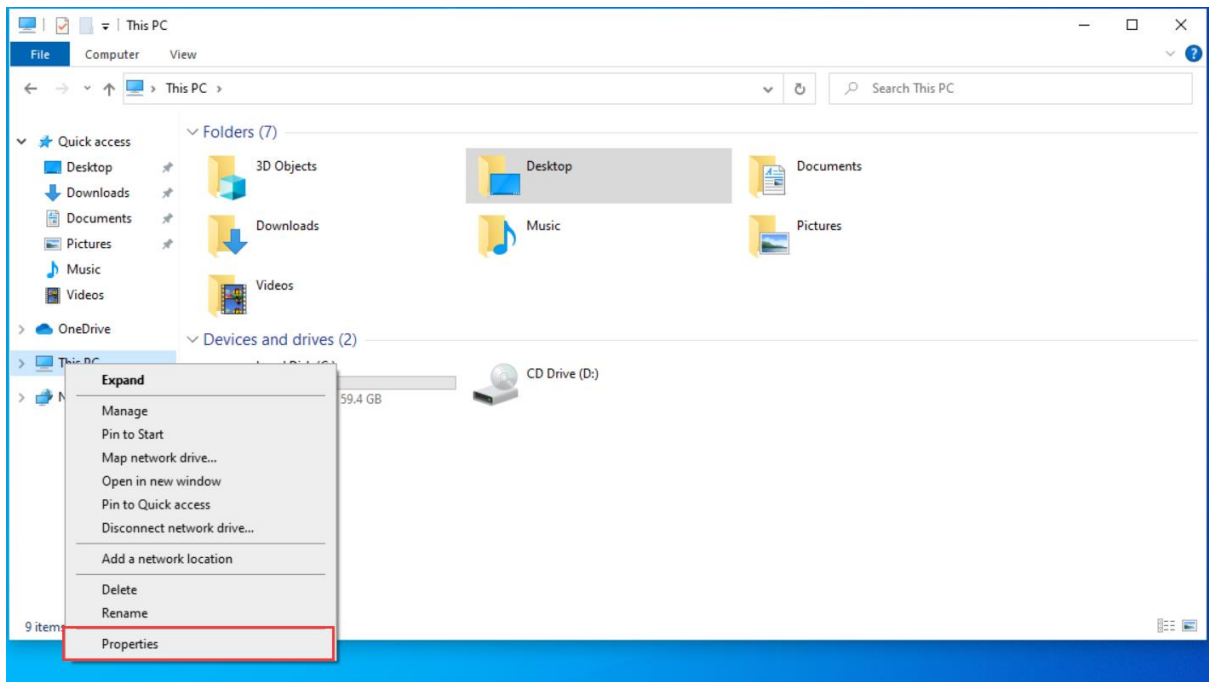


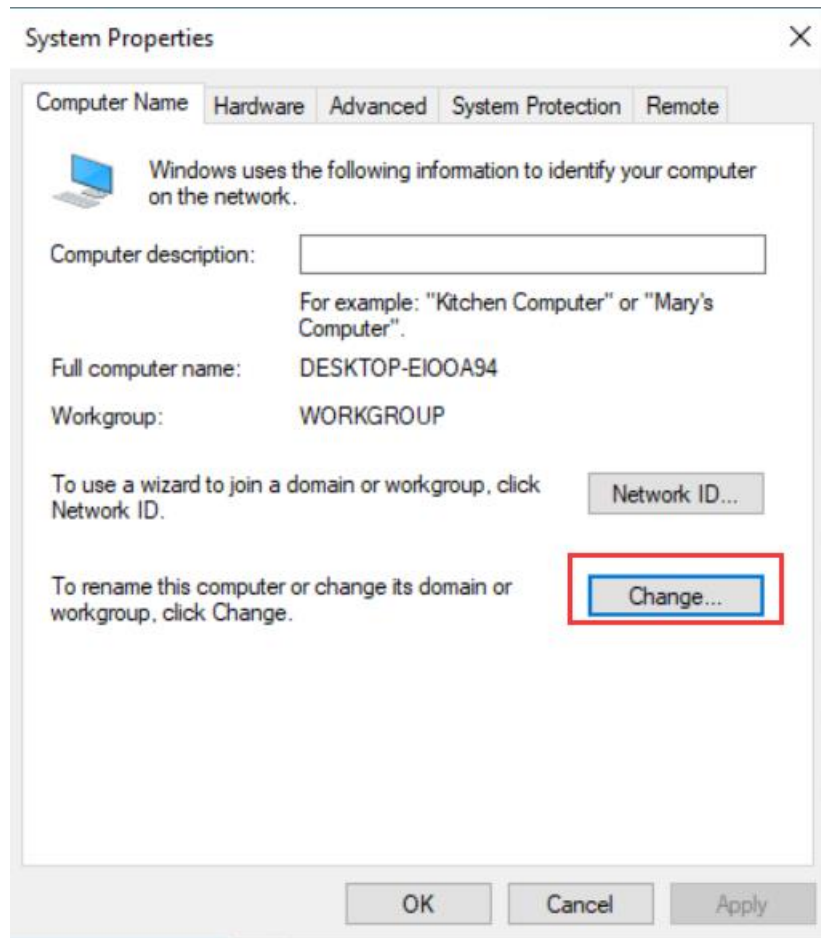
## Activity Domain Script SSO

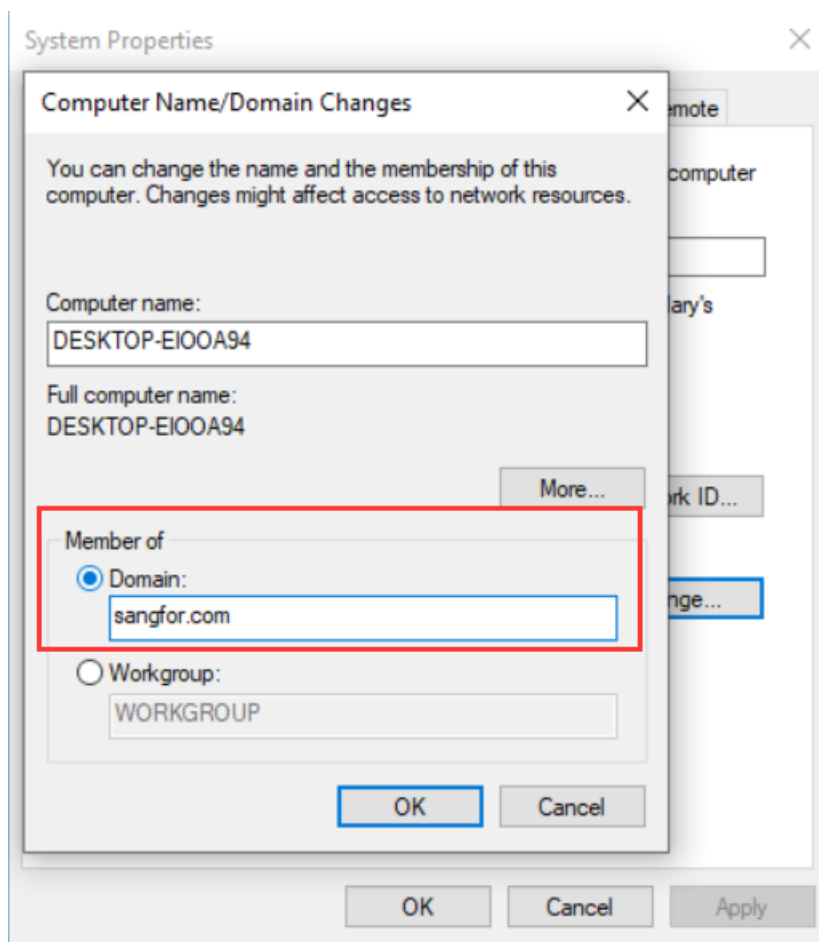


2. Join the PC to the domain.

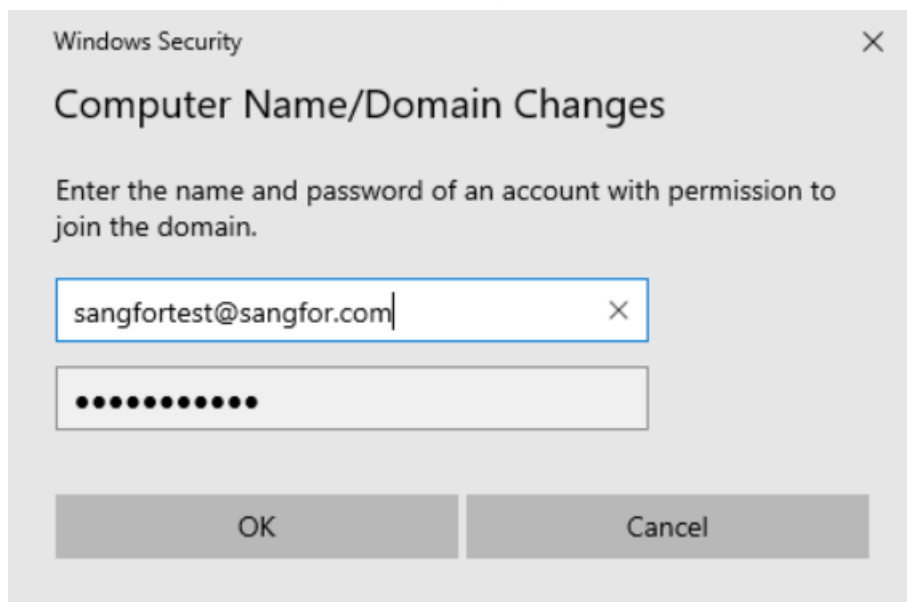
# Activity Domain Script SSO





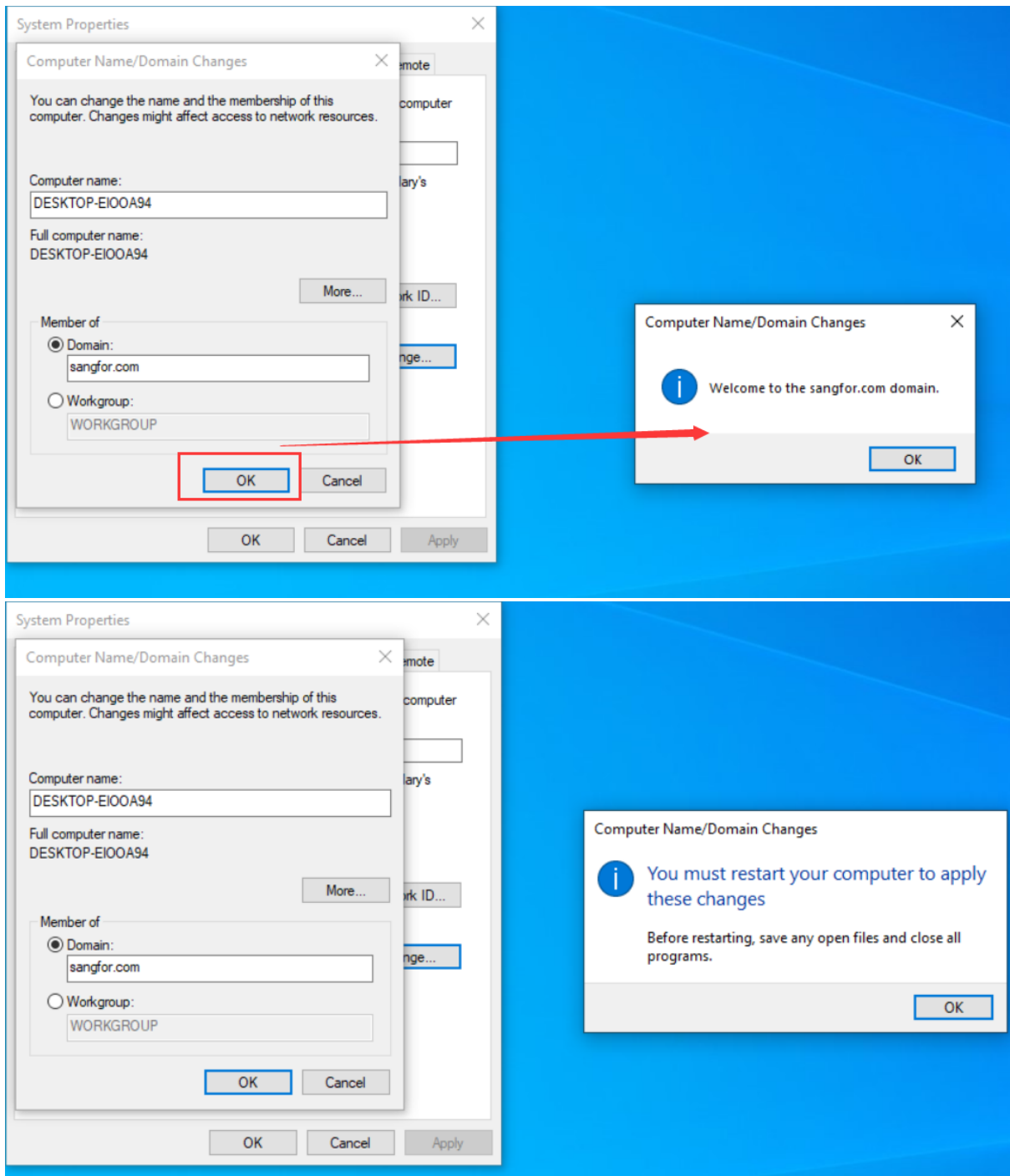


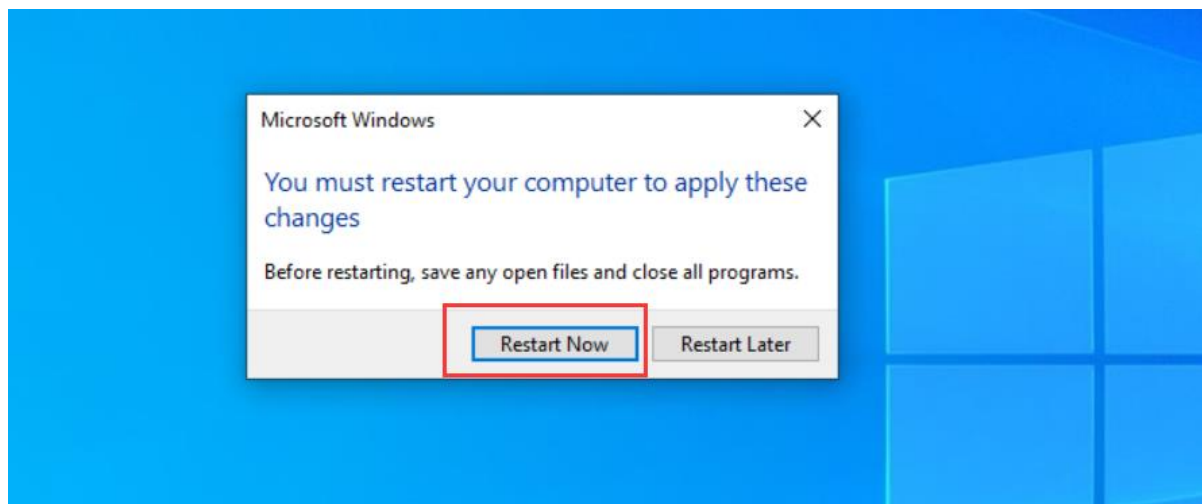
3. In the process of joining the domain, you need to verify your identity, just use the sangfortest user created on the AD domain control 192.168.1.4 for testing.



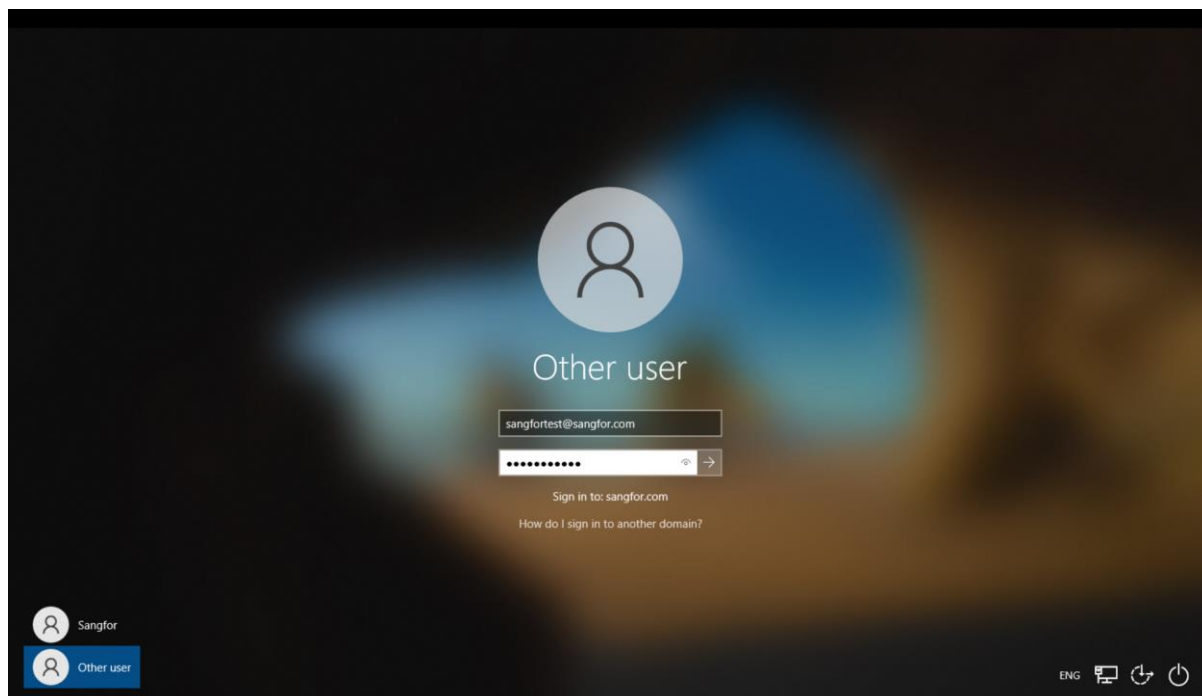
4. After successfully joining the domain, you need to restart the PC.

# Activity Domain Script SSO





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

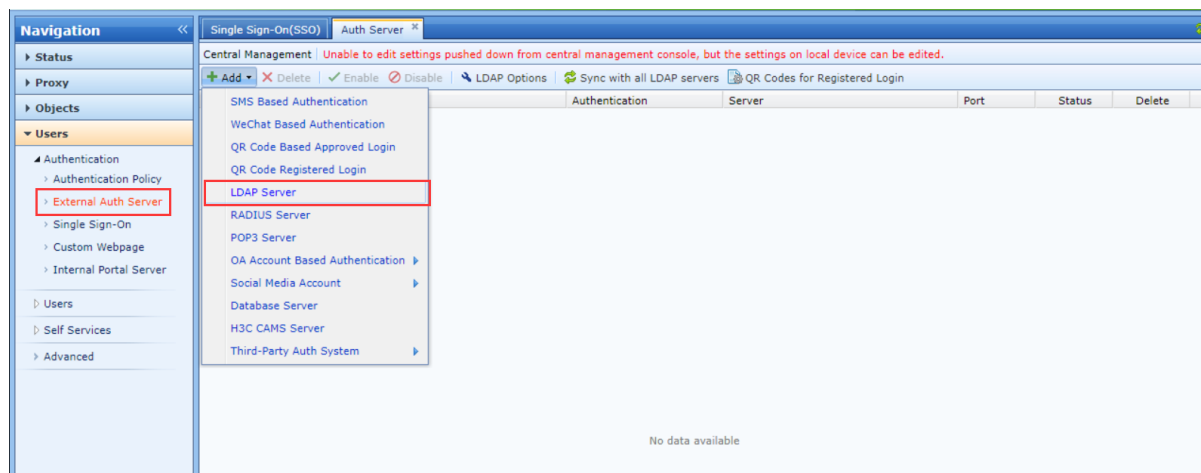


## Chapter 3 How to Configure IAM

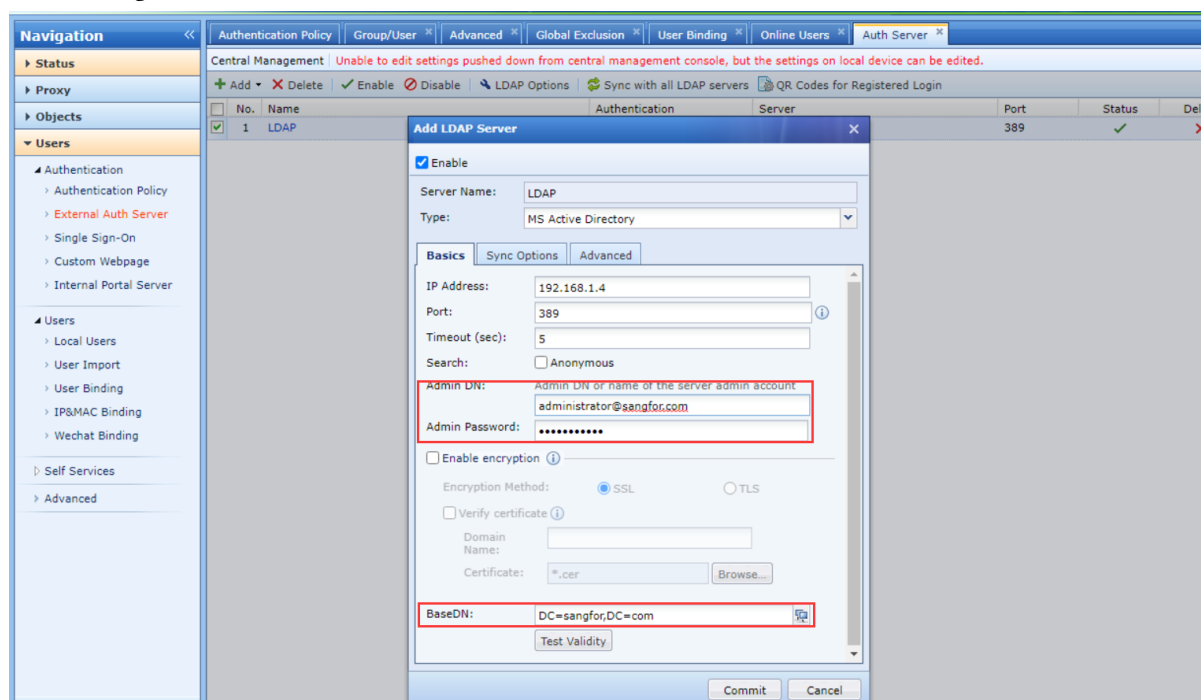
### 3.1 Add LDAP server

1. Add Microsoft AD server on IAM.

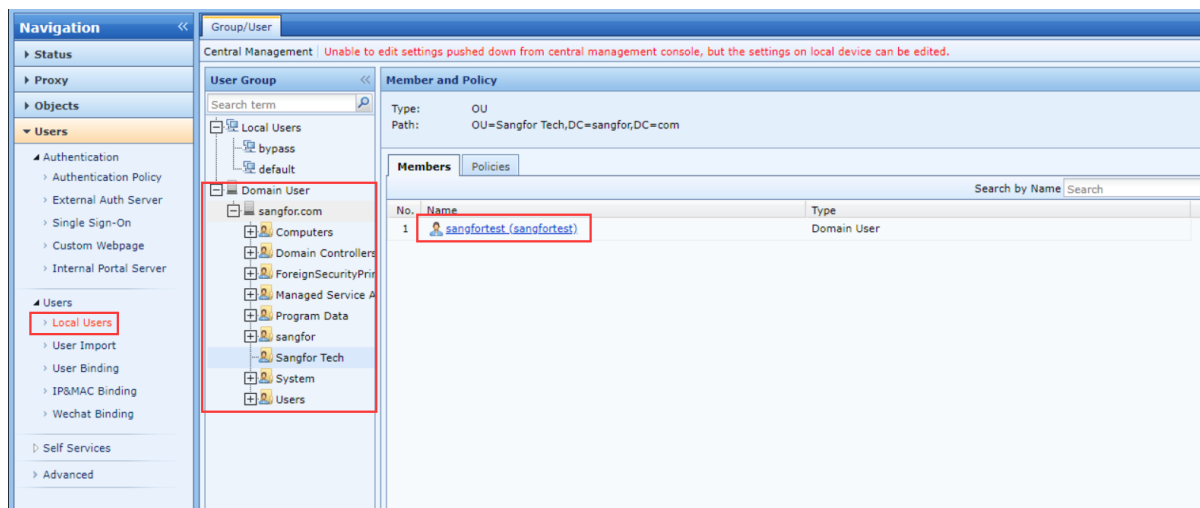
## Activity Domain Script SSO



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.

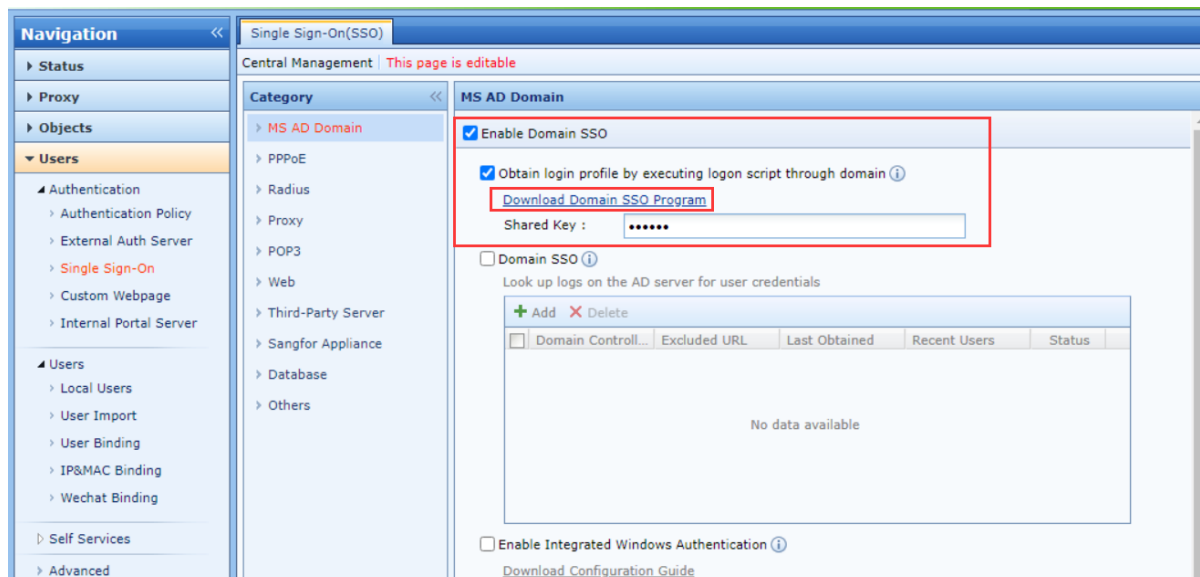


3. If IAM and AD can interact normally, then in the local user, you can see that IAM has obtained the domain user information of the AD server, including the sangfortest user we created before.

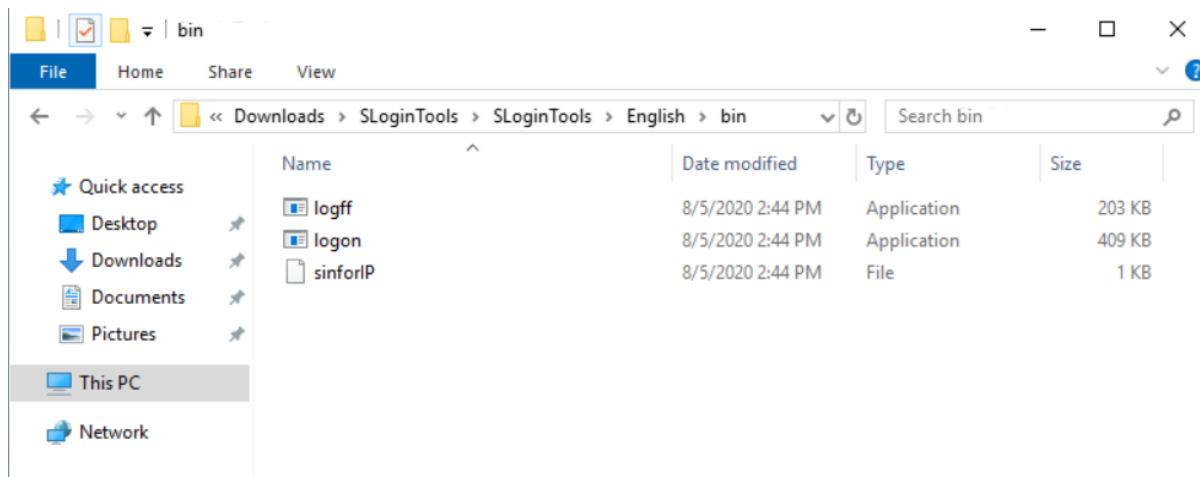


### 3.2 Configure script SSO on IAM and AD Server

1. Turn on "Domain SSO" and turn on script SSO. Here you need to configure a shared secret key for authentication, for example, it is set to 123456.

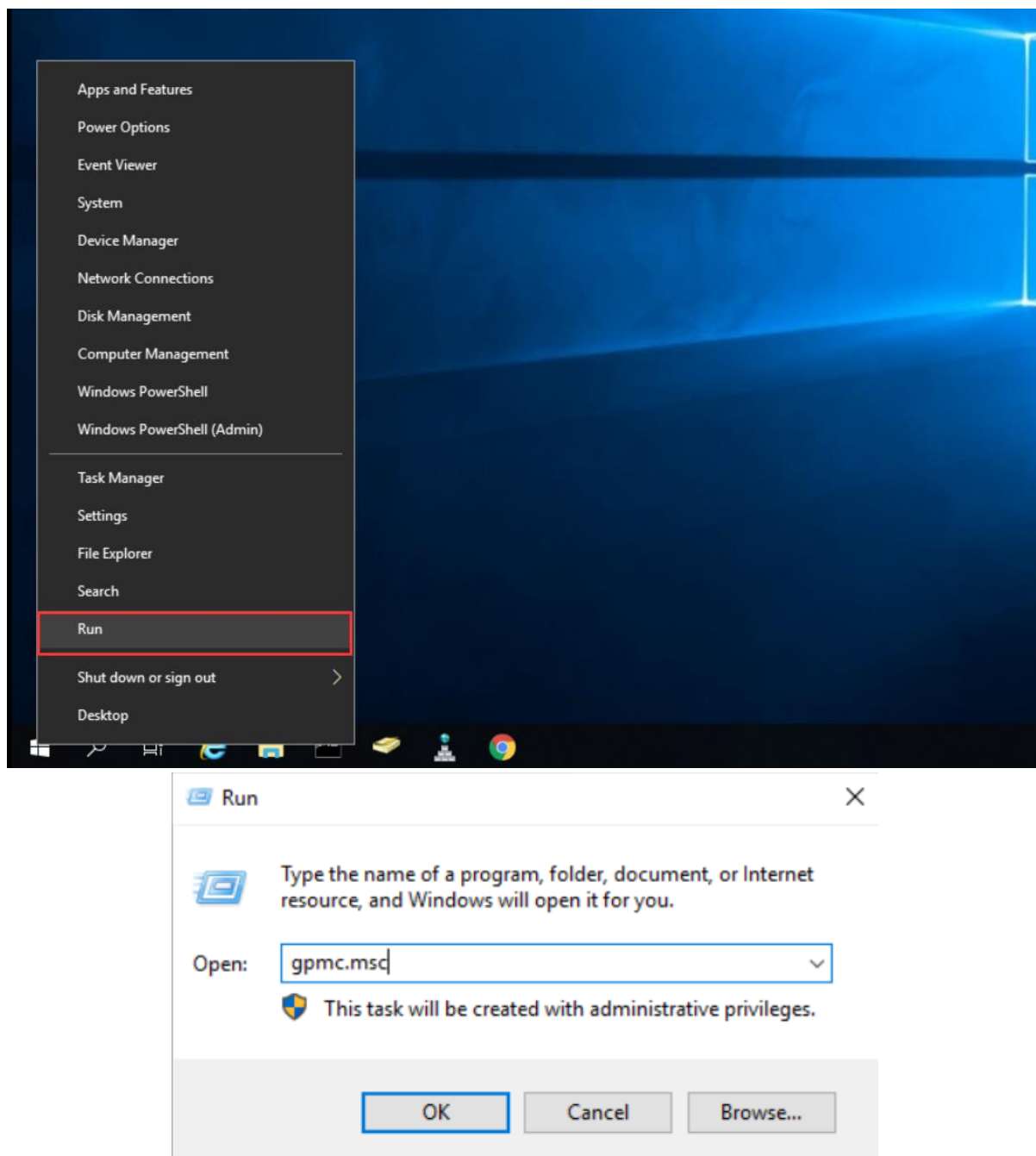


2. Download the program from the page, including the login script and logout script.



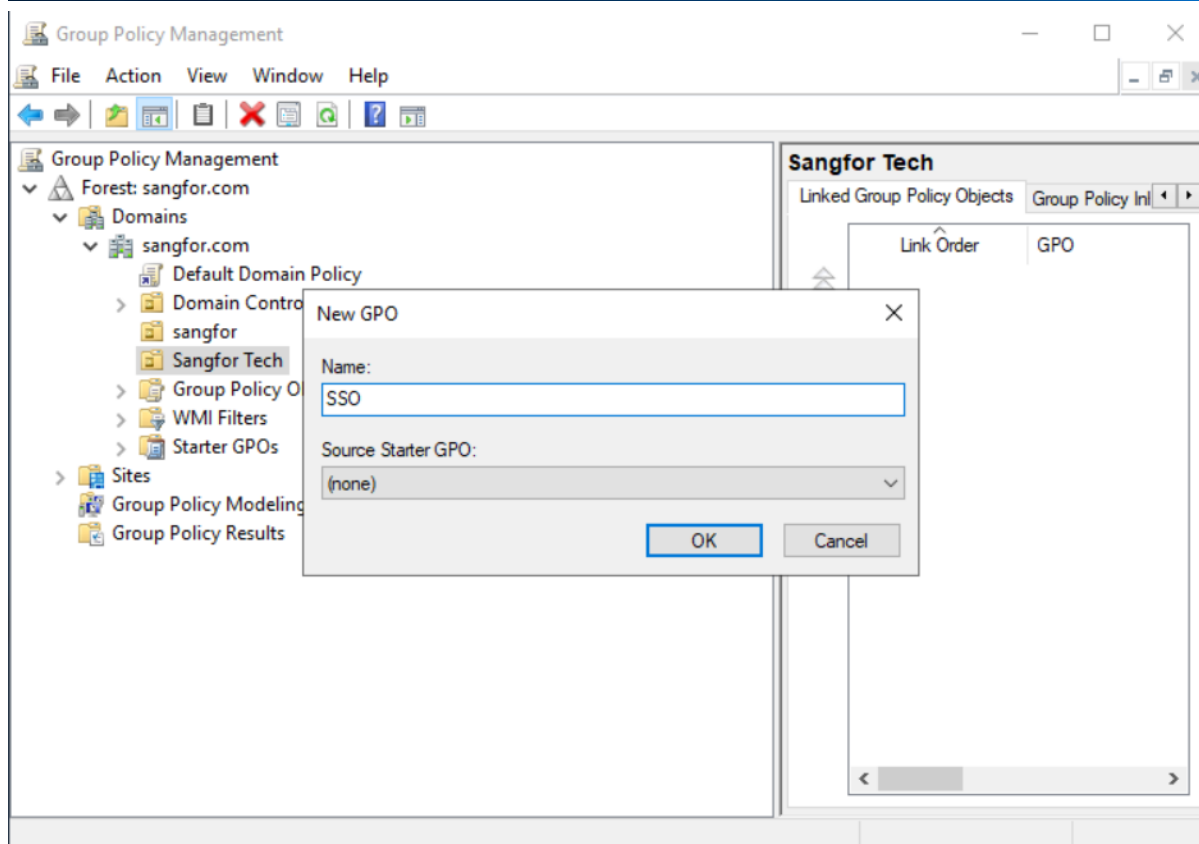
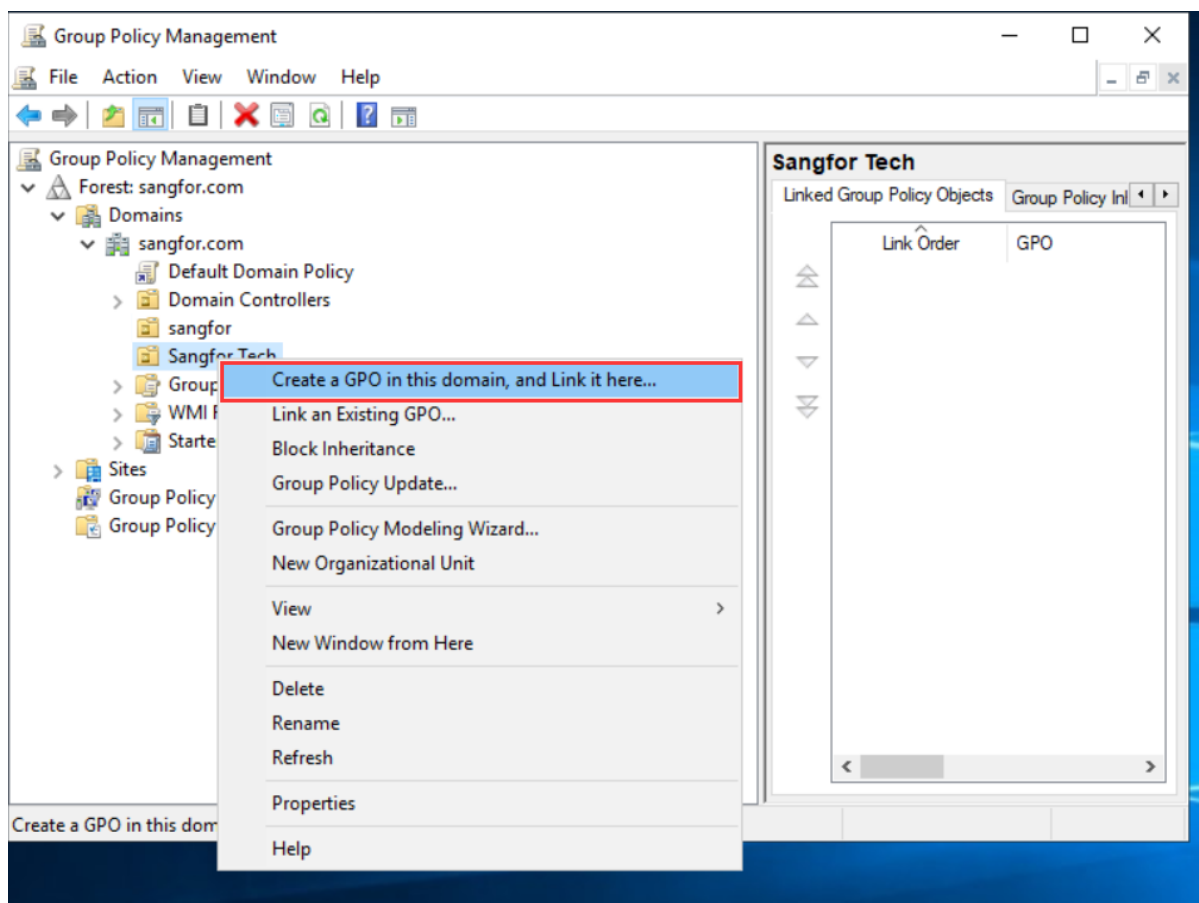
### 3.3 Configure the login and logout script on the AD server

1. Open "Group Policy Management" in "Run".



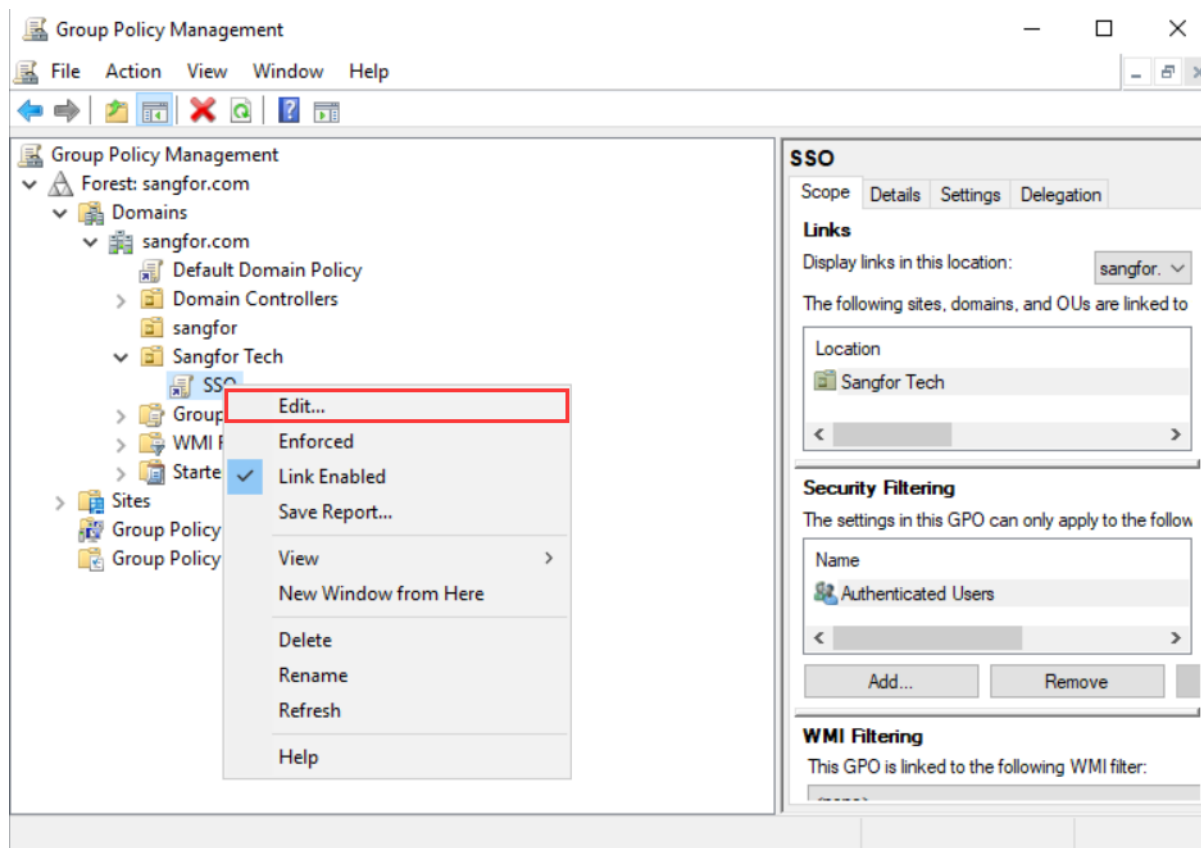
2. Create a GPO for the newly created Sangfor Tech container, and create a name for the GPO.

Activity Domain Script SSO

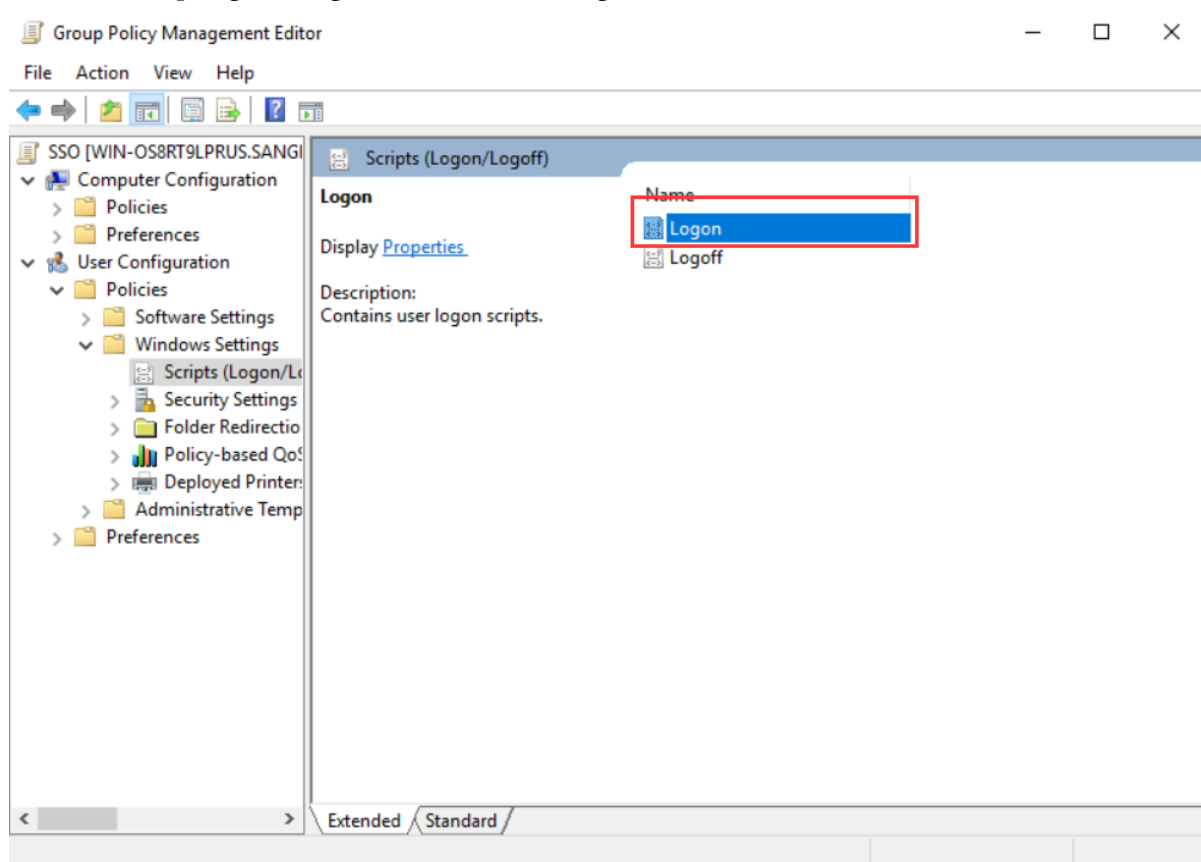


3. Use the right mouse button to select Edit GPO.

## Activity Domain Script SSO

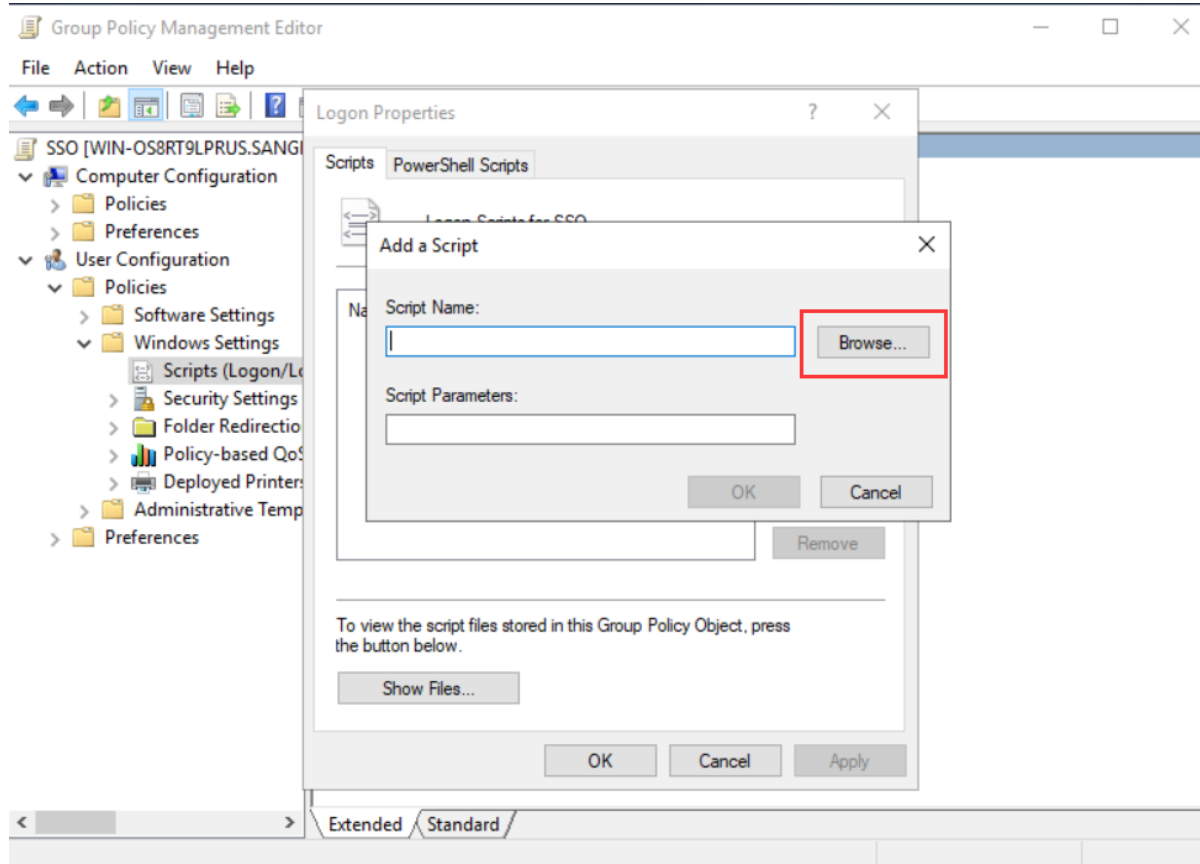
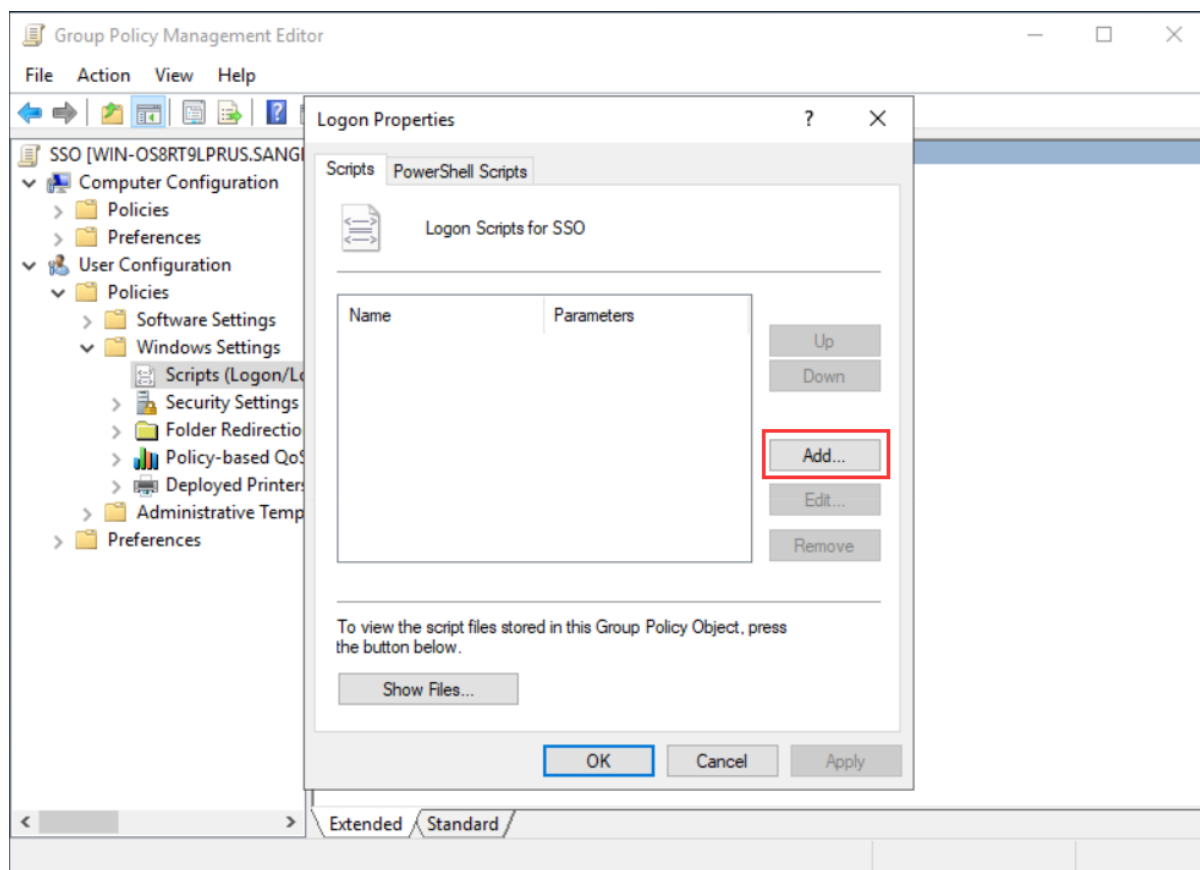


4. Find the script login configuration in "User Configuration".

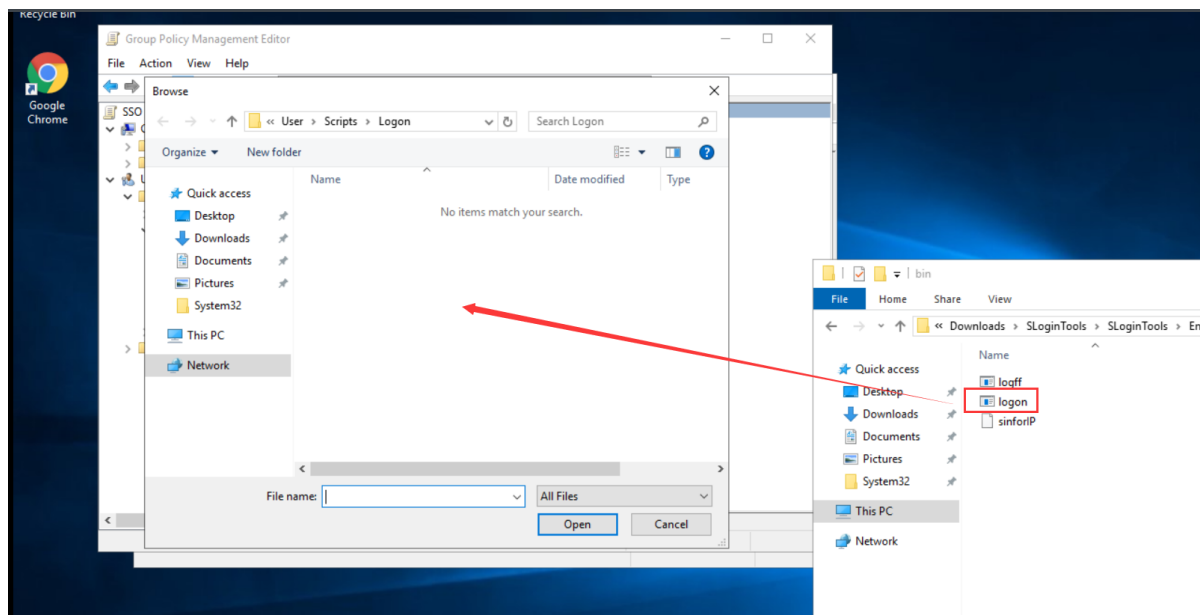


5. Select the Logon script, click "Add", and then select "Browse" to copy the login script we downloaded from the IAM page to the specified path.

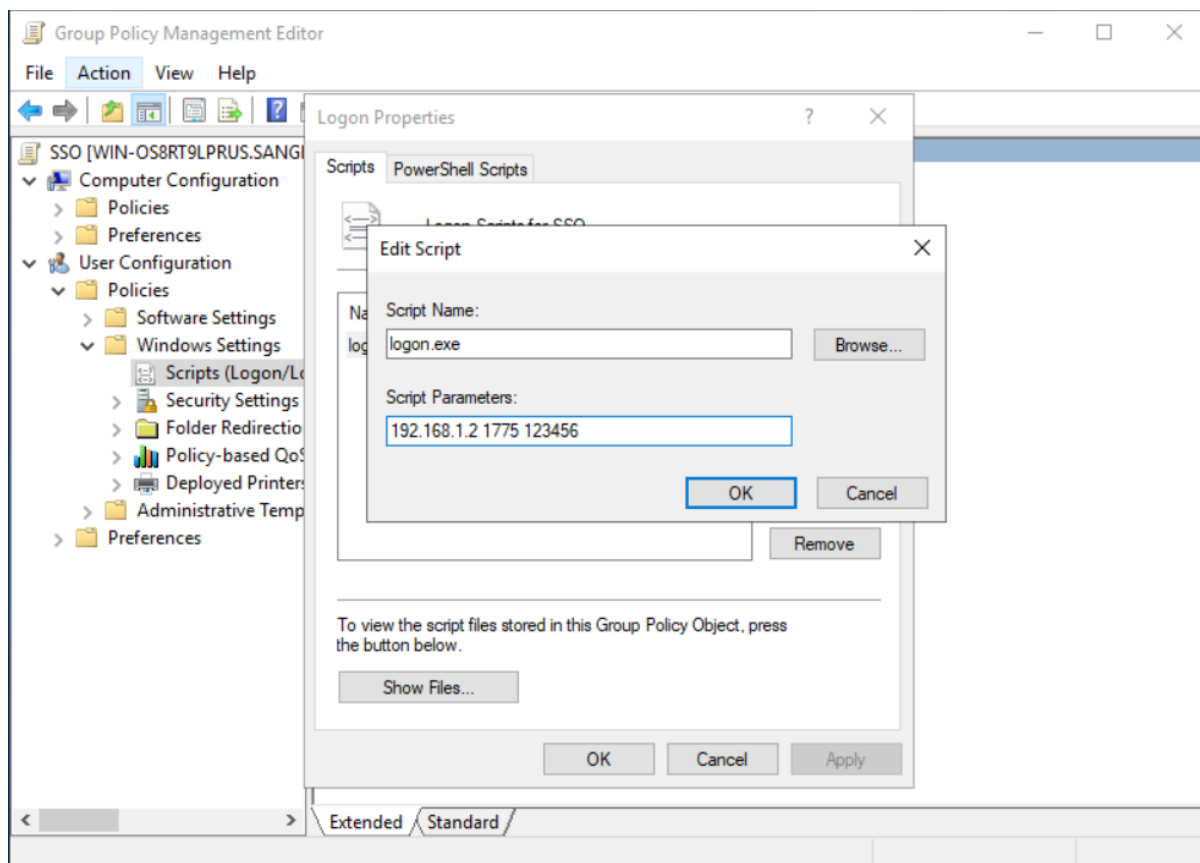
# Activity Domain Script SSO



## Activity Domain Script SSO

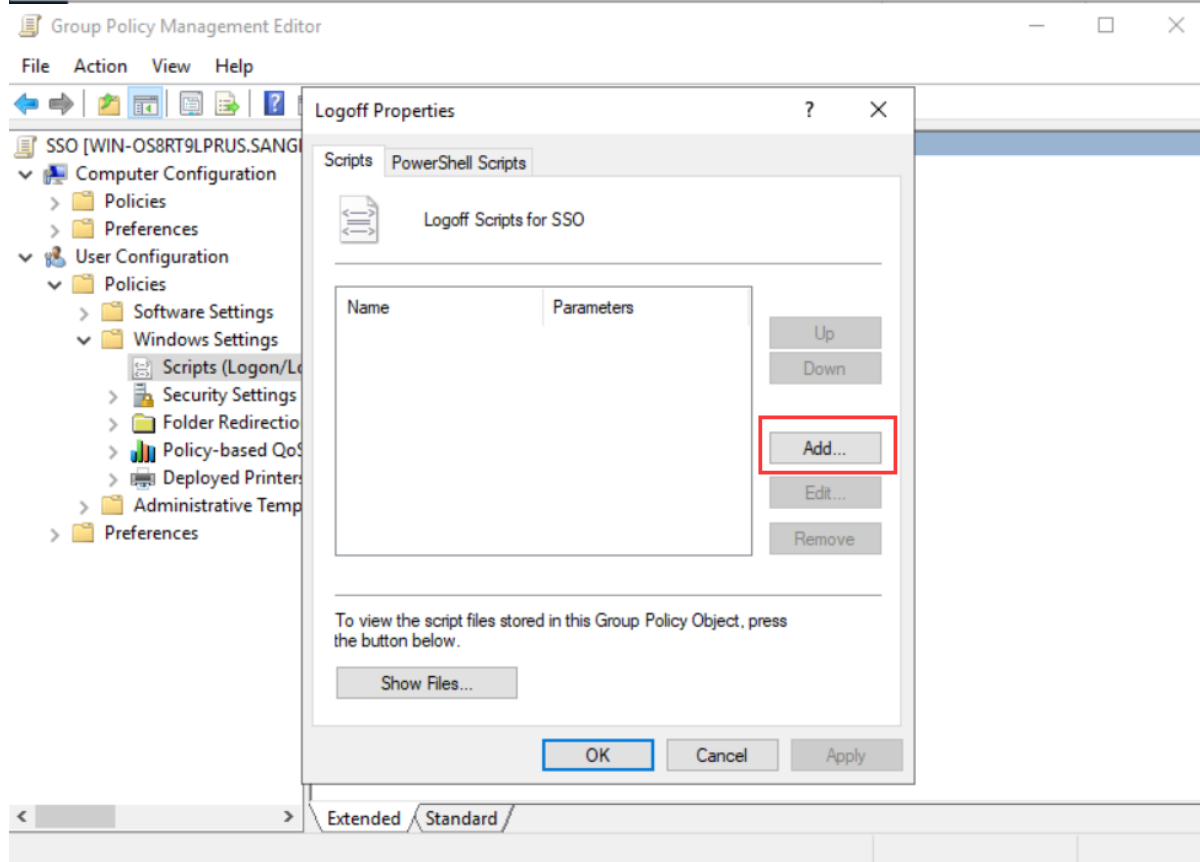
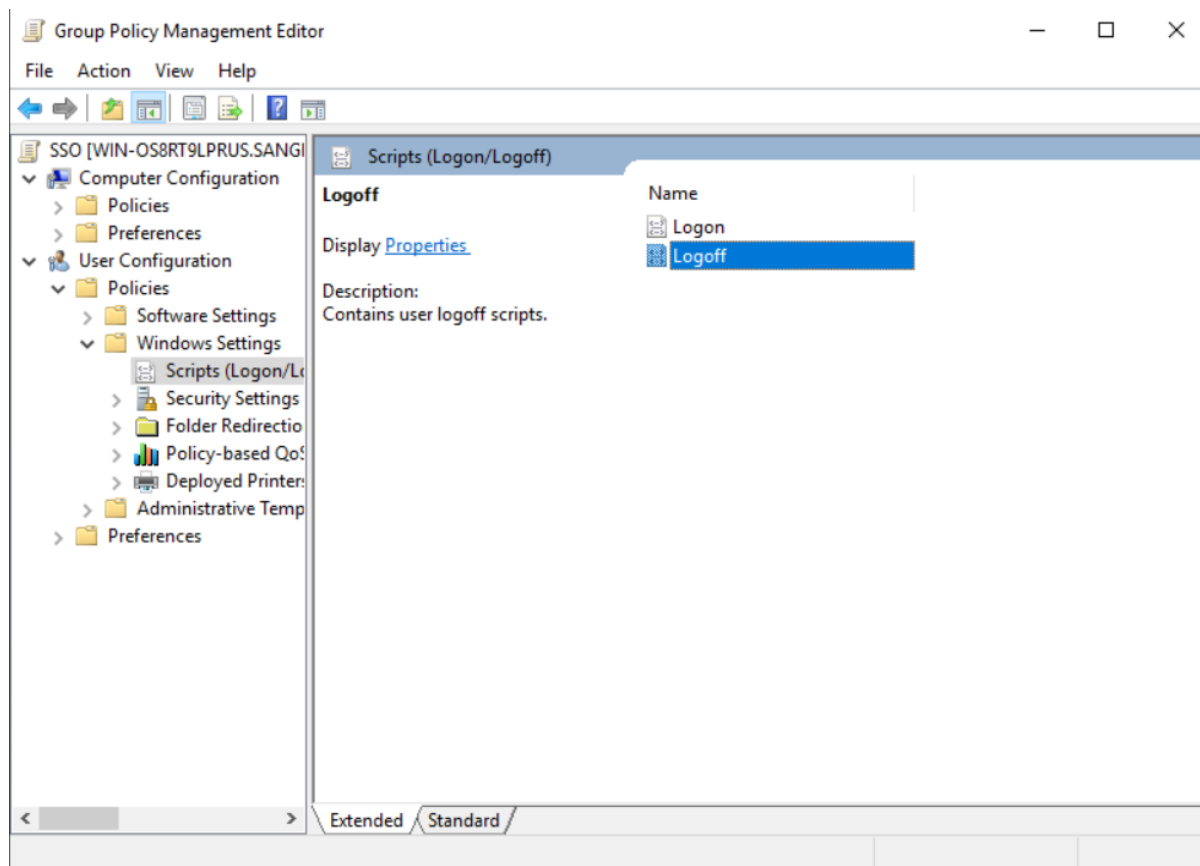


5. Set the parameters of the script single sign-on, first write the IAM address 192.168.1.2 and then fill in the port 1775, IAM uses the UDP1775 port to accept the authentication information actively transmitted by the PC, and fill in the shared secret key 123456 that we configured on the IAM page.

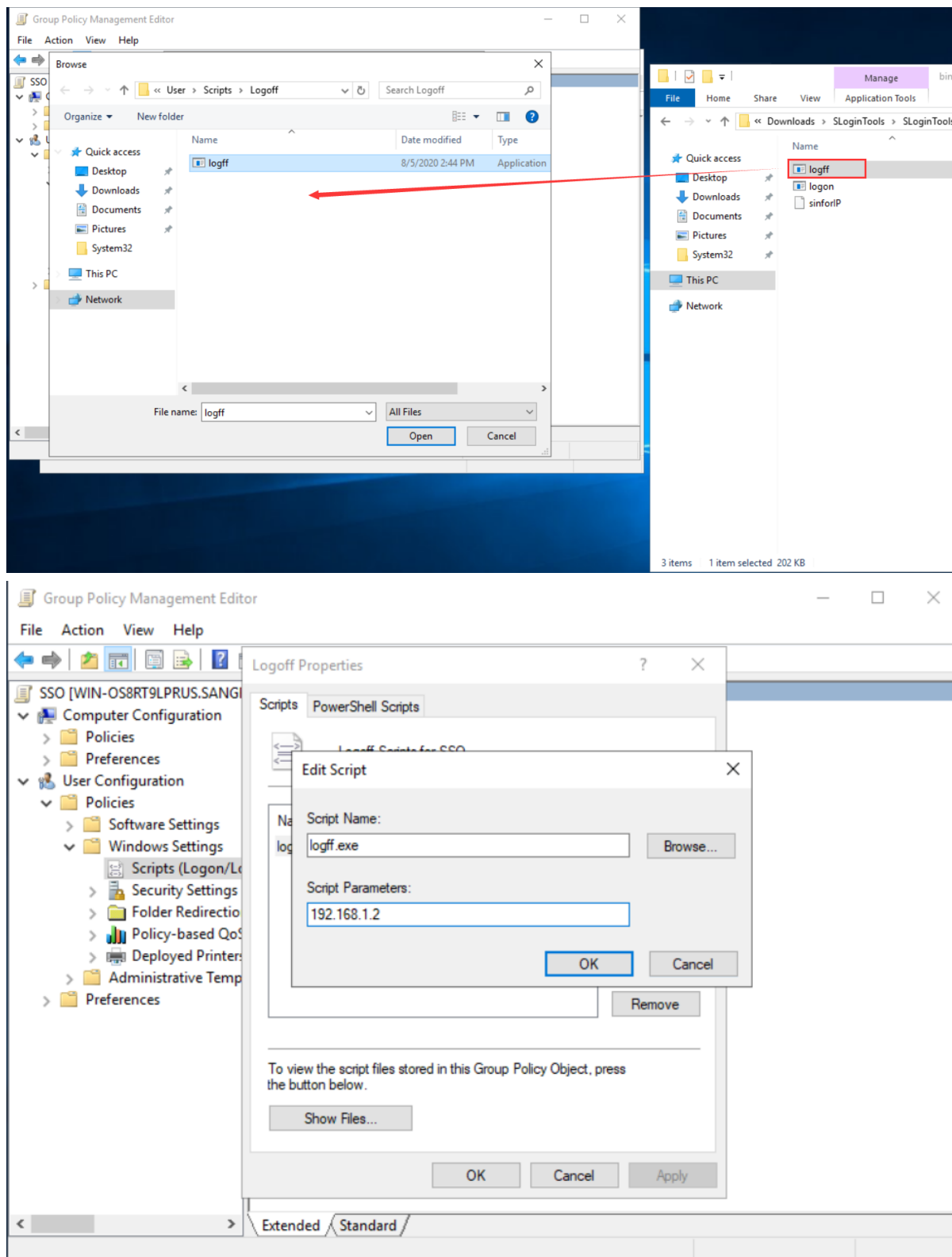


6. For the Logoff script, also copy the Logoff program we downloaded from the IAM page to the specified path, and fill in the script parameter as IAM's IP192.168.1.2.

Activity Domain Script SSO



## Activity Domain Script SSO

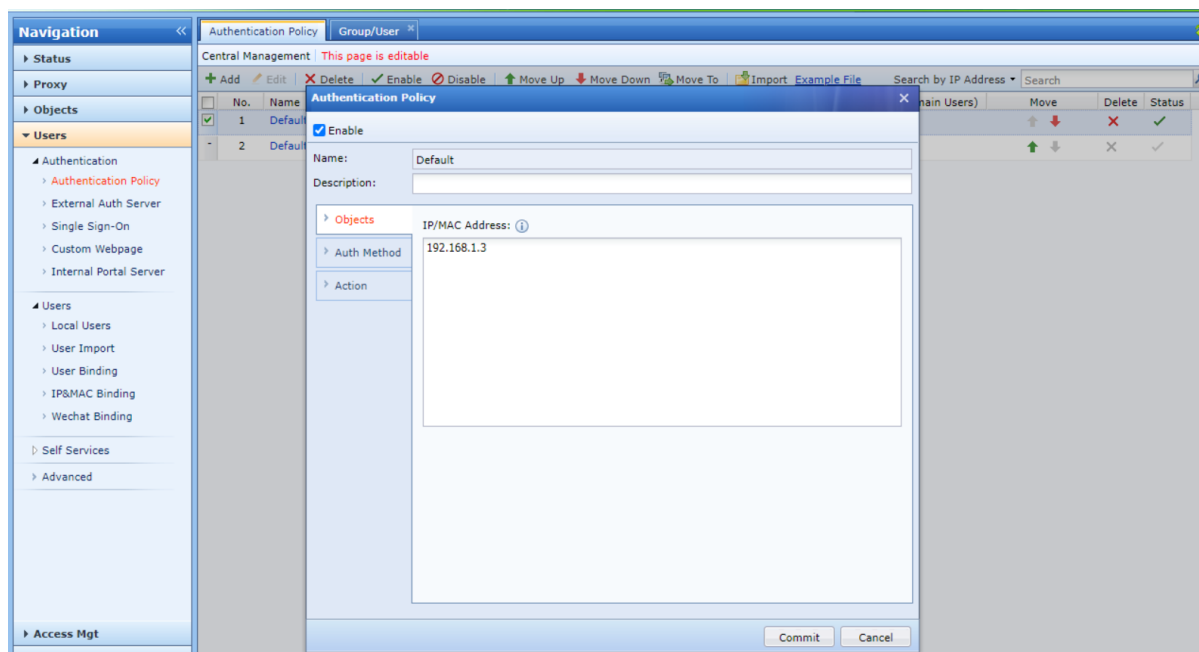


7. After modifying the AD domain server, use the gpupdate/force command to forcibly refresh all group policies.

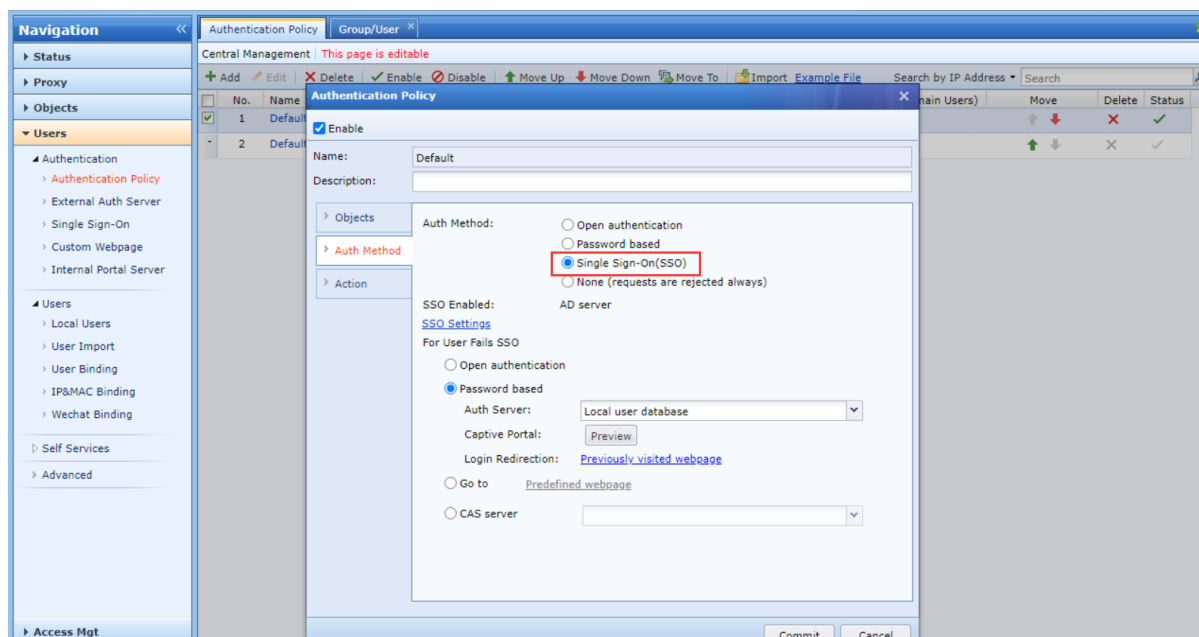


### 3.4 Configure authentication policy on IAM

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

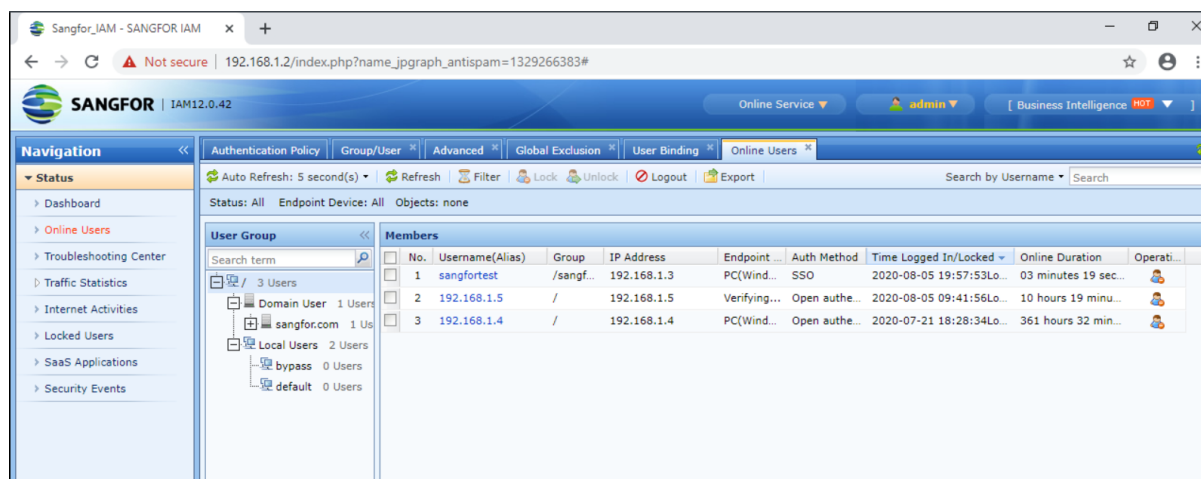


2. Select the authentication method as "SSO".



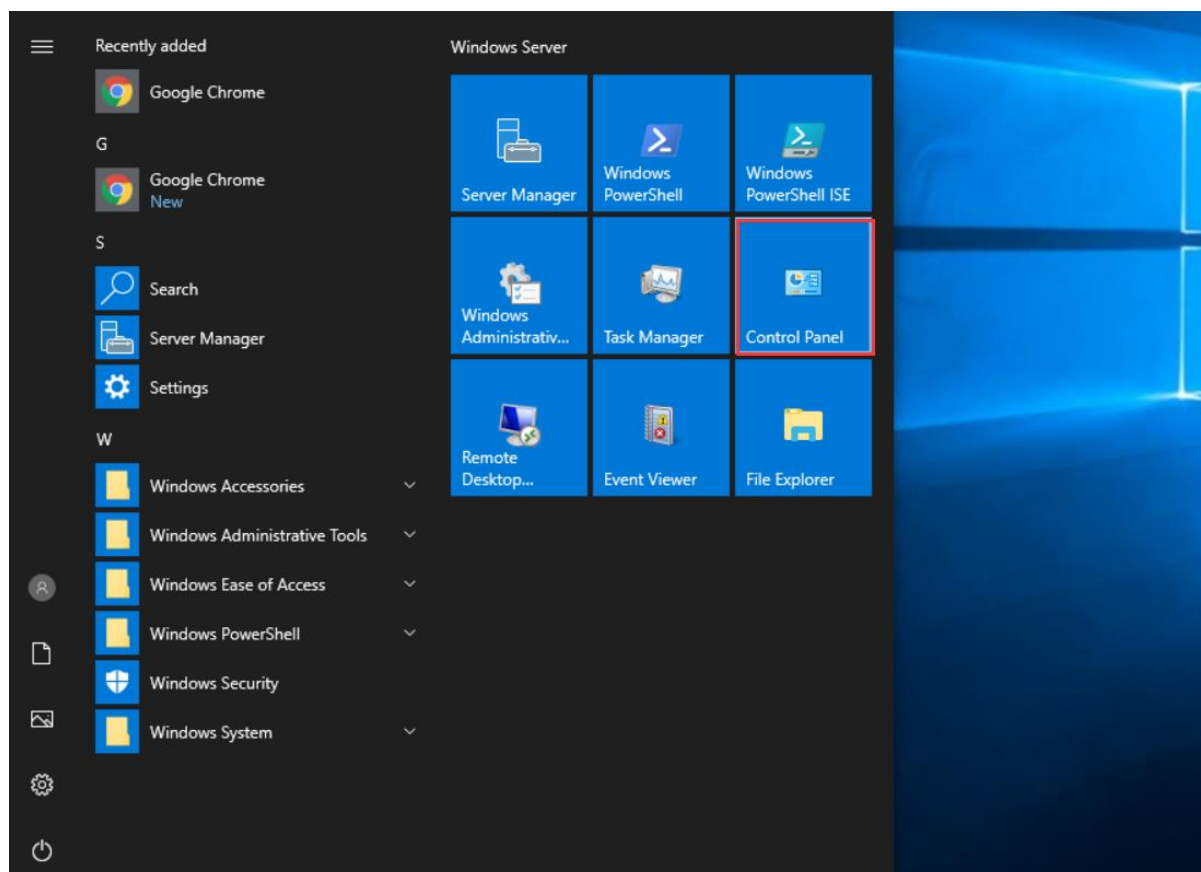
## Activity Domain Script SSO

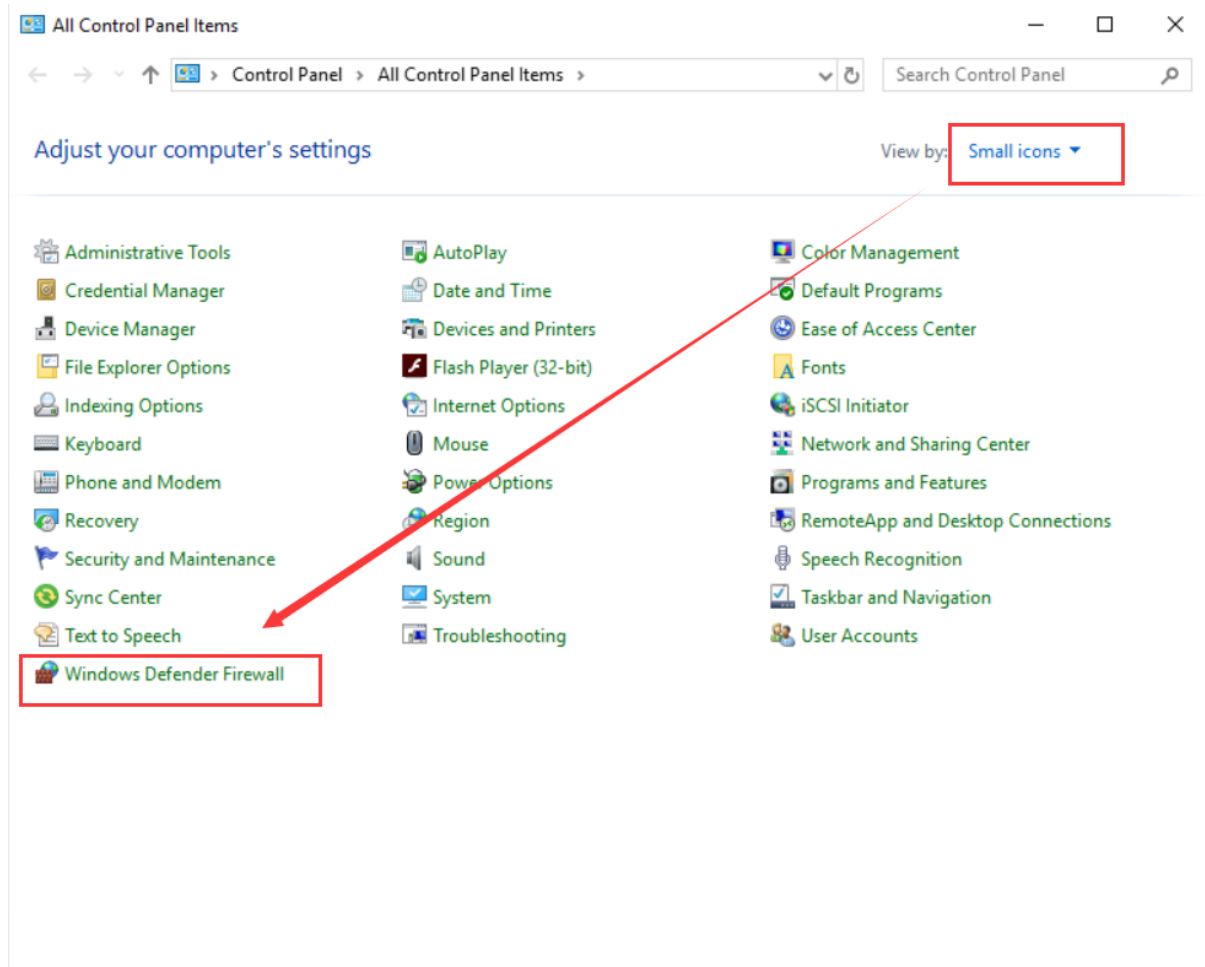
3. Restart the test PC192.168.1.3 and log in to the PC with a domain account. You can see that PC192.168.1.3 is online and the authentication method is SSO on the IAM.

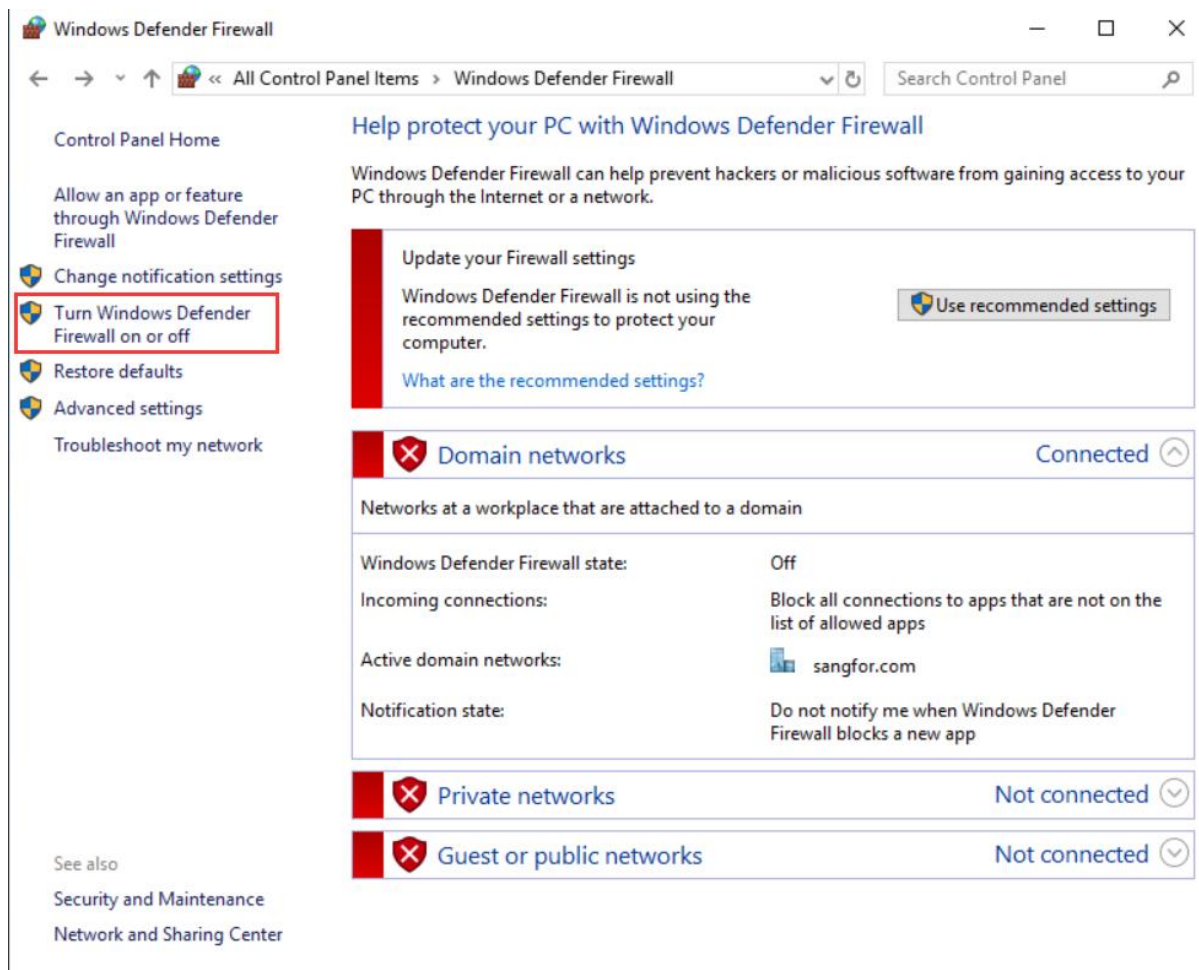


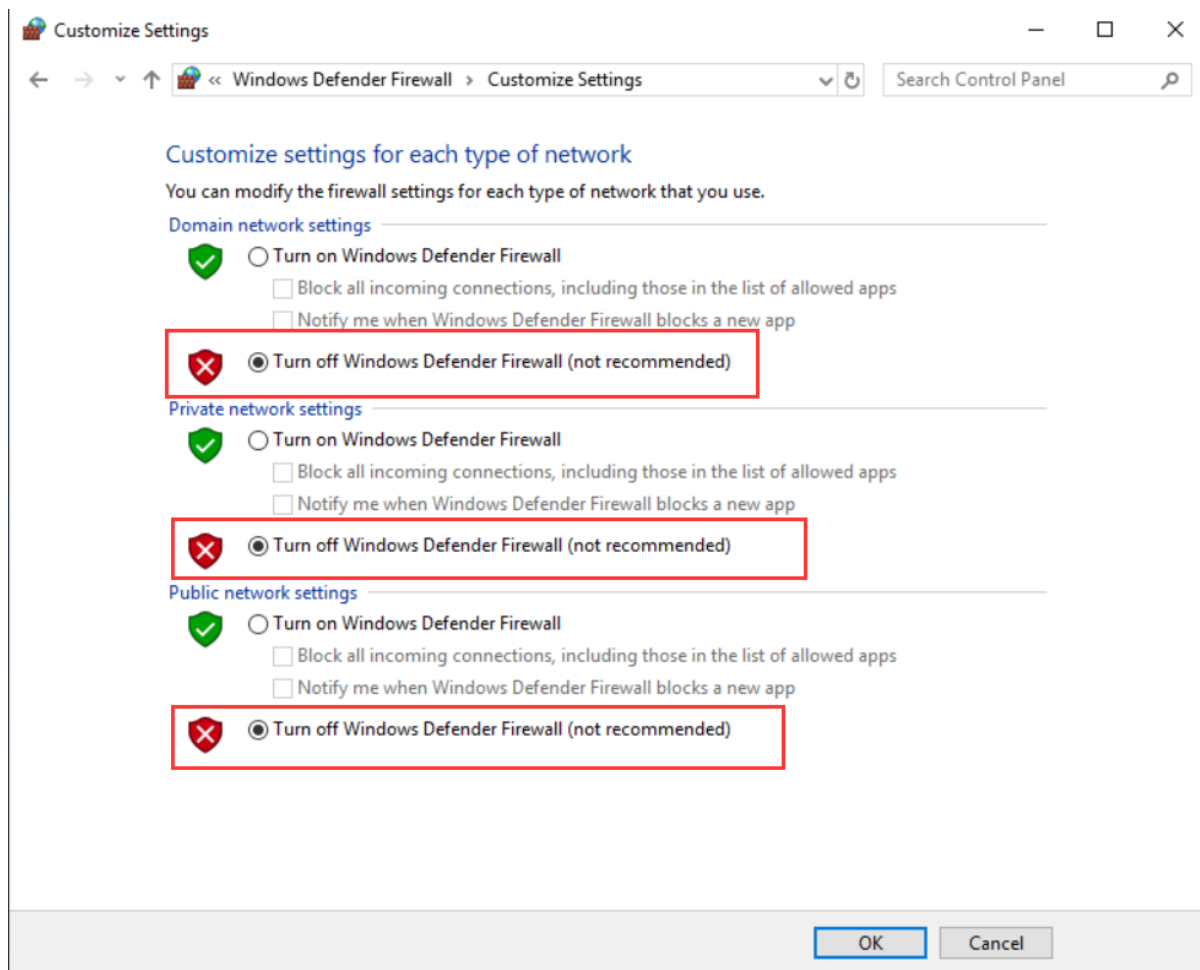
## Chapter 4 Precautions

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 to be unable to obtain relevant data from AD Server.

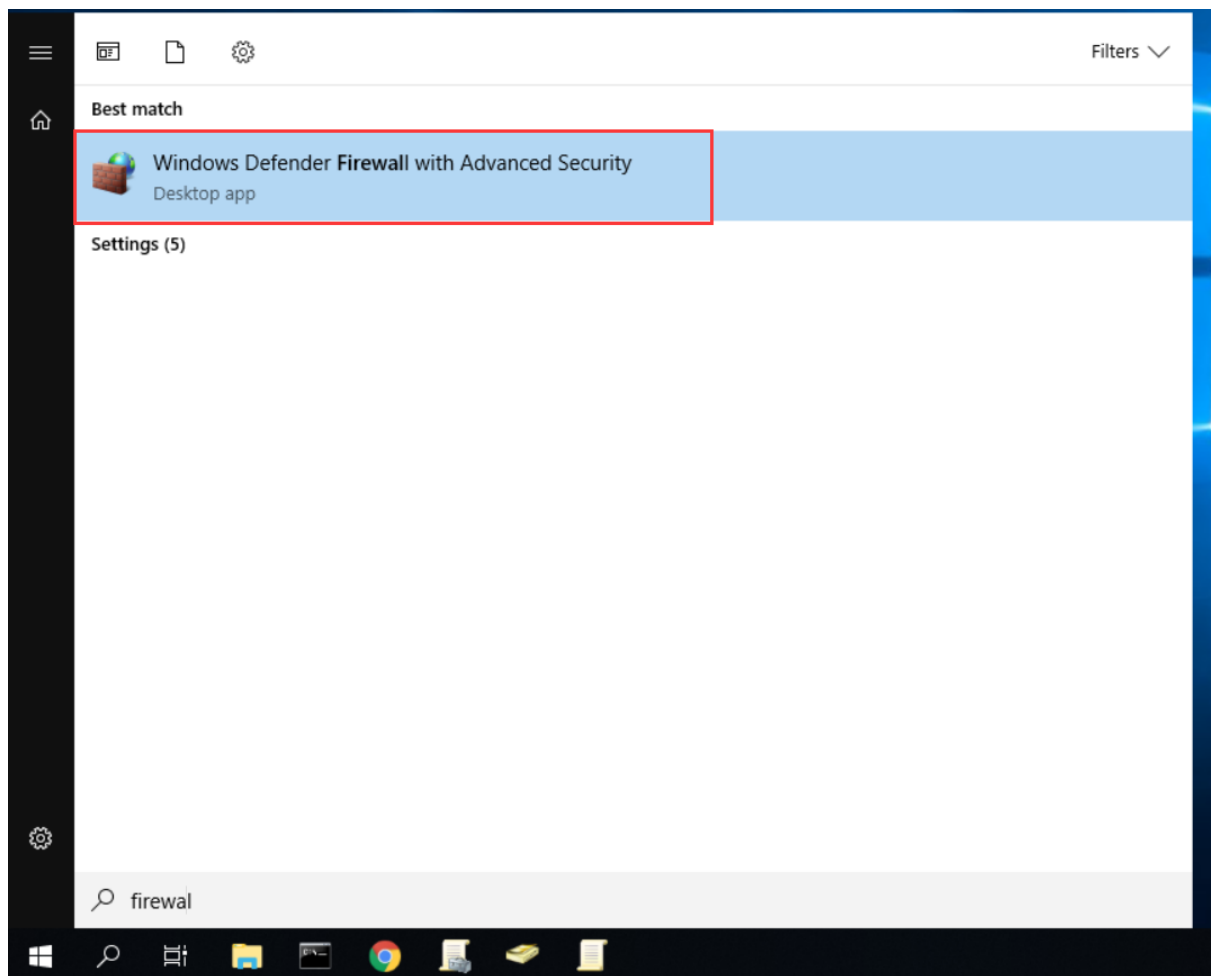




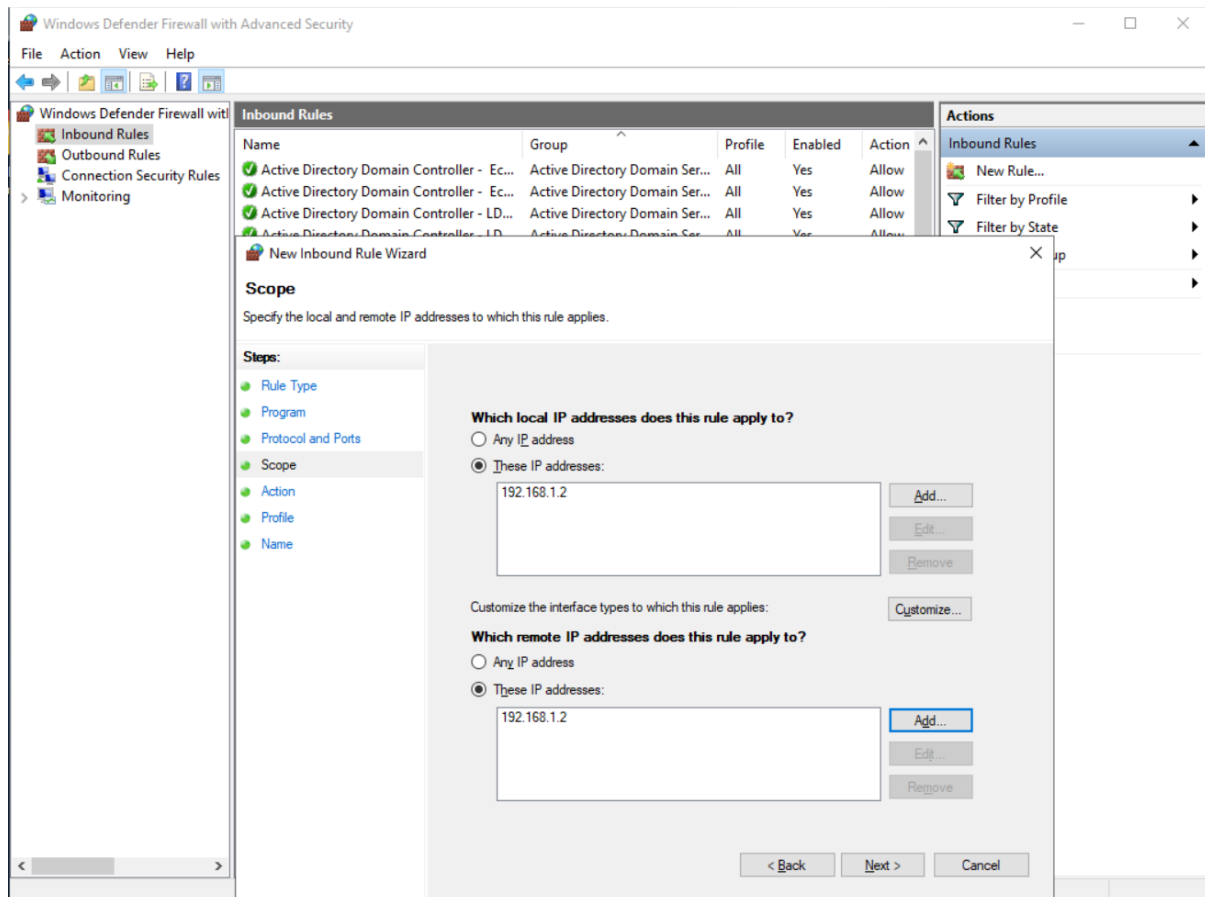




Or you can manually add firewall rules to allow related devices to access AD Server.



# Activity Domain Script SSO





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