

ComponentSpace

SAML for ASP.NET Core

Okta

Integration Guide

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Introduction

This document describes integration with Okta as the identity provider.

For information on configuring Okta for SAML SSO, refer to the following article.

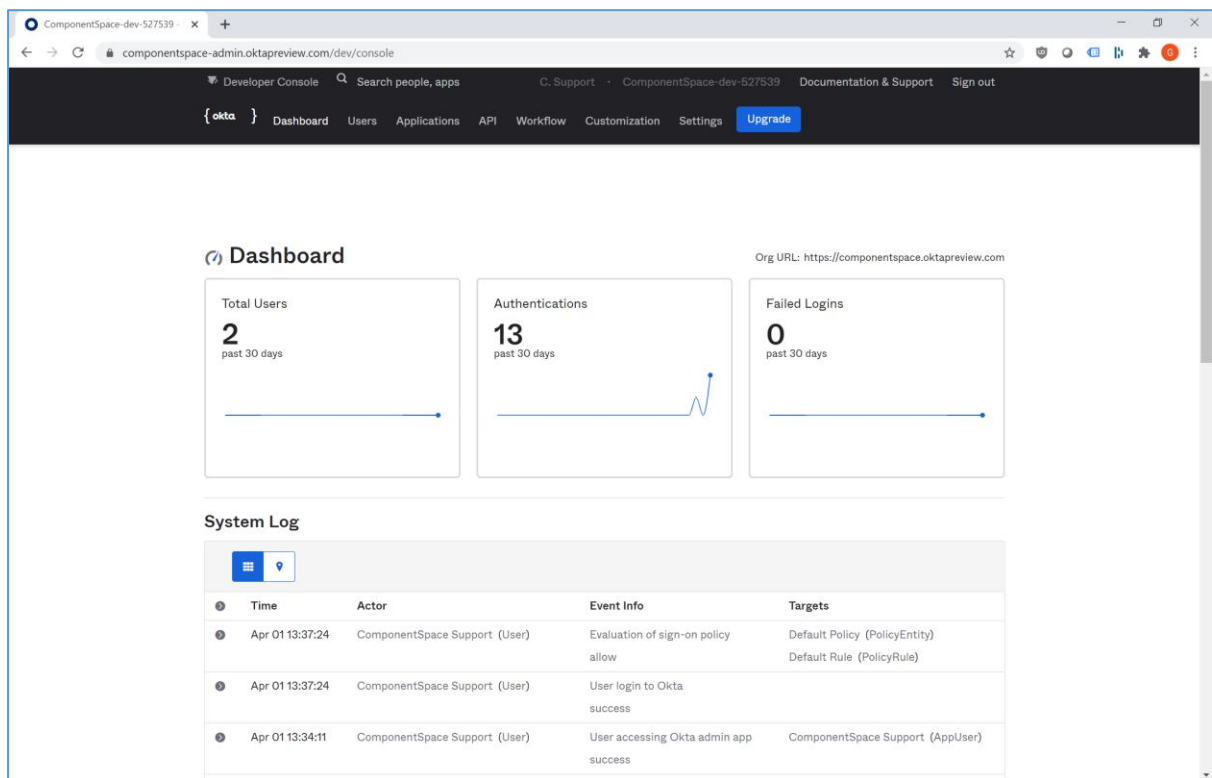
https://help.okta.com/en/prod/Content/Topics/Apps/Apps_App_Integration_Wizard_SAML.htm

Note that the developer edition of Okta was used for demonstration purposes.

Adding a SAML Application

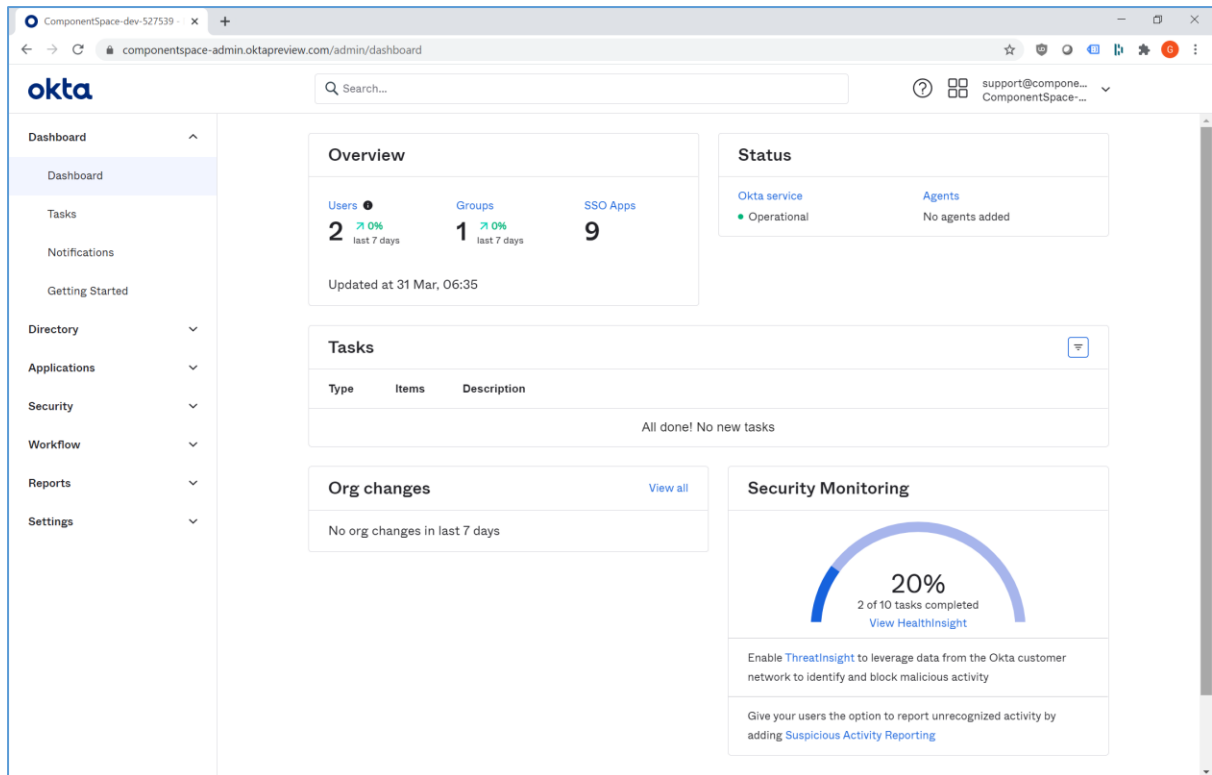
Login to Okta as an administrator.

Switch from the Developer Console to the Admin Console by selecting the Developer Console > Classic UI link in the top left corner.

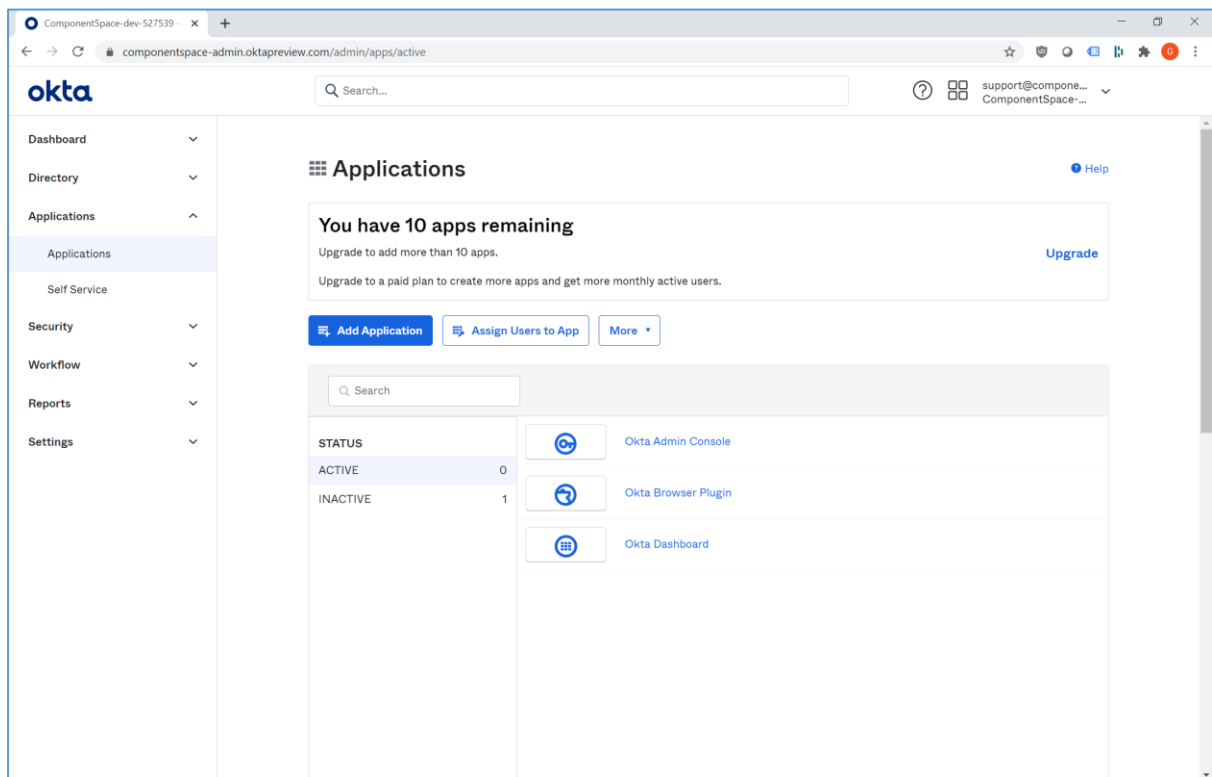


Select Applications from the menu bar.

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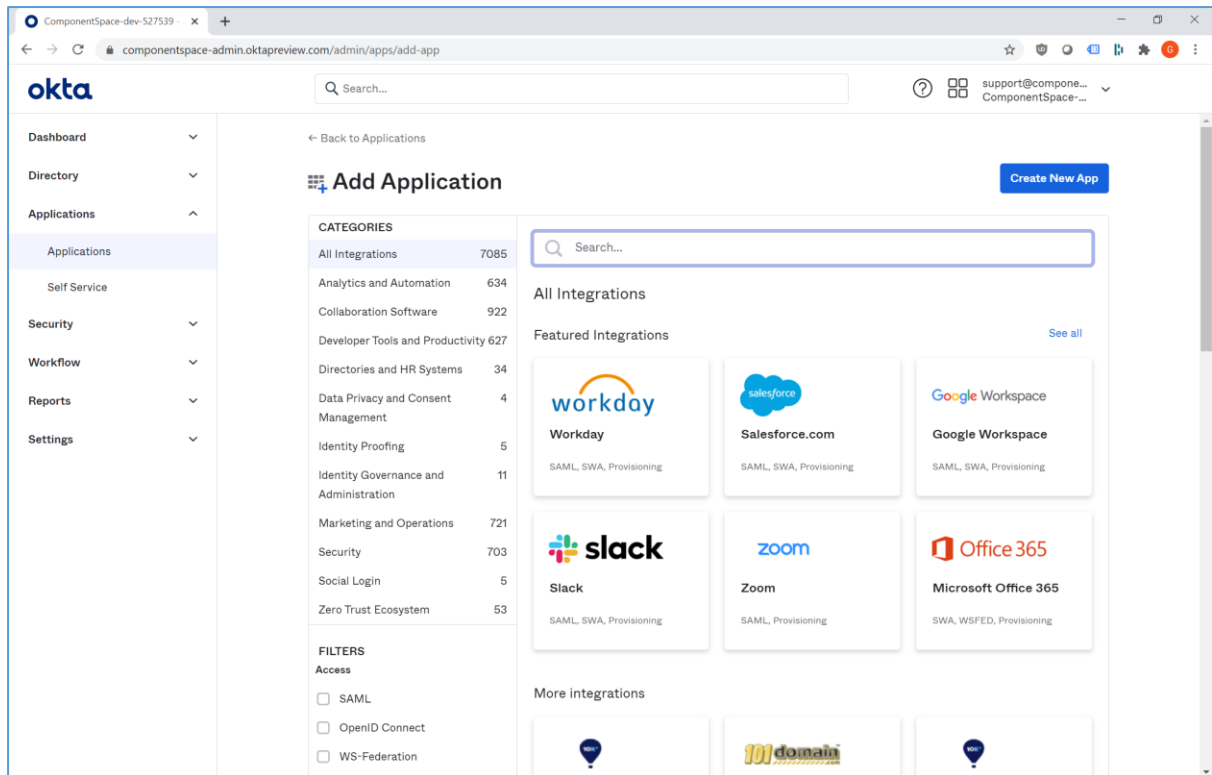


Click the Add Application button.

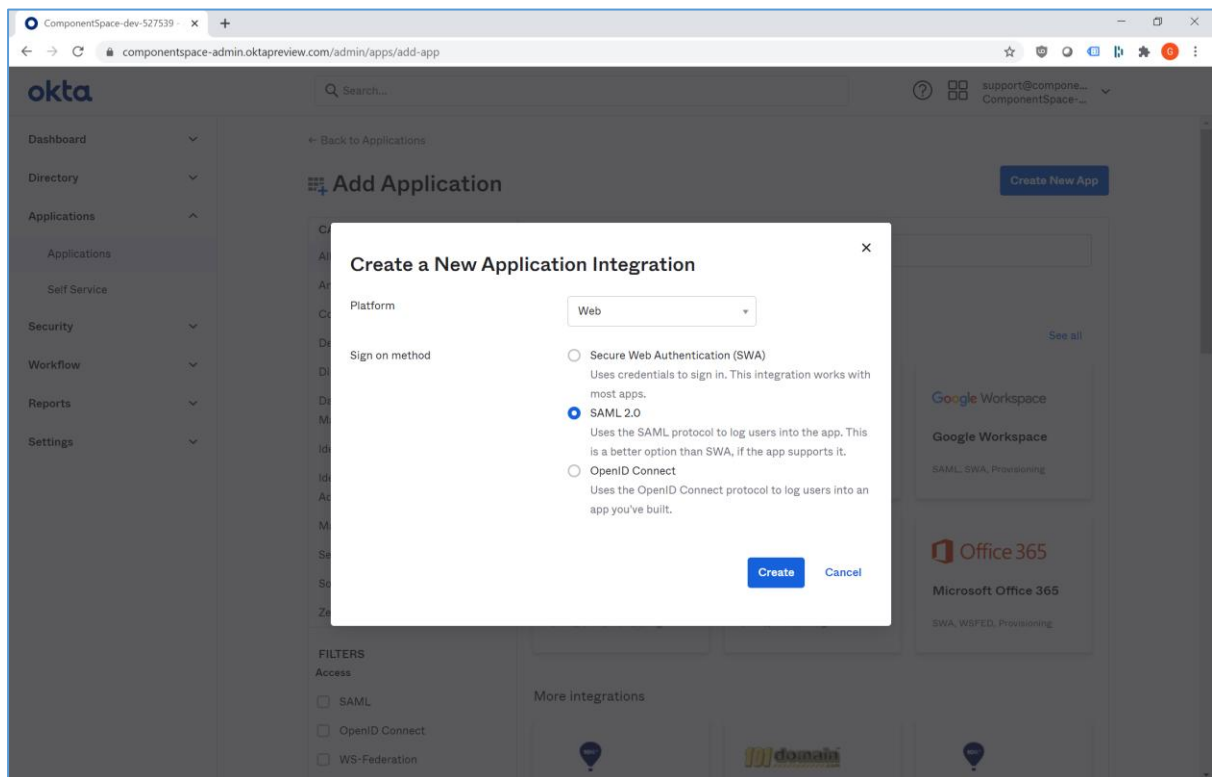


Click the Create New App button.

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Specify Web as the platform and SAML 2.0 as the sign-on method.



Specify an app name. This is for display purposes only.

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The screenshot shows the Okta Admin Console interface. The left sidebar contains navigation links: Dashboard, Directory, Applications, Security, Workflow, Reports, and Settings. The main content area is titled 'Create SAML Integration' and features a progress bar with three steps: 1. General Settings (active), 2. Configure SAML, and 3. Feedback. Below the progress bar, the 'General Settings' section includes an 'App name' field with the value 'ExampleServiceProvider', an 'App logo (optional)' field with a gear icon and a 'Browse' button, and an 'Upload Logo' button. A 'Requirements' section lists: 'Must be PNG, JPG or GIF', 'Less than 1MB', and 'For Best Results, use a PNG image with' (Minimum 420px by 120px to prevent upscaling, Landscape orientation, Transparent background). The 'App visibility' section has two checkboxes: 'Do not display application icon to users' and 'Do not display application icon in the Okta Mobile app', both of which are unchecked. At the bottom left is a 'Cancel' link and at the bottom right is a 'Next' button.

Specify the assertion consumer service URL as the single sign-on URL.

For example:

<https://localhost:44360/SAML/AssertionConsumerService>

The same URL should be used for the recipient URL and destination URL.

Specify the service provider name as the audience URI.

For example:

<https://ExampleServiceProvider>

Relay state is not required.

The name ID format is unspecified.

The Okta username is used.

Attribute and group attribute names are not required.

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componentspace-admin.oktapreview.com/admin/apps/saml-wizard/create

okta Search...

support@compone... ComponentSpace...

Dashboard

Directory

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

Update application username on

[Show Advanced Settings](#)

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 Identity Provider if required.
[Download Okta Certificate](#)

Click the Show Advanced Settings link.

Enable single logout.

Specify the single logout URL.

For example:

<https://localhost:44360/SAML/SingleLogoutService>

Specify the SP issuer. This is the name of the service provider.

For example:

<https://ExampleServiceProvider>

Upload the service provider certificate.

For example:

Sp.cer

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The screenshot shows the Okta Admin Console interface for configuring a SAML application. The left sidebar contains navigation links: Dashboard, Directory, Applications, Security, Workflow, Reports, and Settings. The main content area is titled "Create SAML Integration" and includes a "Hide Advanced Settings" link. The configuration fields are as follows:

- Response: Signed
- Assertion Signature: Signed
- Signature Algorithm: RSA-SHA256
- Digest Algorithm: SHA256
- Assertion Encryption: Unencrypted
- Enable Single Logout: ☒ Allow application to initiate Single Logout
- Single Logout URL: https://localhost:44360/SAML/SingleLogoutService
- SP Issuer: https://ExampleServiceProvider
- Signature Certificate: undefined (CN=www.sp.com) [Browse] [Upload Certificate]
- Assertion Inline Hook: None (disabled)
- Authentication context class: PasswordProtectedTransport
- Honor Force Authentication: Yes

Click the Next button, indicate this is an internal app, and click the Finish button.

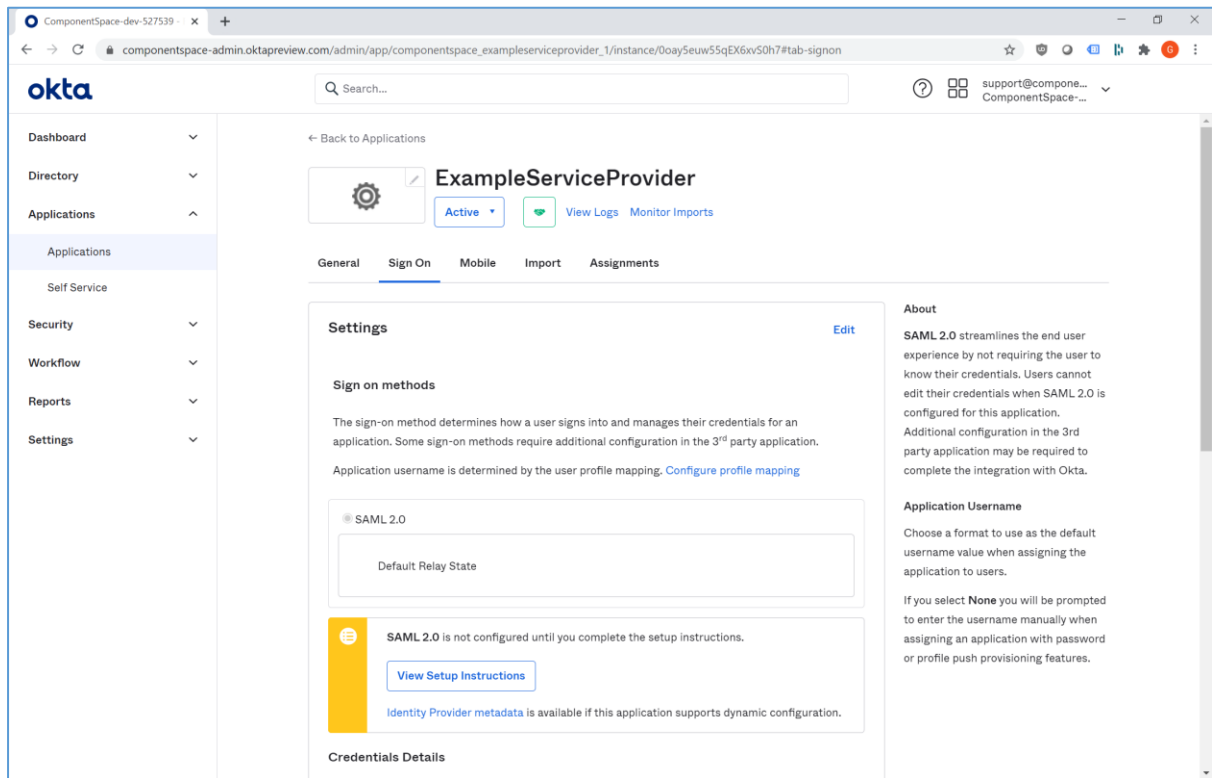
The screenshot shows the Okta Admin Console interface for configuring a SAML application, specifically the "Feedback" step. The left sidebar contains navigation links: Dashboard, Directory, Applications, Security, Workflow, Reports, and Settings. The main content area is titled "Create SAML Integration" and includes a "Previous" button and a "Finish" button. The configuration fields are as follows:

- Are you a customer or partner? ☒ I'm an Okta customer adding an internal app
- App type: ☒ This is an internal app that we have created

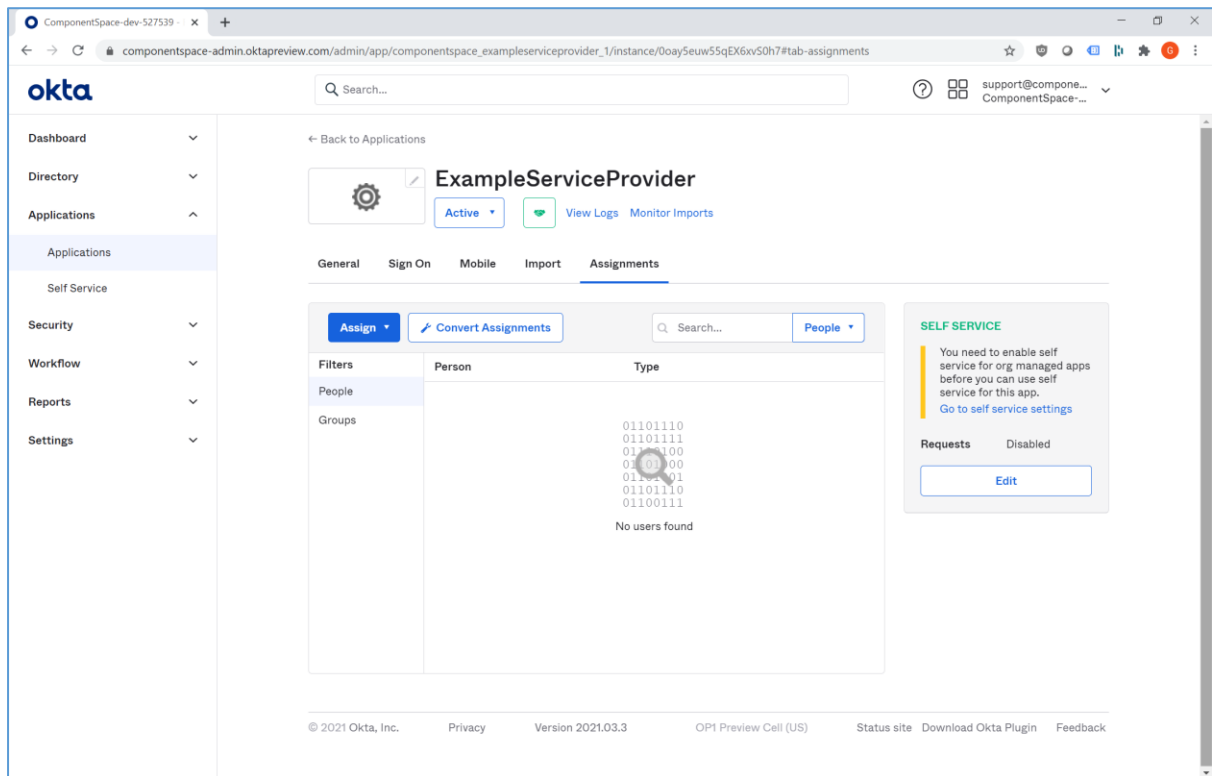
The "Previous" button is located at the bottom left, and the "Finish" button is located at the bottom right. The footer contains the following text: © 2021 Okta, Inc. Privacy Version 2021.03.3 OP1 Preview Cell (US) Status site Download Okta Plugin Feedback

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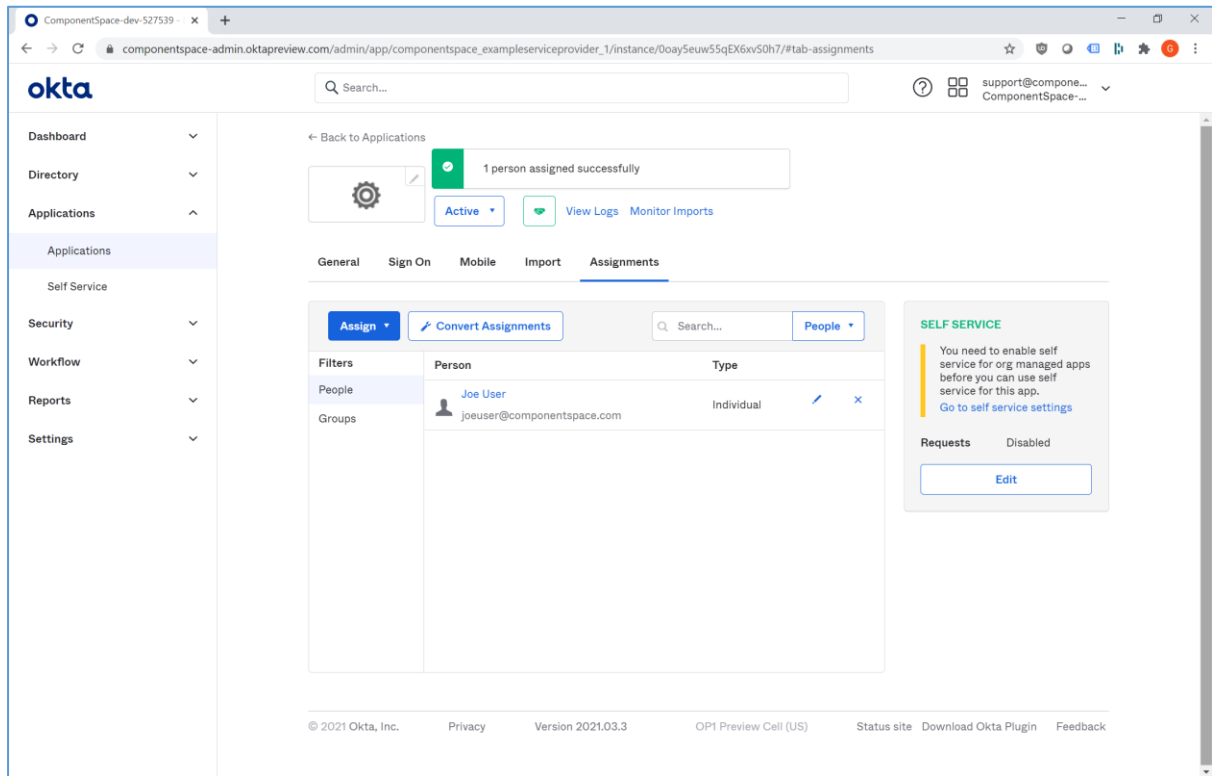
View the setup instructions or download the identity provider metadata. This information will be required when configuring the service provider.



Select the Assignments link.



Assign users or groups to the application. Only users directly assigned or assigned through group membership may SSO to the application.



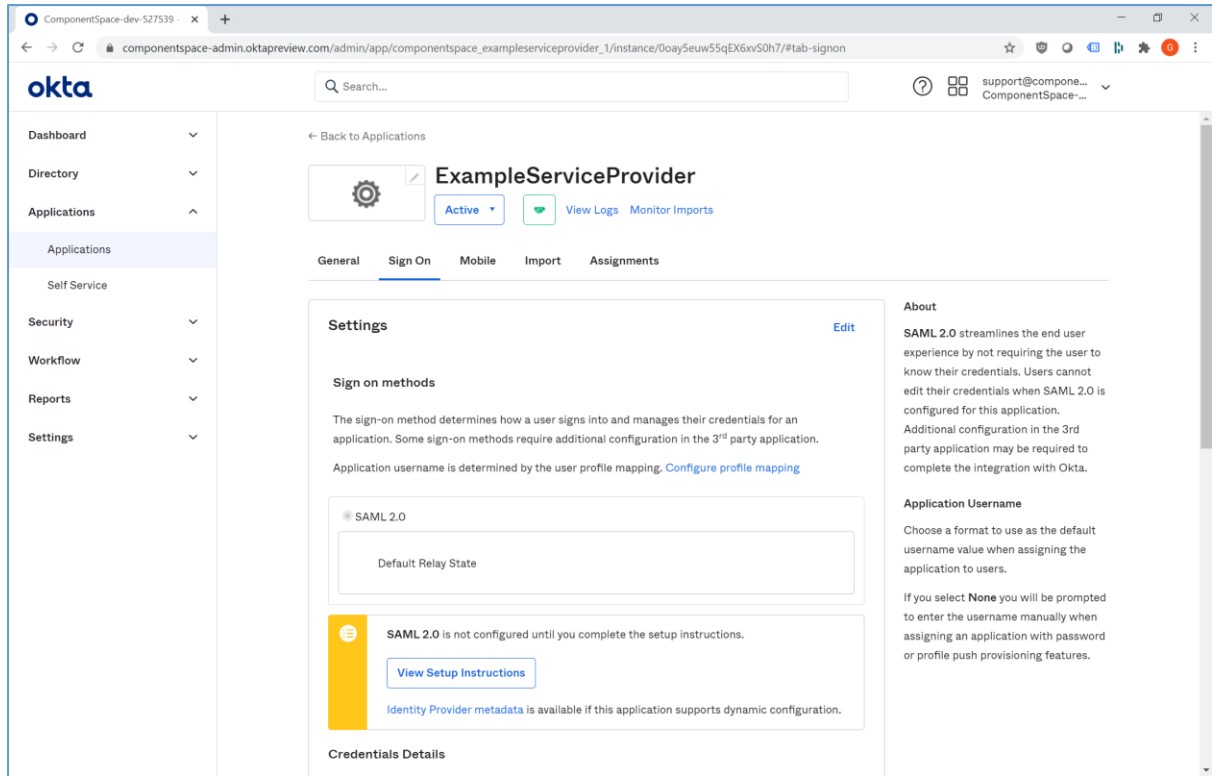
The application is now configured in Okta for SAML SSO.

Service Provider Configuration

The service provider must be configured with Okta as a partner identity provider.

The Okta SAML configuration is available using the Sign On link for the application.

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There are two options for setting up the partner identity provider configuration in the example service provider's SAML configuration.

The first option is to download Okta's SAML metadata and import this into the example service provider's SAML configuration. Please refer to the SAML Metadata Guide for more information.

The second option is to manually add a partner identity provider configuration using the information provided by Okta.

The identity provider single sign-on and single logout URLs are self-explanatory. The identity provider issuer corresponds to the partner identity provider name. The X.509 certificate is the partner certificate.

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componentspace-admin.oktapreview.com/app/componentspace_exampleServiceProvider_1/0oay5euw55qEX6xv50h7/setup/help/SAML_2_0/instructions

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support@compone...

ComponentSpace...

Dashboar

Directory

Applications

Applications

Self Service

Security

Workflow

Reports

Settings

How to Configure SAML 2.0 for ExampleServiceProvider Application

The following is needed to configure ExampleServiceProvider

- Identity Provider Single Sign-On URL:**

```
https://componentspace-oktapreview.com/app/componentspace_exampleServiceProvider_1/exky5euw54Xm4gyj30h7/sso/saml
```
- Identity Provider Single Logout URL:**

```
https://componentspace-oktapreview.com/app/componentspace_exampleServiceProvider_1/exky5euw54Xm4gyj30h7/slo/saml
```
- Identity Provider Issuer:**

```
http://www.okta.com/exky5euw54Xm4gyj30h7
```
- X.509 Certificate:**

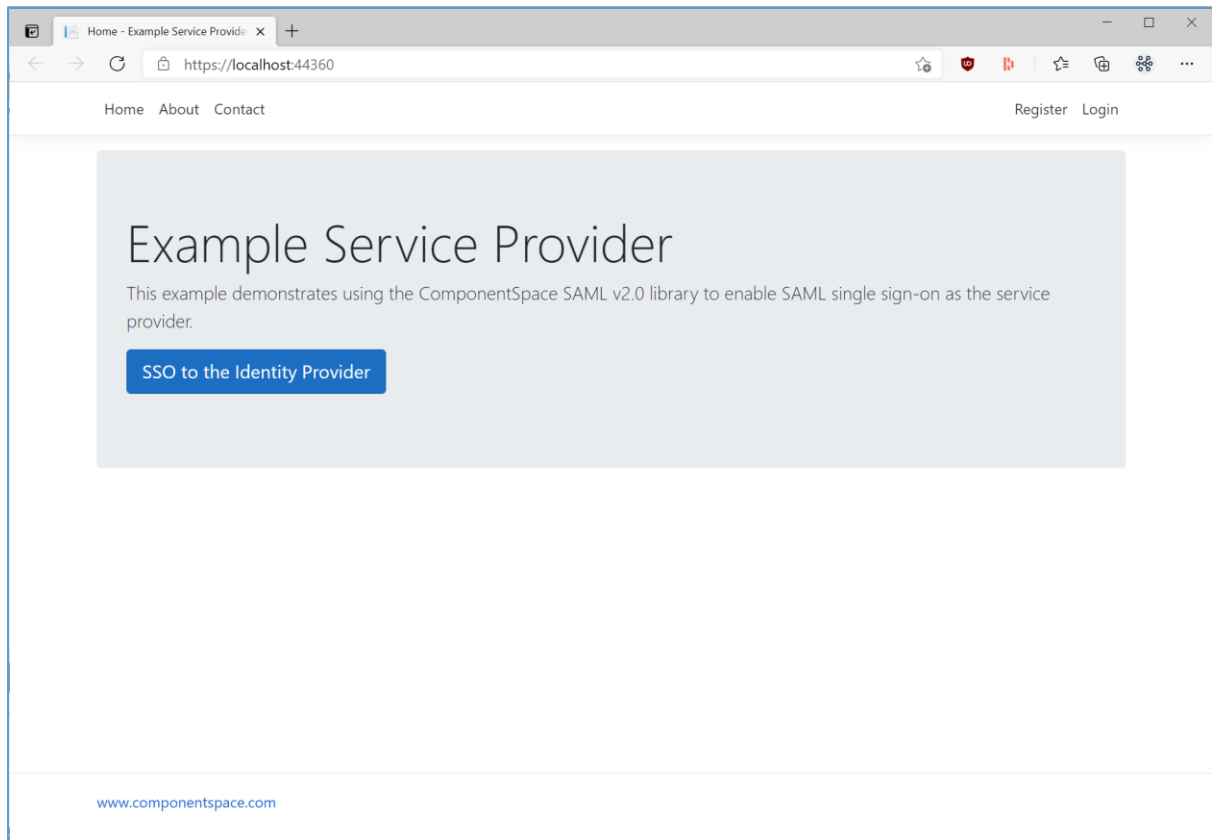
```
-----BEGIN CERTIFICATE-----
MIIDrDCCApSgAwIBAgI1GAV2tq58MADOCsQs1b3DQEBwUAM1OWMwCQYDVQQGEwJVaWUzETMB
A1UECAwQZ2FuaWZvcm5pYXZlZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9u
MBIGAIUCeWw1U1NPHUJvdjE1Zm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9u
AQAqBgIjpmwzC39BUEUzDjM4ODR5MzI0MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAw
BgwVBAU1VTRW9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9u
CwYDVQIDARFp3Rm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9u
Y2Zm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9uZm9u
ggEAA1BAQC11jphag1XMeTqVCEZkuKfthvP6GyYlph13fVaemvO1sLL5-vvpfUezSR5sZ78tp51
66QJuoFbecufvR1rvu/BNy/sicnaRLaw0CwYTSqfvrTdpFjM10SEFOLueuXIT1KcYDEd1D0htTh
cfp-uwQneC2LnStf7rA1kdv0BQY1U0uJTJ9NT10uNu1ZacUacmXCTSp118966eR/iDwepqNA801
47PaBf9N1v8eMfaV1jPfgKvntQeuLkPaAc5NCC1dAXY9bzdG1UEgWGP0f4yvVddahRt75NuK
pRmnd4g11BTq1B17j29CdnMLPtpcVPrPHtBgd6mcyfDZAgMBAAEwQZJkoZ1hvcnAqELBQAD
-----
```

```
{
  "Name": "http://www.okta.com/exky5euw54Xm4gyj30h7",
  "Description": "Okta",
  "SignAuthnRequest": true,
  "SignLogoutRequest": true,
  "SignLogoutResponse": true,
  "SingleSignOnServiceUrl":
    "https://componentsspace.oktapreview.com/app/componentsspace_exampleserviceprovider_1/exky5euw54Xm4gyj30h7/sso/saml",
  "SingleLogoutServiceUrl":
    "https://componentsspace.oktapreview.com/app/componentsspace_exampleserviceprovider_1/exky5euw54Xm4gyj30h7/slo/saml",
  "PartnerCertificates": [
    {
      "FileName": "certificates/okta.cer"
    }
  ]
}
```

"PartnerName": "http://www.okta.com/exky5euw54Xm4gyj30h7"

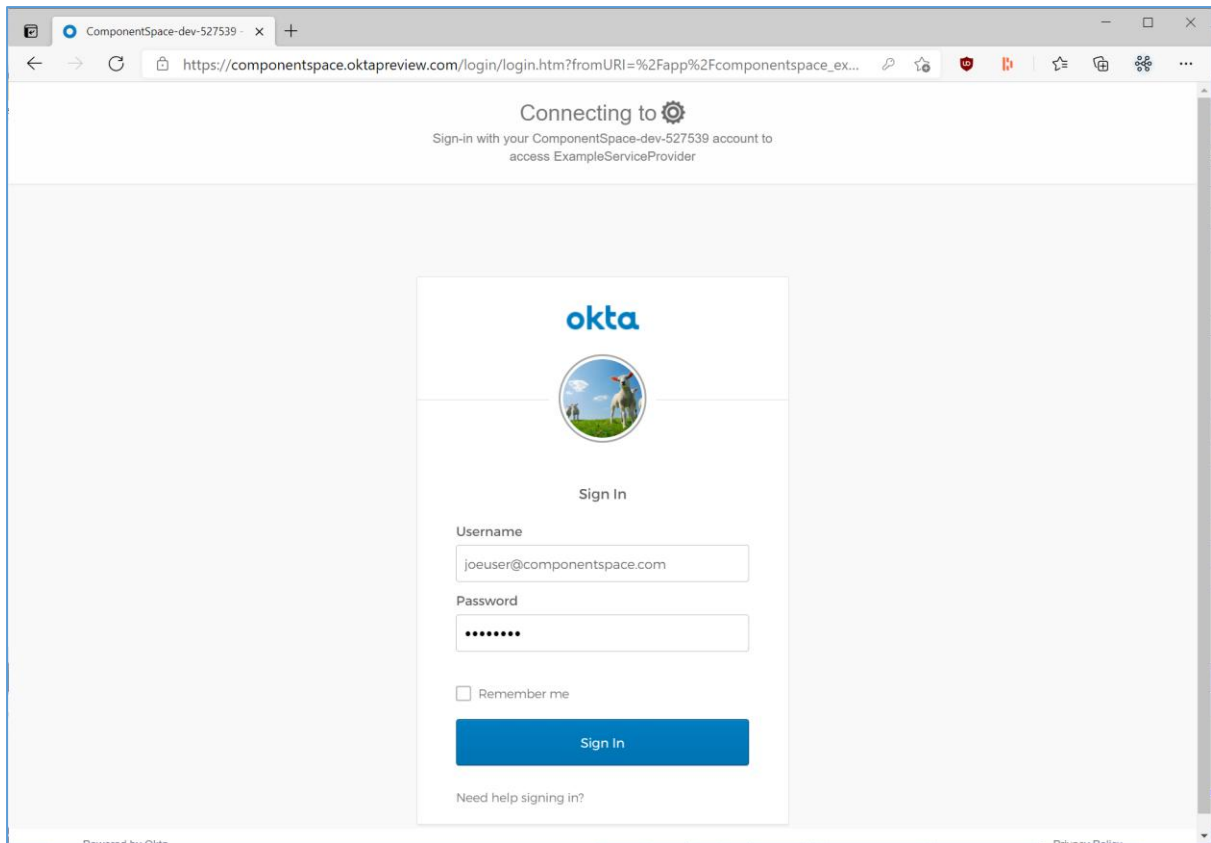
SP-Initiated SSO

Browse to the example service provider and click the button to SSO to the identity provider.

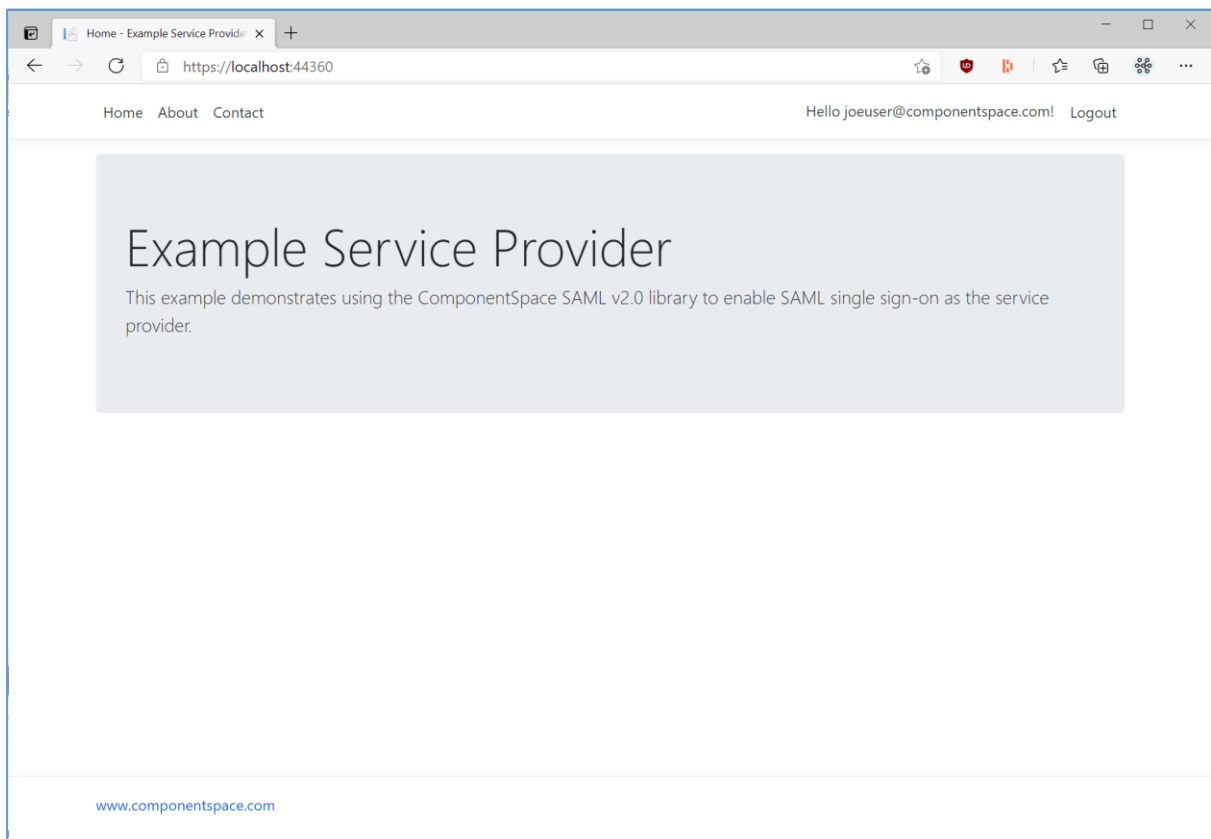


Login to Okta.

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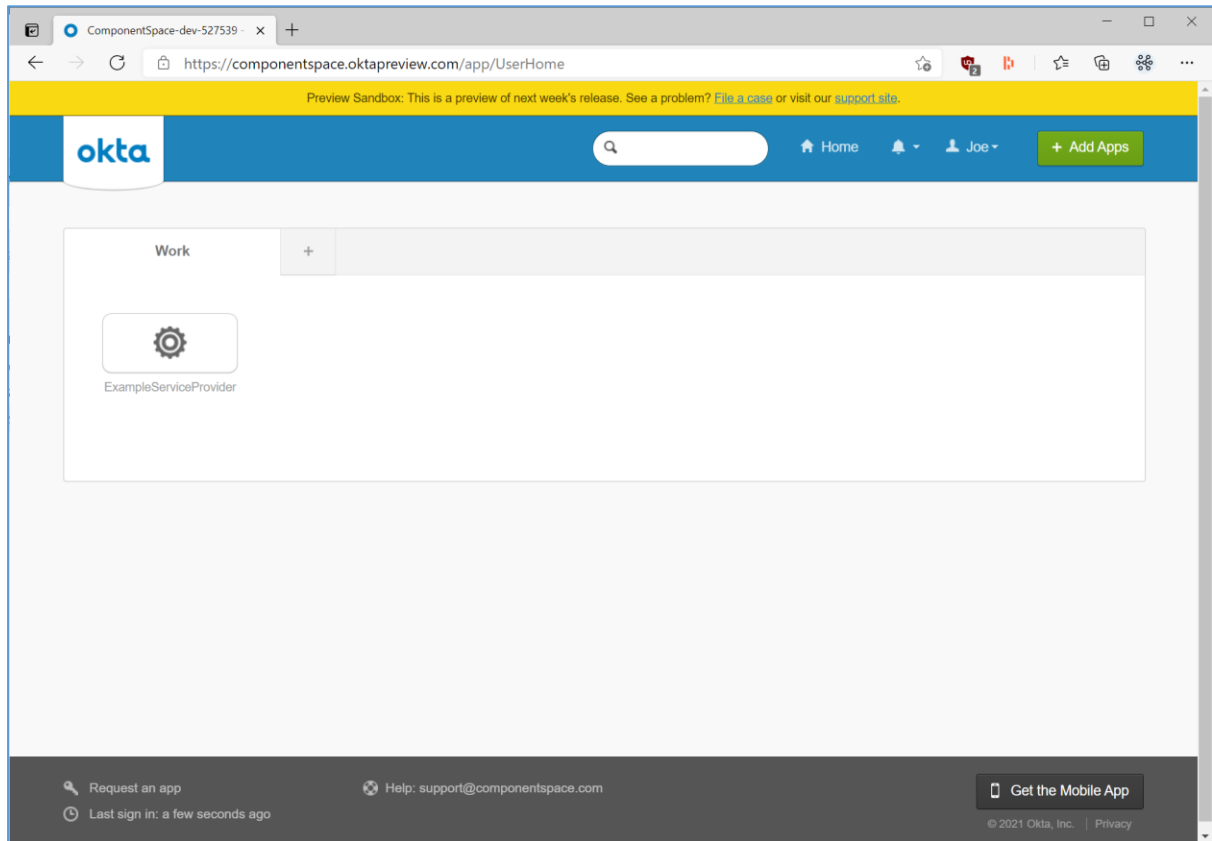
The user is automatically logged in at the service provider.



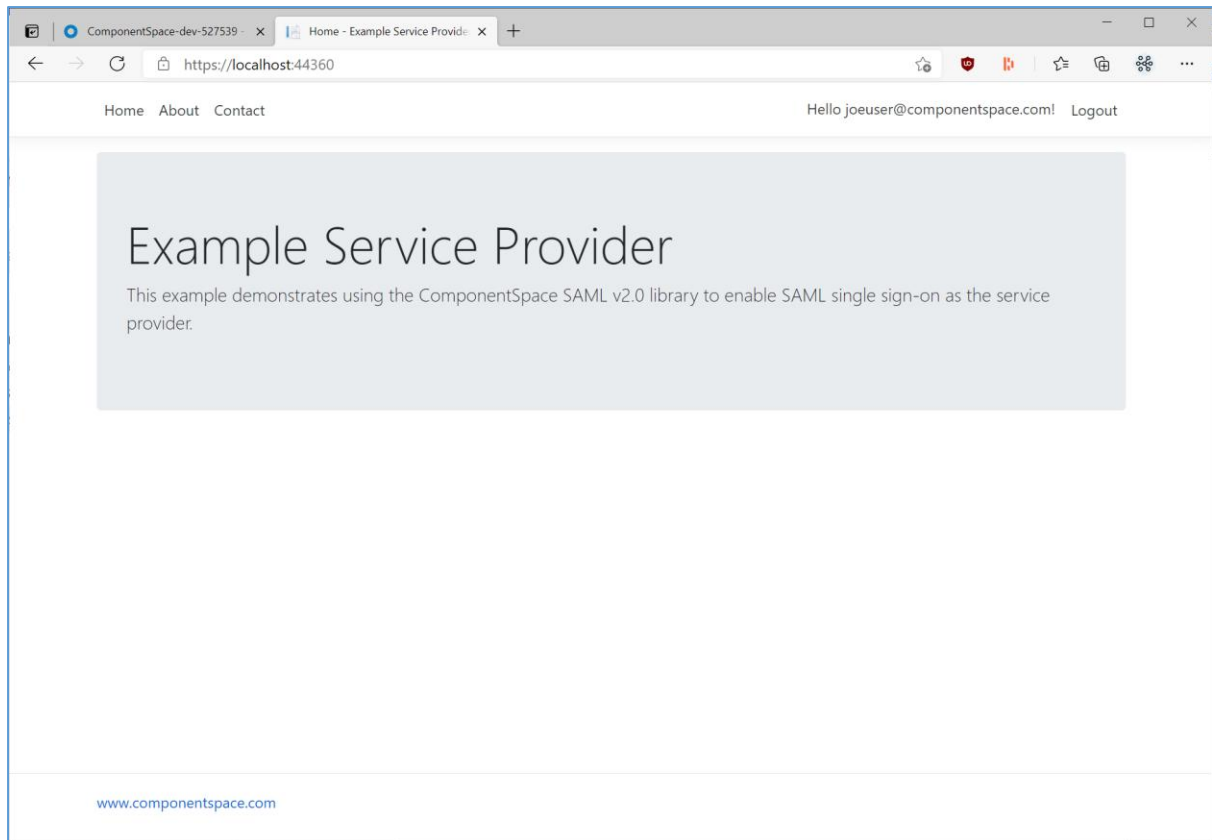
IdP-Initiated SSO

Login to Okta.

Click the ExampleServiceProvider button.



The user is automatically logged in at the service provider.



SAML Logout

Okta supports SP-initiated SAML logout only.

If logged into a service provider and the user logs out from Okta, no SAML logout request is sent to the service provider.

Troubleshooting

Most issues result from configuration mismatches. Ensure that the Okta configuration and the service provider configuration are consistent with each other.

The Okta system log may contain additional information.

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The screenshot displays the Okta System Log interface. The left sidebar contains navigation links: Dashboard, Directory, Applications, Security, Workflow, Reports, System Log (selected), Import Monitoring, and Settings. The main content area is titled 'System Log' and includes a search bar, date range filters (From: 03/27/2021, To: 04/03/2021, AEST), and a search button. Below the filters is a bar chart titled 'Count of events over time' showing event frequency across a timeline. A link 'Show event trends by category' is also present. At the bottom, a table lists recent events with columns for Time, Actor, Event Info, and Targets. The table shows three events from April 3, 2021, at 09:24:41, involving ComponentSpace Support (User) and Okta Administration (PublicClientApp).

Okta

Search...

support@compone...
ComponentSpace...

System Log

← Back to Reports

From To

03/27/2021 00:00:00 04/03/2021 23:59:59 AEST

Search

Advanced Filters / Reset Filters

Count of events over time

Show event trends by category

Events: 231

Download CSV

Time	Actor	Event Info	Targets
Apr 03 09:24:41	ComponentSpace Support (User)	User accessing Okta admin app success	ComponentSpace Support (AppUser)
Apr 03 09:24:41	Okta Administration (PublicClientApp)	OIDC access token is granted success	(User) Access Token (access_token)
Apr 03 09:24:41	ComponentSpace Support (User)	User single sign on to app	Okta Admin Console (AppInstance)