

Securing Portainer with Authentik OAuth

Step1: Goto this link and download docker-compose file and place it inside authentik folder
[Docker Compose installation | authentik](#)

Step2: Create .env file

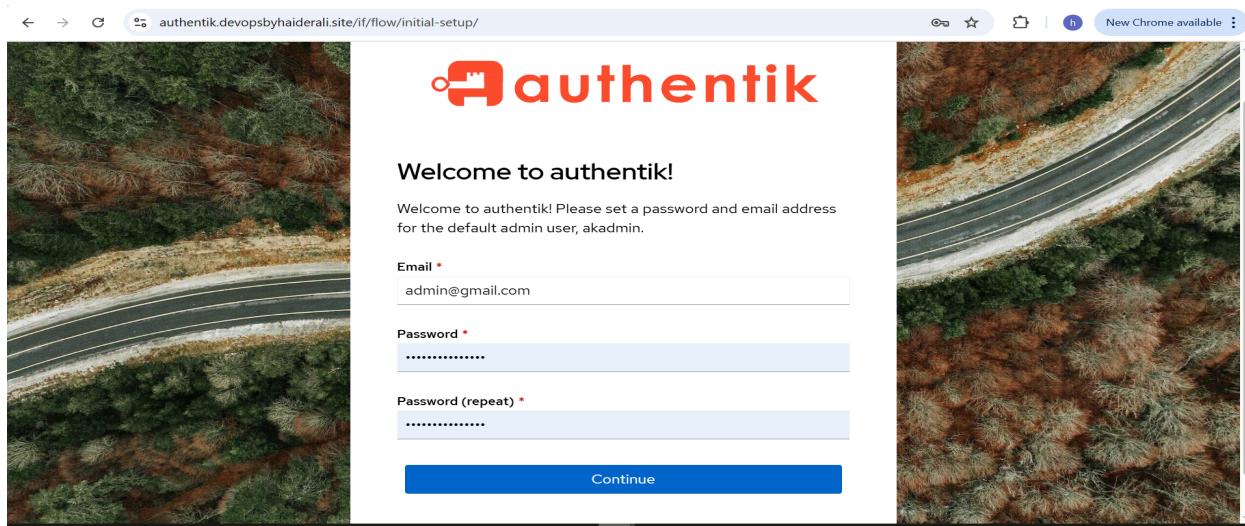
```
echo "PG_PASS=$(openssl rand -base64 36 | tr -d '\n')" >> .env
echo "AUTHENTIK_SECRET_KEY=$(openssl rand -base64 60 | tr -d '\n')" >> .env
echo "AUTHENTIK_ERROR_REPORTING_ENABLED=true" >> .env
```

Also place port numbers in env file:

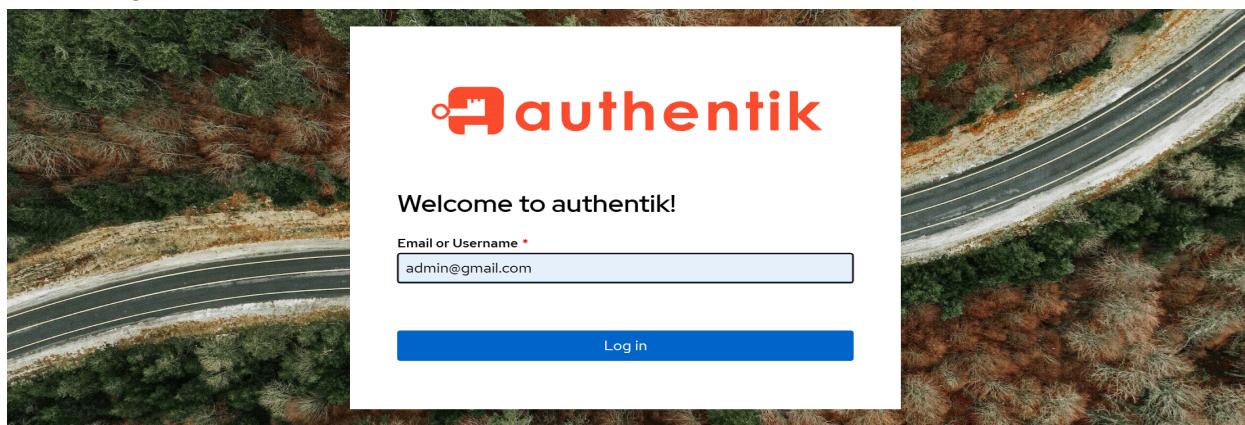
```
COMPOSE_PORT_HTTP=80
COMPOSE_PORT_HTTPS=443
```

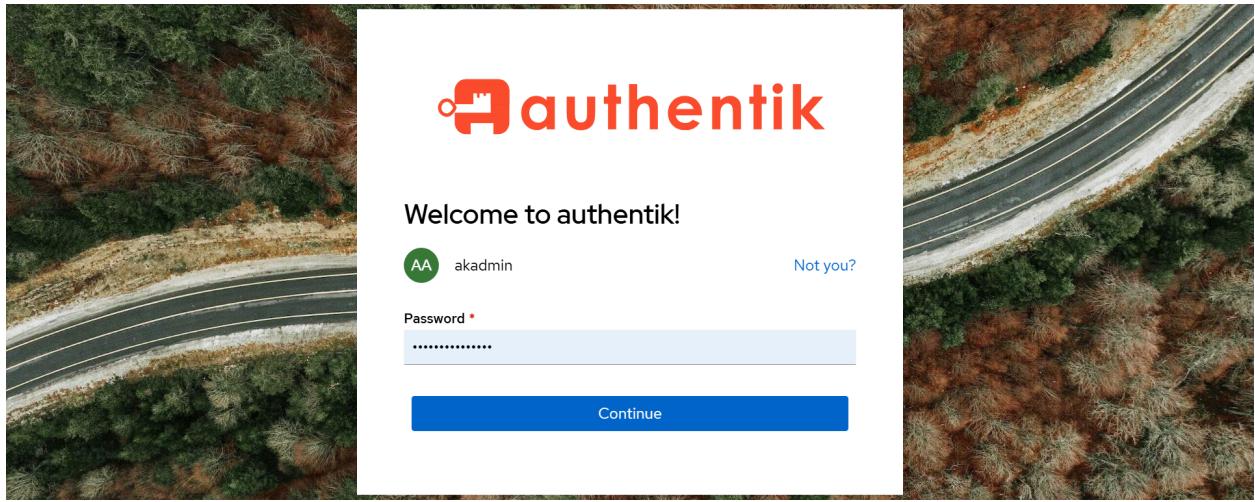
Step3: Setup Initial User

Goto this link: <https://authentik.devopsbyhaiderali.site/if/flow/initial-setup/>



Step4: Login User





Step5: Enable MFA for account

The screenshot shows the "My applications" page of the Authentik admin interface. The top navigation bar includes icons for notifications, settings, and a search bar labeled "Admin interface". The main content area displays a message: "No Applications available. Either no applications are defined, or you don't have access to any." It includes a "Create a new application" button and a "Refer to documentation" link. The URL in the browser is "authentik.devopsbyhaiderali.site/if/user/#/settings;%7B"ak-user-settings-mfa-page"%3A0%2C"page"%3A"page-mfa"%7D".

The screenshot shows the "User details" page for a user named "akadmin". The sidebar on the left lists "User details", "Sessions", "Consent", "MFA Devices" (which is highlighted with a red box), "Connected services", and "Tokens and App passwords". The main content area shows a table with columns: "Name", "Type", "Created at", "Last used at", and "Actions". A large question mark icon is centered in the table area, and the text "No objects found." is displayed below it. The URL in the browser is "authentik.devopsbyhaiderali.site/if/user/#/settings;%7B"ak-user-settings-mfa-page"%3A0%2C"page"%3A"page-mfa"%7D".

authentik.devopsbyhaiderali.site/if/user/#/settings%7B"ak-user-settings-mfa-page"%3A0%2C"page"%3A"page-mfa"%7D

Admin interface

User details

Sessions

Consent

MFA Devices

Connected services

Tokens and App passwords

Enroll Refresh Delete

Static tokens

Type Created at Last used at Actions

TOTP Device WebAuthn device

No objects found.

Last refreshed 59 seconds ago

1-1 of 1

https://authentik.devopsbyhaiderali.site/flows/-/configure/2a592b85-3ca6-4772-a31f-d28cd8170d61/?next=%2Fif%2Fuser%2F%23%2Fsettings%3B%7B"page"%3A"page-mfa"%7D

Goto Microsoft Or Google Authenticator and scan this code



Set up Two-Factor authentication

AA akadmin Not you?



Copy TOTP Config

Please scan the QR code above using the Microsoft Authenticator, Google Authenticator, or other authenticator apps on your device, and enter the code the device displays below to finish setting up the MFA device.

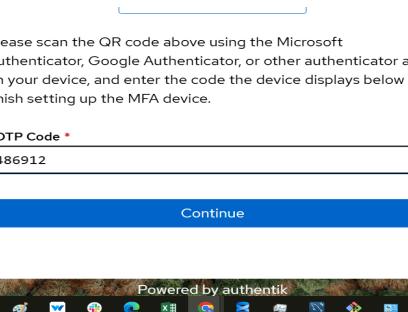
TOTP Code *

486912

Continue

Powered by authentik

Add TOTP Code from Authenticator App



Please scan the QR code above using the Microsoft Authenticator, Google Authenticator, or other authenticator apps on your device, and enter the code the device displays below to finish setting up the MFA device.

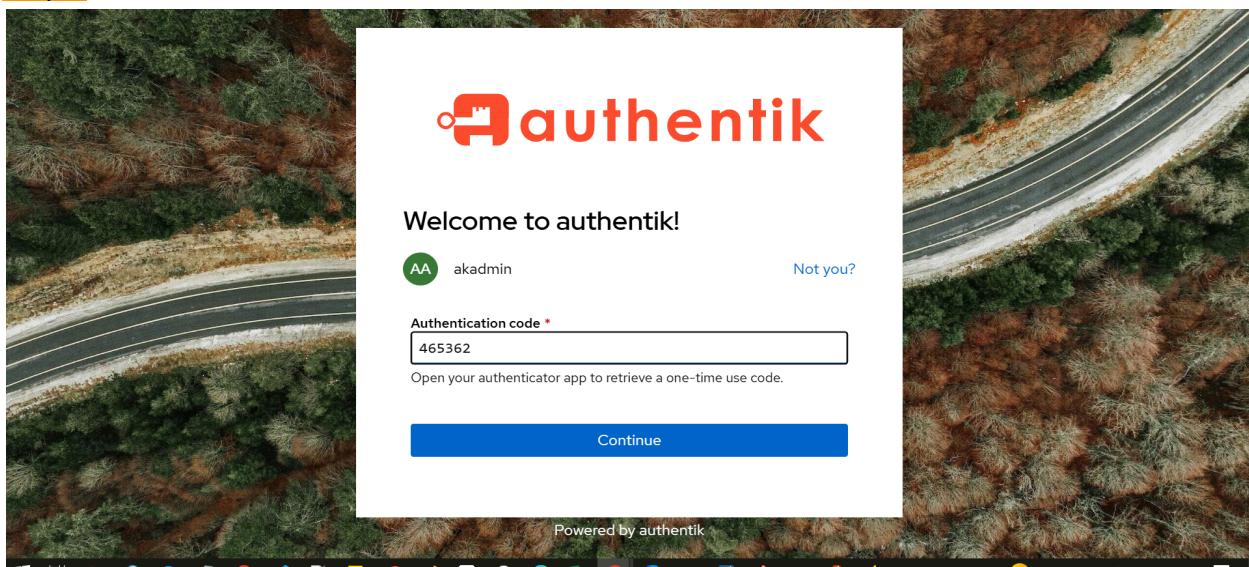
TOTP Code *

486912

Continue

Powered by authentik

Step6: Test MFA

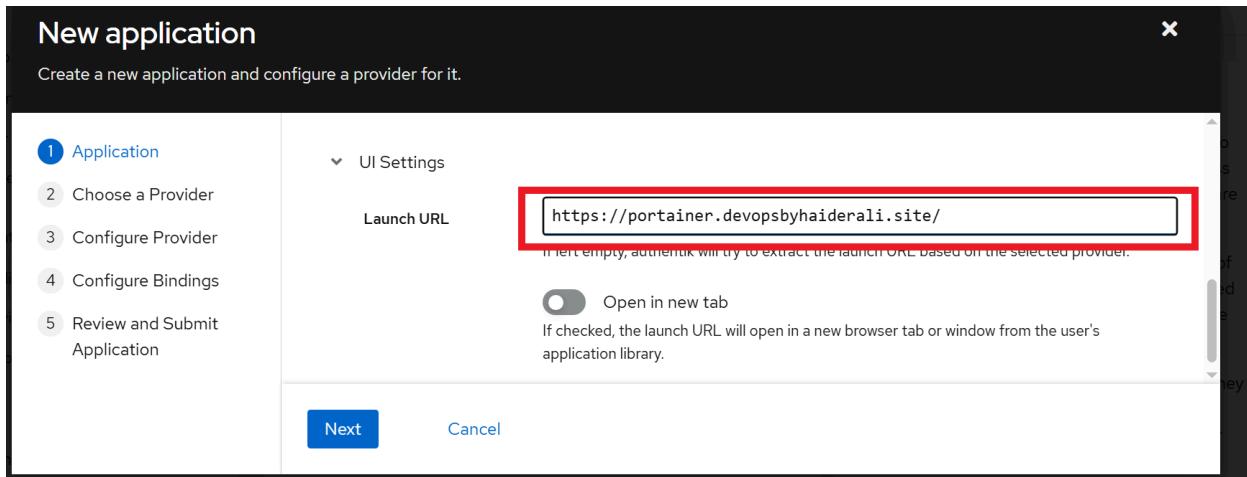


Step7: Create New Application in Authentik

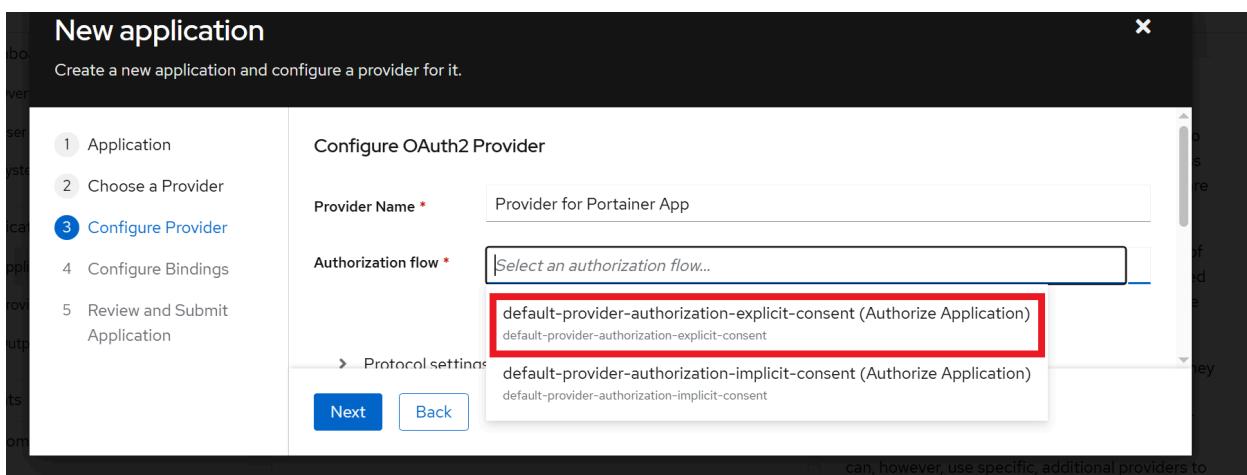
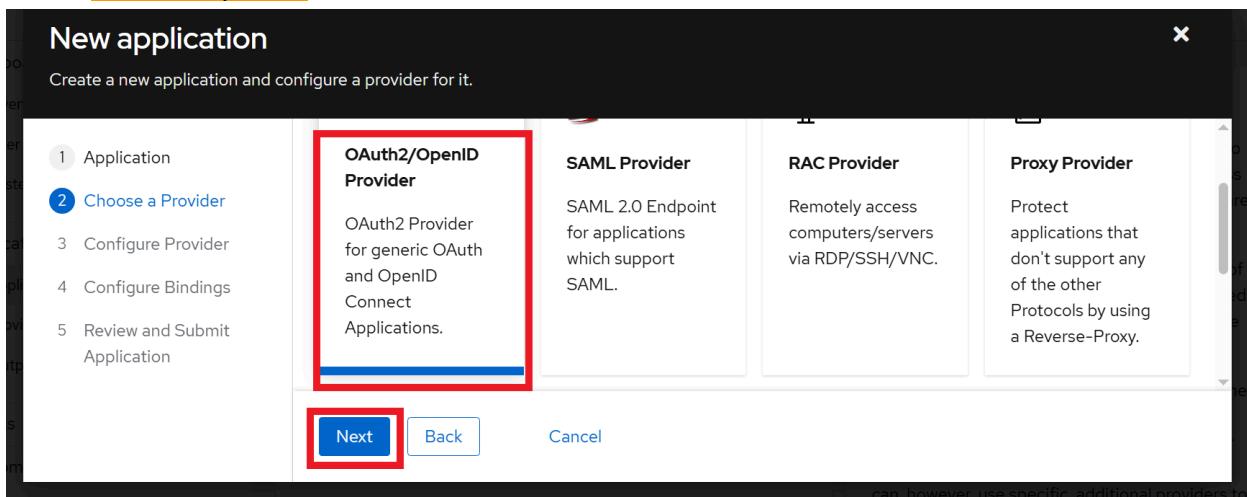
A screenshot of the Authentik application management interface. The top navigation bar includes the "authentik" logo, a search bar, and links for "Admin interface" and a user profile icon. The main area is titled "My applications" and shows a message: "No Applications available." with a sub-message: "Either no applications are defined, or you don't have access to any." A prominent blue "Create a new application" button is centered, with a red box highlighting it. Below the button is a link "Refer to documentation". A search bar is located at the top right of the main content area.

Add Application Name

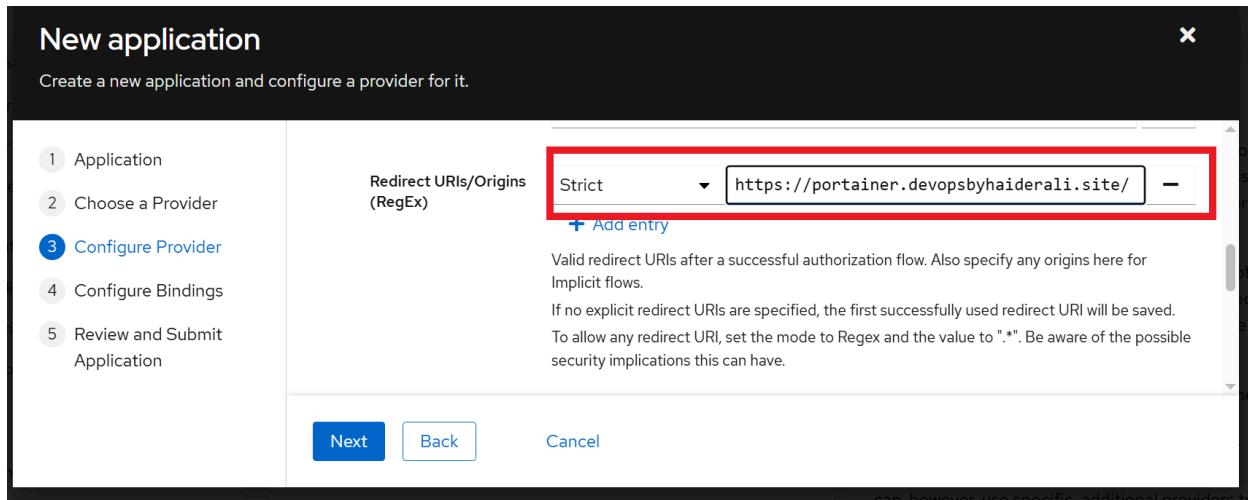
A screenshot of the "New application" configuration dialog. The title bar says "New application" and has a close button. The left sidebar lists steps: 1 Application (which is active), 2 Choose a Provider, 3 Configure Provider, 4 Configure Bindings, and 5 Review and Submit Application. The main panel is titled "Configure The Application". It has two fields: "Name *" with the value "Portainer App" and "Slug *" with the value "portainer-app". Both fields have descriptive subtitles. At the bottom are "Next" and "Cancel" buttons, with the "Next" button highlighted by a red box.



Select OAuth2/OpenID Provider



Add Redirect URL



Step8: Add OAuth in portainer

Authentication settings

Authentication

Configuration

Session lifetime: 8 hours

Changing from default is only recommended if you have additional layers of authentication in front of Portainer.

Authentication method

- Internal**: Internal authentication mechanism
- LDAP**: LDAP authentication
- Microsoft Active Directory**: AD authentication
- OAuth**: OAuth authentication (highlighted with a red box)

Automatic user provisioning

With automatic user provisioning enabled, Portainer will create user(s) automatically with the 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: You have not yet created any teams. Head over to the [Teams view](#) to manage teams.

Team membership

Automatic team membership synchronizes the team membership based on a custom claim in the token from the OAuth provider.

Automatic team membership (Business Feature)

Provider

Find Client Id and Secret

The screenshot shows the authentik interface for managing OAuth2 providers. On the left, a sidebar lists 'Dashboards', 'Applications' (selected), 'Providers' (highlighted), and 'Outposts'. The main area is titled 'Provider for Portainer App' and shows configuration for an 'OAuth2/OpenID Provider'. A red box highlights the 'Edit' button in the 'Logout Method' section. Below this, a modal window displays the 'Client ID *' field containing '4GBZVNkSIE4S2HCahmgknZ8RnQcycfgQuZAjbbrj' and the 'Client Secret' field showing a long string of asterisks. The modal has a 'Search...' input, a checkbox for 'Exclude successful tasks', and a 'Refresh' button.

In logout Url use slug after /o/

The screenshot shows the Portainer application settings. Under the 'General' tab, the 'Slug' field is set to 'portainer-app', which is described as the internal application name used in URLs.

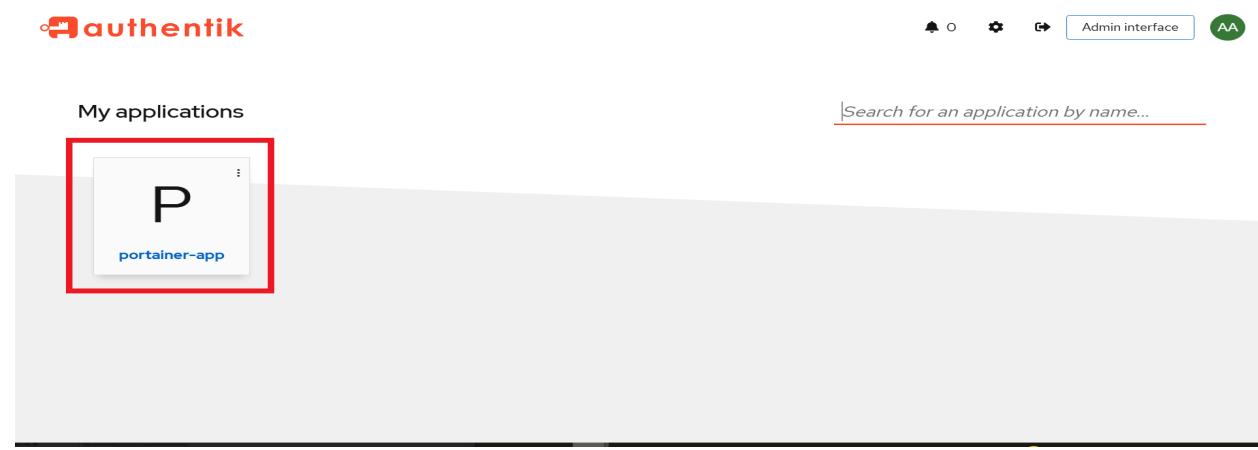
Add these Settings in portainer:

The screenshot shows the Portainer application settings under the 'Authentication' tab. The 'OAuth Configuration' section contains the following fields:

- Client ID: 4GBZVNkSIE4S2HCahmgknZ8RnQcycfgQuZAjbbrj
- Client secret: (redacted)
- Authorization URL: https://authentik.devopsbyhaiderali.site/application/o/authorize/
- Access token URL: https://authentik.devopsbyhaiderali.site/application/o/token/
- Resource URL: https://authentik.devopsbyhaiderali.site/application/o/userinfo/
- Redirect URL: https://portainer.devopsbyhaiderali.site/
- Logout URL: https://authentik.devopsbyhaiderali.site/application/o/portainer/end-session/
- User identifier: email
- Scopes: email openid profile
- Auth Style: Auto Detect

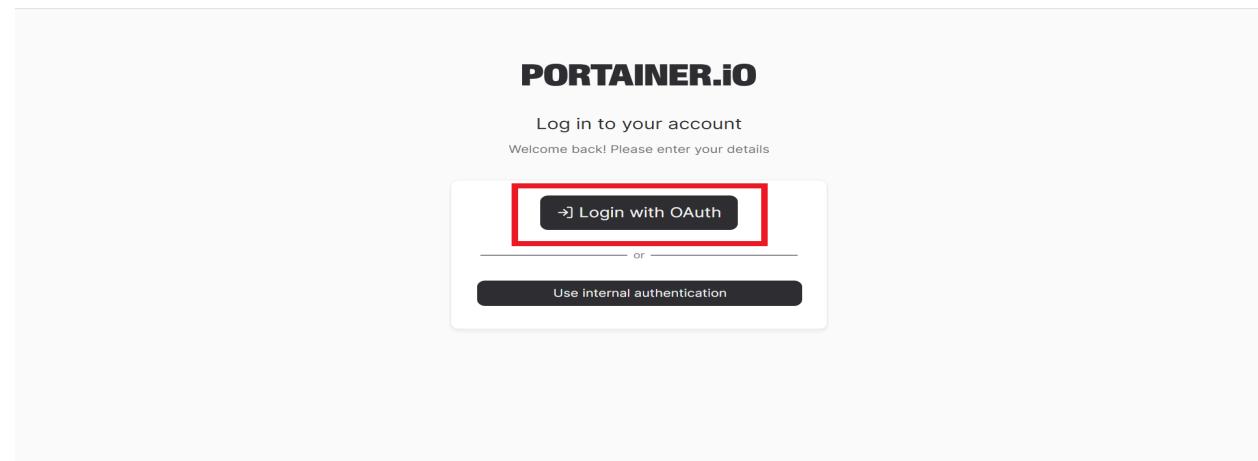
At the bottom, there is a 'Save settings' button.

Step8: Click on portainer-app to login



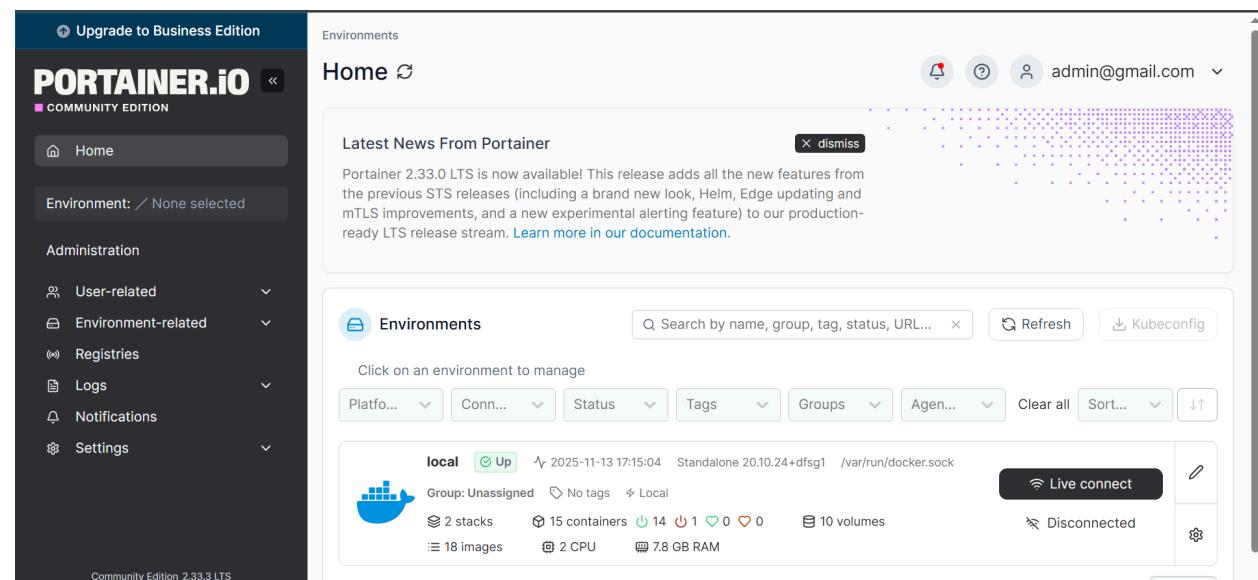
The screenshot shows the authentik application interface. At the top, there's a navigation bar with icons for notifications, settings, and a link to the 'Admin interface'. Below the navigation bar is a search bar with the placeholder text 'Search for an application by name...'. The main area is titled 'My applications' and contains a list of application cards. One card, labeled 'portainer-app' with a large 'P' icon, is highlighted with a red rectangular box.

Click on login with OAUTH



The screenshot shows the Portainer login page. The title 'PORTAINER.IO' is at the top. Below it, a message says 'Log in to your account' and 'Welcome back! Please enter your details'. There are two login options: a 'Login with OAuth' button (which is highlighted with a red box) and a 'Use internal authentication' button.

Portainer login Successfully



The screenshot shows the Portainer Home dashboard. On the left, there's a sidebar with links for 'Home', 'Environment: None selected', 'Administration', 'User-related', 'Environment-related', 'Registries', 'Logs', 'Notifications', and 'Settings'. The main area is titled 'Home' and shows 'Latest News From Portainer'. It mentions the release of Portainer 2.33.0 LTS and provides a link to learn more. Below the news is a section titled 'Environments' with a table showing environment details like 'local', 'Up', '2025-11-13 17:15:04', 'Standalone 20.10.24+dfsg1', and '/var/run/docker.sock'. The table includes columns for Platform, Connection, Status, Tags, Groups, Agents, Clear all, Sort, and Filter. At the bottom right of the dashboard, there's a 'Live connect' button and a status indicator showing 'Disconnected'.

Step9: Test logout button

