

Portainer Extension Software

# Implementation Guide

## External Authentication for GitHub

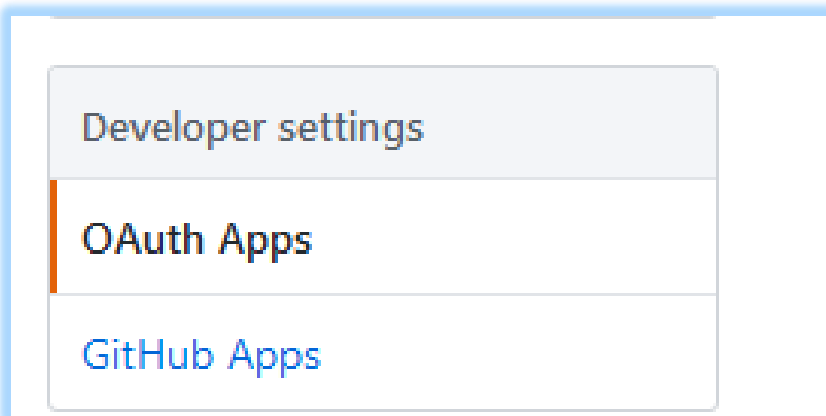
March 2019

# Implementation Guide

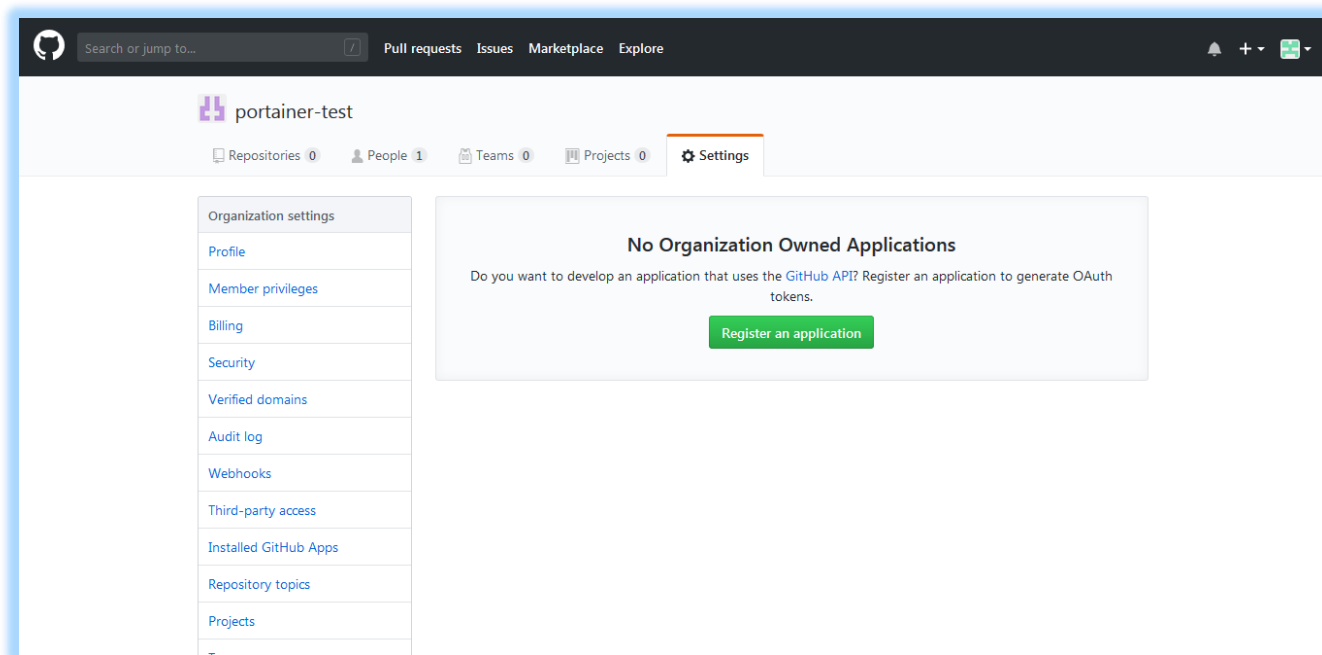
## External Authentication for GitHub

Step 1. Login to GitHub as an Org Admin,

Select “OAuth Apps” from Develop Settings sub-menu in the left sidebar

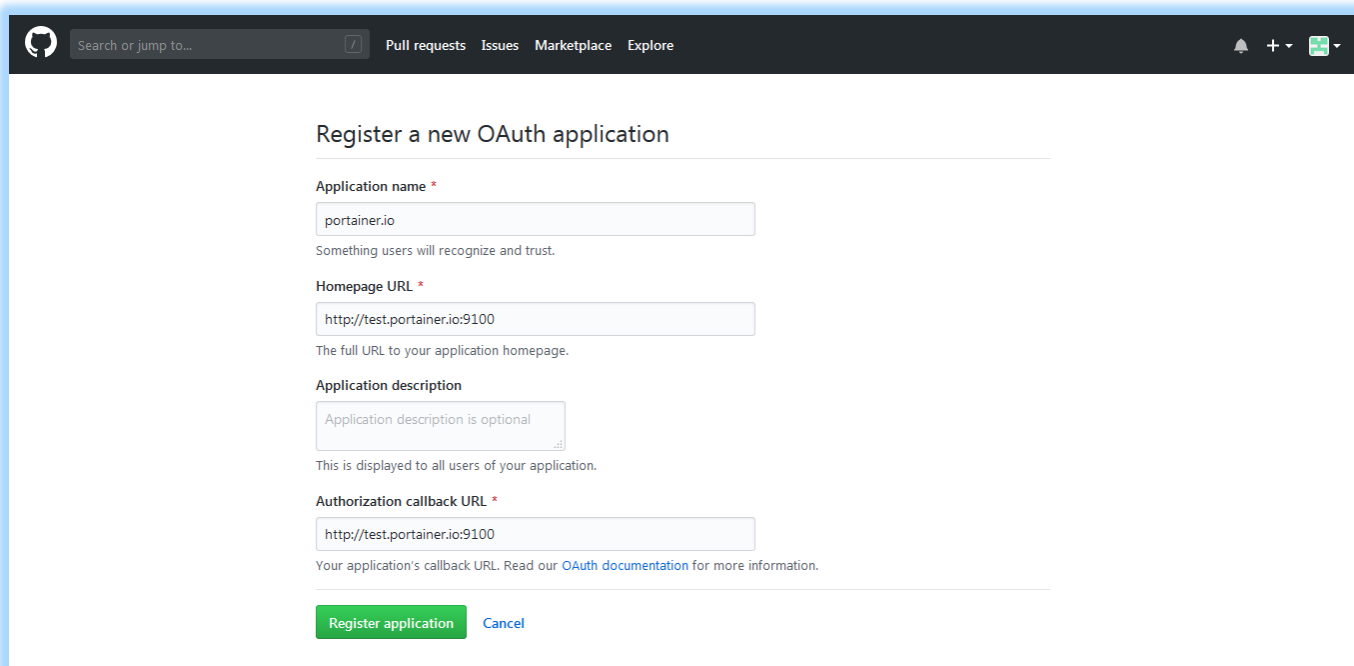


Step 2. Click on “Register an application”

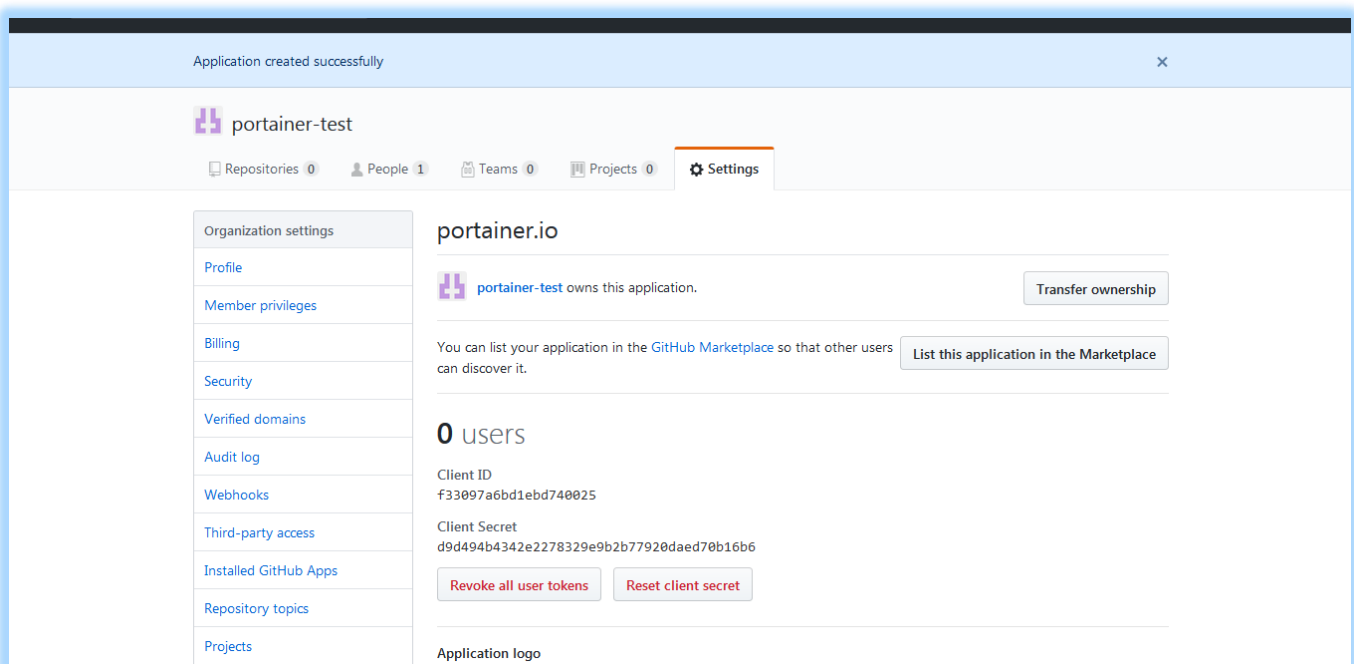


In “Application Name” enter a friendly name.

In “Homepage URL” and “Authorisation callback URL”, text boxes, enter the full URL to your Portainer instance, and then click “Register Application”.

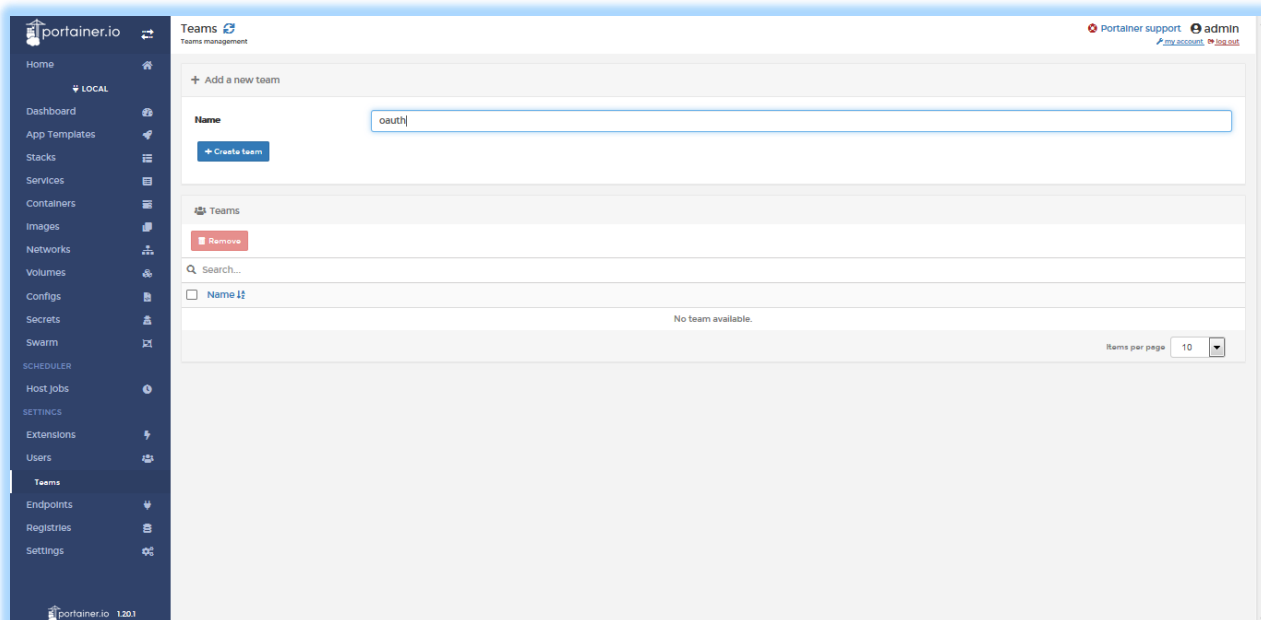


Step 3. Note your application ID and Secret, and record for later use.

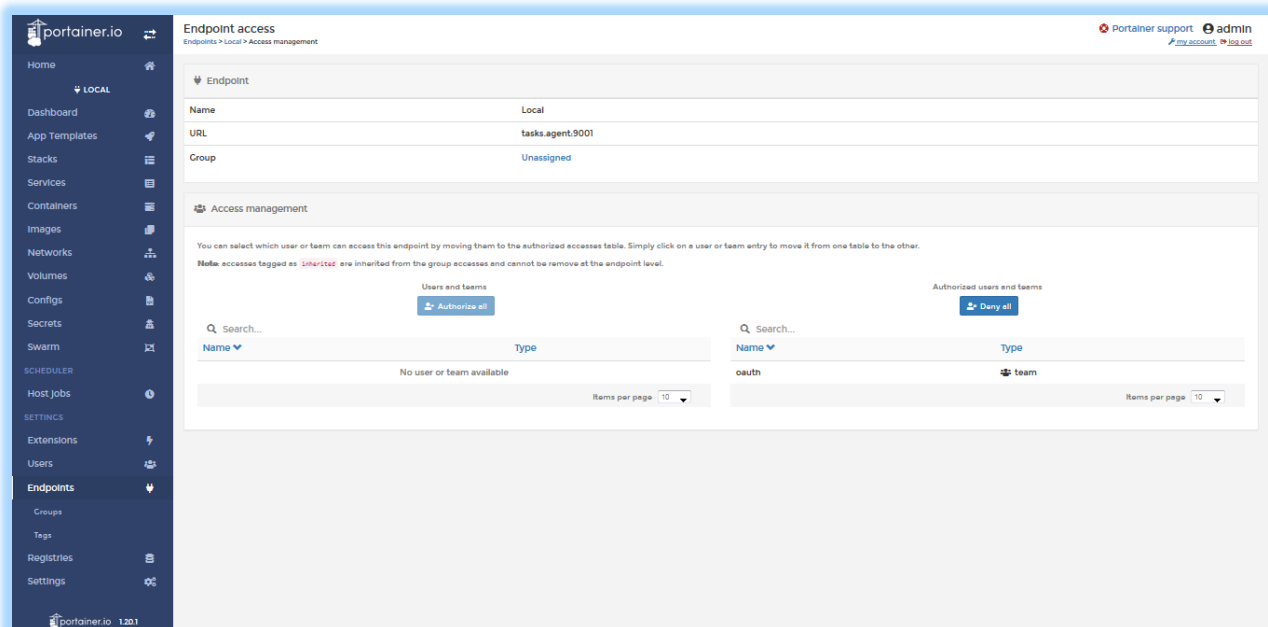


Step 4. Switch to your Portainer Instance and login as the local instance admin

Purchase the Portainer External Authentication extension, and apply the license key (process not shown here).  
 Let's setup some basics, so that when user's login for the first time, they can actually access Portainer resources.  
 Click on "Users" and then "Teams", and create a team called "oauth" (or one of your choosing)

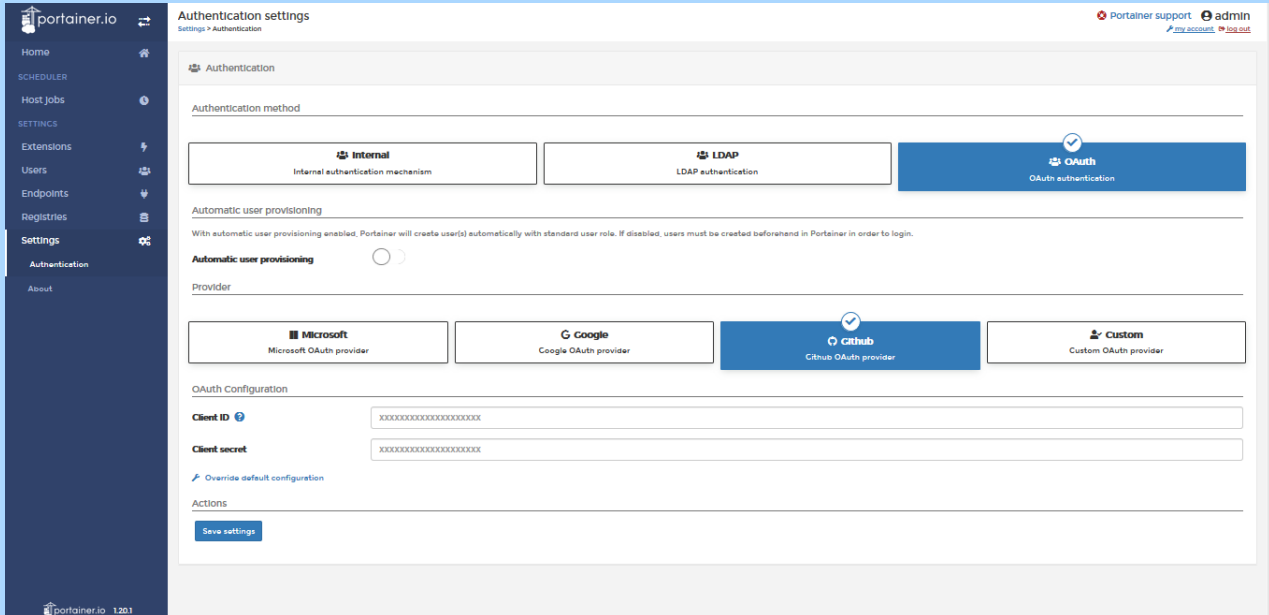


Click on "Endpoints" and then select the endpoints you would like to grant the oAUTH users access to manage, and then click "Manage Access". Assign the oAUTH group you created to the authorised list.



Step 5. Let's configure Portainer External Authentication extension.

Click on "settings" and then "Authentication".  
 Select "oAUTH" and then select "GitHub".



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Authentication settings

Settings > Authentication

Portainer support admin my account log out

Authentication

Authentication method

Internal Internal authentication mechanism

LDAP LDAP authentication

OAuth OAuth authentication

Automatic user provisioning

With automatic user provisioning enabled, Portainer will create user(s) automatically with standard user role. If disabled, users must be created beforehand in Portainer in order to login.

Automatic user provisioning ☐

Provider

Microsoft Microsoft OAuth provider

Google Google OAuth provider

GitHub GitHub OAuth provider

Custom Custom OAuth provider

OAuth Configuration

Client ID

Client secret

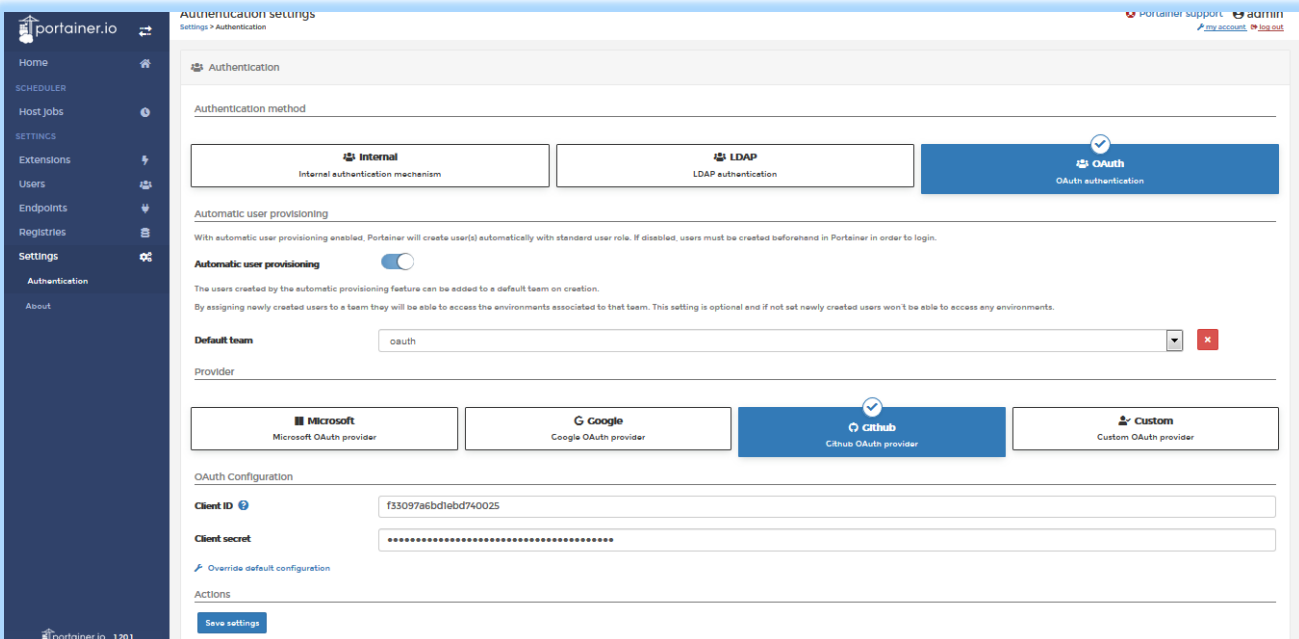
Override default configuration

Actions

Save settings

portainer.io 1.20.1

Enable Automatic User Provisioning, and select the default team (oAUTH or similar) that you created previously.  
 Enter in the Client ID that you noted previously.  
 Enter in the Client Secret that you noted previously.  
 Click Save.



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Authentication settings

Settings > Authentication

Portainer support admin my account log out

Authentication

Authentication method

Internal Internal authentication mechanism

LDAP LDAP authentication

OAuth OAuth authentication

Automatic user provisioning

With automatic user provisioning enabled, Portainer will create user(s) automatically with standard user role. If disabled, users must be created beforehand in Portainer in order to login.

Automatic user provisioning ☒

The users created by the automatic provisioning feature can be added to a default team on creation.

By assigning newly created users to a team they will be able to access the environments associated to that team. This setting is optional and if not set newly created users won't be able to access any environments.

Default team

Provider

Microsoft Microsoft OAuth provider

Google Google OAuth provider

GitHub GitHub OAuth provider

Custom Custom OAuth provider

OAuth Configuration

Client ID

Client secret

Override default configuration

Actions

Save settings

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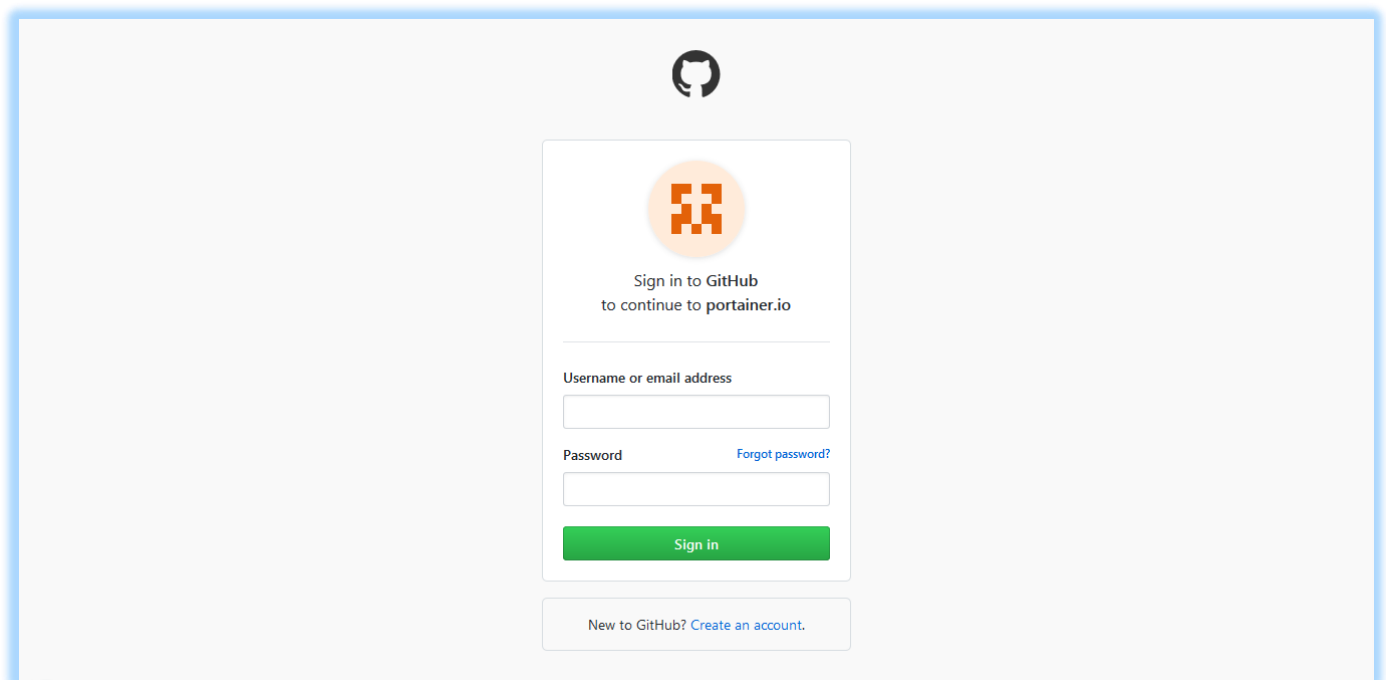
Logout as the Admin.

Step 6. Login using oAUTH

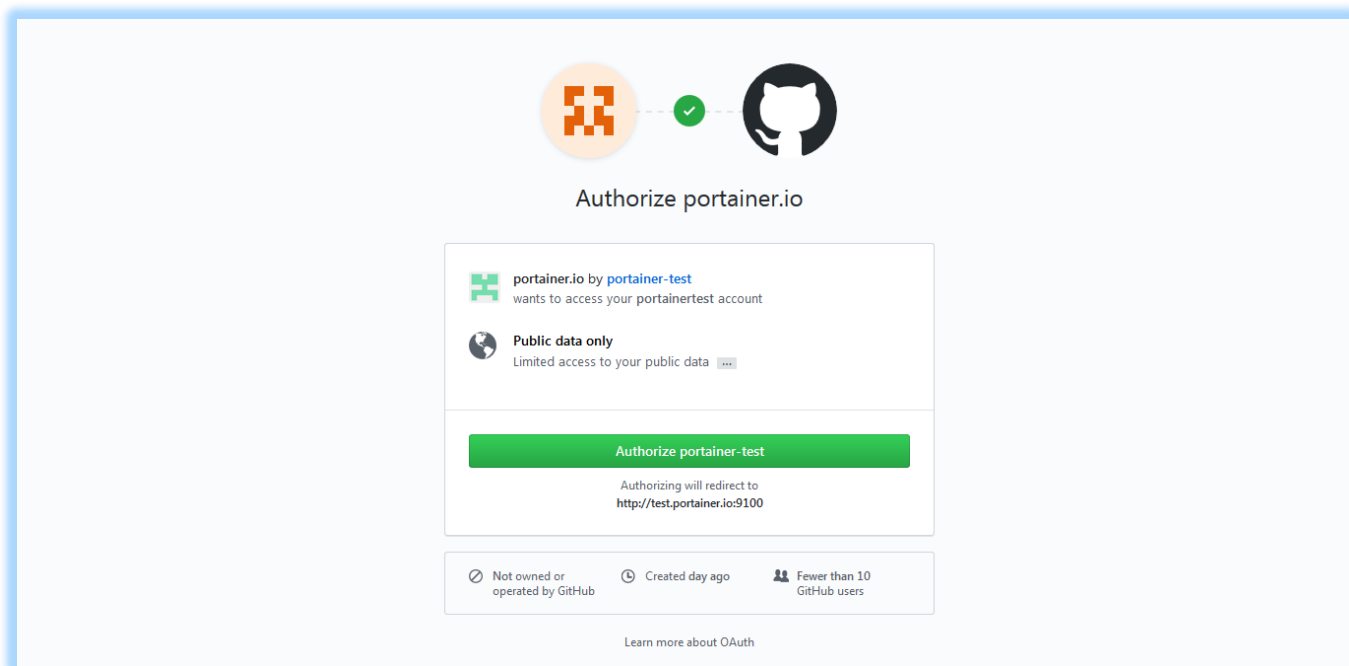
At the Login Page, click the “Login with GitHub” box for oAUTH login.



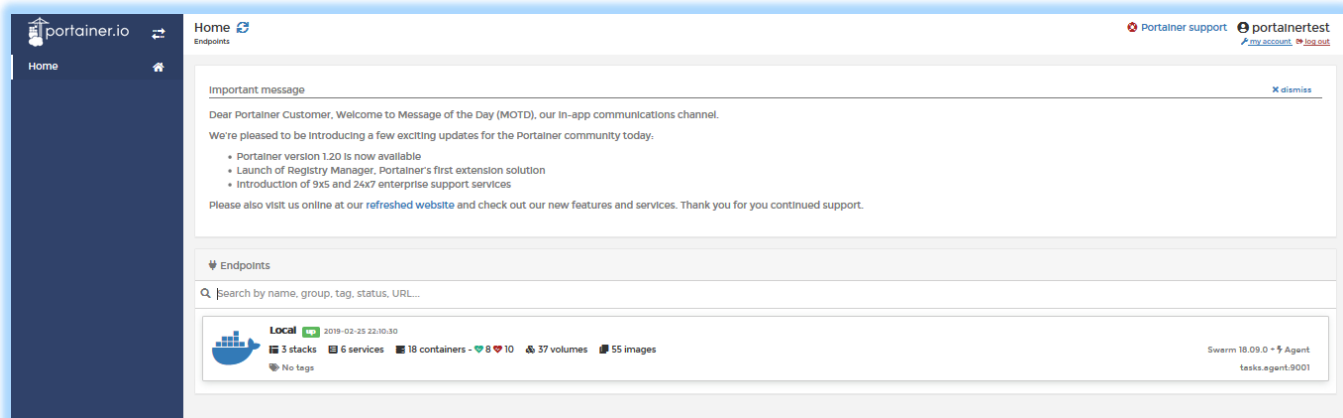
Enter your GitHub username and password where prompted (note you are redirected to GitHub for Auth)



Allow the Portainer instance to access your Github credentials (only prompted once).



You are now logged into Portainer using oAUTH from GitHub.



Optionally, if you want your oAUTH user to be a Portainer Admin, first login/logout as the oAUTH user to create the Portainer record, then login as the Portainer local admin (or as another admin), and then edit the user to elevate them to an admin.

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end