



# Configuring a User Directory Collector

## Cloud Insights

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# Configuring a User Directory Collector

You configure Cloud Secure to collect user attributes from Active Directory servers.

*Before you begin*

- You must be a Cloud Insights Administrator or Account Owner to perform this task.
- You must have the IP address of the server hosting the Active Directory server.
- An Agent must be configured before you configure a User Directory connector.

*Steps to Configure a User Directory Collector*

1. In the Cloud Secure menu, click:

**Admin > Data Collectors > User Directory Collectors > + User Directory Collector**

The system displays the Add User Directory screen.

Configure the User Directory Collector by entering the required data in the following tables:

Name	Description
User Directory Name	Unique name for the user directory
Agent	Select a configured agent from the list
Server	IP address of server hosting the active directory
Forest Name	Forest level of the directory structure
Bind DN	User permitted to search the directory
BIND password	Directory server password
Protocol	ldap, ldaps, ldap-start-tls
Ports	Select port

Enter the following Directory Server required attributes:

Attributes	Attribute name in Directory Server
Display Name	name
SID	objectsid
User Name	sAMAccountName

Click Include Optional Attributes to add any of the following attributes:

Attributes	Attribute Name in Directory Server
Email Address	mail

Telephone Number	telephonenumber
Role	title
Country	co
State	state
Department	department
Photo	thumbnailphoto
ManagerDN	manager
Groups	memberOf

## Testing Your User Directory Collector Configuration

You can validate LDAP User Permissions and Attribute Definitions using the following procedures:

- Use the following command to validate Cloud Secure LDAP user permission:

```
ldapsearch -o ldif-wrap=no -LLL -x -b "dc=netapp,dc=com" -h 10.235.40.29 -p 389 -D Administrator@netapp.com -W
```

- Use AD Explorer to navigate an AD database, view object properties and attributes, view permissions, view an object's schema, execute sophisticated searches that you can save and re-execute.
  - Install [AD Explorer](#)
  - Connect to the AD server using the username/password of the AD directory server.

## Troubleshooting User Directory Collector Configuration Errors

The following table describes known problems and resolutions that can occur during collector configuration:

Problem:	Resolution:
Adding a User Directory connector results in the 'Error' state.	<p>Ensure you have provided valid values for the required fields (Server, forest-name, bind-DN, bind-Password).</p> <p>Ensure bind-DN input is always provided as 'Administrator@&lt;domain_forest_name&gt;' or as a user account with domain admin privileges.</p>
The optional attributes of domain user are not appearing in the Cloud Secure User Profile page.	Ensure you have used the AD domain user 'Attribute Editor' to enter the optional attributes.

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