badge

Badge Setup Guide:

CyberArk Identity Integration via OIDC

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Getting Started and Prerequisites

This setup guide walks a Badge administrator through integrating Badge with their CyberArk Identity deployment. In this architecture, Badge may perform some or all authentication of users to CyberArk Identity.

Badge will be configured as an external identity provider (IdP) as defined by CyberArk Identity. This is sometimes referred to as Inbound Federation to CyberArk Identity. A CyberArk Identity rule will be configured so that all users of specified domains accessing CyberArk Identity will use Badge for authentication. CyberArk Identity will behave like an Identity broker for authentication, allowing these users to authenticate through Badge to access any apps or services connected to CyberArk Identity.

Completing this integration involves setting up OIDC configuration parameters in your Badge deployment as well as OIDC parameters in your CyberArk Identity deployment. This guide begins with the Badge configuration and then covers the steps required in CyberArk Identity. User synchronization via SCIM is covered in a different setup guide.

Prerequisites

You will need:

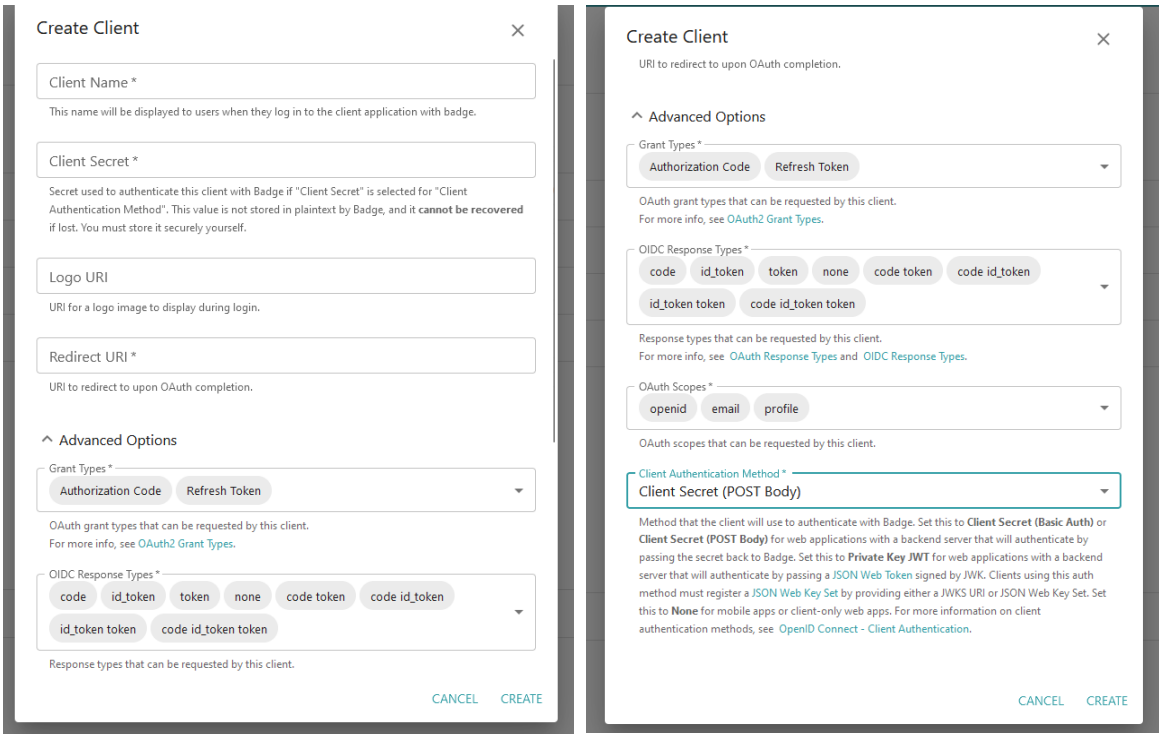
- CyberArk Workforce Identity
- Badge SaaS or Badge on-prem

Before starting the below steps, it may be helpful to review this process from the CyberArk Identity perspective which is described as adding an external identity provider via OIDC. See the CyberArk Identity Federate with an external IdP using OIDC instructions on this process.

Step 1: Configuring Badge

Navigate to your Badge admin web console and login. If you are using Badge SaaS, navigate to https://bageinc.com/ui/admin. If you are using Badge on-prem, navigate to the domain or IP address of the server hosting Badge with the same path. For example, “https://127.0.0.1/ui/admin”.

Navigate to Applications->OIDC Clients. Click “New Client” to create a new OIDC connection.



Badge presents several fields to be defined to complete the setup. The following explains each field, whether it is optional or required, and what to place in it.

Client Name

Client name is required. This is the name that is presented to users when they log in to this OIDC client. In this case, CyberArk Identity would be a commonly used Client Name. You may choose a name that you prefer.

Client Secret

This field is required. This value is not stored in plaintext by Badge, and it **cannot be recovered** if lost. You must store it securely and have it ready for use in the next section. It is recommended to use a long and complex value. If this value is lost and needed again, you will have to start over by setting a new value here, and then setting that new value in CyberArk Identity as well.

Logo URI

This field is optional. This can be the path to a logo image that can be displayed to users during their login experience.

Redirect URI

Redirect URI is required. Enter any valid URL as a placeholder for now. You will return to this section and edit in the correct value once it is created in CyberArk Identity in the following section.

Grant Types

The two default values of Authorization Code and Refresh Token are required as minimums. Additional grant types are optional and not typically needed.

OIDC Response Types

The default values populated here upon creation are required. That includes code, id_token, token, none, code token, code id_token, id_token token, and code id_token token.

OAuth Scopes

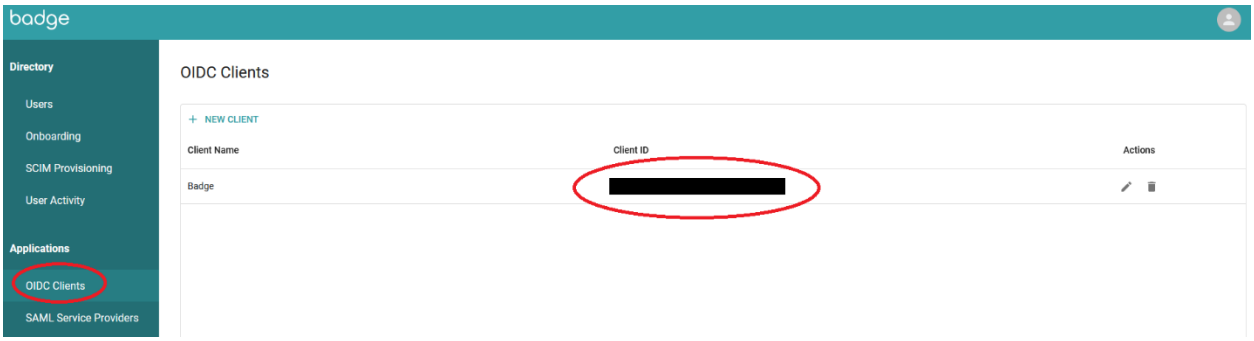
OAuth Scopes are required. At a minimum openid, email, and profile are required.

Client Authentication Method

Client Authentication Method is required. Set this to Client Secret (POST Body).

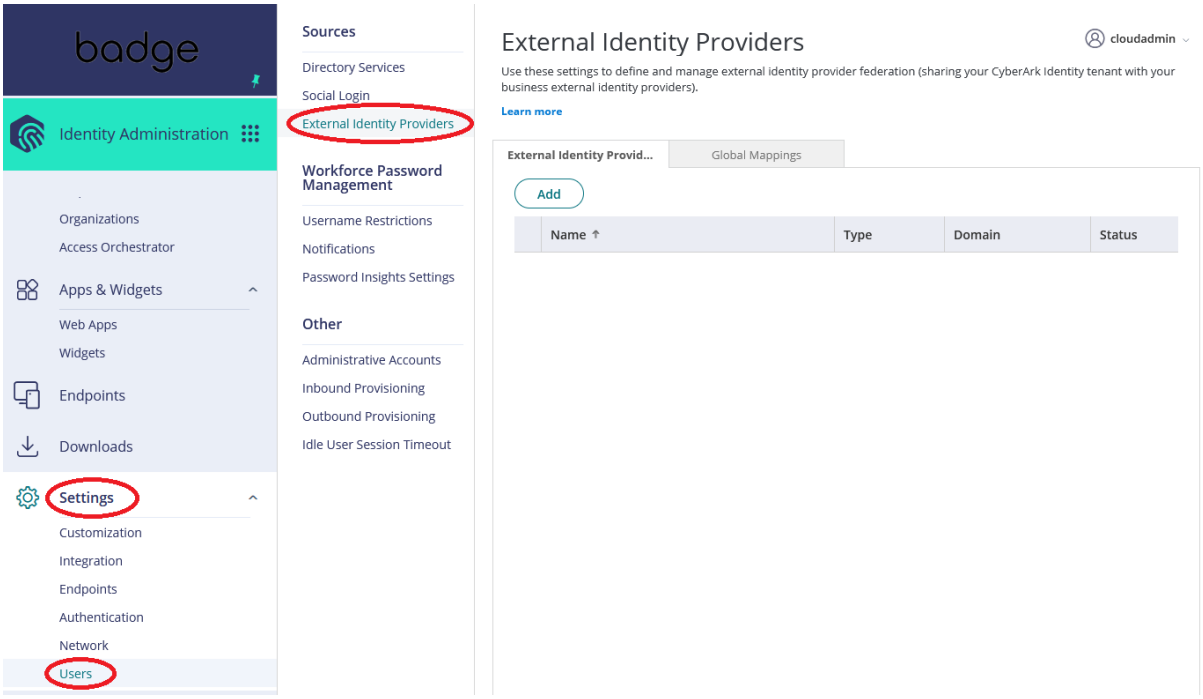
Completing Badge's OIDC Setup – OIDC Client ID

Go back to the Clients screen and you will see your newly created OIDC client listed as shown in the below screenshot. Note the client ID listed next to the name of your client, and have it on hand for use in the next section.



Step 2: Configuring CyberArk Identity

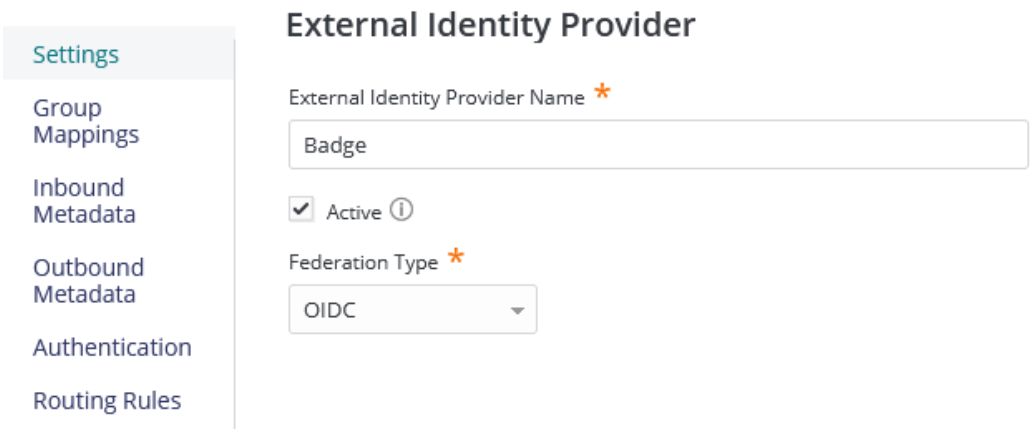
Login to your CyberArk Identity admin console and navigate to **Settings -> Users -> External Identity Providers** as shown in the below screenshot.



Select the **Add** button to continue. The following fields on each page will need to be filled in as part of that process.

External Identity Provider – Settings

Enter *Badge* as the External Identity Provider Name, select *OIDC* as the Federation type, and tick the box to set this Active. Your page should look like the following screenshot.



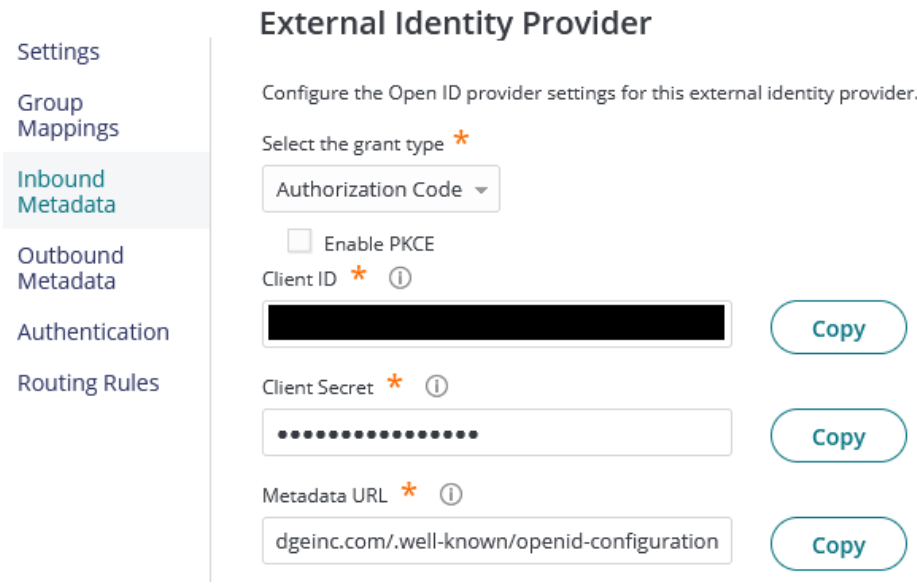
Select **Group Mappings** to proceed.

External Identity Provider – Group Mappings

Leave this page blank. No group mappings are needed. Select **Inbound Metadata** to proceed.

External Identity Provider – Inbound Metadata

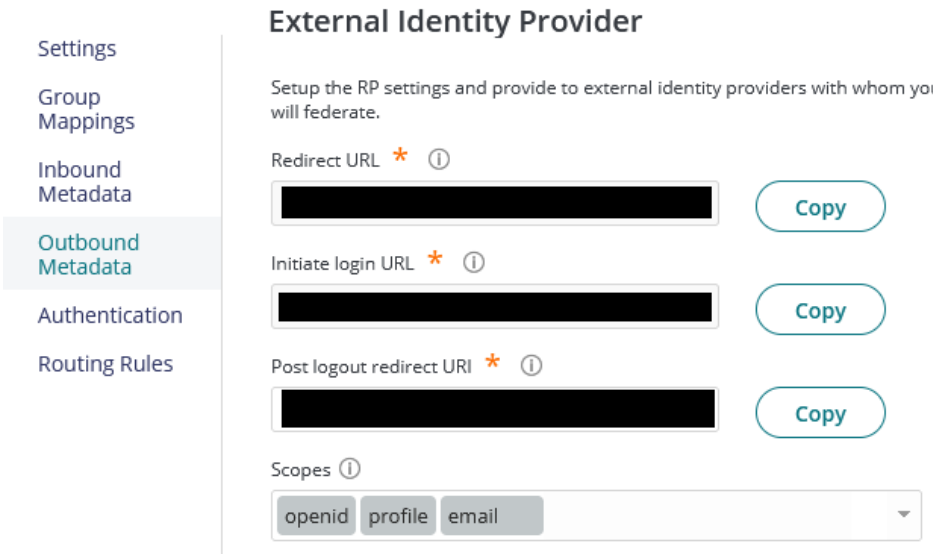
Select *Authorization Code* as the grant type and disable PKCE. Enter the Client ID and Client Secret that you retrieved and defined in the previous Badge configuration section above. For Metadata URL, enter *https://login.badgeinc.com/.well-known/openid-configuration* as shown in the following screenshot.



Select **Outbound Metadata** to proceed.

External Identity Provider – Outbound Metadata

Edit Scopes to include openid, profile, and email. Your page should look similar to the following screenshot.

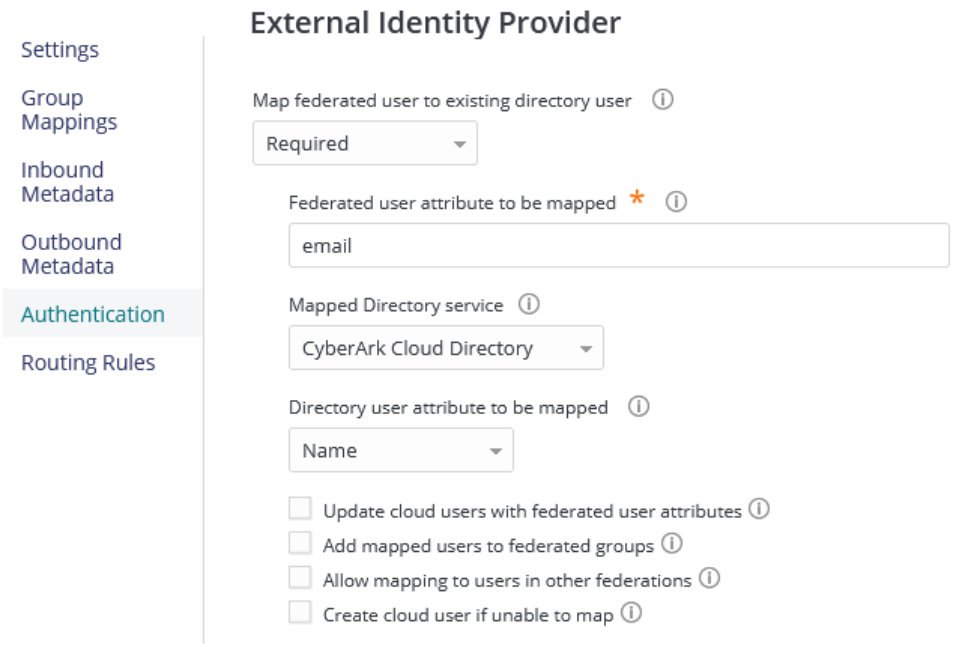


Copy the Redirect URL shown. In another window, navigate back to the Badge web admin page -> OIDC Clients. Edit the OIDC client you created in Step 1 above. Replace the placeholder URL used for Redirect URI with the Redirect URL from CyberArk Identity. Re-enter the same Client Secret from Step 1 above. Select Update to save and finish.

Back in CyberArk Identity, select **Authentication** to proceed.

External Identity Provider – Authentication

Select Required for "Map federated user to existing directory user." Enter email for "Federated user attribute to be mapped." Select CyberArk Cloud Directory for "Mapped Directory service." Select Name for "Directory user attribute to be mapped." Ensure no checkboxes are selected. Your page should look like the following screenshot.



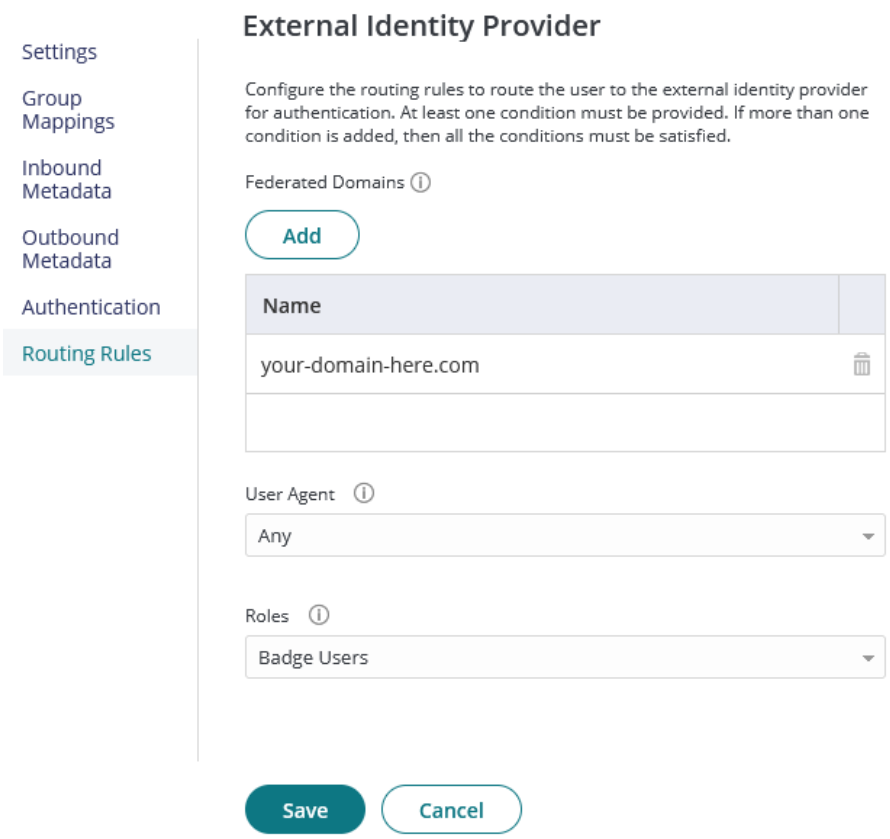
Select **Routing Rules** to proceed.

External Identity Provider – Routing Rules

Select **Add** and enter the domain(s) of the users that will use Badge to authenticate into CyberArk Identity. Any user whose username ends in a domain defined here will be routed to authenticate with Badge during the CyberArk Identity login process.

It is recommended to also create a CyberArk Identity role named Badge Users or similar. This will allow you to control testing and rollout in the next section. Only users that are both in the defined domains *and* in the role will be routed to use Badge as an authenticator.

Your page should look similar to the following screenshot.



Select **Save** at the bottom of the page to finish. Congratulations, you have completed the setup and configuration of Badge and CyberArk Identity!

Step 3: Testing and Rollout

Initial Testing

In CyberArk Identity, choose or create a new user for the purposes of testing. Ensure that the test user exists in one of the federated domains and is assigned into the defined role. Navigate to your Badge web admin page and create the user in the Users page.

In a new browser or incognito window, navigate to your CyberArk Identity tenant login page. Attempt to log in as the test user. You will be redirected to Badge to complete the one-time factor enrollment, then complete the login process.

Wider Rollout

At this point, you have proven the functionality of the Badge and CyberArk OIDC integration. Next, it is recommended to set up a SCIM connection between Badge and CyberArk Identity so that users are automatically synchronized from CyberArk Identity into Badge, eliminating the need to manually create users in the Badge admin web page.

To continue your rollout, add users or groups to the assigned role as you see fit and ensure that all appropriate domains are defined in the routing rules page of the External Identity Provider settings.

FAQ's and Troubleshooting

The following are some common questions or points to be aware of during setup, testing, and troubleshooting. If your questions are not answered by the below points, reach out to info@badgeinc.com for further assistance .

When entering the OIDC parameters in CyberArk Identity, ensure that values are entered precisely. For example, it is common to accidentally introduce a trailing space or miss a trailing / which will result in errors.