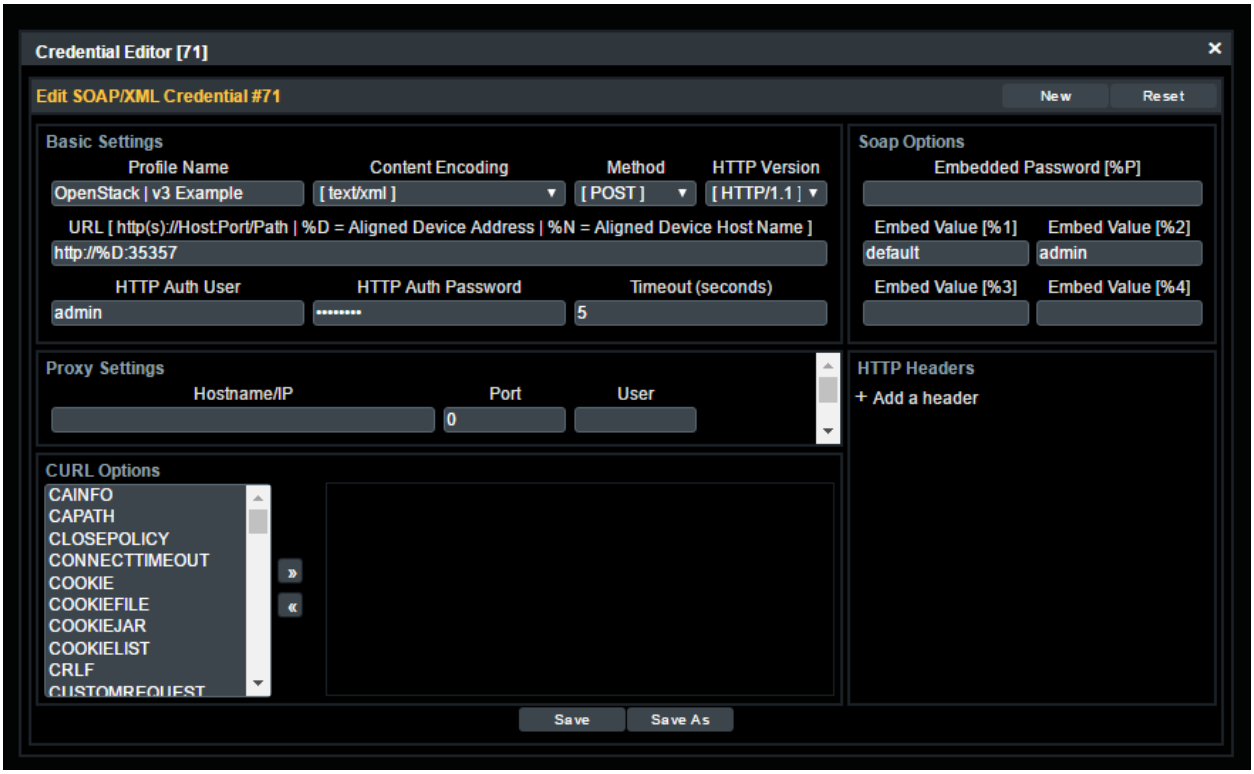
OpenStack Pilot PowerPack – Quick Setup

Caveats

- This PowerPack will only run on 7.8.2 or later EM7 systems – not tested with 8.1 platform.
- This PowerPack requires OpenStack Kilo or later – using only v2 API's or later.
- OpenStack Admin users can see Projects, but not what's managed by a project unless they are also members of the project.
- OpenStack Non-Admin users cannot see system resources such as Hypervisors or Networks
- The OpenStack PowerPack project is not yet complete, this pack is recommended only for testing purposes.
- Testing feedback should go to JSherwood@sciencelogic.com or CCordray@sciencelogic.com

Credential

Install the PowerPack as usual, there should be a supplied example credential. Use the example credential as the basis for your customized credential.



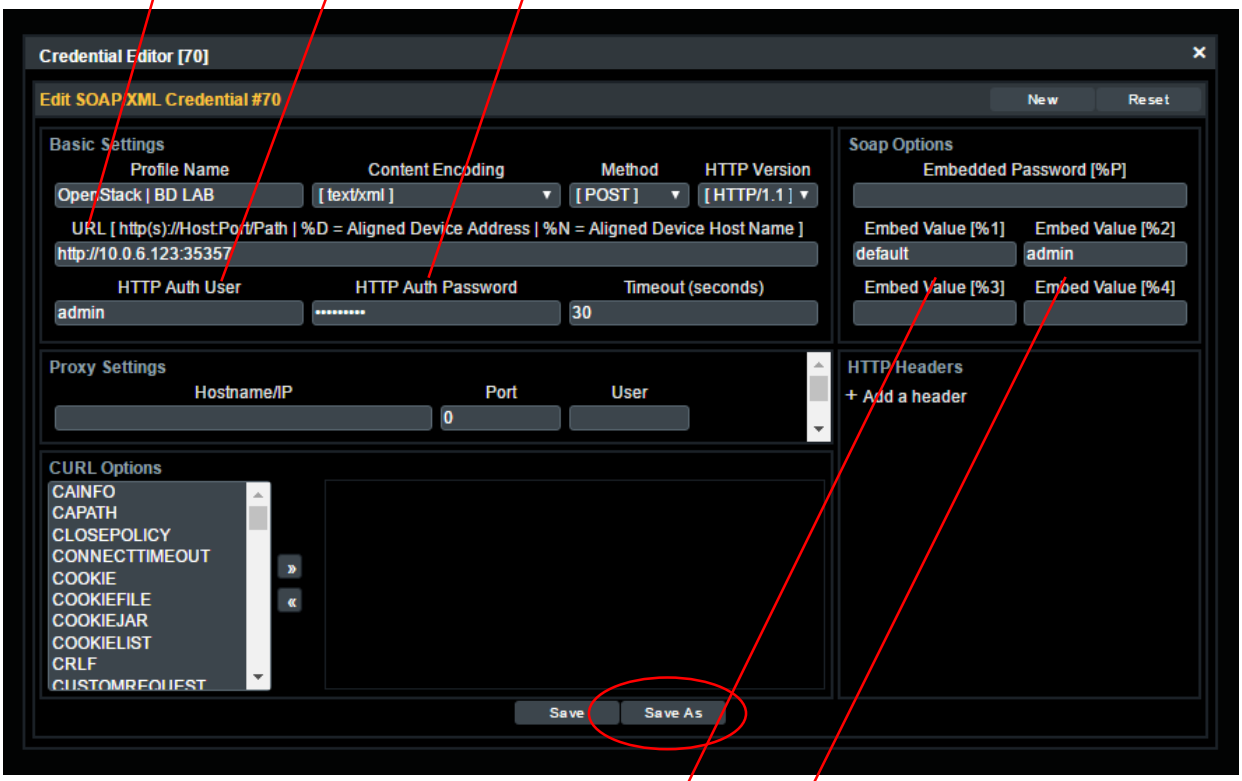
The following credential fields are required in order to authenticate to the OpenStack API.

The URL of the Keystone API Service. Format should be https://ipaddress:port

Ports are generally 5000 or 35357. You may use FQDN if resolvable. HTTPS is preferred.

The user account name

The user account password

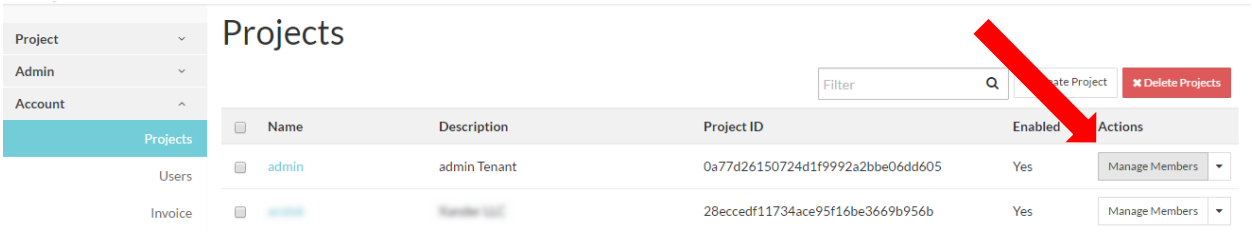


The OpenStack Project Name – typically the “Active” project for the user

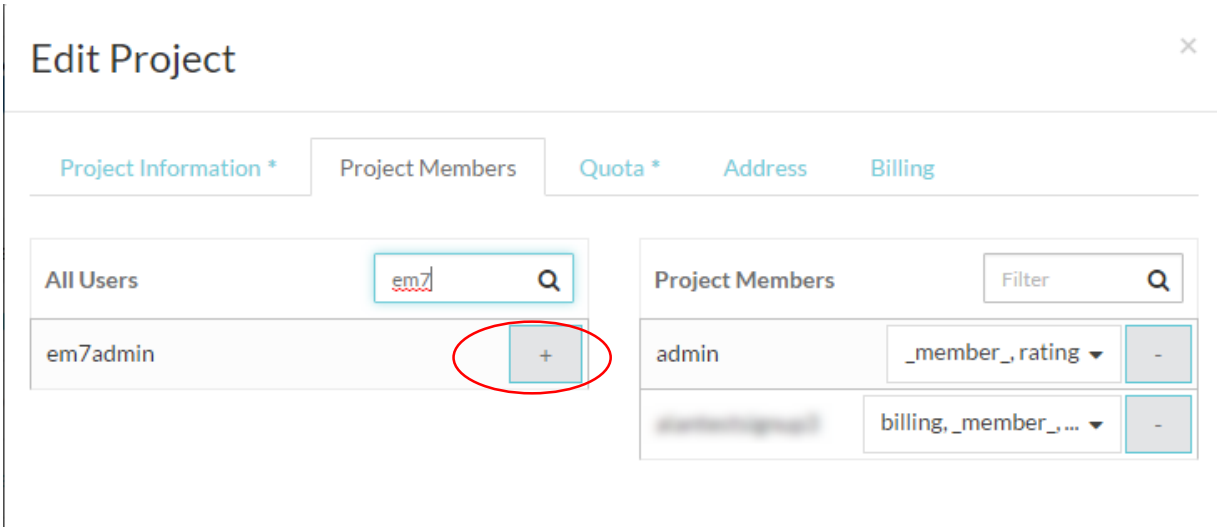
The OpenStack Domain Name – Commonly this is “default”

OpenStack Memberships

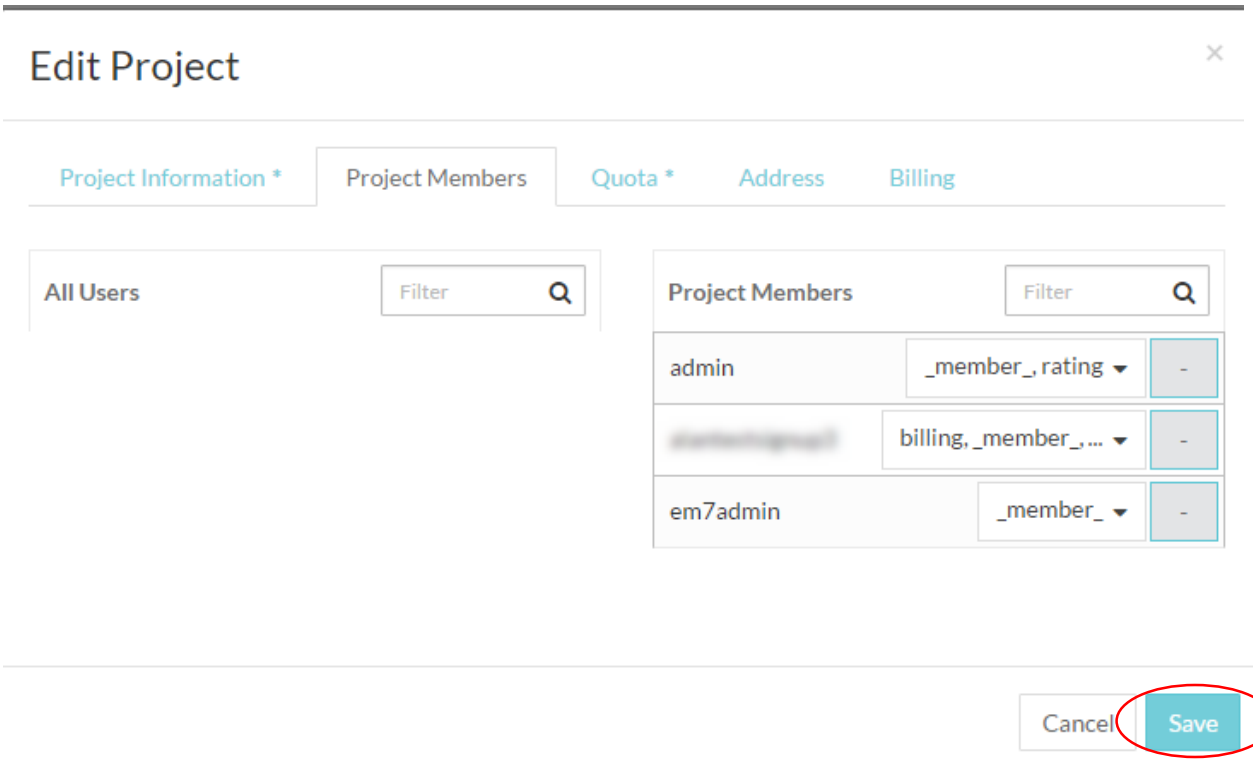
User accounts in OpenStack must have memberships into each Project in order to see project items. This is required even if the user account has Admin rights.



If you want one user account to monitor multiple OpenStack projects, that account must be a member of each project. Click on the “Manage Members”…



Locate the user, then click the “+” button, then click Save.


Edit Project
Project Information *
Project Members
Quota *
Address
Billing
All Users
Filter
Project Members
Filter
admin
member, rating
-
billing, _member_, ...
-
em7admin
member
-
Cancel
Save

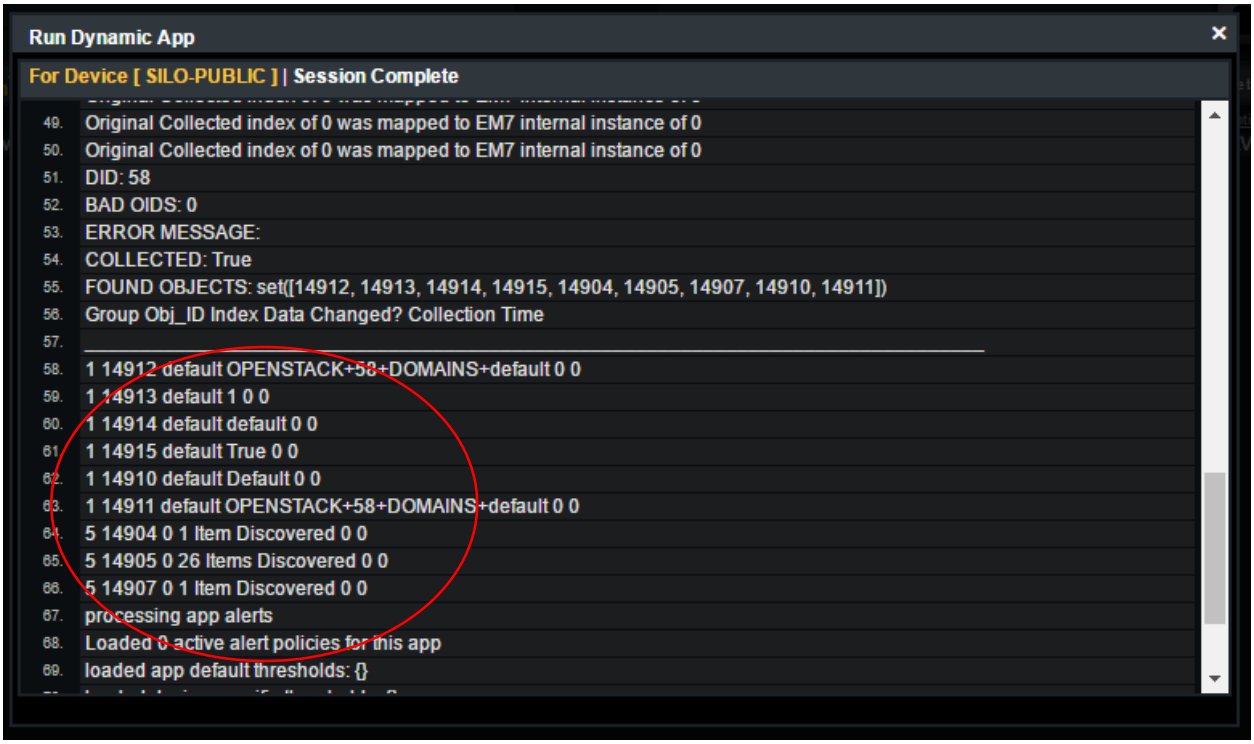
Discovery

You can discover your OpenStack system by either using EM7's discovery engine, or manually alignment of the discovery application. This guide will use the manual method because it allows for multiple project tenant monitoring.

In Device Registry, Select the Actions button, then click on "Create Virtual Device". Add the name of the device, then select the Device Class "OpenStack | Cloud Computing Platform | Virtual". Set the Collector and the Organization, then click Add. Exit the modal window, and then locate the device in the Registry page. Click on the yellow wrench icon, then go to the device properties page. From here, click on the "Collections" tabs.

Click on the Actions button, then select "Add Dynamic Application". Next, select the "OpenStack: Discovery*" application, then select the corresponding credential. Click save.

You may run the first collection by clicking on the lightning bolt icon.



If authentication and access worked correctly, your results should appear similar to the above. After the discovery runs for several minutes, you start seeing the topology appear.