Jenkins-LDAP Integration

1. Background

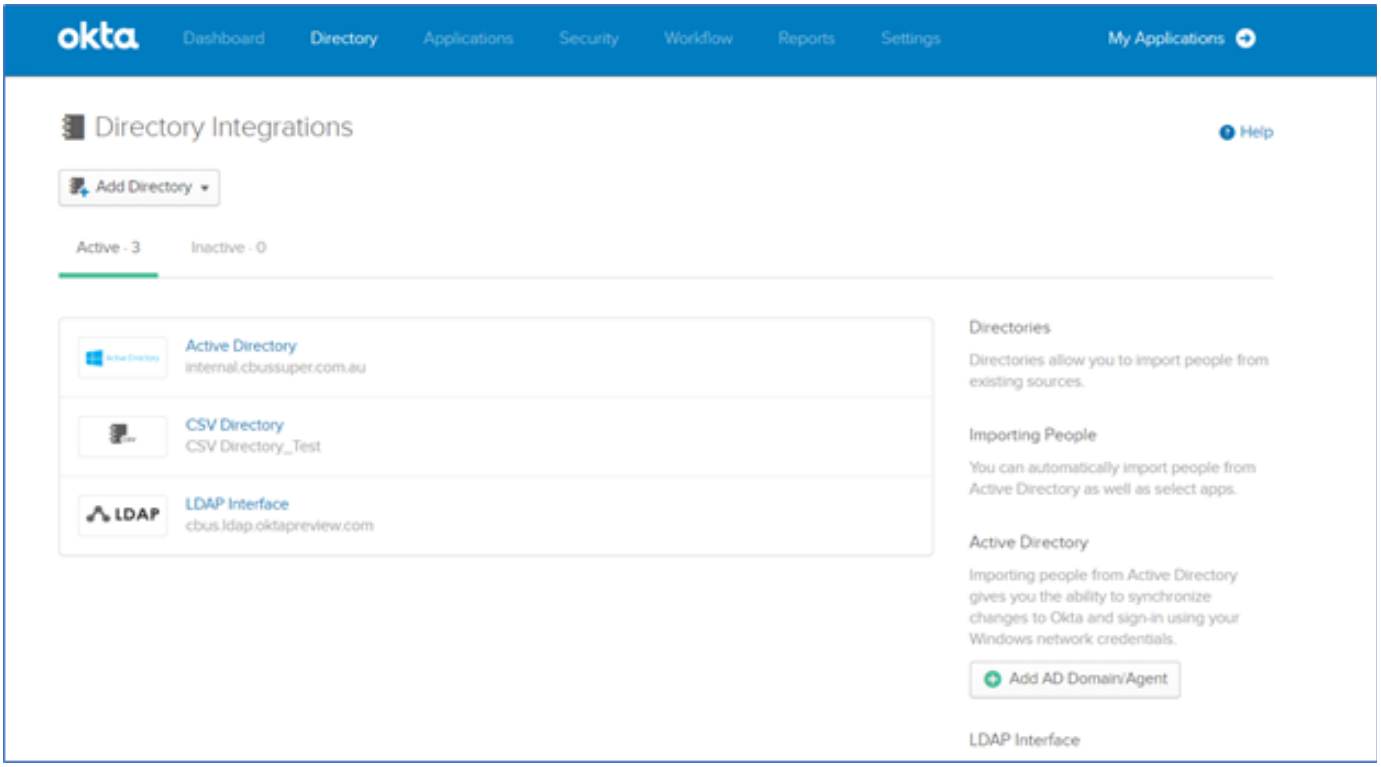
This section aims at providing a detailed description on integrating Jenkins and Okta and configure LDAP plugin for authentication.

2. Prerequisites

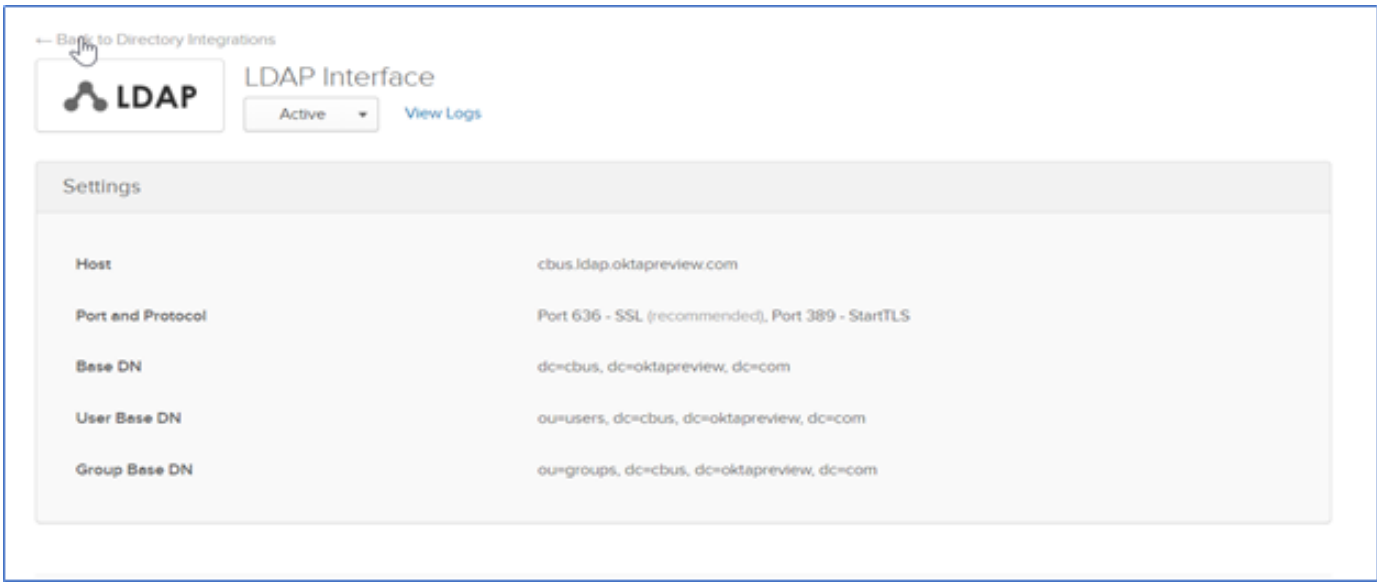
- Administrator account in Jenkins.
- Administrator account in Okta.

3. Okta LDAP Configuration Settings

Step 1: Navigate to **Directory>Directory Integrations.**



Step 2: Click on **LDAP Interface** where details that are required to be configured in Jenkins can be found.

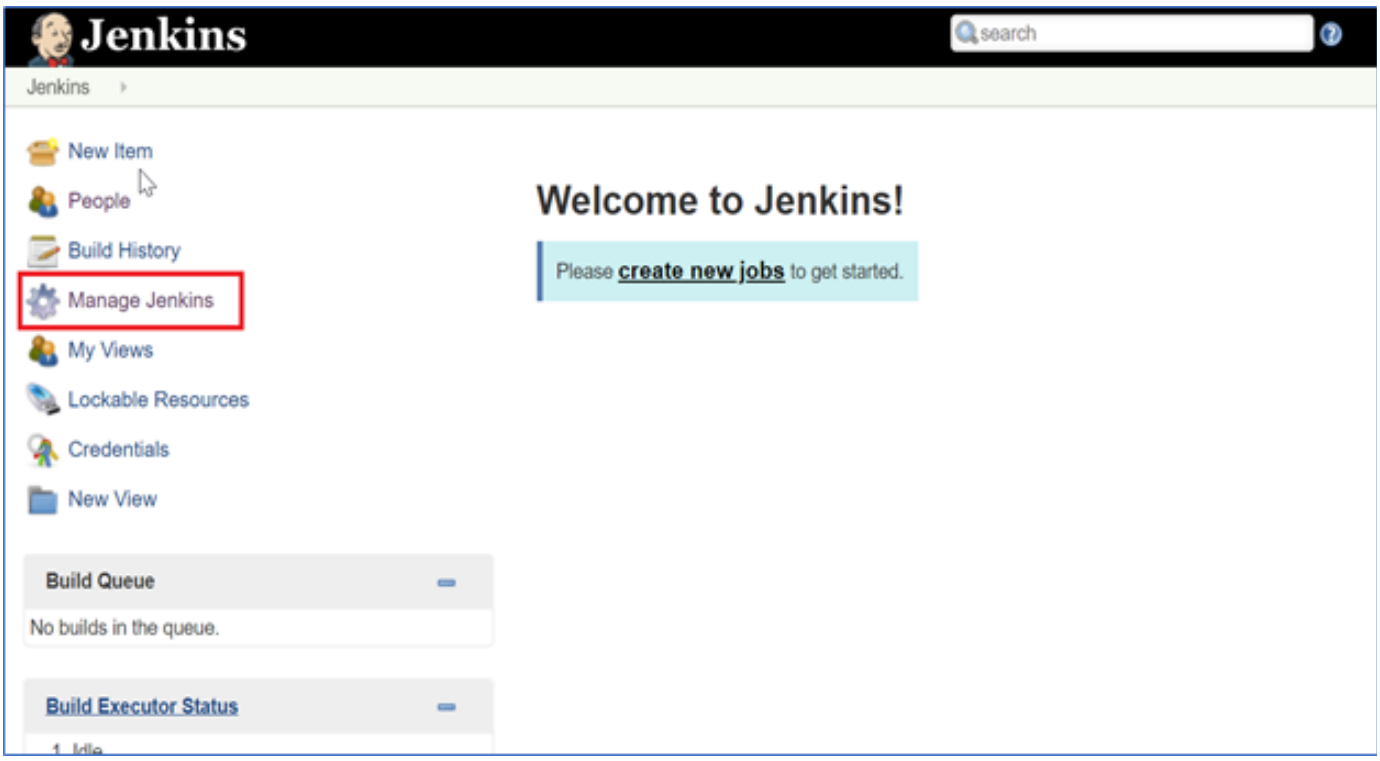


Step 3: Navigate to Jenkins to configure LDAP integration.

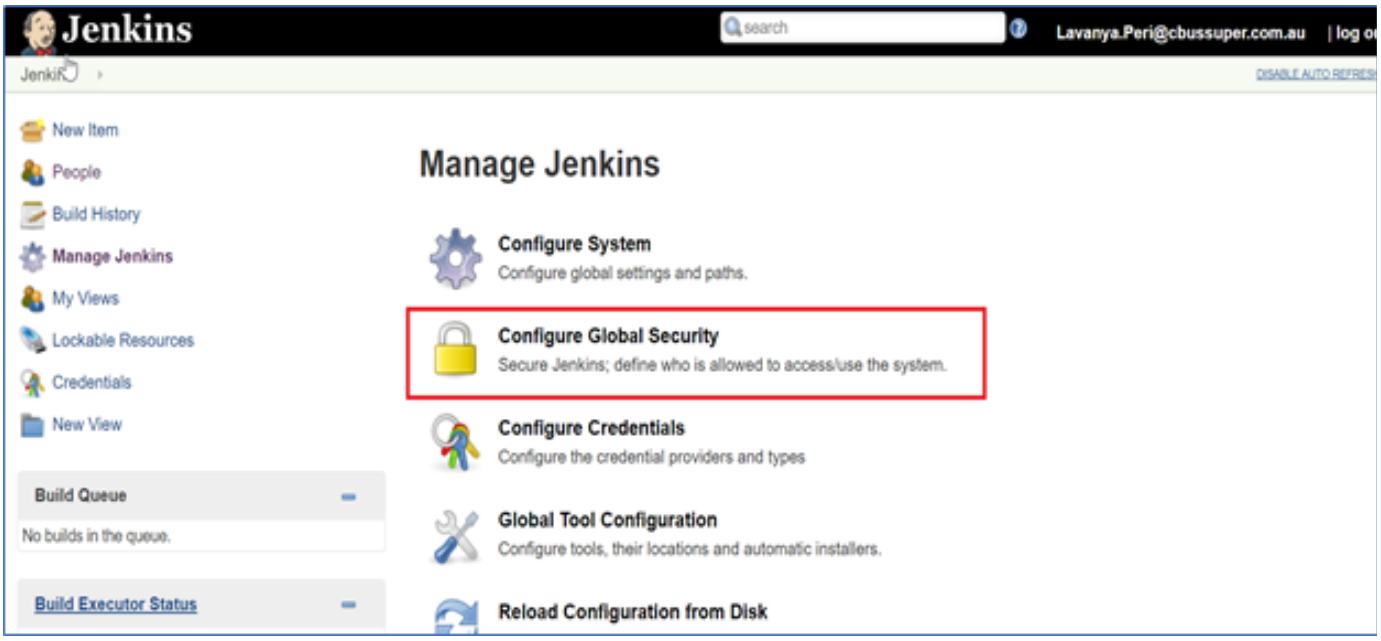
4. Jenkins Configuration Settings

Step 1: Login to Jenkins using administrator account.

Step 2: Click on **Manage Jenkins**.

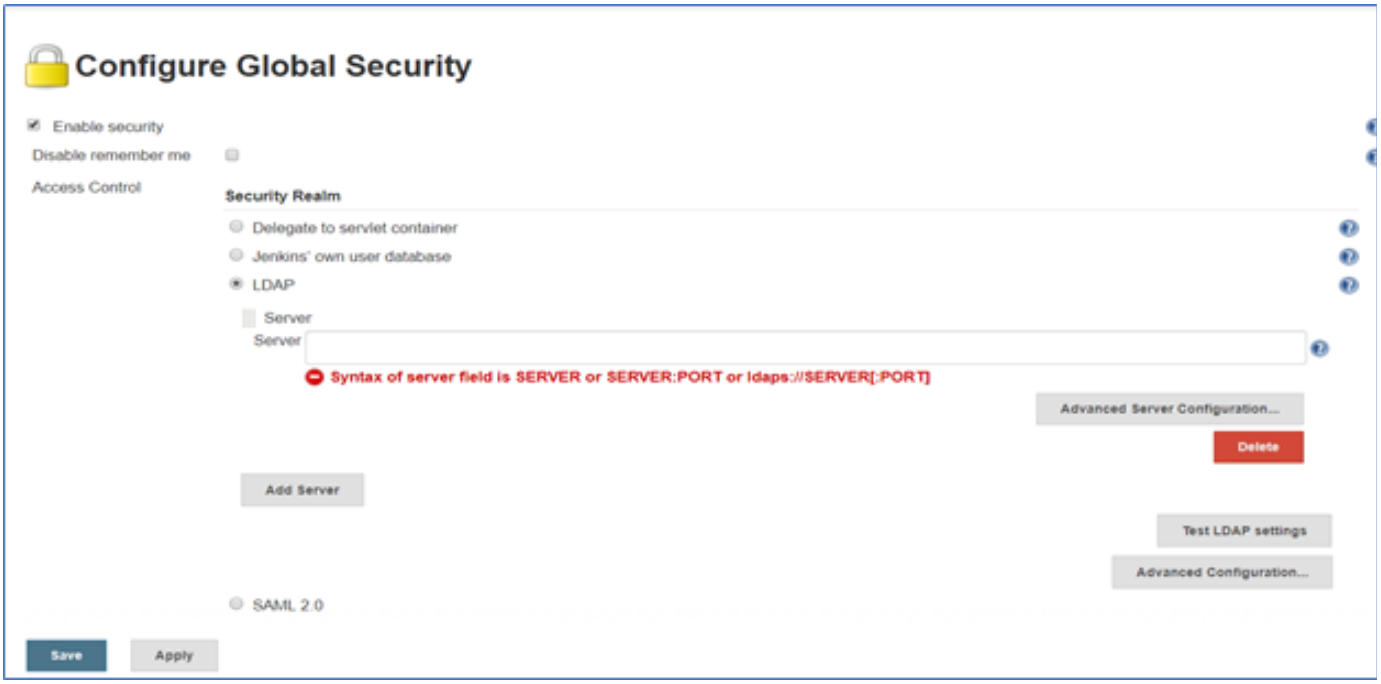


Step 3: Go to **Configure Global Security**.



Step 4: Check **Enable security**.

Step 5: Select **LDAP.**



Step 6: Specify the name of the LDAP server host name. To connect to LDAP over SSL (AKA LDAPS), specify it with the ldaps:// protocol, like **ldaps://ldap.acme.org** or **ldaps://ldap.acme.org:1636** (if the port is other than the default 636).

Here we have given: **ldaps://cbus.ldap.oktapreview.com:636**

Step 7: Click on Advance Server Configuration.

Step 8: Provide the below details:

- **rootDN:** Select Allow blank rootDN.
- **User search base:** If you specify a relative DN (from the root DN) here, Jenkins will further narrow down searches to the sub-tree. Here we have given: **ou=users, dc=cbus, dc=oktapreview, dc=com**

- **User search filter:** This field determines the query to be run to identify the user record. Here we have given: **uid={0}**
- **Group search base:** This field determines the query to be run to identify the organizational unit that contains groups. Here we have given: **ou=groups, dc=cbus, dc=oktapreview, dc=com**
- **Group membership:** The group membership filter field controls the search filter that is used to determine group membership.

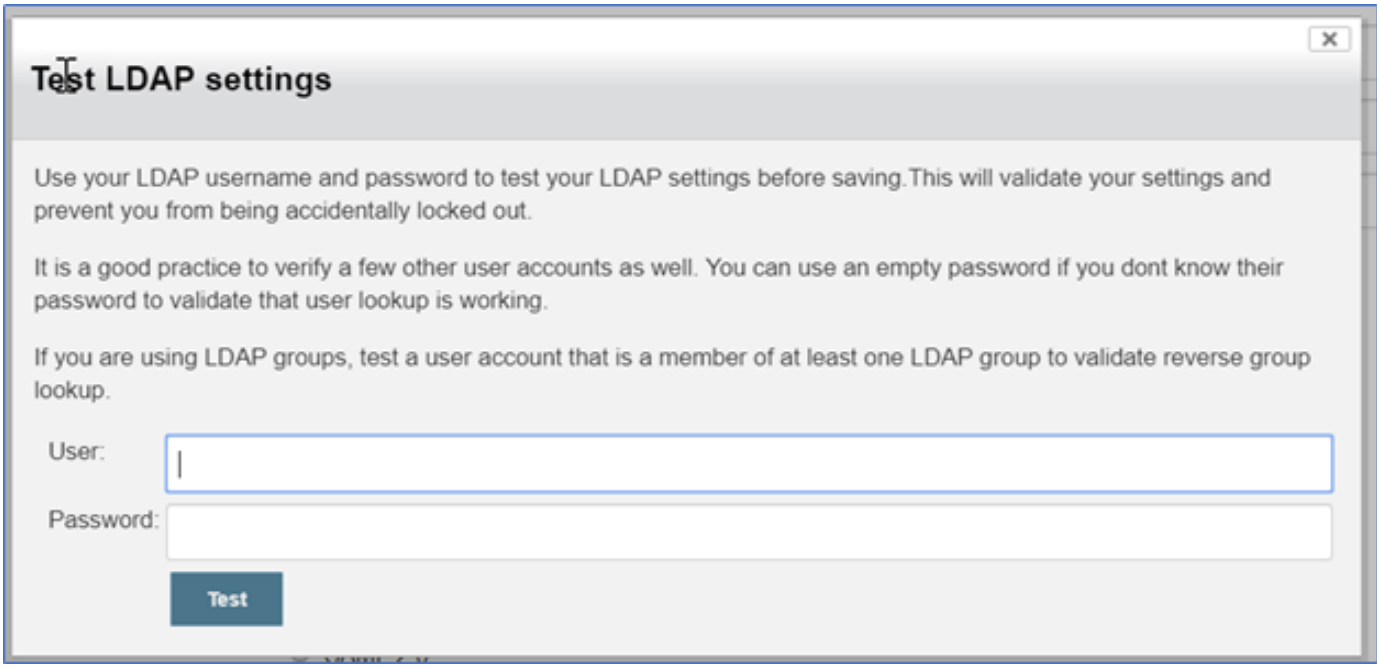
Select **Search for LDAP groups containing user** and provide Group membership filter as: **(&(objectClass=groupofUniqueNames)(cn=Jenkins*))**

- **Manager DN:** If your LDAP server doesn't support anonymous binding (IOW, if your LDAP server doesn't even allow a query without authentication), then Jenkins would have to first authenticate itself against the LDAP server, and Jenkins does that by sending "manager" DN and password.

Example format: **uid=jose.almaraz@cbussuper.com.au, dc=cbus, dc=oktapreview, dc=com**

- **Manager Password:** Provide the password of the user which has been mentioned in the Manager DN.
- **Display Name LDAP attribute:** cn
- **Email address LDAP attribute:** mail

Step 9: Click on **Test LDAP Settings.** This button will allow you to check the full LDAP configuration settings which you have defined. This will prompt you to provide username and password.



Step 10: Click on **Test** will show you the results.