

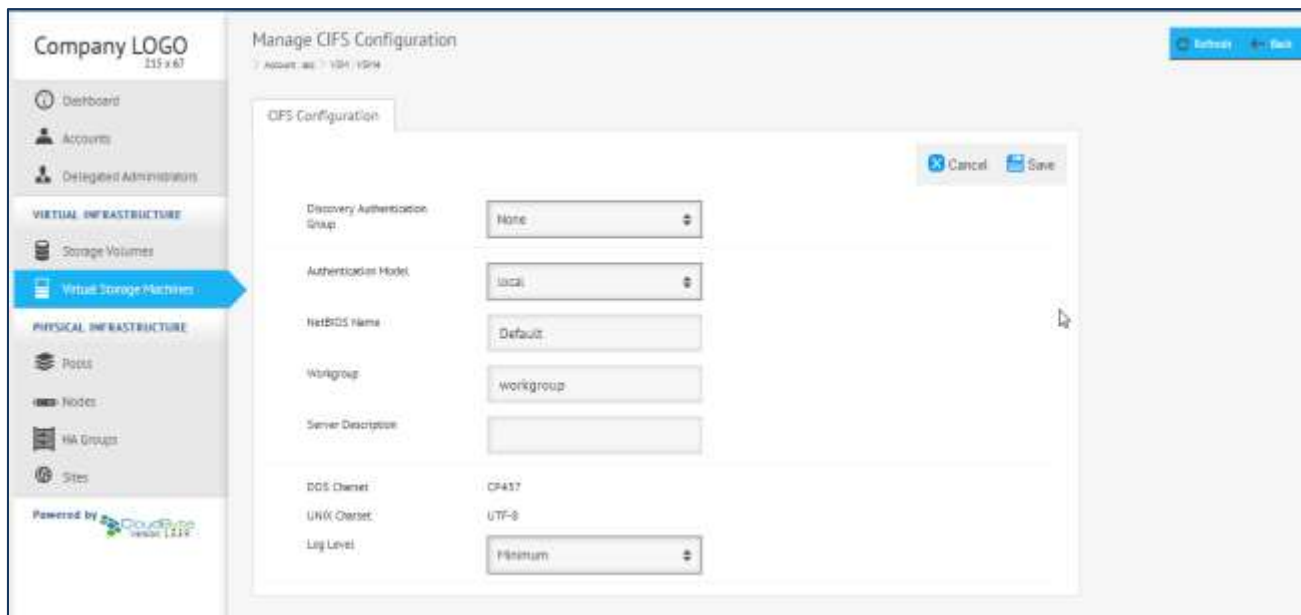
Active Directory integration with CloudByte ElastiStor

Prerequisite

- Change the time and the time zone of the Active Directory Server to the VSM time and time zone.

Enabling Active Directory at VSM level

1. In the Virtual Storage Machine page, select the VSM for which you want to enable Active Directory feature.
2. In the Actions pane, select Manage CIFS configuration.
3. Click Edit.
4. For Authentication Model, select Active Directory from the drop-down list.



5. Click Save.
6. At the confirmation prompt, click Modify.

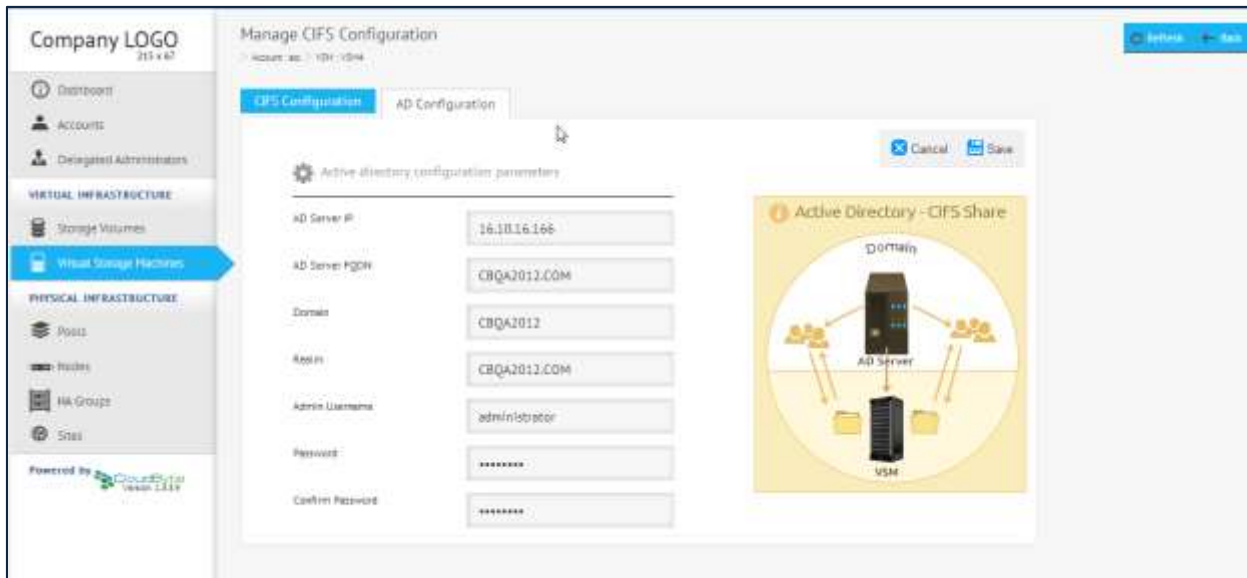
Note: Prior to configuring Active Directory feature, ensure the following:

1. VSM should be able to ping the AD Server IP address.
2. VSM should be able to ping Active Directory Server IP address.

Configuring Active Directory at VSM level

After Enabling the Active Directory feature for the VSM, AD configuration tab is enabled.

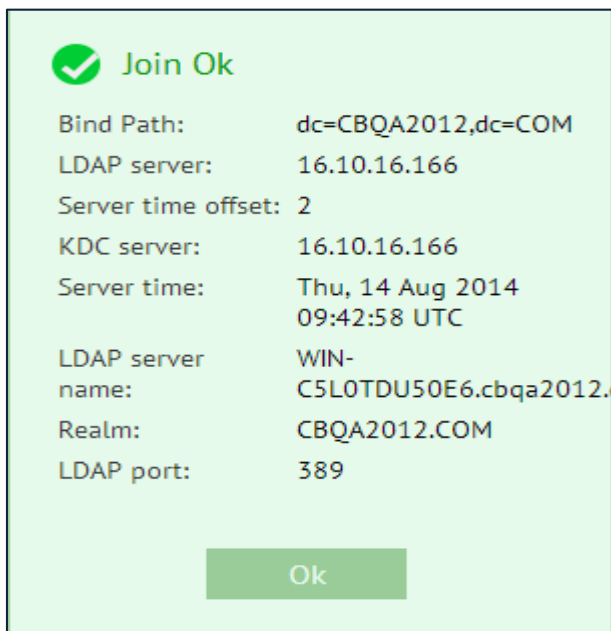
1. In the Manage CIFS configuration page of the VSM, click AD Configuration and provide the required details.



Field	Description
AD Server IP	IP address of active directory server.
AD Server FQDN	Fully qualified domain name of the Active Directory in UPPERCASE.
Domain	The Active Directory domain to which you want to connect in UPPERCASE. If the Domain name is different from the NETBIOS name, specify the NETBIOS name in the domain field.
Realm	The realm to which the domain belongs in UPPERCASE. The value should be same as AD Server FQDN.
Admin Username	An Administrator that you have created in Active Directory.
Password	The password you have specified for the administrator in Active Directory.
Confirm Password	Retype the password.

2. Click Save.

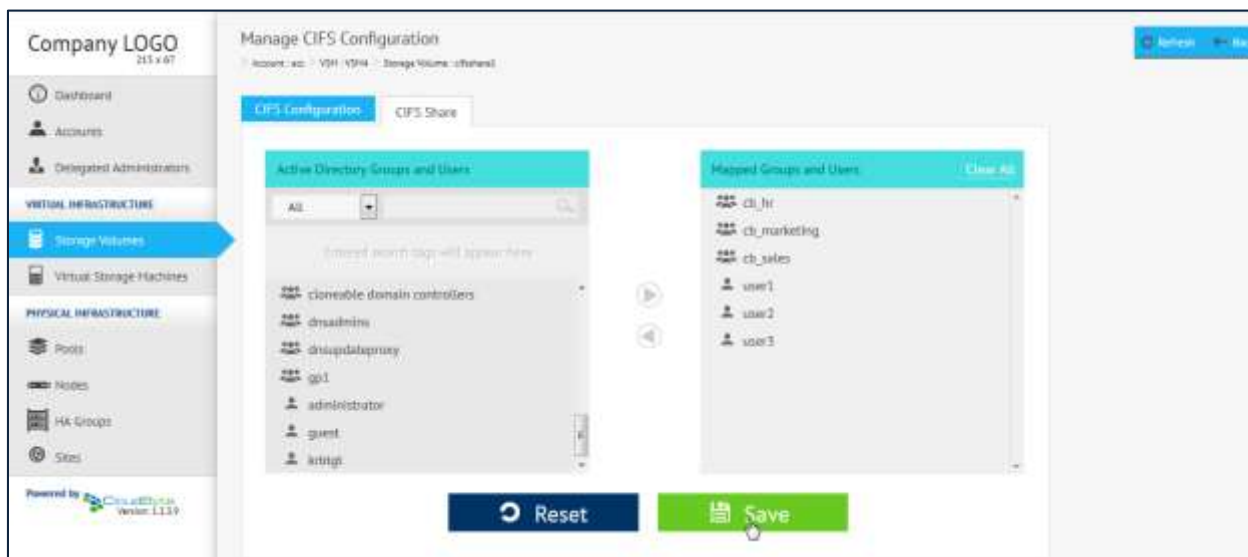
The following dialog box appears:



3. Click OK.

Assigning Groups and Users to the CIFS share

1. In the Storage Volumes page, select the Storage Volume for which you want to assign groups/users.
2. In the Actions pane, select Manage CIFS configuration.
3. Click CIFS share.
4. (Optional) From the drop-down list select Groups if you want only the list of Groups in the Active Directory and the same for Users.
5. From the Active Directory Groups and Users list, select the Groups and Users that you want to assign to the CIFS share.



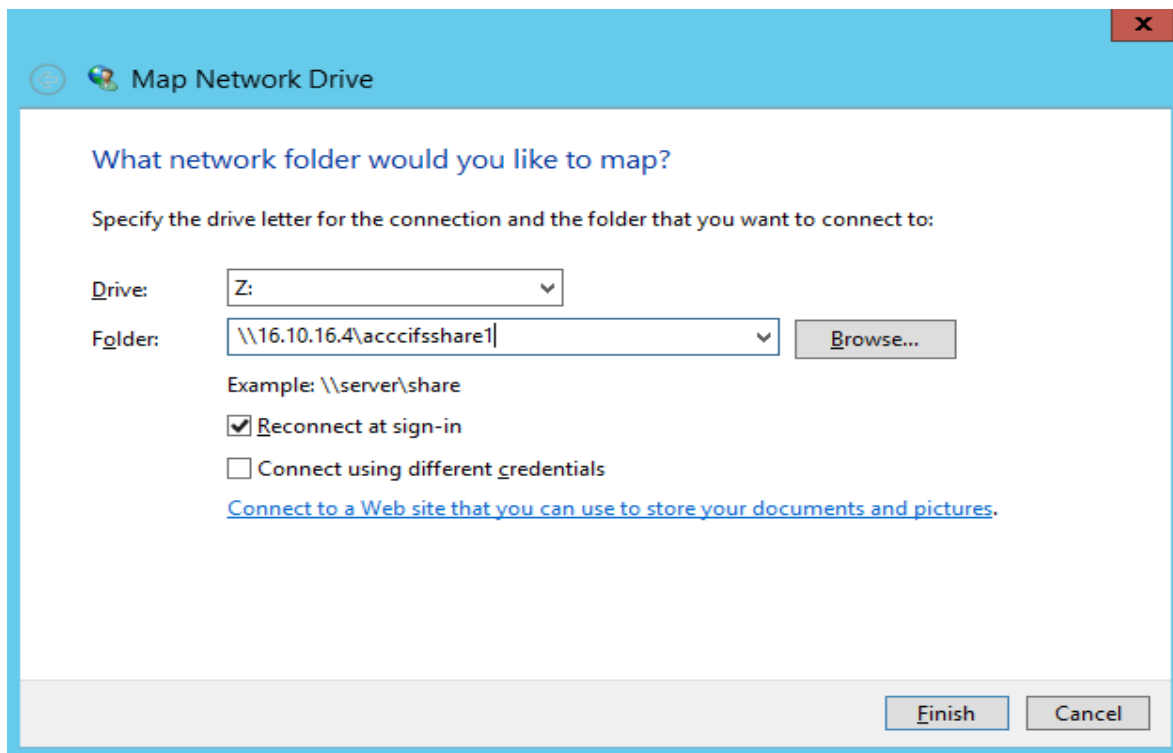
6. Click Save.
7. At the confirmation prompt, click Yes.

Note: If you are accessing the Client through a remote desktop, you might have to add the Active Directory users to remote desktop users.

1. Launch the System page (Computer > Properties).
2. In the left pane, click Remote Settings.
3. In the System Properties dialog box, select Allow remote connections to this computer and then click Select Users.
4. In the Remote Desktop Users dialog box, select the users that you want to add to the remote desktop users.

Mapping CIFS share to the Windows Client

1. Log in to the Windows Client with username (in the format *Domain name\username*) and password. For example, *CBQA\user1*.
2. Launch Map Network Drive page (right-click Computer > Map Network Drive).
3. For Folder, specify the TSM IP address followed by the CIFS mount point in the format:
\\TSM_IP\CIFS_mount_point.

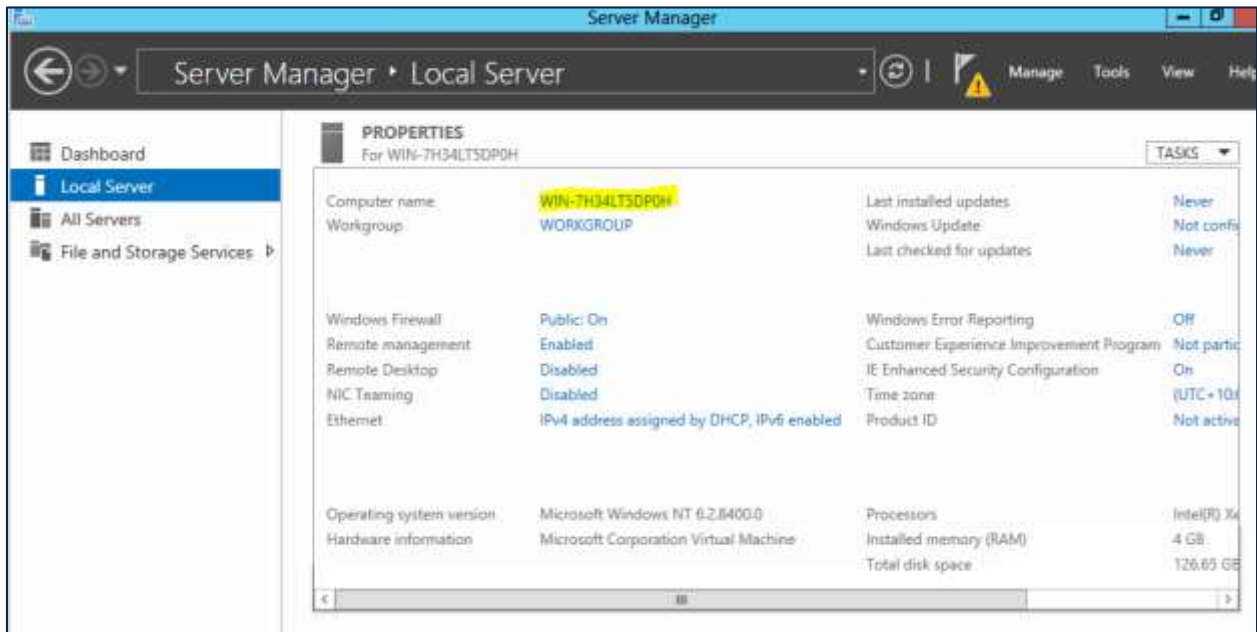


4. Click Finish.

Configuring Active Directory on Windows Server 2012

The following article describes procedures to configure Active Directory and its related services such as DNS.

1. (Optional) Change the default computer name to a more desirable Computer Name.
 1. In the Server Manager, click Dashboard.
 2. Click Local Server.
 3. Click the computer name hyperlink.

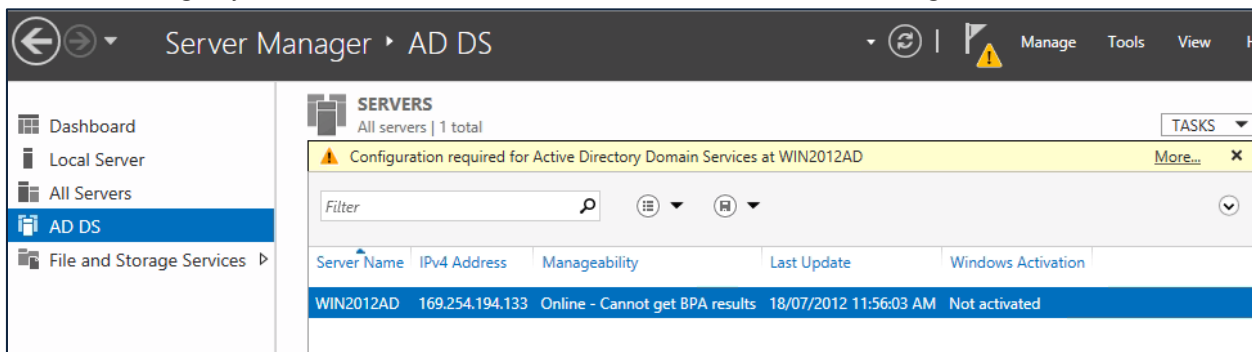


4. In the System Properties page, click Change.
5. In the following dialog box, specify the new Computer name.
6. Click OK.

You will be prompted to restart your computer to apply the changes. Click OK and then Click Restart now.

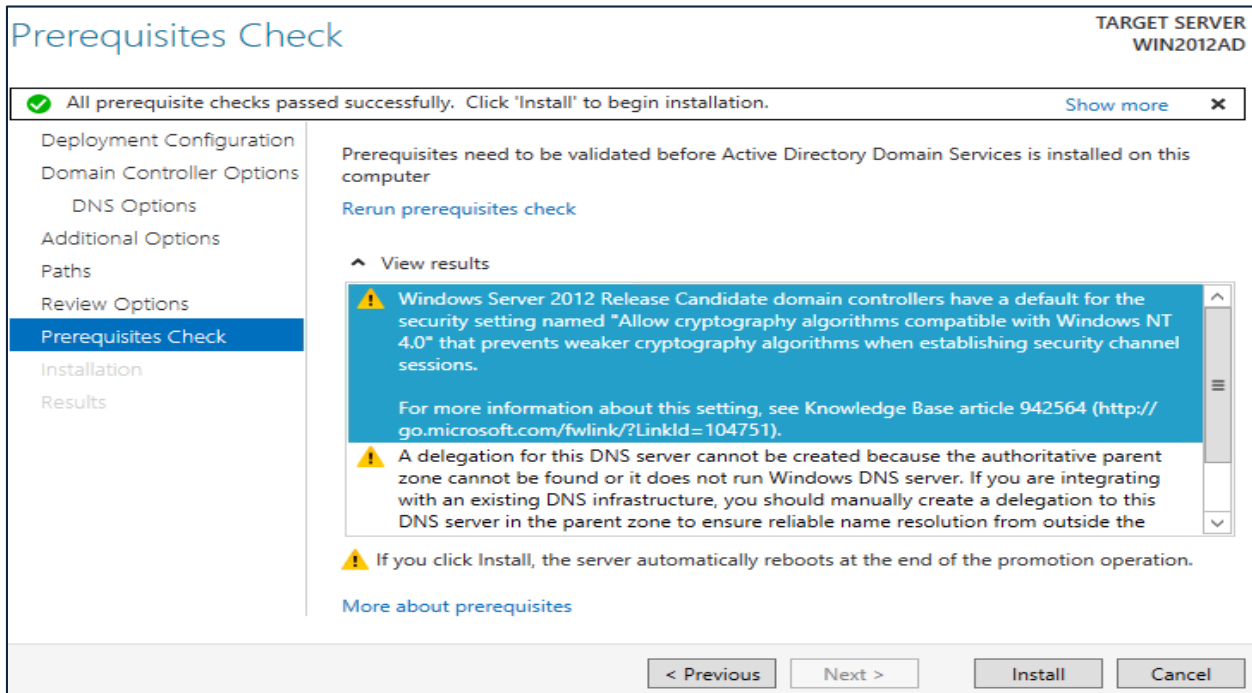
2. (After your computer has restarted) In the Server Manager page, click Dashboard.
3. Click Add roles and features.
4. In the Before you begin page, click Next.
5. Select installation type as Role-based or feature-based installation and click Next.
6. In the following page, select the option Select a server from the server Pool and click Next.
7. In the Server Roles page, select Active Directory Domain Services.
8. At the confirmation prompt, click Add Features.
9. In the Features page, click Next.
10. In the Active Directory Domain Service page, click Next.
11. In the Confirmation installation selections page, click Install.
12. Upon completion of installation, click Close.

In Server Manager, you will notice that AD DS have been added to the left navigation tree.



13. Click AD DS and then click More in the right navigation pane.
14. Under Action, click Promote this server to a domain controller.
15. In the Deployment Configuration page, select Add a new forest.

16. Specify the root domain name and then click Next.
 17. In the Domain Controller Options page, specify and confirm the password of the Domain Controller.
 18. Click Next.
 19. Ignore the message in the following screen and then click Next.
- The NetBIOS domain name will then be displayed automatically. In the event of a conflict, it will suggest an alternative by appending the original name with a 0.
20. In the Additional Options page, click Next.
 21. Confirm or change the locations of your database folder and then click Next.
 22. Review your selections in the Review Options page and then Click Next.
 23. In the prerequisites check page, click Next.



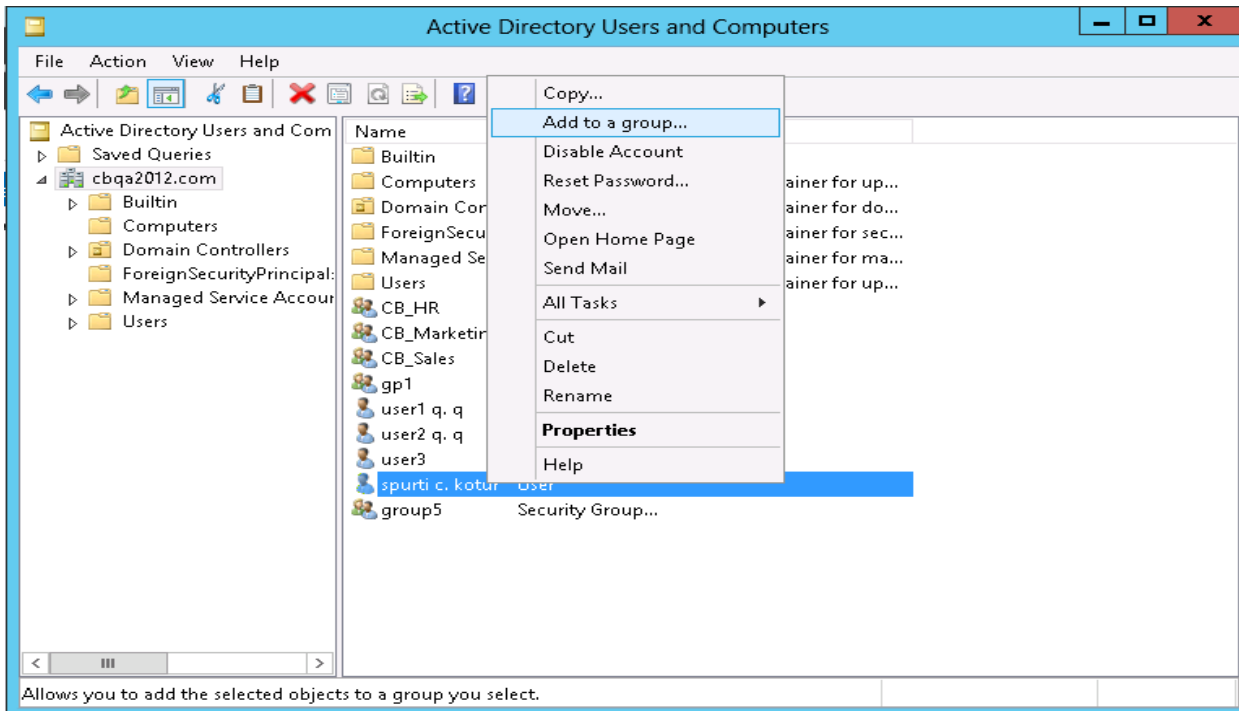
Your computer will restart upon after the completion of installation.

24. (After your computer has restarted) In the Server Manager, click Tools.
25. Click Active Directory Administrative Center.
26. In the left pane, click your Domain name.

Create Active Directory Users and Groups

Create Active Directory user

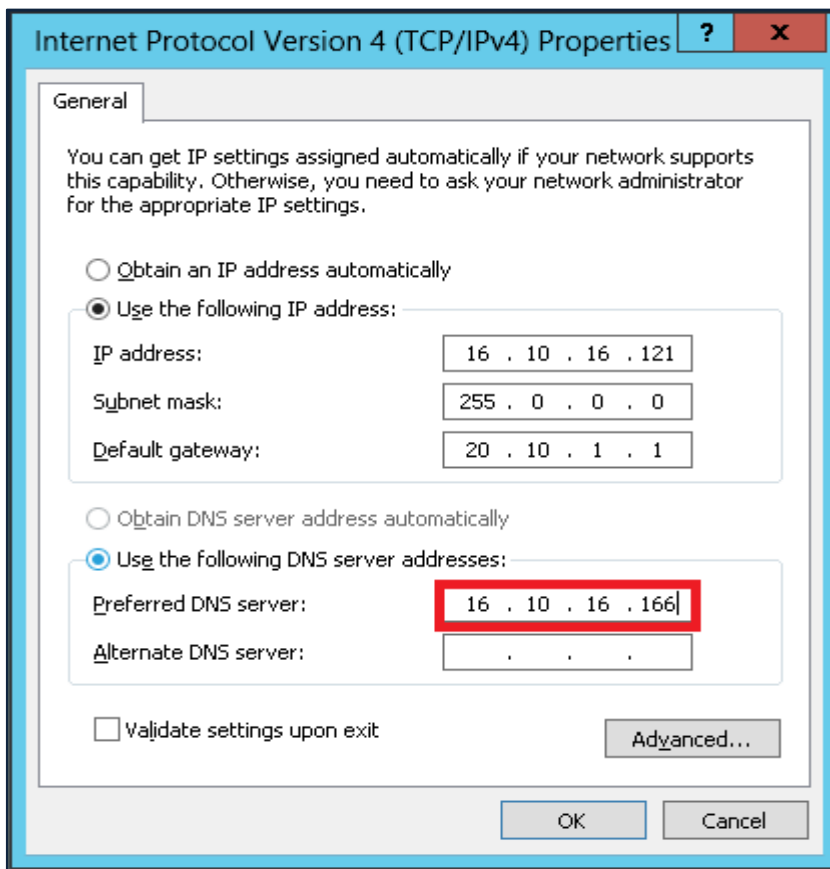
1. In the Server Manager, click Tools.
2. In the right pane, click Active Directory Users and Groups.
3. In the Active Directory Users and Groups wizard, right-click your Domain name.
4. Select New and then select User.



6. In the dialog box, specify the name of the Group to which you want to add the user.
7. At the prompt, click OK.

Adding a Client to the Domain

1. On your Client machine, go to Network and Sharing center.
2. Select the Network interface and then select properties.
3. Select Internet Protocol Version 4(TCP/IPv4).
4. In the Preferred DNS Server tab, specify the IP address of the Active Directory Domain Server that you to join the Client to.



5. Click OK.
6. In the Server Manager, click Dashboard.
7. Click Local Server.
8. Click the computer name hyperlink.
9. In the System Properties page, click Change.
10. Select Domain and then specify the Domain name of the Active Directory.
11. Click OK.
12. In the Windows Security dialog box, specify the login credentials of the Active Directory Domain Server.
13. At the success prompt, click OK.
14. You will be prompted to restart your computer to apply the changes. Click OK.
15. Click Close and then click Restart now.