Portus

Claim control of your
Docker images

$ whoami

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- Was born In Russia, work in Prague @ SUSE
- Senior OpenStack Automation Engineer
- Specializing in Linux / OpenStack / Containers and all things quality!
- Active open-source contributor (openSUSE, Docker, some python-related projects, etc)
- Co-organizer of Docker Prague Meetup

What is it all about ?

What do we have:

Docker Distribution: (https://github.com/docker/distribution)

- Open source (it's not Docker Hub!)
- Stores and distributes Docker images.
- Integrates with the Docker engine (login/pull/push).
- Does not deal with authorization.
- Provides an API to:
    - Modify & check the state of the registry.
    - Allow an external authorization process (Portus!).

Here comes Portus!

An authorization service

Portus + Docker Distribution = <3:

- 100 % Free and Open-Source
- Portus implements the login procedure from Distribution
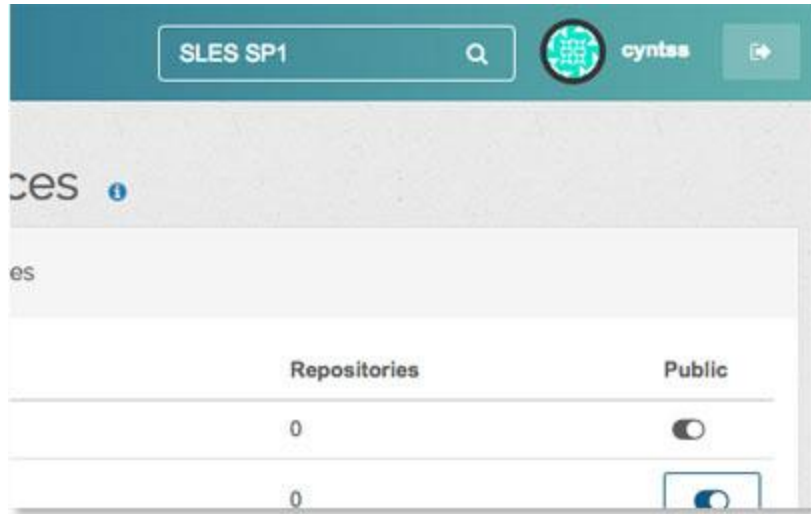
Highlights

Security

Easily manage users with teams

- Viewers
- Contributors
- Owners

Search

Audit

Other features:

- LDAP user authentication
- Synchronization with your private registry in order to fetch images and tags are available
- Removing images and tags from registry through Portus
- Star your favorite repositories
- Disable users temporarily, or remove them from the system
- Users that fail at logging in too many times will have their account locked
- Users can recover their password if they forgot it
- Showing users by their preferred "display name" rather by their user names

How it works?

Docker Registry

Portus

Execute operation X on Y

Docker Registry

Portus

Provide proof

Docker Registry

Portus

Request permission to do operation X on Y.

Docker Registry

Portus

Permission granted

Docker Registry

Portus

Execute operation X on Y

Docker Registry

Portus

Execute operation X on Y

Docker Registry

Portus

Execute operation X on Y

Deploying Portus

- https://software.opensuse.org/package/Portus
- https://hub.docker.com/r/opensuse/portus/
- Other setups

Demo time

You can be a contributor too!

- https://github.com/SUSE/Portus
- https://groups.google.com/forum/#!forum/portus-dev

Contacts:

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Questions ?