



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

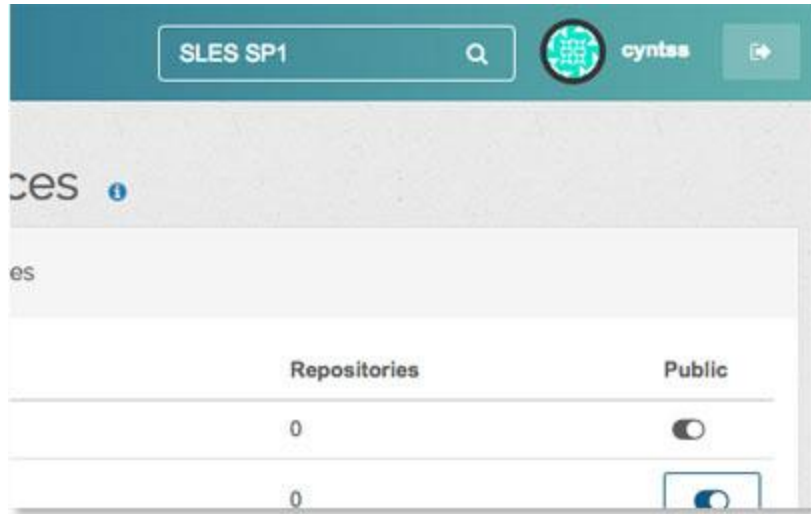
Security

Members ?		 Add members		
	User	Role	Edit	Remove
	cyntss	Owner		
	mssola	Viewer		
	meggie	Contributor		

Easily manage users with teams

- Viewers
- Contributors
- Owners

Search



Audit

The screenshot displays the Portus web interface. On the left is a dark sidebar with navigation links: Dashboard, Namespaces, Teams, and Admin. The main content area is titled 'Recent activities' and lists a series of actions performed by user 'mssola'. Each activity is preceded by a colored icon representing the action type (team creation, push, role change, user addition, namespace setting, namespace creation, and team creation). The activities are timestamped with 'less than a minute' or specific durations. On the right, a 'Repositories' panel shows tabs for 'All', 'Starred', and 'Personal', with 'public/busybox' listed under the 'All' tab. The footer of the interface states 'Created with ❤️ by the SUSE team'.

Portus

Search repository

mssola

Dashboard

Namespaces

Teams

Admin

Recent activities

- mssola created team Machinery
less than a minute
- mssola pushed public / busybox:latest
4 minutes
- mssola changed role of user john from viewer to contributor within the team Docker
7 minutes
- mssola added user john with role viewer to the Docker team
7 minutes
- mssola set the public namespace as public
9 minutes
- mssola created the internal namespace under the Docker team
10 minutes
- mssola created the public namespace under the Docker team
10 minutes
- mssola created team Docker
12 minutes

Repositories

All Starred Personal

public/busybox

Created with ❤️ by the SUSE team

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 ?

