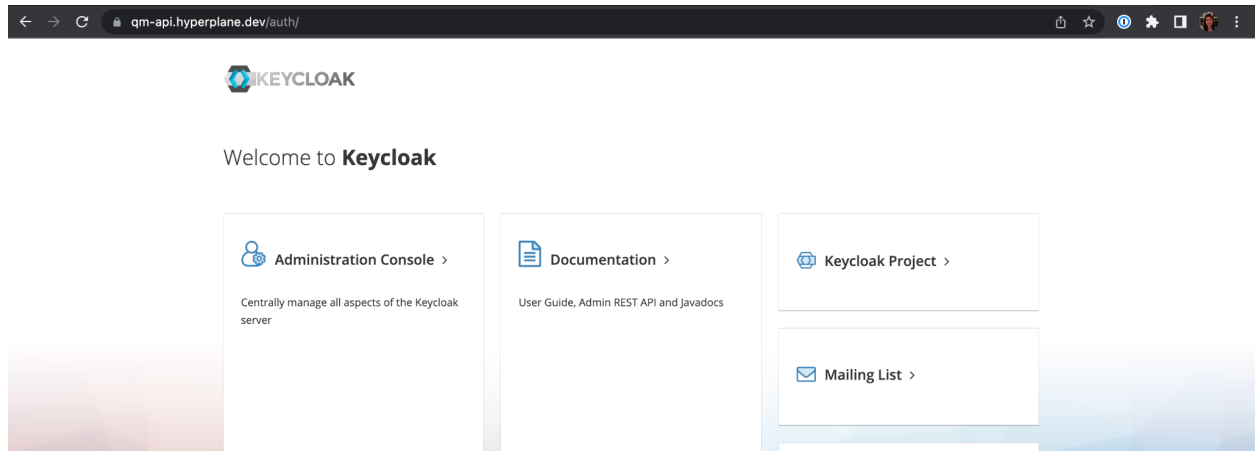# Shakudo cluster configuration guide
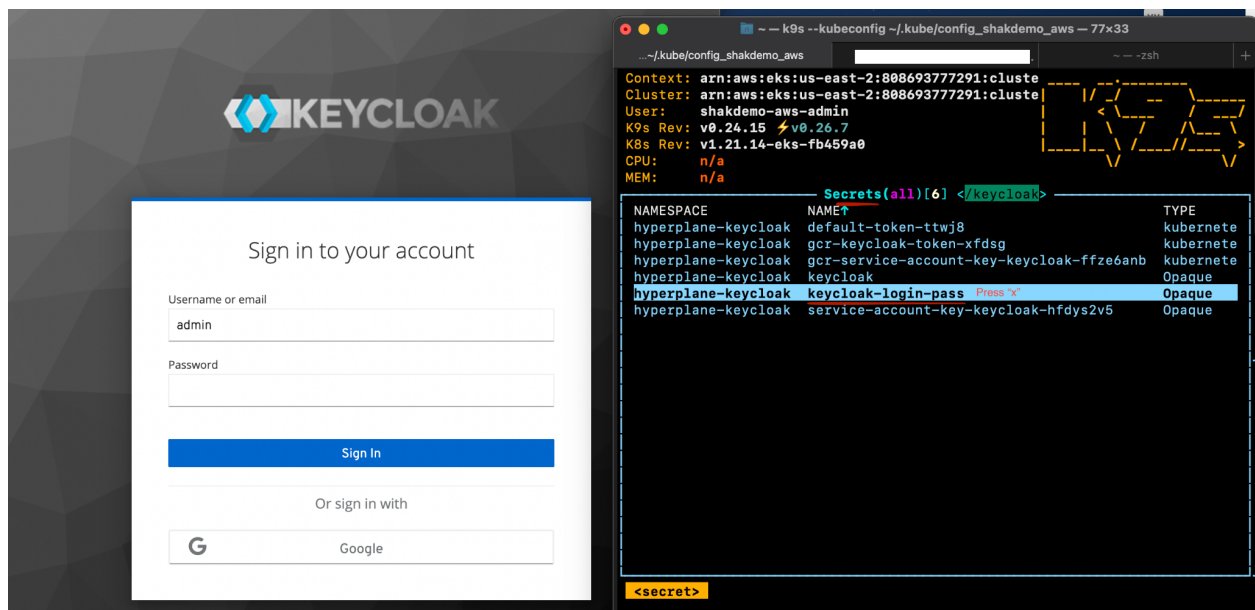
Keycloak configuration

To configure your keycloak, first visit your keycloak manager (e.g. replicant-aii.hyperplane.dev/auth/)
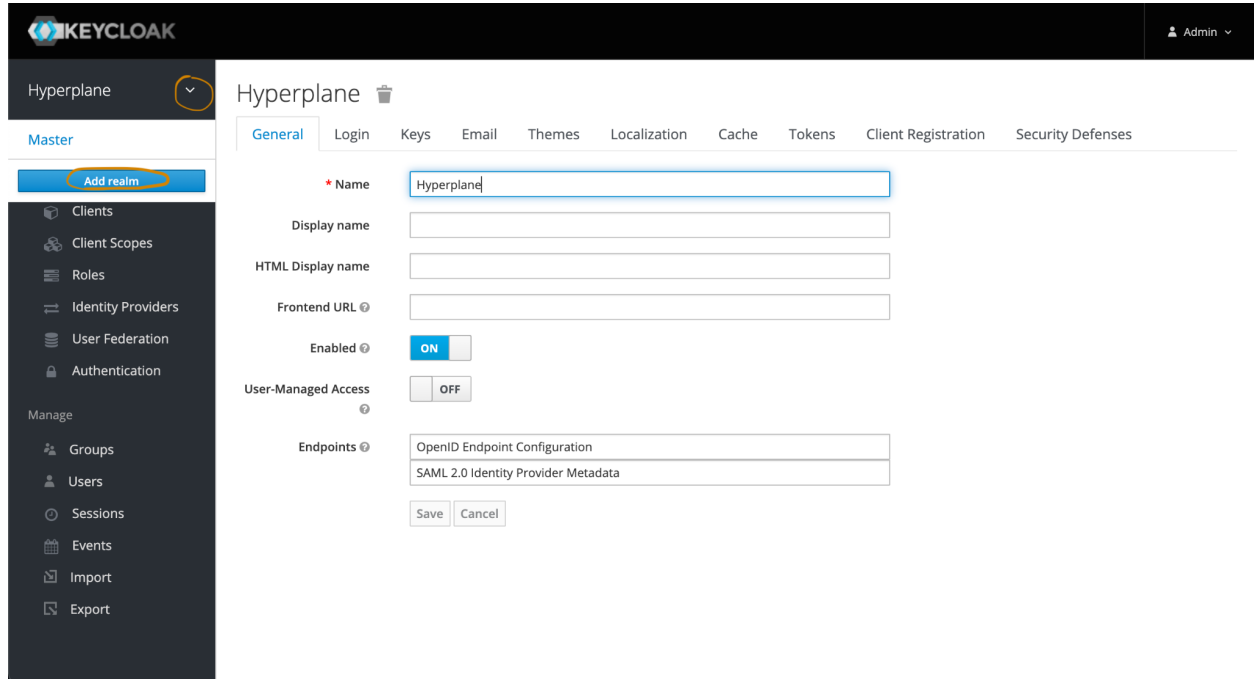

Click on "Administration Console"

You will need to log in with username "admin", and fill in the password with the contents of the "keycloak-login-pass" k8s `secret` . Press "x" on the secret to get the decoded password.
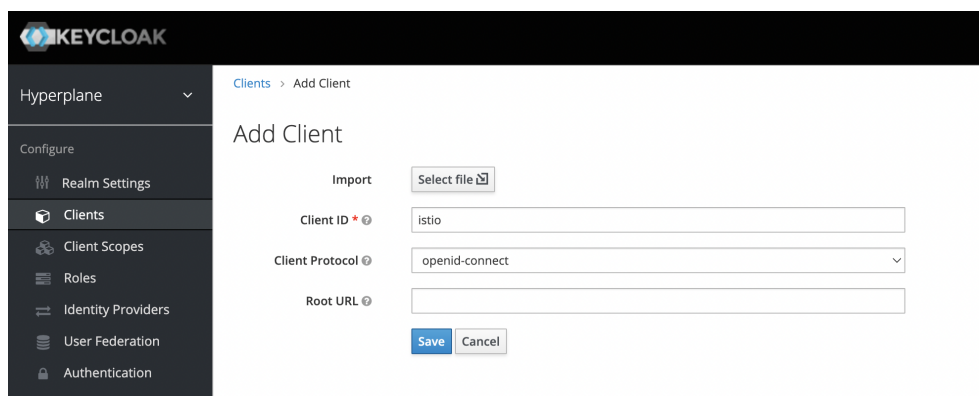
Realm

Once you are logged into keycloak, you will need to click the top left arrow to add a new realm. Fill in the *Name* field with "Hyperplane".
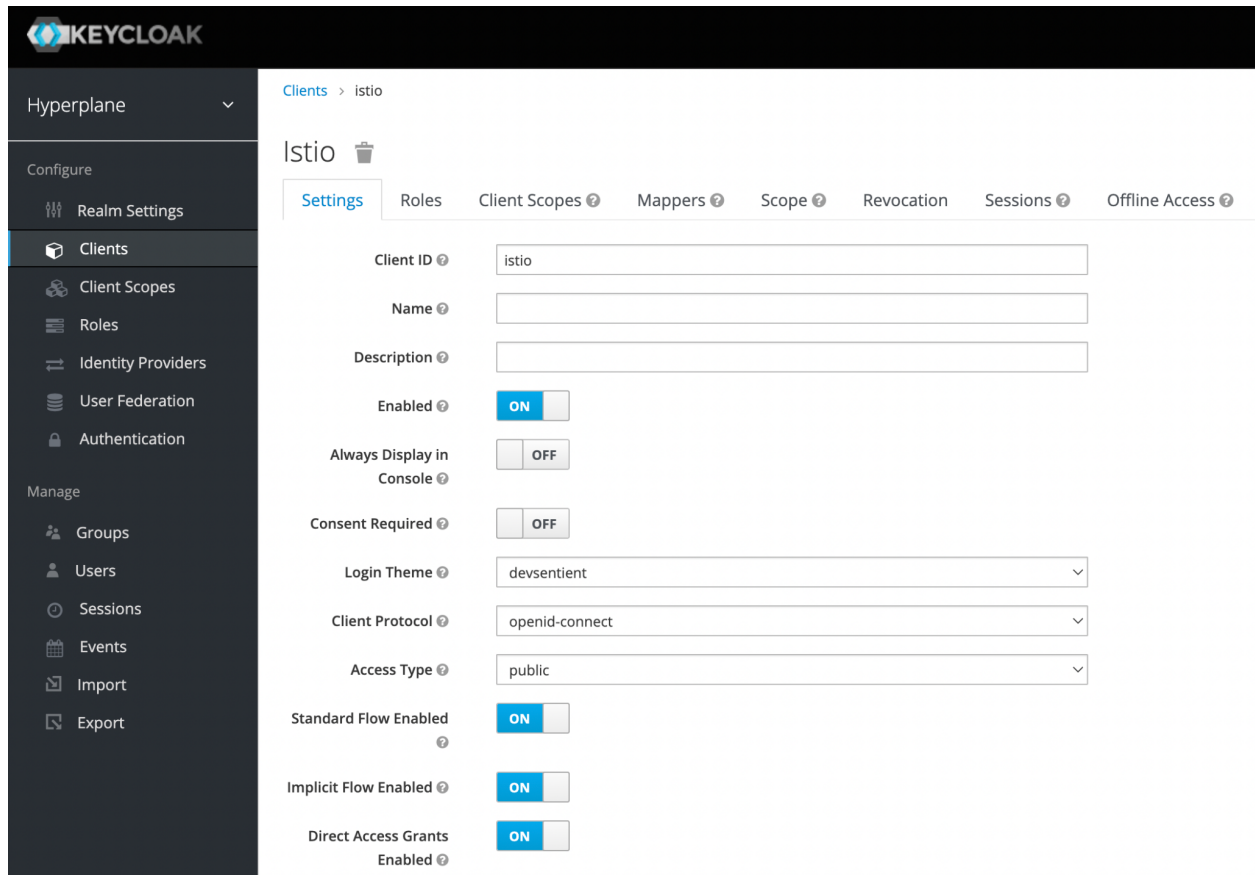

Client

Next, you will need to configure a Client. Click into the *Clients* tab on keycloak and click *Create*. Fill in the Client ID field with "istio" and leave the rest as is.

Next, go back to the *Clients* tab. Click on the "istio" Client id link. You will see a form like the below. Please fill in the fields so they match the following:

In the *Valid Redirect URIs* field, please create a record for each of the following:
- https://grafana.replicant-ai.hyperplane.dev/
- https://grafana.replicant-ai.hyperplane.dev/*
- https://grafana.replicant-ai.hyperplane.dev
- https://replicant-ai.hyperplane.dev/
- https://replicant-ai.hyperplane.dev/*
- https://replicant-ai.hyperplane.dev

In the *Web Origins* field, add "*".

Press *Save*.

Next, you will need to go to the *Mappers* tab within the "istio" client. Click on the *Create* button.
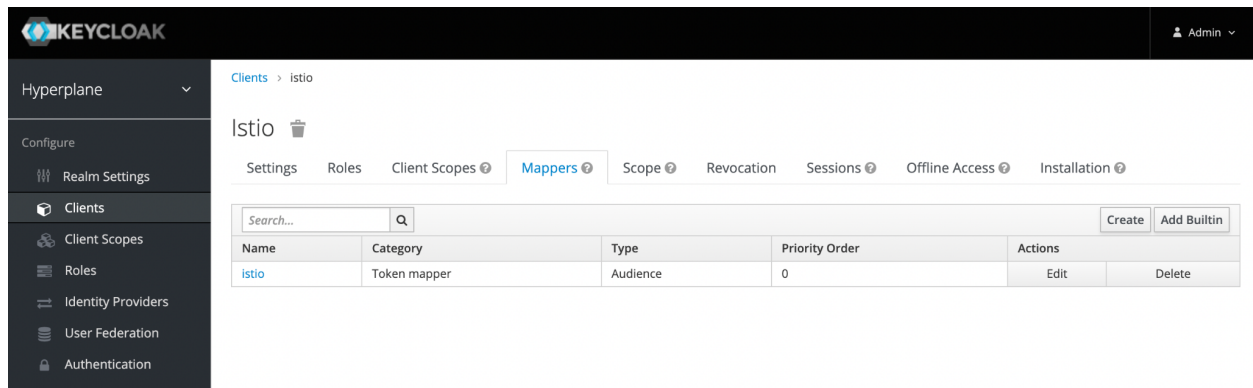
Fill in the form with contents to match the following, and press *Save*.
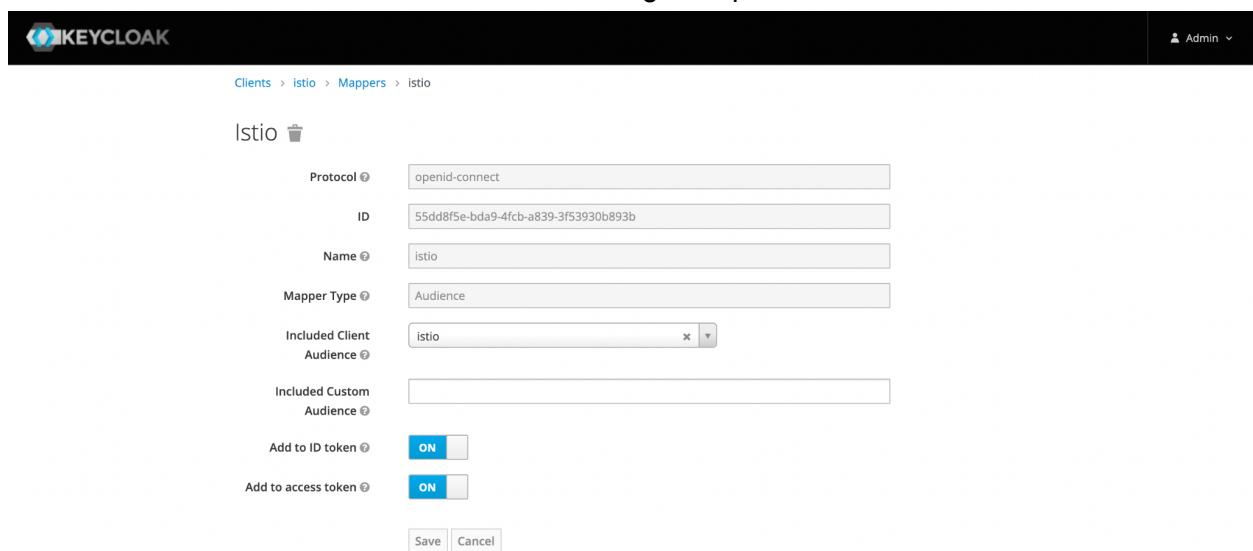
Your istio client should now be set up! We will configure SSO next.

SSO with IDP

Return to the keycloak home page (e.g. replicant-ai.hyperplane.dev/auth/). Go to the *Identity Providers* tab and click the *Add Provider…* dropdown on the right. Choose "Google" and fill in the form to match the image below:

For the Client ID and Client Secret fields, please contact Shakudo team

You should now be able to access your Shakudo dashboard (e.g. https://replicant-ai.hyperplane.dev) and sign in with your Google credentials. The cluster admin will have to manually approve each user on keycloak due to the *Trust Email* in the Google IDP settings turned off.

Shakudo application creation

To create an application, start by visiting your Graphql playground (e.g. https://replicant-ai.hyperplane.dev/graphql)

In the Playground, paste and run the following mutations to get the graphql and grafana icons on your dashboard:

```
mutation createGrafana {
  createPlatformApp(data: {
        envarIncludeKey: "INCLUDE_GRAFANA",
        appUrl: "https://grafana.replicant-ai.hyperplane.dev/",
        name: "Grafana Dashboard",
        tooltipDescription: "Grafana Dashboard",
        imageUrl:
"https://seeklogo.com/images/G/grafana-logo-15BA0AFA8A-seeklogo.com.png",
        imageBackgroundColor: "#000000"
      }) {
    id
  }
}


mutation createGraphql {
  createPlatformApp(data: {
        envarIncludeKey: "INCLUDE_GRAPHQL",
        appUrl: "/graphql",
        name: "GraphQL",
        tooltipDescription: "GraphQL API endpoint",
        imageUrl:
"https://upload.wikimedia.org/wikipedia/commons/1/17/GraphQL_Logo.svg",
        imageBackgroundColor: "#000000"
      }) {
    id
  }
}
```