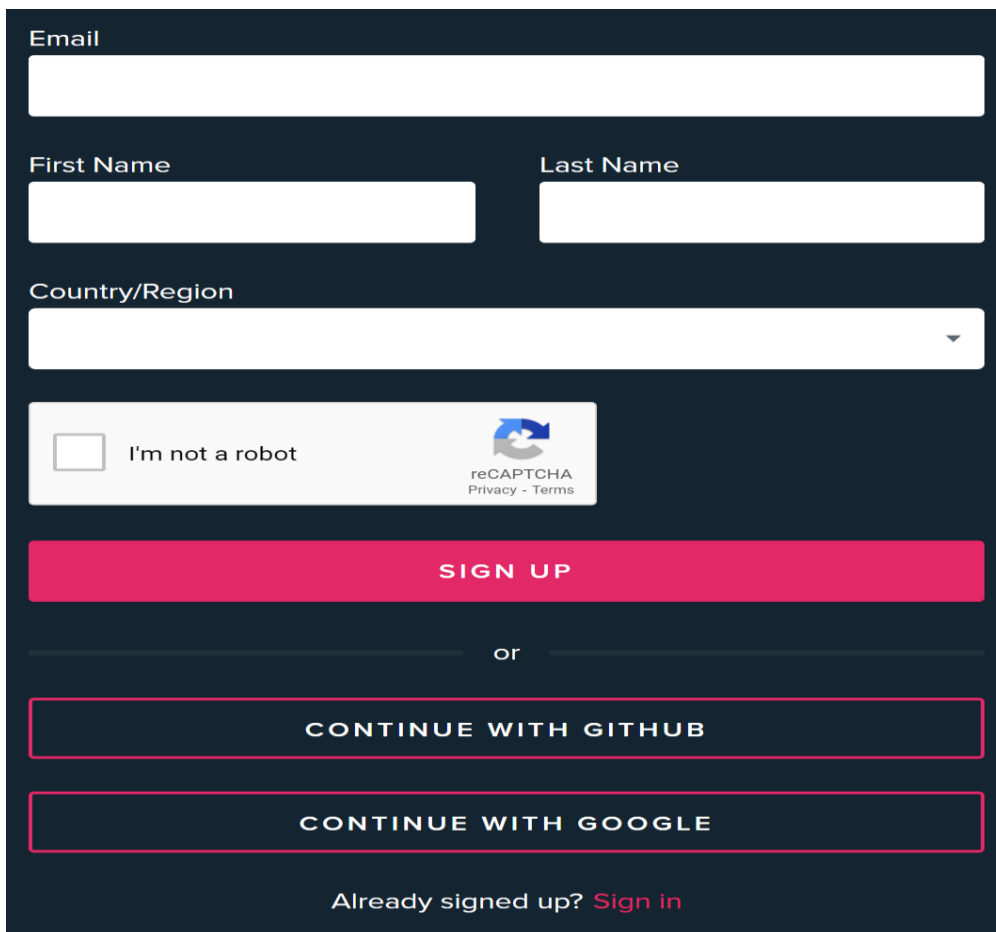


SAML Integration In OKTA

Set up a developer account with OKTA

- OKTA is an identity provider with services like Single Sign-On, Multi-factor Authentication.
- To request a trial with OKTA, you will need a business email. But it's also possible to request a developer account with no email restrictions from this link.
- <https://developer.okta.com/signup/>



The image shows a dark-themed web form for signing up for a developer account. The form includes the following elements:

- Email:** A single-line text input field.
- First Name:** A single-line text input field.
- Last Name:** A single-line text input field.
- Country/Region:** A dropdown menu.
- reCAPTCHA:** A checkbox labeled "I'm not a robot" next to a reCAPTCHA logo and the text "reCAPTCHA Privacy - Terms".
- SIGN UP:** A prominent pink button.
- or:** A small text separator.
- CONTINUE WITH GITHUB:** A button with a pink border.
- CONTINUE WITH GOOGLE:** A button with a pink border.
- Already signed up? Sign in:** A link at the bottom of the form.

- After verifying your email and logging in, you should see this page.

- Go to Applications → Applications in the left-hand side tab to open the list of applications in your organization, which should only contain the three default active apps.

Applications




[Help](#)

Your plan provides a limited number of custom apps.

See the [plan page](#) for more information. Upgrade to the Enterprise Plan to get more apps and more monthly active users.

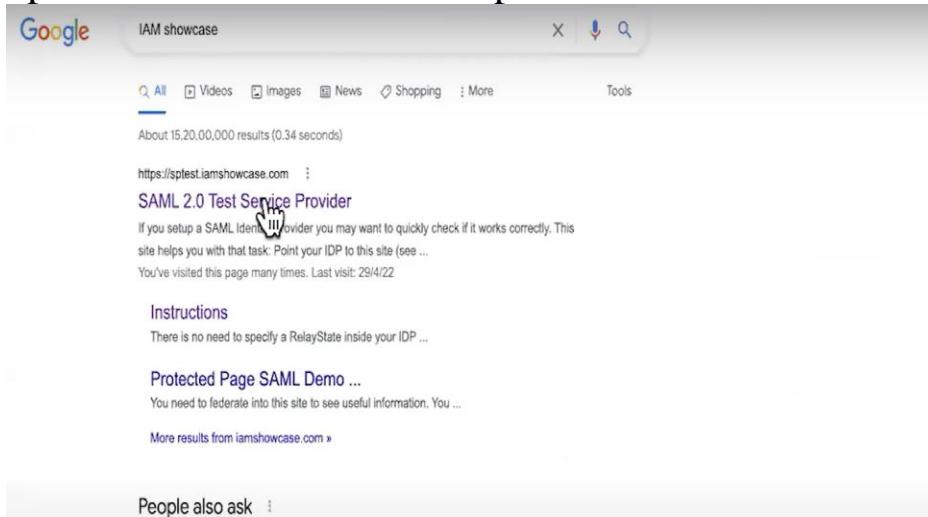
[Upgrade](#)

[Create App Integration](#) [Browse App Catalog](#) [Assign Users to App](#) [More ▾](#)

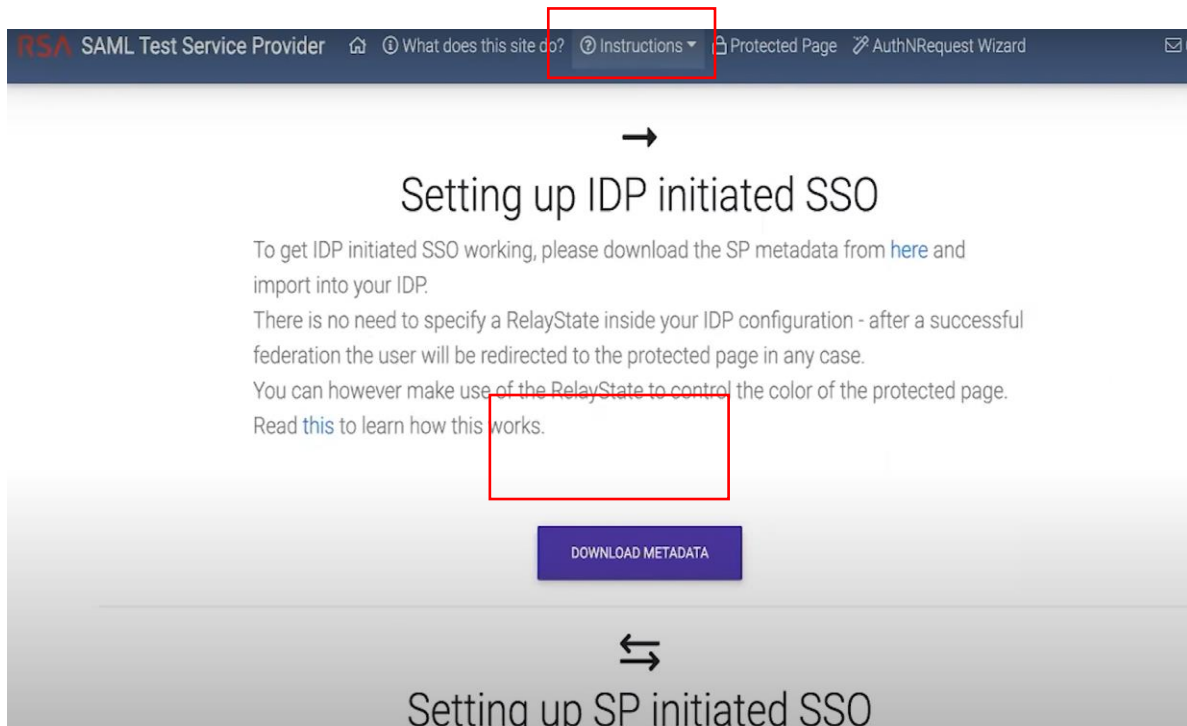
STATUS		Q Search	
ACTIVE	0		Okta Admin Console
INACTIVE	1		Okta Browser Plugin
			Okta Dashboard

Create a Dummy App(Metadata)

- Create a dummy application. For that go to IAM Showcase and open SAML 2.0 test service provider.



- Open instructions and click on download Metadata.



- We need to create trust between our application and Okta

Create a Demo App

- From the same Okta Applications UI, select Create App Integration, choose SAML 2.0 for Sign-on method and click Next.

Create a new app integration ×

Sign-on method

[Learn More](#)

☐ OIDC - OpenID Connect

Token-based OAuth 2.0 authentication for Single Sign-On (SSO) through API endpoints. Recommended if you intend to build a custom app integration with the Okta Sign-In Widget.

☒ SAML 2.0

XML-based open standard for SSO. Use if the Identity Provider for your application only supports SAML.

☐ SWA - Secure Web Authentication

Okta-specific SSO method. Use if your application doesn't support OIDC or SAML.

☐ API Services

Interact with Okta APIs using the scoped OAuth 2.0 access tokens for machine-to-machine authentication.

[Cancel](#)

[Next](#)

- Set a name for your application and click Next.

1 General Settings

App name

saml-sample

App logo (optional) ?



App visibility

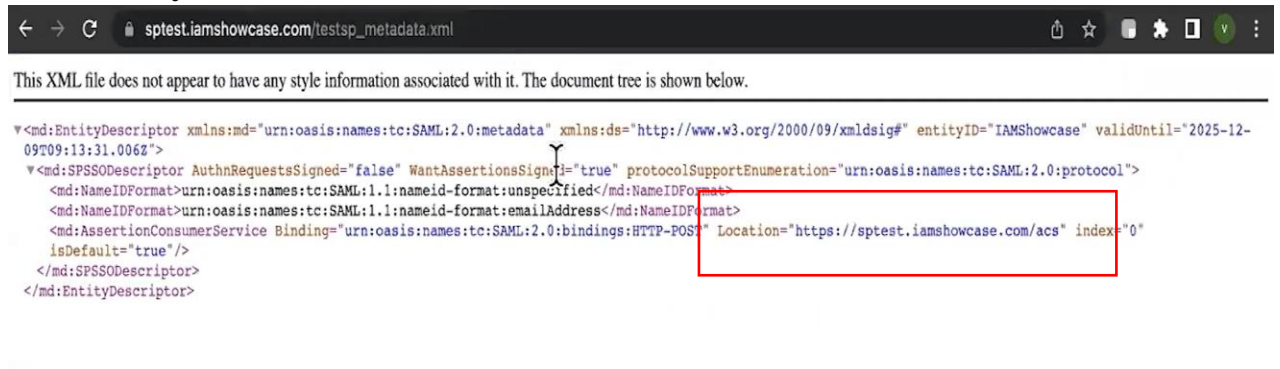
☐ Do not display application icon to users

☐ Do not display application icon in the Okta Mobile app

[Cancel](#)

[Next](#)

- Now we need to add single sign on URL for that go to Metadata, where you will find the URL as mentioned below.



- Copy that URL and paste it in Single Sign On URL
- No similarly copy Entity Id from Metadata and paste it in Audience URI (SP Entity ID).



dev-54007494-admin.okta.com/admin/apps/saml-wizard/create

rockstar overview (youtube)

API Explorer

Customizations

Applications

Security

Workflow

Reports

Settings

Create SAML Integration

1 General Settings 2 Configure SAML 3 Feedback

A SAML Settings

General

Single sign on URL ☒ Use this for Recipient URL and Destination URL ☐ Allow this app to request other SSO URLs

Audience URI (SP Entity ID)

Default RelayState

If no value is set, a blank RelayState is sent.

Name ID format

Application username

What does this form do?
This form generates the XML needed for the app's SAML request.

Where do I find the info this form needs?
The app you're trying to integrate with should have its own documentation on using SAML. You'll need to find that doc, and it should outline what information you need to specify in this form.

Okta Certificate
Import the Okta certificate to your Service Provider if required.
[Download Okta Certificate](#)

- Click on next.
- Select I'm an Okta customer adding an internal app and This is an internal app that we have created for the next step and click Finish.

3 Help Okta Support understand how you configured this application

Are you a customer or partner?

☒ I'm an Okta customer adding an internal app

☐ I'm a software vendor. I'd like to integrate my app with Okta

i The optional questions below assist Okta Support in understanding your app integration.

App type ?

☒ This is an internal app that we have created

[Previous](#)
[Finish](#)

- Change to Assignments tab of your newly created app, click Assign → Assign to People to assign it to yourself.


Assign saml-sample to People ×

User Name

<your email here>

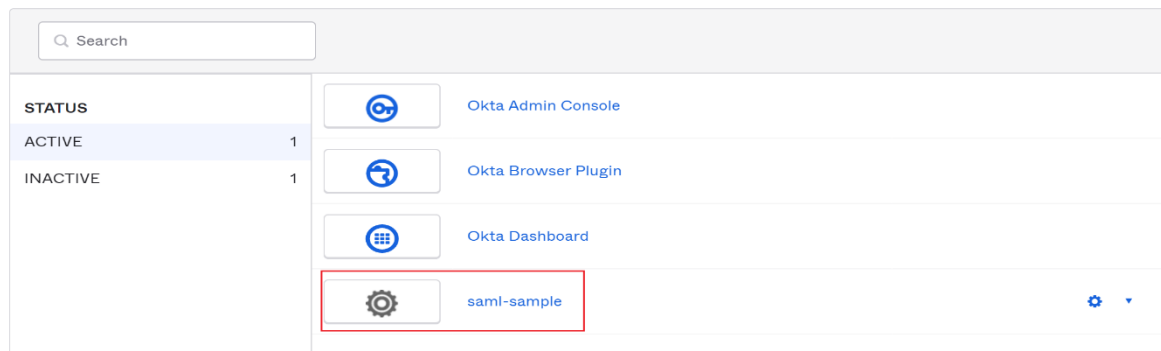
[Save and Go Back](#)
[Cancel](#)

- You should be able to see your name in the list of people who have access to this app.

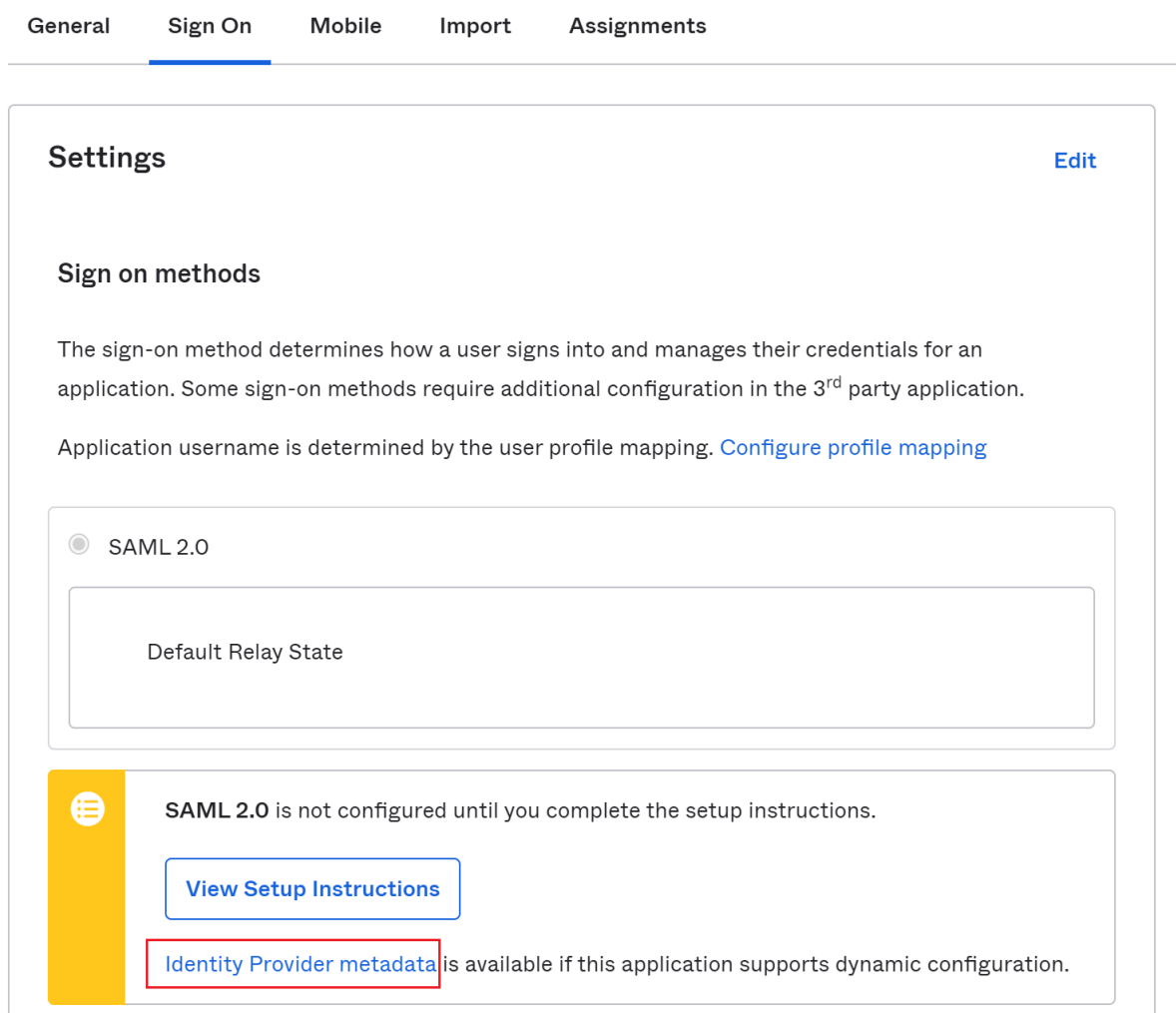
Assign ▼ Convert assignments ▼ Q Search... People ▼		
Filters	Person	Type
People	 Thai Duong Nguyen	Individual ✎ ×
Groups		

Get the necessary SAML information

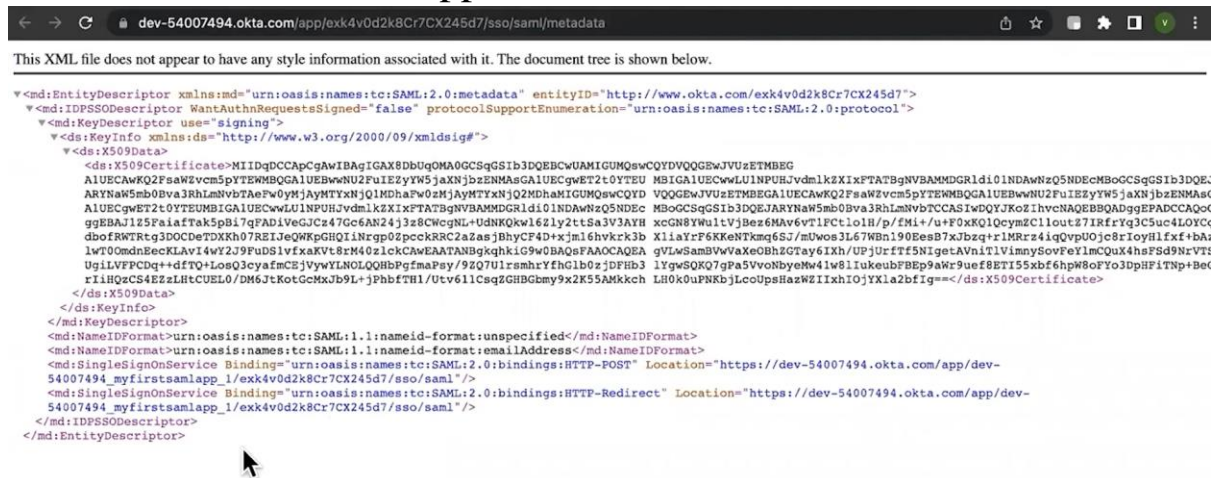
- Select *SAML-sample* app from the list of applications.



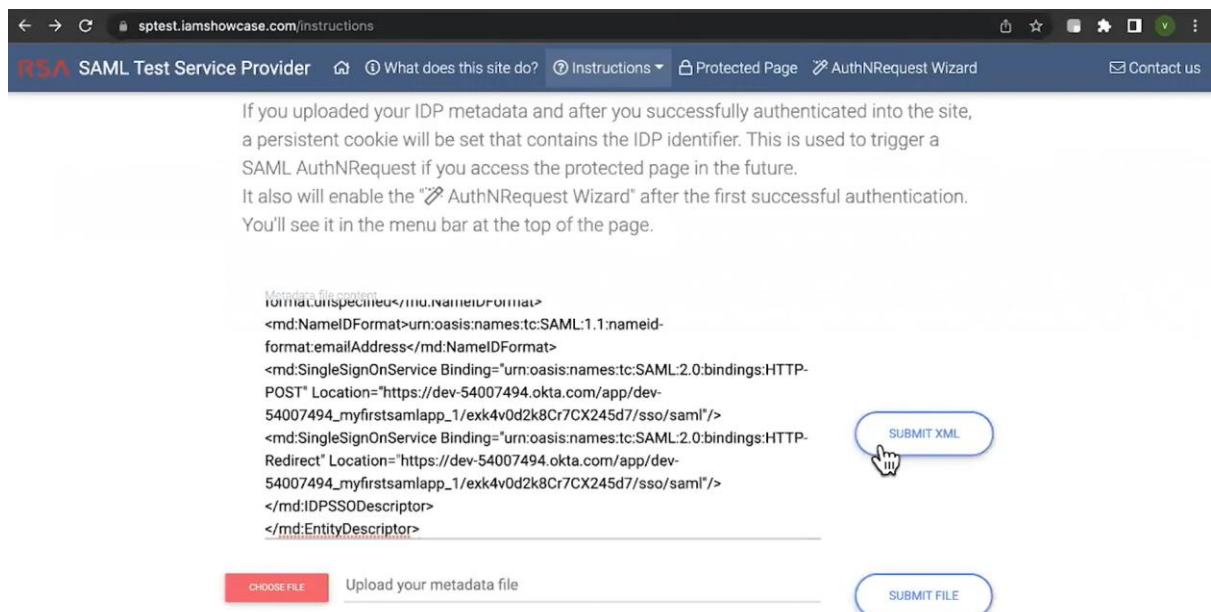
- Switch to Sign On tab, click Identity Provider Metadata and copy its URL.



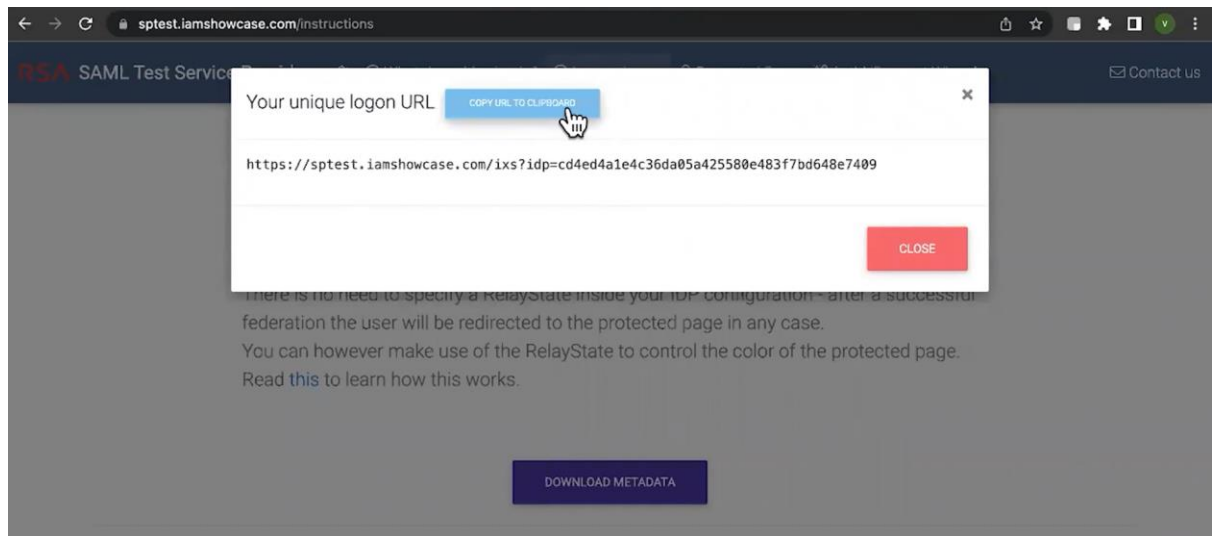
- This is the link to the metadata file we will use to integrate OKTA with our web app.



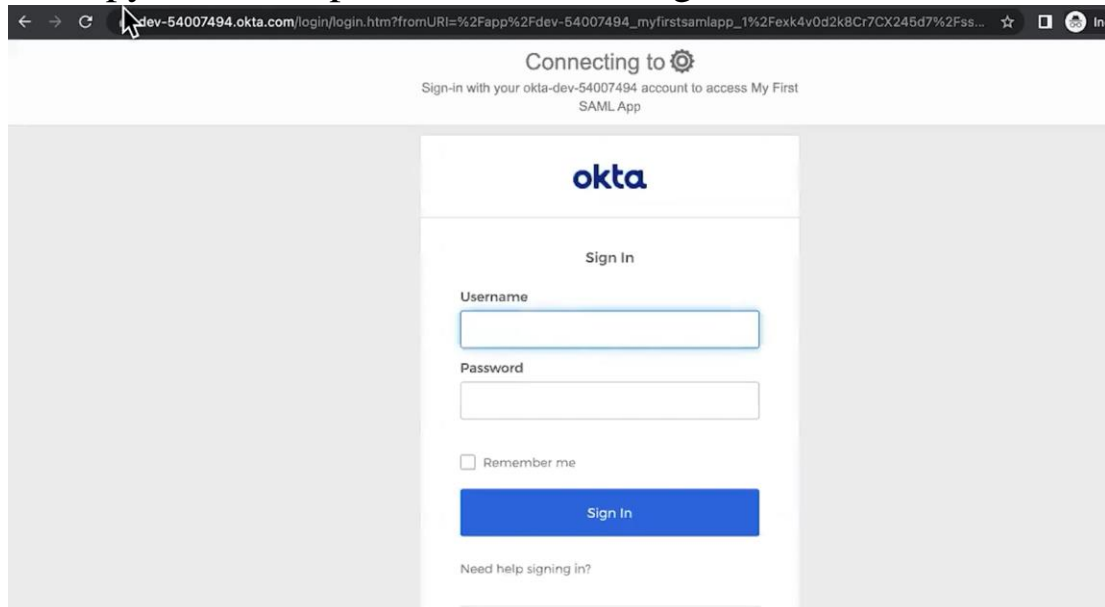
- Copy this Metadata URL and scroll below in Metadata instruction page and paste it in metadata file content. And hit Submit XML



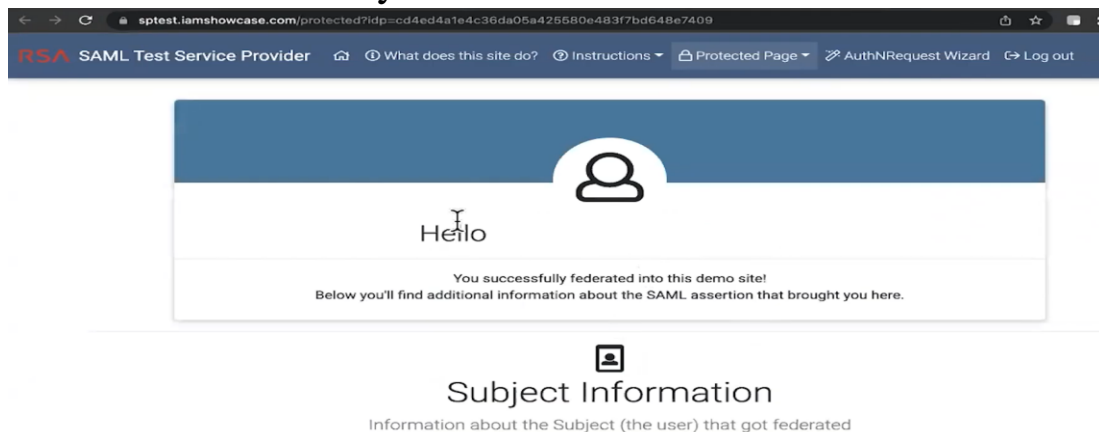
- You will get a URL which the application has provided to you.
- Copy that URL paste it in New Incognito Window



- Copy that URL paste it in New Incognito Window.

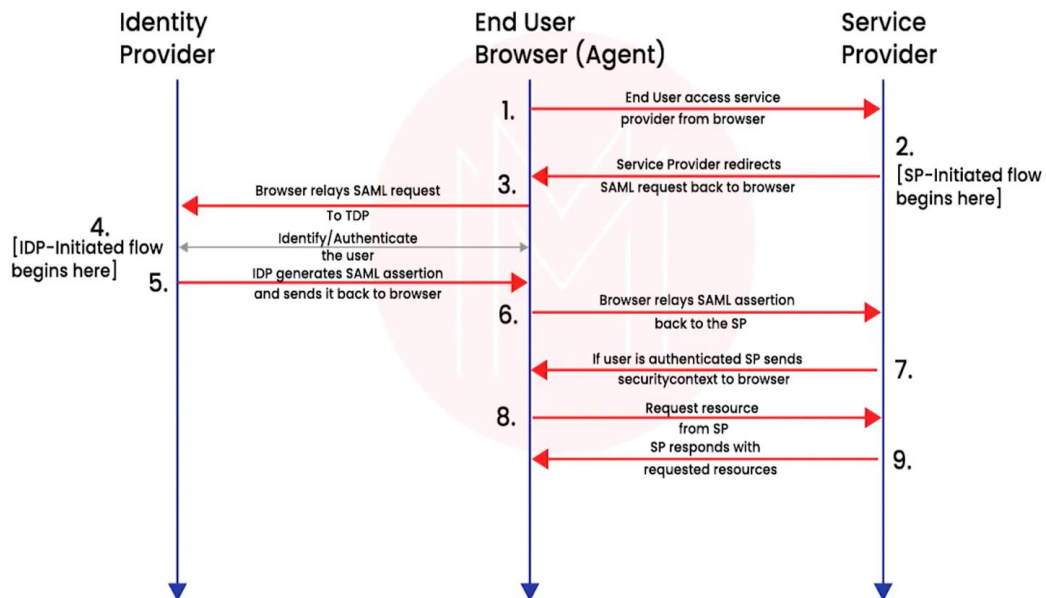


- You will get redirected to Okta. Once the authentication is done you will be redirected to application.
- Click on View Setup Instructions, on the next screen, note down the value in Identity Provider Issuer field.



SAML Flow

SAML Flow



- We want to access the service provider on any application so as an end user we go to the browser and hit the url of the application.
- Now if we are going to the link of application that means we are going to step 2. And from there our SP Initiate flow is going to begin.
- From service provider it will redirect the SAML request back to the browser & from the browser, browser will relay SAML request to the identity provider as SAML is going to authenticate the user.
- In SP Initiate flow there is always redirection from this service provider to the identity provider.
- In this place our IDP-Initiated flow will begin. IDP will identify and authenticate the user. Once the identity provider is satisfied it will generate a SAML assertion.

- SAML assertion is being generated and is sent back to the browser. Now browser has got nothing to do with the assertion because browser cannot consume that assertion. So, it will go to the service provider.
- At service provider it will check, it will pass decrypt the search. It will decrypt because service provider has some of the information which okta has already provided, or the identity provider is already provided. It is happening because there was a metadata exchange between the service provider and the identity provider.
- If the user is authenticated service provider sends the security context to the browser. From the browser it requests resource from the service provider and then requested resource is being granted to the user.
- For IDP-Initiated flow we don't have 1,2,3 steps, it will directly flow from Step 4 to Step 9.
- For SP -Initiated flow we have 1,2,3 steps.
- There is no comparison between these two flows. It is based on requirement of the application team.