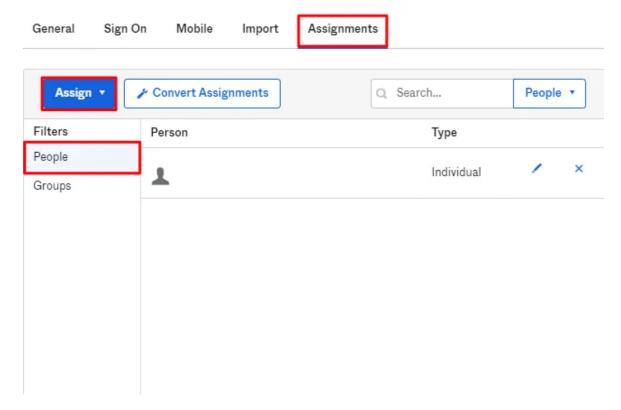
POC on jenkins authentication using okta

Issue:

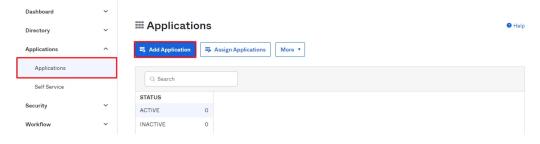
How do I setup OKTA as Identity Provider in Jenkins

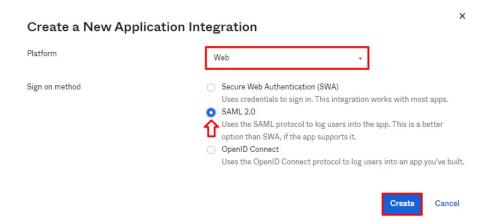
Solution:

- 1. Download SAML plugin in jenkins.
- 2. Now move to the Okta and do the following setup:
 - a) Create users for the jenkins authentication
 - b) Create groups like Jenkins-admin and Jenkins-users
 - c) Assign user to the respective groups

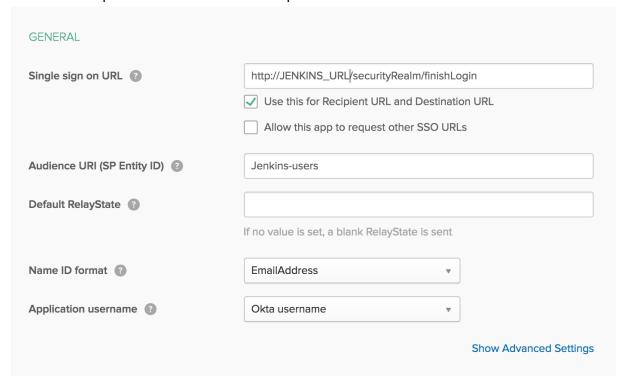


d) Now goto the applications and create a new application from app integration and select SAML 2.0 from it.





- e) Fill the app Name as Jenkins and leave the rest as default and click next
- f) Now fill the required fields as shown in the picture below:



- g) Define the user attributes as:
 - 1. Name: DisplayName

Name format: unspecified

Value: String.join(" ",user.firstName,user.lastName)

2. Name: Email

Name format: unspecified

Value: user.email

h) Define the group attributes as:

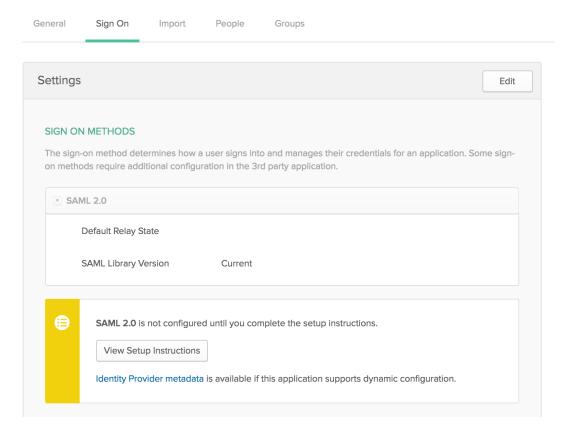
Name: Group

Name format: basic

Filter: Match regex (fill the regex value as ".*")

Click next.

- Now select I am a customer and adding an internal app.
 Now check the box saying "this is an internal app" in App type.
 Click Finish.
- j) Now go to the assignments tab and assign the groups we have created to the application.
- k) Now goto the signon tab and scroll down to "Identity provider metadata" Open it in a new tab and copy the XML from there.



- I) Now go back to the jenkins and goto manage jenkins.
- m) Click on configure global security

n) Now choose Security Realm as SAML 2.0.Now fill the required fields as:

 SAML 2.0 		
SAML Identity Provider Settings		
IdP Metadata	xml version="1.0" encoding="UTF-8"? <md:entitydescriptor entityid="http://www.okta.com/exka9pfgylWau38jE0h7" xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata"><md:idpssodescriptor protocolsupportenumeration="urn:oasis:names:tc:SAML:2.0:protocol" wantauthnrequestssigned="false"><md:keydescriptor use="signing"><md:keyinfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#"><ds:x509data><ds:x509certificate>MIIDpDCCAoygAwlBAgIGAVugnnNQMA0GCSqGSlb3DQEBCwUAMIGSMQswCQYDVQQEwJVUzETMBEGA1UECAwkQ2FsaWZvcm5pYTEWMBQGA1UEBwwNUzFulEZyYW5jaXNjbzENMAsGA1UECgwET2U7TEUMBIGA1UECwwLU1NPUHJvdmlkZXIxEzARBgNVBAMMCmRldi00MDY0NDkxHDAaBgkqhkiG9w0BCQEWDWluzm9Ab2t0YS5jb2OwHhcNMTcwNDI0MTUzODUwWhcNMjcwNDI0MTUzOTUwWjC8kjeLMAkGA1UEBhMCVVMxEzARBgNVBAMMCINTT1Byb3zpzGyVyMRMwEQYDVQQDApkzYYNDA2NDZbHMwaGyJKoZlhvcNACkBFg1pbmZvGG9rdGeLv29tMilBijANBgkqhkiG9w0BAQEFAAOCA08AMIlBCgKCAQEAq4nipy0szAsX20uRtNCwkKfkfhEzct08QX2dN9ikG8kn0oJyod0GyeNsNeTG6QElKtwzSe/BfcR1qFWP/bVhbgMsjlidi8kAgm6n+JsvyASY12viD7jxo1u4LU56u+H2V72lEb7oJEavQlEOtCZMMFJzD11GYPNPF0GHDELEdefFV0vHTP604mVS8kuGm2l5ph+psSxxdgkNeSQAQQGdSkLFzD+qK/LFwe7s9A+k4hF+m9AgVcmmndC3Hny/pAD82qDQTTso6uAm0PFnyUEdOXF6tR7pDxWcabcpkhw1dsGfWnJCMW5fMyblPglLdmMKCq1qCuMPIVZPHvGgwUFcuutmacEVfaCNUx2Qng1zQ9km2SpP</ds:x509certificate></ds:x509data></md:keyinfo></md:keydescriptor></md:idpssodescriptor></md:entitydescriptor>	•
Display Name Attribute	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	?
Group Attribute	Group	•
Maximum Authentication Lifetime	86400	•
Username Attribute		•
Username Case Conversion	None •	•
	■ Use Encryption ?	
	Service Provider Metadata which may be required to configure your Identity Provider (based on last saved settings).	

Validate the IDP and after you see success.

Copy the value of the display name and paste it in the Username attribute. Now in the Display name fill the custom attribute we have defined above ie "DisplayName"

Similarly fill the Group attribute as custom attribute ie "Group"

Now check the advance configuration box and fill the SP Entity ID as "Jenkins-users"

Now in Authorization click on anyone can do anything for safety and setup purpose because after this admin user cannot get logged in.

- o) Now log out from admin user and click on login and you will get a signon page, fill your username and password of Okta and you will get logged in to the jenkins.
- p) Now go to the authorization and set it as per your need.
- q) Now get the sign in link in the General tab as Embedded link and share it with the users for sign in.