portainer.io

Portainer Extension Software

Implementation Guide

External Authentication for Auth0

May 2019

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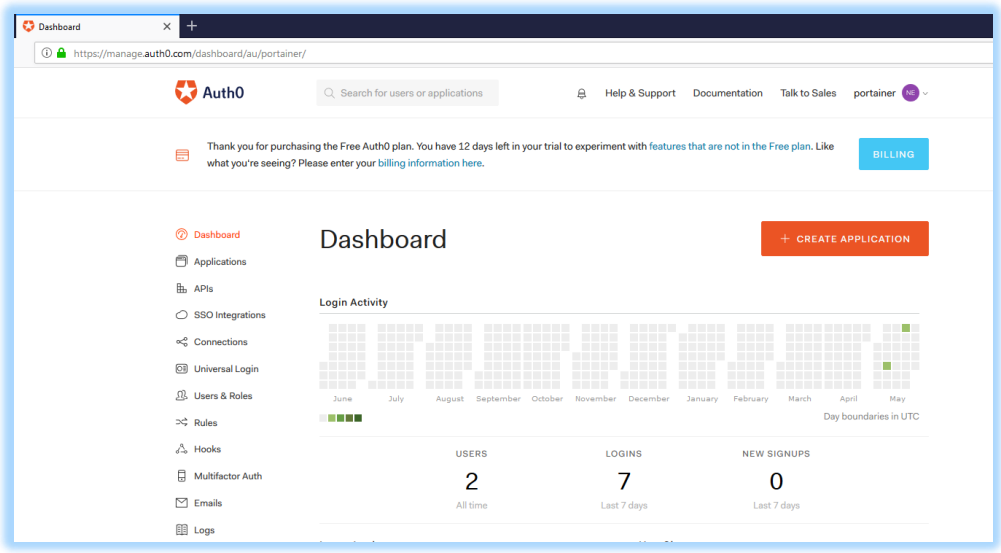
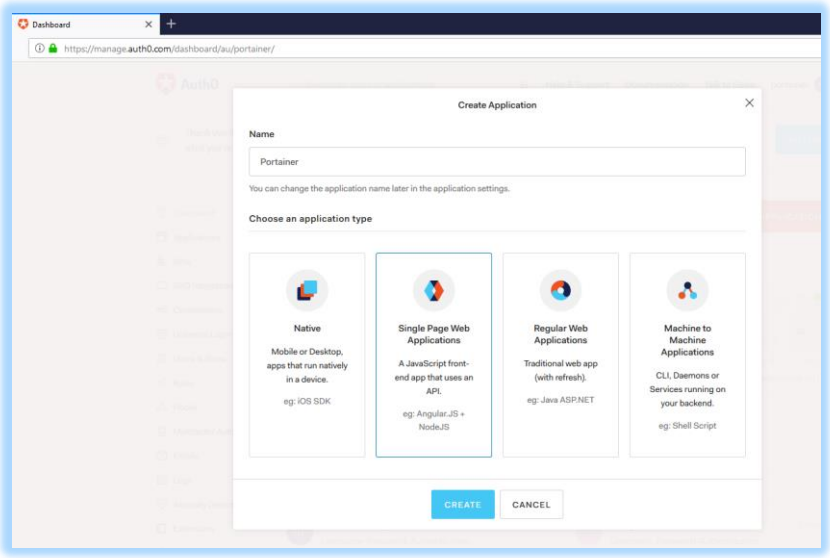
External Authentication for Auth0

Step 1. Login to Auth0 Administration Console as an Admin

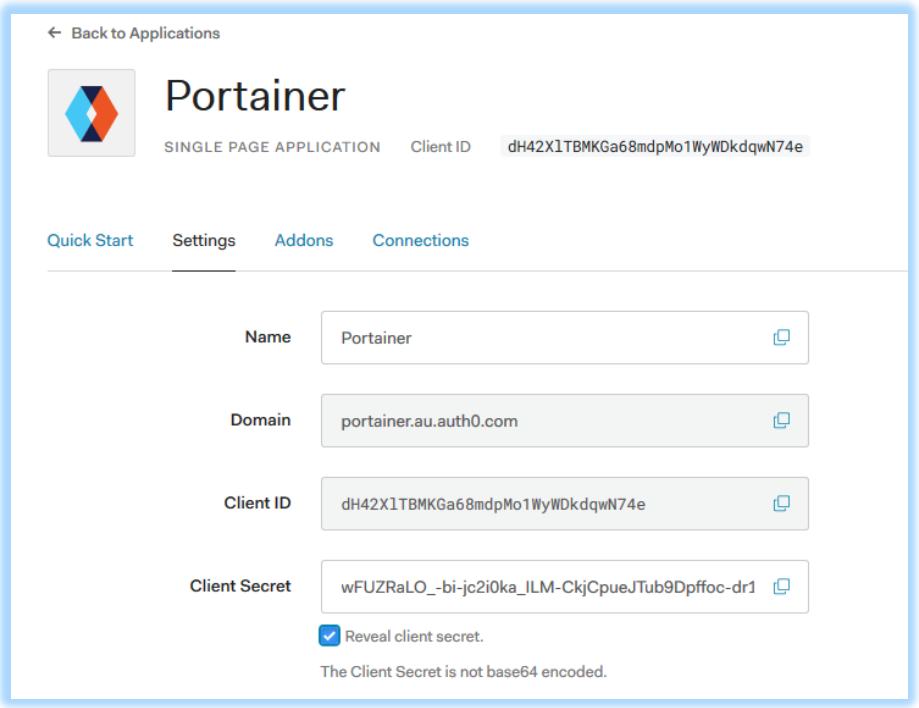


Step 2. Click “+ Create Application”

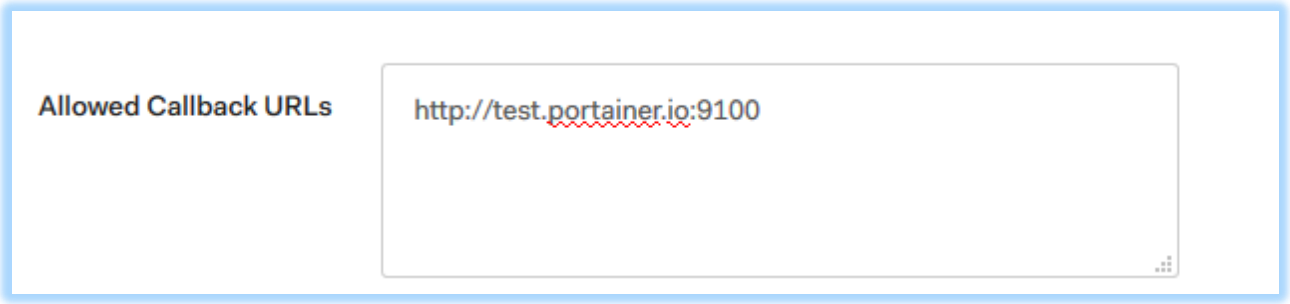
Give the application a name, and select “Single Page Web Applications”, and then click “Create”.



Step 3. Click on “Settings” in your new Application. Note down the “Domain”, Client ID” and “Client Secret”, you will need these later.



Scroll down to “Allowed Callback URLs” and enter in the FQDN:Port of your Portainer instance, then click “Save changes”



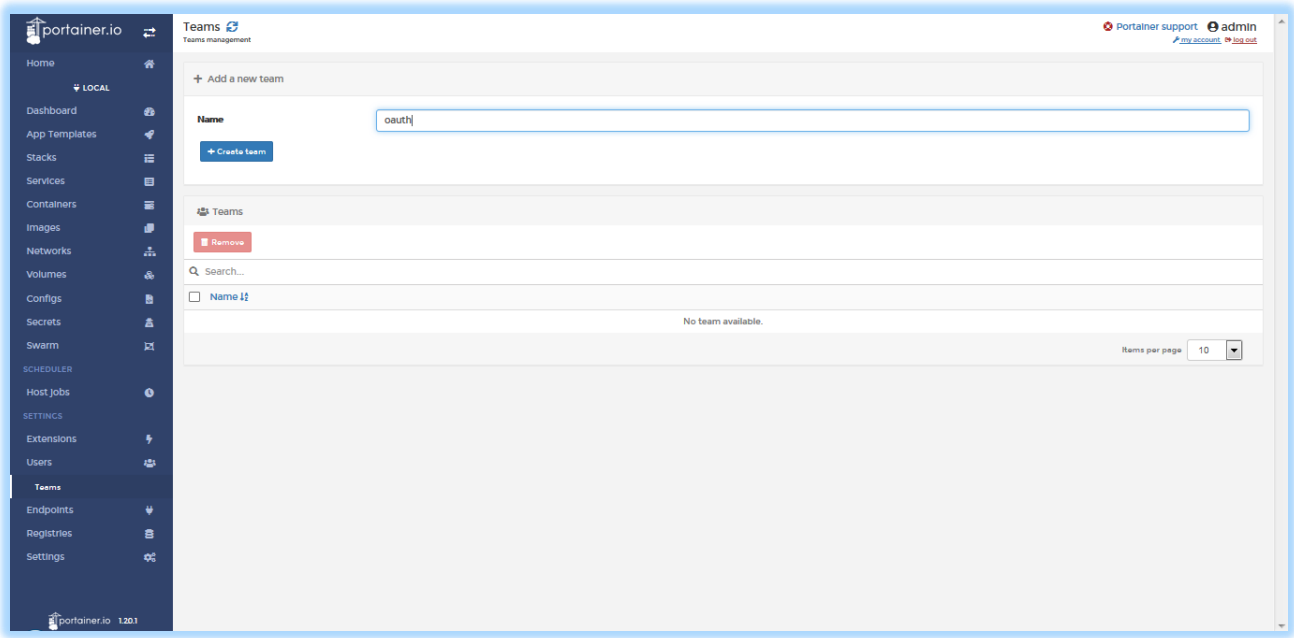
Now, we assume you already have users defined in your Auth0 system, but if not, click on “Users & Roles” in the left sidebar and add users as required.

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

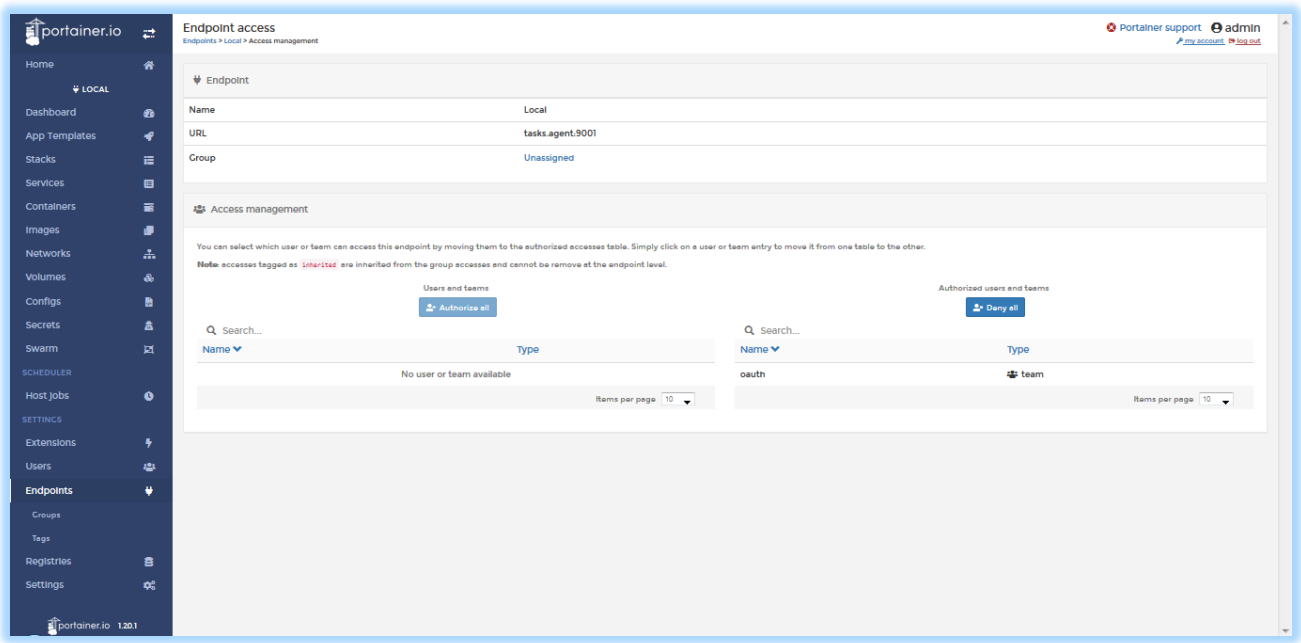
Purchase the Portainer External Authentication extension, and apply the license key (process not shown here).

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)



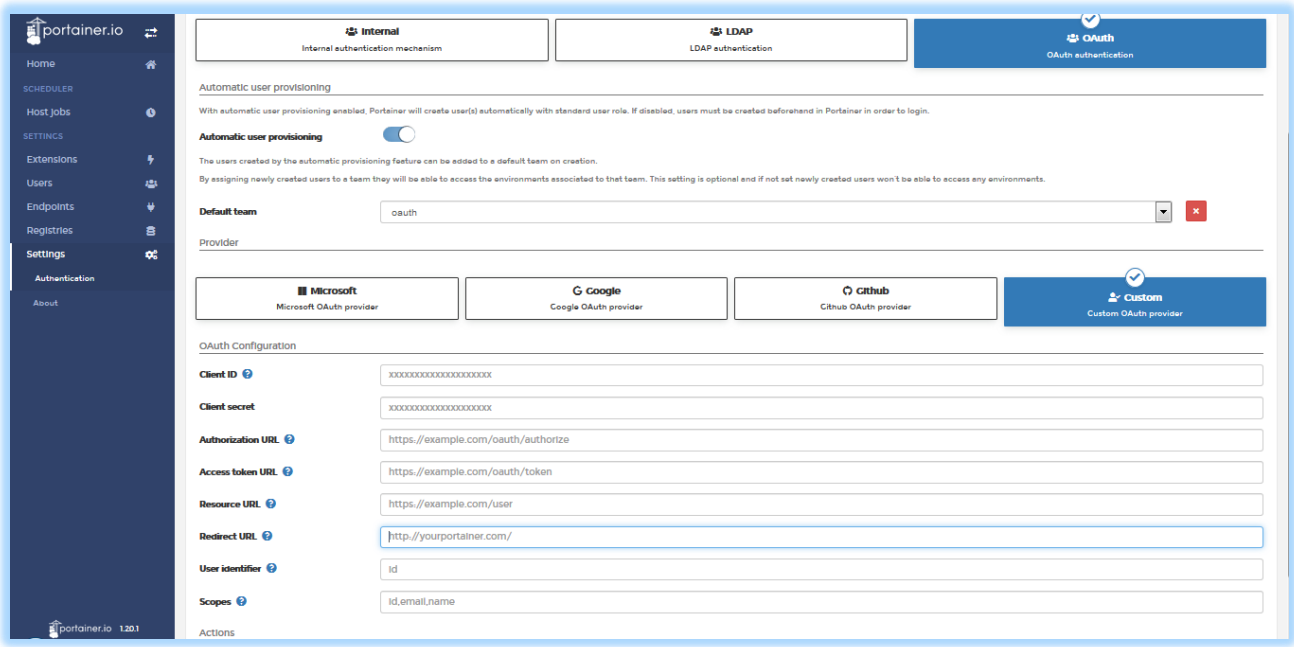
Click on “Endpoints” and then select the endpoints you would like to grant the oAUTH users access to manage, and then click “Manage Access”. Assign the oAUTH group you created to the authorized list.



Step 5. Let's configure Portainer External Authenication.

Click on "settings" and then "Authentication"

Select "oAUTH" and then select "Custom"



Enable "Automatic User Provisioning", and select the default team(oAUTH or similar) that you created previoulsly.

In "Client ID" enter the Client ID as previously obtained in the Auth0 application page.

In the "Client Secret" enter the Client Secret as previously obtained in the Auth0 application page.

In the "Authorisation URL" field, enter https://portainer.au.auth0.com/authorize. Make sure to replace "portainer.au.auth0.com with the "domain" you previously obtained in the Auth0 application page.

In the "Access token URL" field, enter https://portainer.au.auth0.com/oauth/token. Make sure to replace "portainer.au.auth0.com with the "domain" you previously obtained in the Auth0 application page.

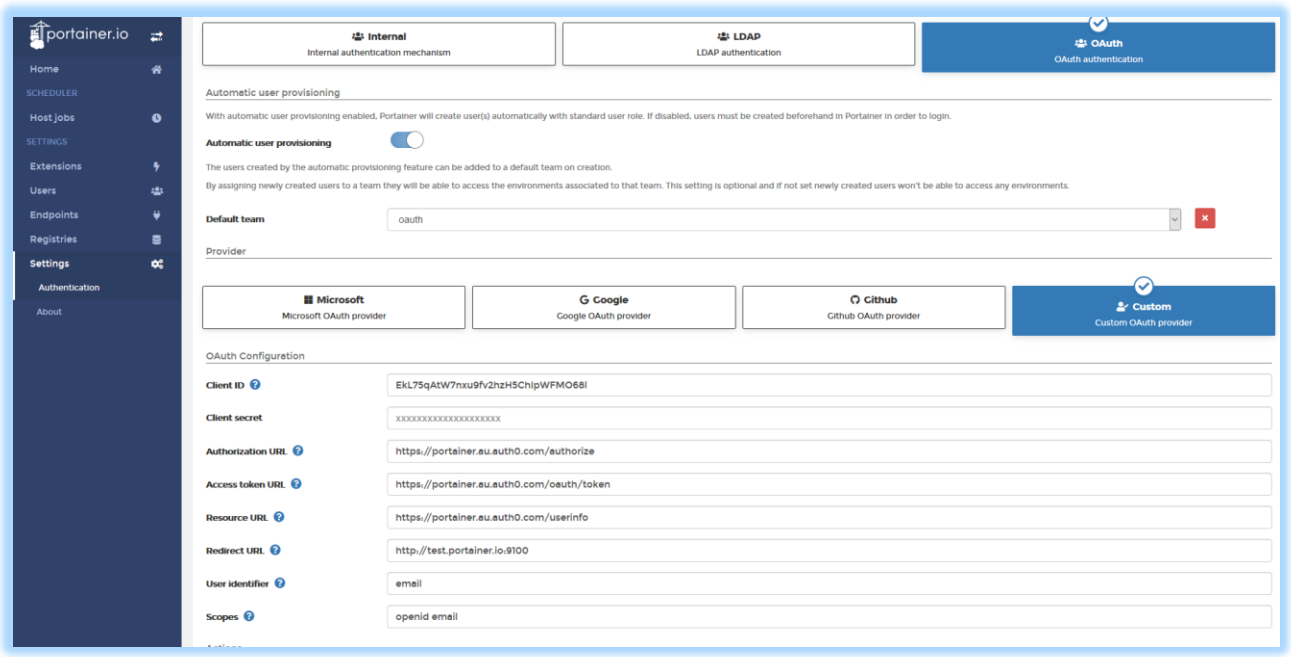
In the "Resource URL" field, enter https://portainer.au.auth0.com/userinfo. Make sure to replace "portainer.au.auth0.com with the "domain" you previously obtained in the Auth0 application page.

In the "Redirect URL" field, enter the FDQN/URL of your Portainer instance,
e.g. http://test.portainer.io:9100

In the "User Identifier" field, enter "email".

In the "Scopes" field, enter "openid email".

Click Save.



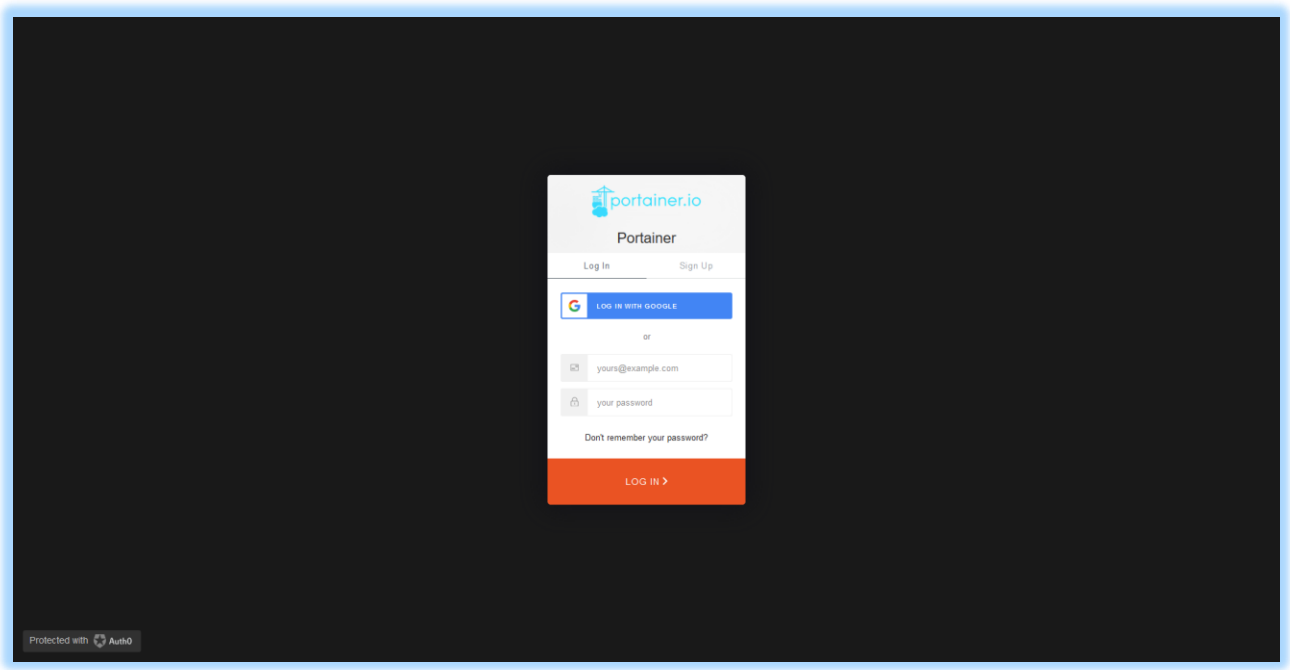
Click Save.

Logout as the Admin

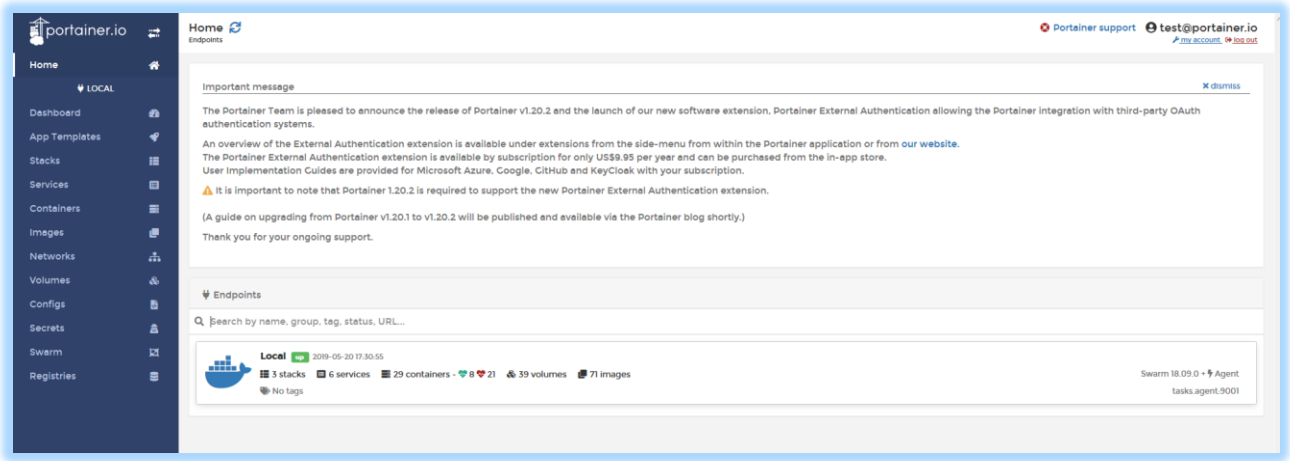
Step 6. Login using oAUTH

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

Enter your oAuth username and password where prompted (note you are redirected to your Auth0 instance for Auth).



You are now logged into Portainer using oAUTH from Auth0.



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.

.end.