



# **Configure Active Directory, LDAP, and LDAPS**

**SnapCenter Software 4.8**

NetApp  
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# Configure Active Directory, LDAP, and LDAPS

## Register untrusted Active Directory domains

You should register the Active Directory with SnapCenter Server to manage hosts, users, and groups from multiple untrusted Active Directory domains.

### What you will need

#### LDAP and LDAPS protocols

- You can register the untrusted active directory domains using either LDAP or LDAPS protocol.
- You should have enabled bidirectional communication between the plug-in hosts and the SnapCenter Server.
- DNS resolution should be set up from the SnapCenter Server to the plug-in hosts and vice-versa.

#### LDAP protocol

- The fully qualified domain name (FQDN) should be resolvable from SnapCenter Server.

You can register an untrusted domain with the FQDN. If the FQDN is not resolvable from the SnapCenter Server, you can register with a domain controller IP address and this should be resolvable from SnapCenter Server.

#### LDAPS protocol

- CA certificates are required for LDAPS to provide end-to-end encryption during the active directory communication.


[Configure CA client certificate for LDAPS](#)

- Domain controller host names (DCHostName) should be reachable from SnapCenter Server.

### About this task

- You can use either the SnapCenter user interface, PowerShell cmdlets, or REST API to register an untrusted domain.

### Steps

1. In the left navigation pane, click **Settings**.
2. In the Settings page, click **Global Settings**.
3. In the Global Settings page, click **Domain Settings**.
4. Click  to register a new domain.
5. In the Register New Domain page, select either **LDAP** or **LDAPS**.
  - a. If you select **LDAP**, specify the information that is required for registering the untrusted domain for LDAP:

For this field...	Do this...
Domain Name	Specify the NetBIOS name for the domain.
Domain FQDN	Specify the FQDN and click <b>Resolve</b> .
Domain controller IP addresses	<p>If the domain FQDN is not resolvable from the SnapCenter Server, specify one or more domain controller IP addresses.</p> <p>For more information, see <a href="#">Add domain controller IP for untrusted domain from GUI</a>.</p>

- b. If you select **LDAPS**, specify the information that is required for registering the untrusted domain for LDAPS:

For this field...	Do this...
Domain Name	Specify the NetBIOS name for the domain.
Domain FQDN	Specify the FQDN.
Domain controller Names	Specify one or more domain controller names and click <b>Resolve</b> .
Domain controller IP addresses	If the domain controller names is not resolvable from SnapCenter Server, you should rectify the DNS resolutions.

6. Click **OK**.

## Configure CA client certificate for LDAPS

You should configure the CA client certificate for LDAPS on the SnapCenter Server when the Windows Active Directory LDAPS is configured with the CA certificates.

### Steps

1. Go to the Microsoft management console (MMC), and then click **File > Add/Remove Snapin**.
2. In the Add or Remove Snap-ins window, select **Certificates** and then click **Add**.
3. In the Certificates snap-in window, select the **Computer account** option, and then click **Finish**.
4. Click **Console Root > Certificates – Local Computer > Trusted Root Certification Authorities > Certificates**.
5. Right-click on the folder “Trusted Root Certification Authorities”, and then select **All Tasks > Import** to start the import wizard.
6. Complete the wizard, as follows:

In this wizard window...	Do the following...
In the second page of the wizard	Click <b>Browse</b> , select the <i>Root Certificate</i> and click <b>Next</b> .
Completing the Certificate Import Wizard	Review the summary, and then click <b>Finish</b> to start the import.

7. Repeat Steps 5 and 6 for the intermediate certificates.

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