Extras

» Dex - Github Auth

Overview

Configuring Dex to use Github for Authentication.

Add Github email to ClusterRoleBinding

Before we configure Dex to utilize the Github Connector, add your GitHub email address to the existing `admin-user` ClusterRoleBinding.

Output the `admin-user` yaml to a file

```
kubectl get clusterrolebinding admin-user -o yaml > admin-user.yaml
```

Set your GitHub email address

```
GITHUB_EMAIL=student@example.com
```

Update the file with your GitHub email

```
sudo sed -i "s/subjects:/subjects:\n- apiGroup: rbac.authorization.k8s.io\n  kind: User\n  name: $GITHUB_EMAIL/g" admin-user.yaml
```

Apply the object manifest to update the `admin-user` ClusterRoleBinding

```
kubectl apply -f admin-user.yaml
```

Login to your personal GitHub account

1. From `https://github.com/settings/profile`, ensure your email is public.
2. Select `OAuth applications` on the left column.
3. Register a new OAuth application. Be sure to set the Authorization callback URL to `https://<your-tectonic-console>/identity/callback`.

We need set the following variables before proceeding

```
REDIRECT_URL=
CLIENT_ID=
CLIENT_SECRET=
```

Add the GitHub Connector to Dex

Let's now add the GitHub connector configuration information via the Dex ConfigMap

First, backup the current Dex config

```
kubectl get configmaps tectonic-identity --namespace=tectonic-system -o yaml > identity-config.yaml.bak
```

Make a second copy that we will edit

```
kubectl get configmaps tectonic-identity --namespace=tectonic-system -o yaml > identity-config.yaml
```

Create and apply the new Dex ConfigMap

```
sudo sed -i "s/        inCluster: true/        inCluster: true\n    connectors:\n      - type: github\n        id: github\n        na
me: GitHub\n        config:\n          clientID: $CLIENT_ID\n          clientSecret: $CLIENT_SECRET\n          redirectURI: $REDIRECT_U
RI/g" identity-config.yaml
```

Apply the new new ConfigMap:

```
kubectl apply -f identity-config
```

Trigger a rolling update to the tectonic-identity deployment

```
kubectl patch deployment tectonic-identity --patch "{\"spec\":{\"template\":{\"metadata\":{\"annotations\":{\"date\":\"`date +'%s'`
\"}}}}}" --namespace tectonic-system
```

You should now see a GitHub login at the tectonic console. This should redirect you to Github to OAuth approval screen.