



okta

INTEGRATION WITH

servicenow®

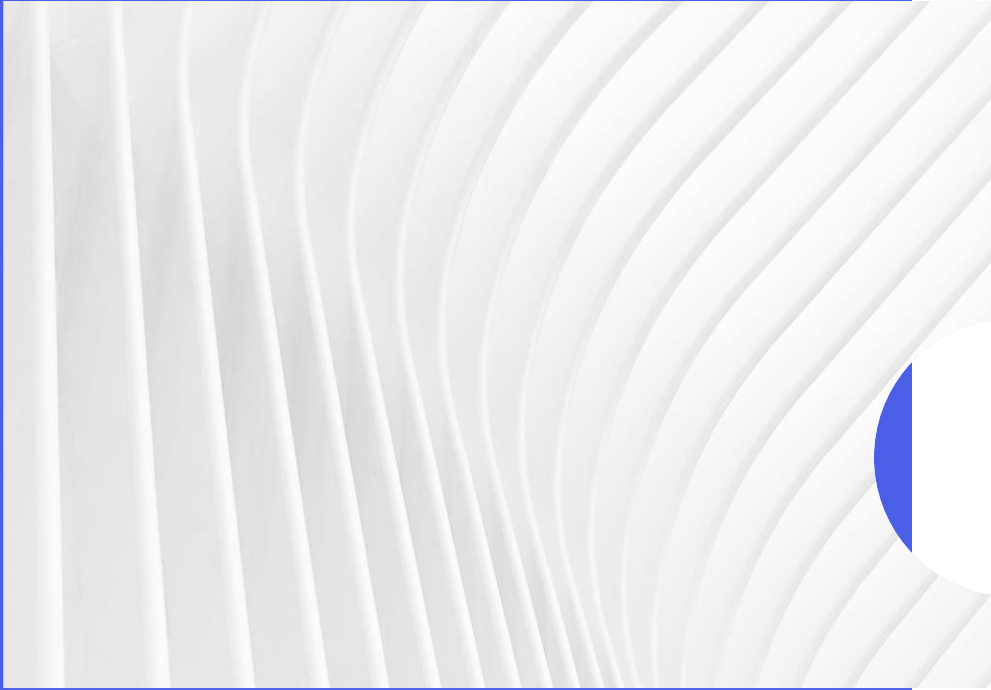
-By Satyanarayan Rout
servicenow.satyarout@gmail.com



AGENDA

- WHAT IS OKTA
- STEPS TO CONFIGURE SSO
- STEPS TO ENABLE PROVISIONING
- SERVICENOW CONFIG FOR OKTA

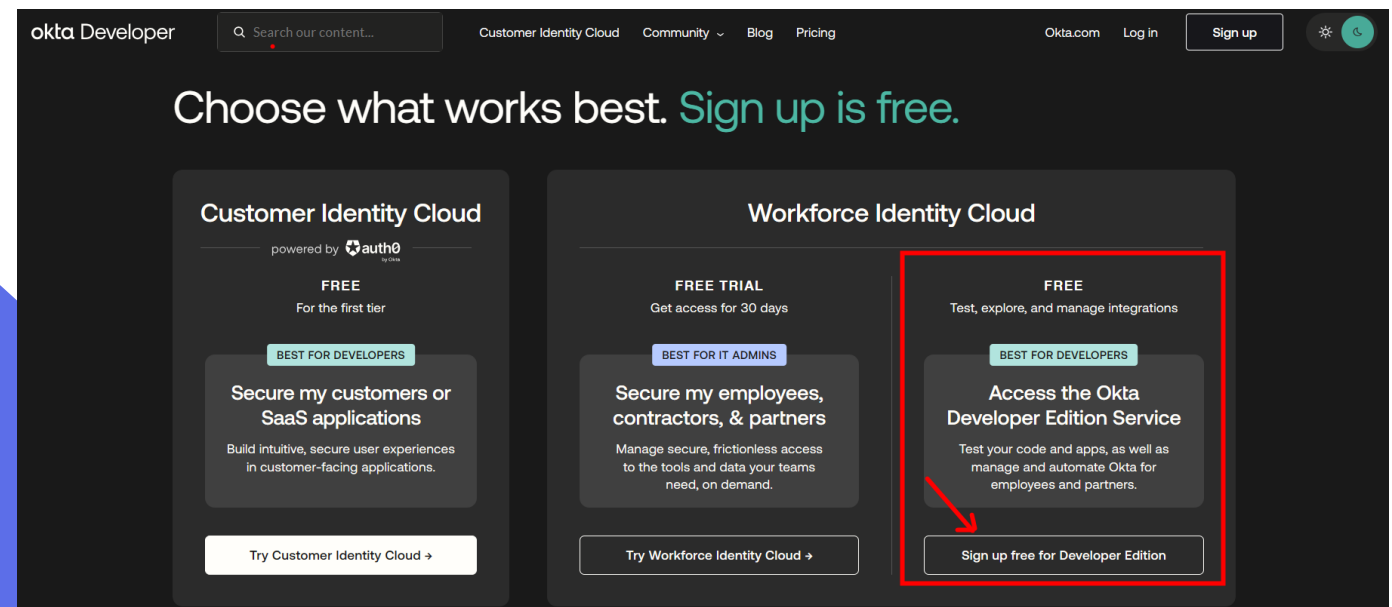
WHAT IS OKTA?



- **Okta** connects any person with any application on any device.
- It's an enterprise-grade, identity management service, built for the cloud, but compatible with many on-premises applications. With Okta, IT can manage any employee's access to any application or device. Okta runs in the cloud, on a secure, reliable, extensively audited platform, which integrates deeply with on-premises applications, directories, and identity management systems.

STEPS TO SETUP OKTA ACCOUNT

- Go to <https://developer.okta.com/> & create an account by clicking on sign up button.
- Create a account by selecting Access the Okta Developer Edition Service mentioned on screenshot.



- After signup successfully it will redirect to **Okta Dashboard** view where we need to do all SSO related configurations like Enable SSO by connecting with ServiceNow App ,Provisioning,User/Group creation,Assigning a user to servicenow application etc.

The screenshot displays the Okta Dashboard. On the left is a sidebar with navigation links: Dashboard, Directory, Customizations, Applications, Security, Workflow, Reports, and Settings. The main content area is divided into several sections. At the top, there's a search bar and user information. Below this, the 'Overview' section shows metrics for Users (3, up 0% in the last 7 days), Groups (No groups added, with a link to 'Import groups'), and SSO Apps (5). To the right of Overview is the 'Status' section, indicating 'Okta service' is 'Operational' and 'Agents' are 'No agents added'. Below these is a 'Tasks' section with a table header (Type, Items, Description) and a message 'All done! No new tasks'. Further down, the 'Org changes' section states 'No org changes in last 7 days'. At the bottom left, the 'Apps' section is partially visible, showing 'App authentication protocols'. On the bottom right, the 'Security Monitoring' section features a gauge chart showing 47% completion (8 of 17 tasks completed).

Okta Dashboard

Search for people, apps and groups

tech.srout@gmail...
okta-dev-15872658

Overview Updated at Apr 7, 2024, 4:11:34 AM

Users 3 71 0% last 7 days

Groups No groups added [Import groups](#)

SSO Apps 5

Status

Okta service Operational

Agents No agents added

Tasks

Type	Items	Description
All done! No new tasks		

Org changes [View all](#)

No org changes in last 7 days

Apps

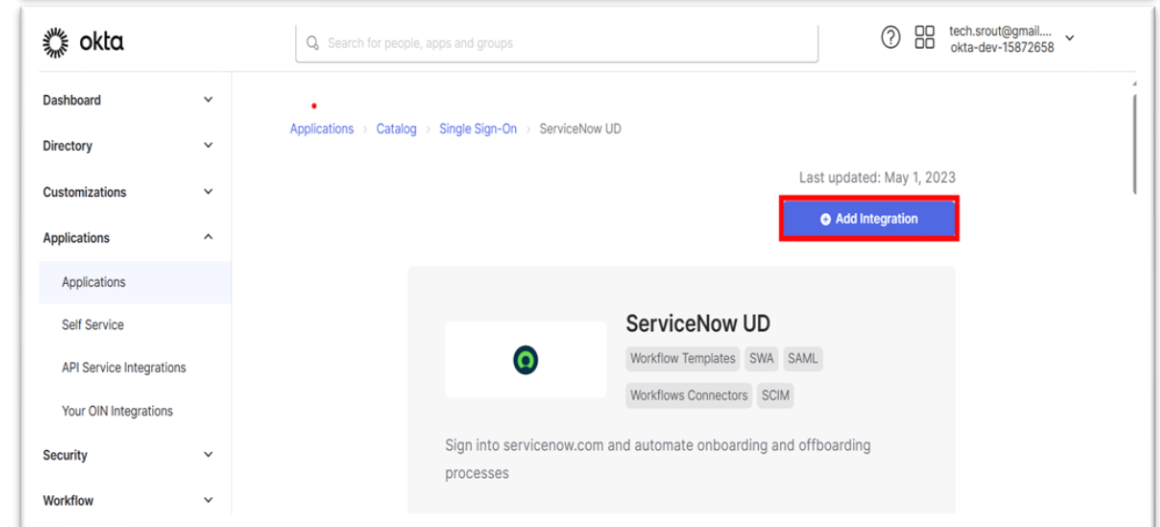
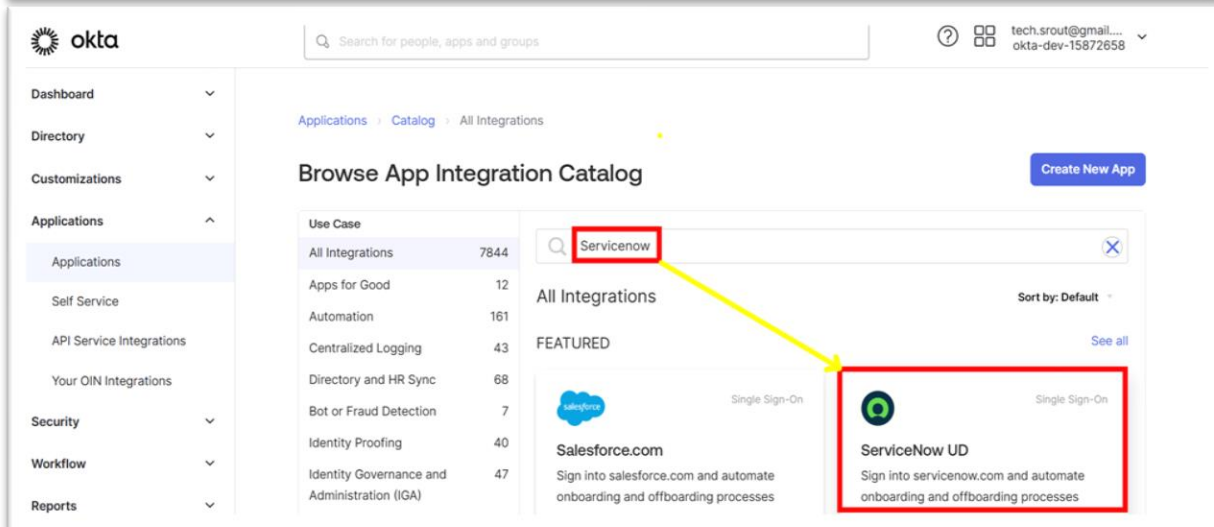
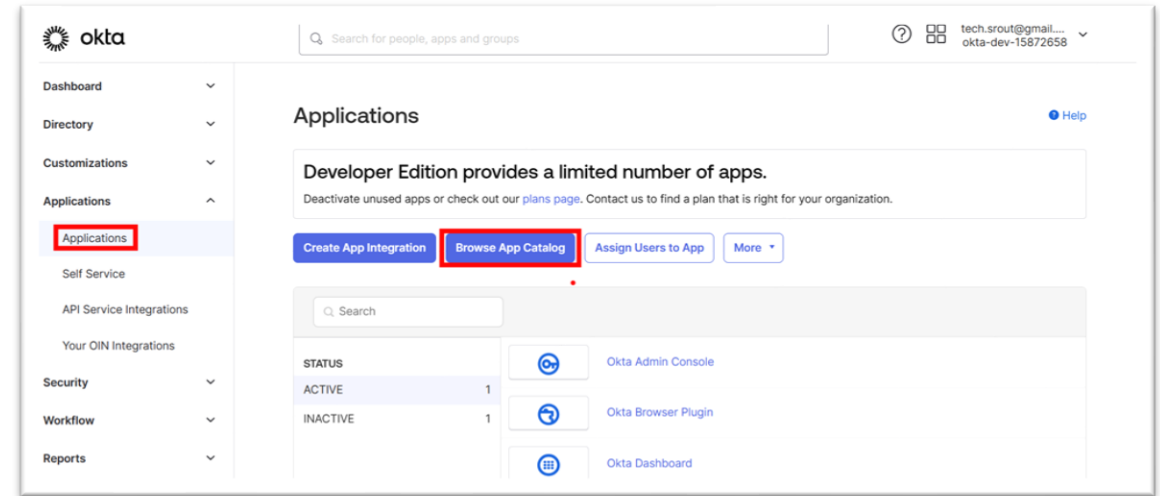
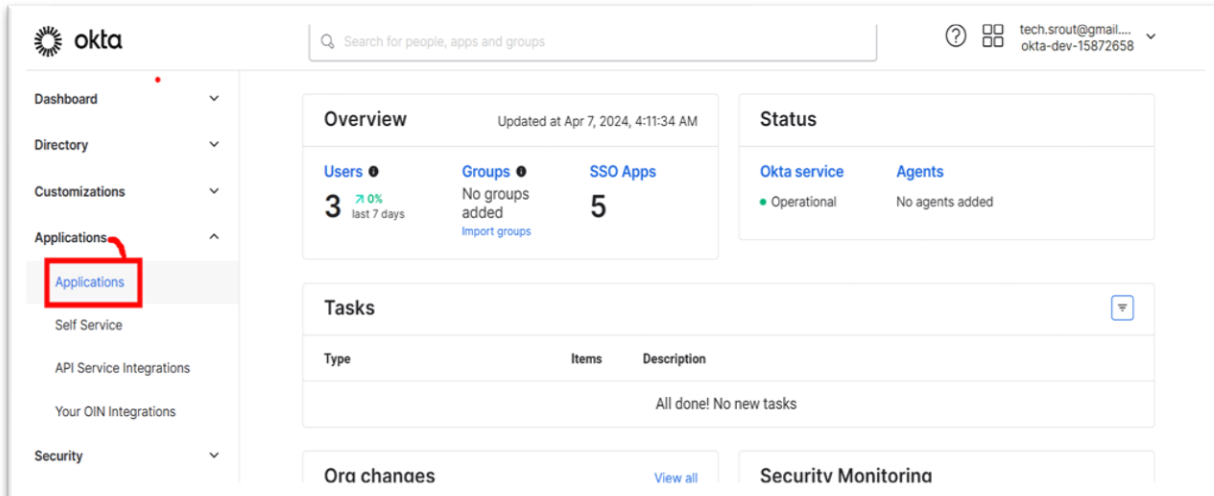
App authentication protocols

Security Monitoring

47%
8 of 17 tasks completed

STEPS TO ADD SERVICENOW APP IN OKTA

- Move to left menu > Applications>Browse app catalog button>Search for servicenow UD app>click on add integration.



- After adding the servicenow ud app, it will ask for general Settings & Sign-on Options.
- In general settings we need to provide **base url** value as our **PDI URL** with whom we want to configure SSO. Then click next , in **sign-on Options>select SAML 2.0>Click on Identity provider metadata link and simply copy the url for later use.**

Okta Admin console - Add ServiceNow UD

General settings: Required

Application label: ServiceNow OCTA SSO

Base URL: **https://dev227935.service-now.com**

SWA Base URL:

Application Visibility: ☐ Do not display application icon to users

Browser plugin auto-submit: **☒ Automatically log in when user lands on login page**

Sign-On Options

SAML 2.0

Default Relay State:

Attributes (Optional) [Learn More](#)

Disable Force Authentication: ☒ Never prompt user to re-authenticate.

Enable Single Logout: ☐

Metadata details

Metadata URL: https://dev-15872658.okta.com/app/exkgad16rIPkoi04I5d7/sso/saml/metadata

[Copy](#)

- Dashboard
- Directory
- Customizations
- Applications
 - Applications
 - Self Service
 - API Service Integrations
 - Your OIN Integrations
- Security
- Workflow
- Reports
- Settings

SAML 2.0 is not configured until you complete the setup instructions.

[View Setup Instructions](#)

Identity Provider metadata is available if this application supports dynamic configuration.

Credentials Details

Application username format: Okta username

Update application username on: Create and update

Password reveal: ☐ Allow users to securely see their password (Recommended)

Password reveal is disabled, since this app is using SAML with no password.

Previous

Cancel

Done

https://dev-15872658.okta.com/app/exkgad16r1PkoI0415d7/sso/saml/metadata

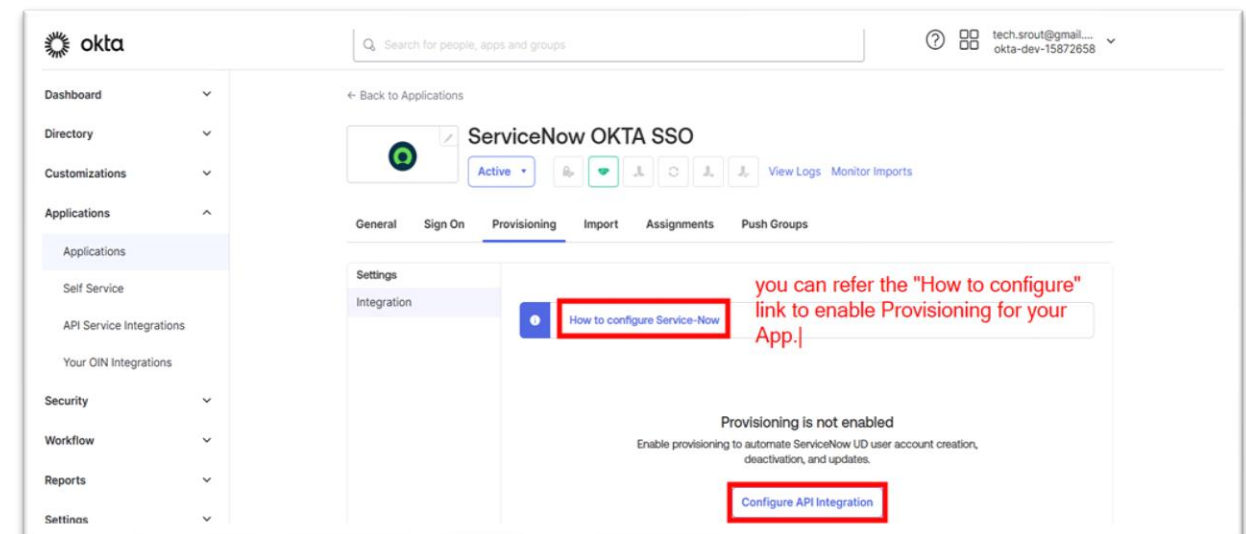
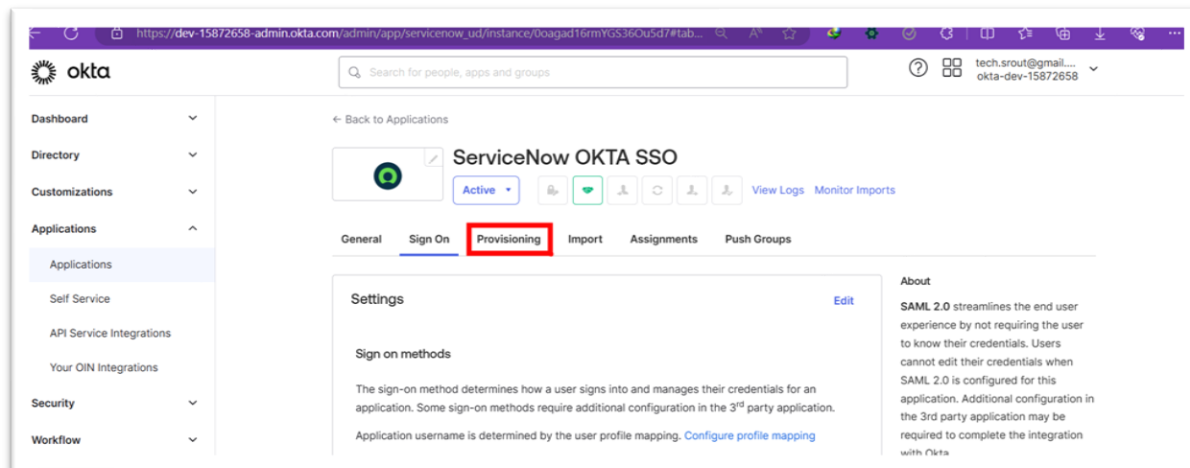
This XML file does not appear to have any style information associated with it. The document tree is shown below.


```
<?xml version="1.0" encoding="UTF-8"?>
<md:EntityDescriptor xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" entityID="exkgad16r1PkoI0415d7">
  <md:IDPSSODescriptor WantAuthnRequestsSigned="false" protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
    <md:KeyDescriptor use="signing">
      <ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
        <ds:X509Data>
          <ds:X509Certificate>MIIDQDCCApCgAwIBAgIYAGY65/ewCMA0GCSqGSIb3DQEBCwUAMIGUMQswCQYDQVQQGEwJVUzETMBEGBA1UECAwKQ2FsaWZvcn5pYTEwMBQGA1UEBwwNU2FuIEZyYW5jaXNjbzENMAsGA1UECgwET2t0YTEU
          MBIGAF1UECwLU1NPUHJvdmlkZXIxFtATBgNVBAMMDGR1di0xNTg3MjY1ODUcMB0GCSqGSIb3DQEJARYNaW5mb0Bva3RhLmNvbTCCASIAwDQVJKeZlhcNAQEBBQADggEPADCCAQoCggEBAJCMRZGcniSxHYerAeIDuNfXXsahfQ2hTnw+OnB90ht1yZl+BG3Dc/yRktt3T2FSjgZFBiz
          CuYRadIry7403KqKpU/vTA5qca0PgGDKCgiZXN1ihHJCurnttXRlg438EIZVaUUDxYeoyneEcA4IGcsWgeY7E8VFMumRdTwJM2Kjdexr9I7j3Nm09ZXj400HQcdkHSWu3myeohpQHBwwejWpt6phSsvZ
          L+fiG159jwkclri//TMe4XqIkRqMBL9W3GDpuvdZMQEnsdpRIUv+HWpNpxgHhynKirUcmXDPNLVSrVq10mqCra2DZLW9d8keF0pxdANsrYDqG+PM7BB/VTSh5d23+tr4xV100CHFX8tvzQoX21UrqZB
          re+5FfdhViU8NVE6eRo1M4HIGa6z7kmJsMAuKtDra9Wg2s5myeg3Z6BsFvHp4+RWGj6Gac4HdUIf6BWC4Q1x9T97imzITeAXeE9KVS5StgEwfJj3m84XhaoPAbrBHYTKpSLev1JD3qcea0o1tmYxM+
          bufJ19hGwh10sn1rKaovvtIamSLmMGWk+yUdg==</ds:X509Certificate>
        </ds:X509Data>
      </ds:KeyInfo>
    </md:KeyDescriptor>
    <md:NameIDFormat urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified</md:NameIDFormat>
    <md:NameIDFormat urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress</md:NameIDFormat>
    <md:SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://dev-15872658.okta.com/app/servicenow_ud/exkgad16r1PkoI0415d7/sso/saml"/>
    <md:SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://dev-15872658.okta.com/app/servicenow_ud/exkgad16r1PkoI0415d7/sso/saml"/>
  </md:IDPSSODescriptor>
</md:EntityDescriptor>
```


- After copying the URL mentioned on above screenshot save it for later use and click on done to complete Sign On process .

Next we need to enable provisioning for our Servicenow Application:







- **Click on provision>Configure API Integration**(you can also refer "How to configure Service-Now" link)>It ask for admin credentials of your ServiceNow account to enable provisioning>After successfully validating credentials it will show provisioning to App window where we need to edit provisioning settings like Create user,Update user attribute,Deactivate user & sync password.





ServiceNow OKTA SSO

Active



[View Logs](#) [Monitor Imports](#)

General

Sign On

Provisioning

Import

Assignments


Push Groups

Settings

To App

To Okta

Integration

 [How to configure Service-Now](#)

Integration

Edit

☒ Enable API integration

Enter your ServiceNow UD credentials to enable user import and provisioning features.

Test API Credentials

Disable Enumerated Lists



☐

Admin Username

admin

Admin Password


Provide your servicenow credential

 → 

Provisioning to App

Edit


Create Users

☒ Enable 

Creates or links a user in ServiceNow UD when assigning the app to a user in Okta.


The [default username](#) used to create accounts is set to **Okta username**.

Update User Attributes

☒ Enable 


Okta updates a user's attributes in ServiceNow UD when the app is assigned. Future attribute changes made to the Okta user profile will automatically overwrite the corresponding attribute value in ServiceNow UD.

Deactivate Users

☒ Enable 

Deactivates a user's ServiceNow UD account when it is unassigned in Okta or their Okta account is deactivated. Accounts can be reactivated if the app is reassigned to a user in Okta.


Sync Password

☒ Enable 

Creates a ServiceNow UD password for each assigned user and pushes it to ServiceNow UD.

Password type

☐ Sync a randomly generated password

☒ Sync Okta Password 

Active

Go to S

Satyanarayan Rout
servicenow.satyarout@gmail.com

10

- After enabling provisioning settings like Create user, Update user attribute, Deactivate user & sync password, the provisioning process is complete for our application.
- Next we need to create User and assign them to our application so that that particular user can be able to login through SSO to servicenow instance.
- **Steps:**
- **Click on Directory menu > people > add person > provide user details like first name, last name, email & password > click on save.**

The screenshot displays the Okta People management interface. On the left, the 'Directory' menu is expanded, with 'People' and 'Groups' highlighted. A red box highlights the 'Add person' button. A red annotation states: 'We can create user and group to allow them through Okta SSO.' The main area shows a list of users, with one user 'System Administrator' listed. The 'Add Person' modal is open on the right, showing fields for User type (set to 'User'), First name, Last name, Username (with a hint 'Must be an email'), Primary email, Groups (optional), and Activation (set to 'Activate now'). There is also a checkbox for 'I will set password' and buttons for 'Save', 'Save and Add Another', and 'Cancel'.

Okta People Management Interface

Left Sidebar (Directory Menu):

- Dashboard
- Directory
 - People** (highlighted)
 - Groups** (highlighted)
- Devices
- Profile Editor
- Directory Integrations
- Profile Sources
- Customizations

Main Content Area (People):

We can create user and group to allow them through Okta SSO.

Buttons: Add person, Reset passwords, More actions

Search: Search for users by first name, primary email or username

Advanced search: Status: All, Showing 6 of 6

Person & username	Primary email	Status
System Administrator admin@example.com	admin@example.com	Pending user action

Add Person Modal:

User type: User

First name: [Text Field]

Last name: [Text Field]

Username: [Text Field] (Must be an email)

Primary email: [Text Field]

Groups (optional): [Text Field]

Activation: Activate now

☐ I will set password

Do not send unsolicited or unauthorized activation emails. [Read more](#)

Buttons: Save, Save and Add Another, Cancel

- After successfully creating the user it's going to be visible under People with status as active.

Okta Search for people, apps and groups tech.srout@gmail... okta-dev-15872658

People [Help](#)

[Add person](#) [Reset passwords](#) [More actions](#)

Search for users by first name, primary email or username [Advanced search](#)

Status: All Showing 7 of 7

Person & username	Primary email	Status
Saty Vison saty@gmail.com	saty@gmail.com	Active
System Administrator admin@example.com	admin@example.com	Pending user action
Abel Tuter abel.tuter1@example.com	abel.tuter1@example.com	Active

Let's say i created a user saty vison and i want to assign this user to Servicenow UD app,so i need to click on user name then an option appear to assign to your app.

- To assign the user you created just now to your Servicenow application follow these steps:

Click on user name under Directory>People>then click on assign application>Select your application>click on assign>provide some user details >then it will assign the user to your Servicenow App and as the user provisioning is enabled the same account will be created on Servicenow sys_user table .

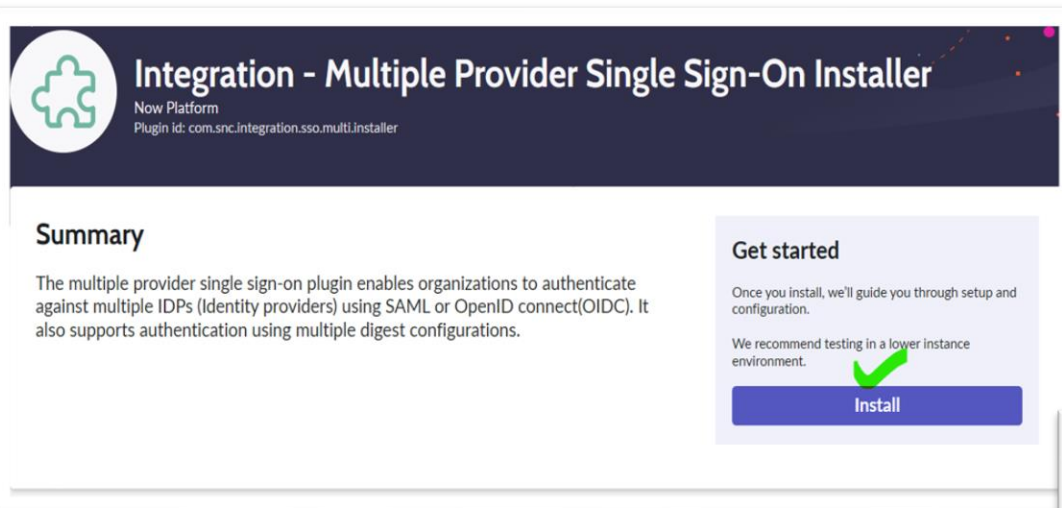
The image shows a sequence of three screenshots from the Okta admin console illustrating the steps to assign an application to a user.

First Screenshot (Okta Admin Console): The user 'Saty Vison' (saty@gmail.com) is selected. The 'Assigned Applications' tab is active, and the 'Assign Applications' button is highlighted with a red box. A red arrow points from this button to the second screenshot.

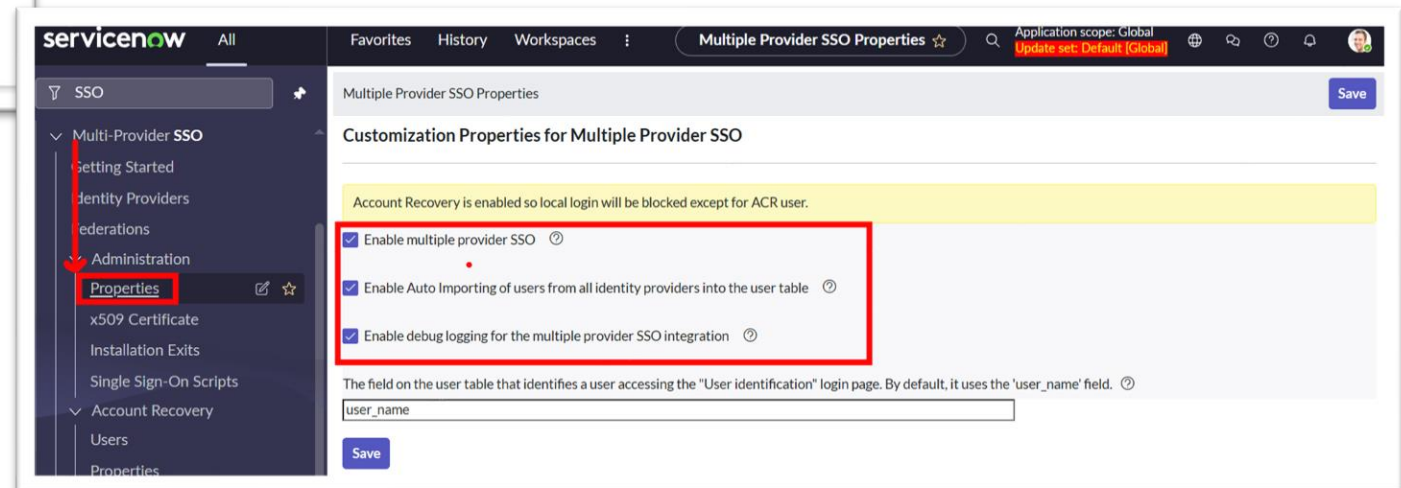
Second Screenshot (Assign Applications Modal): This modal shows a list of applications. 'ServiceNow OKTA SSO' is selected and highlighted with a red box, and its 'Assign' button is highlighted with a yellow box. A yellow text prompt 'Find you app and assign|' is visible. A black arrow points from this modal to the third screenshot.

Third Screenshot (Assign Applications Form): This form allows for user details to be specified. The 'Username' field is pre-filled with 'saty@gmail.com'. The 'Title' field is pre-filled with 'developer|'. A 'Done' button is at the bottom right. A black arrow points from the 'Assign' button in the second screenshot to this form.

- Everything configured from Okta end now we need to setup ServiceNow SSO Configuration as follows:
 - Enable **Integration - Multiple Provider Single Sign-On Installer (com.snc.integration.sso.multi.installer)** .
 - **Enable multiple provider SSO property as per given screenshot.**



The screenshot shows the 'Integration - Multiple Provider Single Sign-On Installer' plugin page in ServiceNow. The header includes the plugin icon (a green puzzle piece) and the title 'Integration - Multiple Provider Single Sign-On Installer'. Below the header, there is a 'Summary' section with a description: 'The multiple provider single sign-on plugin enables organizations to authenticate against multiple IDPs (Identity providers) using SAML or OpenID connect(OIDC). It also supports authentication using multiple digest configurations.' To the right of the summary is a 'Get started' section with a green checkmark icon and the text 'We recommend testing in a lower instance environment.' Below this is a blue 'Install' button.



The screenshot shows the 'Multiple Provider SSO Properties' configuration page in ServiceNow. The left sidebar shows the navigation menu with 'SSO' expanded and 'Properties' selected. The main content area is titled 'Customization Properties for Multiple Provider SSO'. It contains a yellow warning banner: 'Account Recovery is enabled so local login will be blocked except for ACR user.' Below this, there are three checked properties: 'Enable multiple provider SSO', 'Enable Auto Importing of users from all identity providers into the user table', and 'Enable debug logging for the multiple provider SSO integration'. At the bottom, there is a text field for 'The field on the user table that identifies a user accessing the "User identification" login page. By default, it uses the 'user_name' field.' with the value 'user_name' entered. A 'Save' button is at the bottom right.

- To create a identity provider simple do this:

ServiceNow Identity Providers list page. The 'Identity Providers' menu item in the left sidebar is highlighted. A yellow arrow points from this box to the 'New' button in the top right corner of the table. The table lists existing providers:

Name	Active	External logout redirect	Single Sign-On Script	Default	Auto Redirect IdP
Auth0	false	external_logout_complete.do	MultiSSO_OIDC_custom	false	false
Azure AD	false	external_logout_complete.do	MultiSSO_OIDC_custom	false	false
Digested Token	false	external_logout_complete.do	MultiSSO_DigestedToken	false	false

ServiceNow 'What kind of SSO are you trying to create?' dialog. The 'SAML' option is highlighted with a red box. The 'Identity Providers' menu item in the left sidebar is also highlighted with a blue box.

Import Identity Provider Metadata dialog. The 'URL' radio button is selected. The URL field contains: `https://dev-15872658.okta.com/app/...d16rIF...sso/saml/metadata`. The 'Import' button is highlighted.

- Here provide the url that you have copied during SAML SignOn configuration & import.

- Then an IDP will be created as per the import link data where we need to do few things like in Identity Provider's SingleLogoutRequest field paste the url mentioned in the OKTA DOC & in Advance section change User Field value as "user_name", then click on test connection .

The screenshot shows the ServiceNow interface for configuring an Identity Provider. The left sidebar contains navigation links: Filter, Self-Service, Business Applications, Dashboards, Service Catalog, Employee Center, Knowledge, Visual Task Boards, Incidents, Watched Incidents, My Requests, Requested Items, Watched Requested Items, My Connected Apps, and My Profile. The main content area is titled 'Identity Provider - Okta Custom SSO' and includes buttons for Update, Generate Metadata, Test Connection, and Deactivate. The configuration fields are as follows:

Field	Value
Name	Okta Custom SSO
Active	<input checked="" type="checkbox"/>
Default	<input checked="" type="checkbox"/>
Auto Redirect IdP	<input type="checkbox"/>
Identity Provider URL	exkgbyrz...gu4EIN5d7
Identity Provider's AuthnRequest	https://dev-761...okta.com/ap...ricenow_ud/exkgbyrz...IN5d7/sso/saml
Identity Provider's SingleLogoutRequest	https://dev-761...okta.com.../servicenow_ud/exkgbyrz...ngu...5d7/slo/saml
ServiceNow Homepage	https://dev...23.service-now.com/navpage.do
Entity ID / Issuer	https://de...23.service-now.com
Audience URI	https://de...423.service-now.com
NameID Policy	urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress
External logout redirect	external_logout_complete.do

A red box highlights the 'Identity Provider's SingleLogoutRequest' field, with a red text annotation: 'copy and paste the url from the doc provided by Okta during SAML config reference purpose.'

- If SSO test Connection Summary display success message then click on activate .

SSO Login Test Results

- ✓ SAML Login response received
- ✓ SAML Assertion retrieved
- ✓ Signature Validated
- ✓ Certificate Validated
- ✓ AudienceRestriction/Condition Validated
- ✓ Certificate Issuer Validated
- ✓ Subject Confirmation Validated

SSO Logout Test Results

- ✓ SAML Logout response received
- ✓ SAML Logout Response 'inResponseTo' validated
- ✗ SAML Logout Response 'Status' validation failed
Failed to validate logout response status. Expected: urn:oasis:names:tc:SAML:2.0:status:Success, Actual:
urn:oasis:names:tc:SAML:2.0:status:RequestUnsupported
Ensure that the IDP is configured to support requests from the Service Provider.

SSO Test Connection Summary

- ✓ SSO Login tests succeeded. SSO Logout tests failed. IDP Configuration can be activated by clicking 'Activate' button.
Users will be able to login and logout of the instance, but will not be logged out of the IDP. Please refer to the logs for test details.

Click the "Activate" button to save and activate this configuration. Click the "Close" button to close this window and continue editing the SSO configuration.

“
THANK YOU!!!
”

Satyanarayan Rout
servicenow.satyarout@gmail.com

