



Claim control of your  
Docker images

# \$ whoami

## Evgeny Shmarnev

- Was born In Russia, work in Prague @ SUSE
- Senior OpenStack Automation Engineer
- Specializing in Linux / OpenStack / Containers and all things quality (yes, I like TDD)!
- 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:

- 1) Docker Hub
- 2) 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

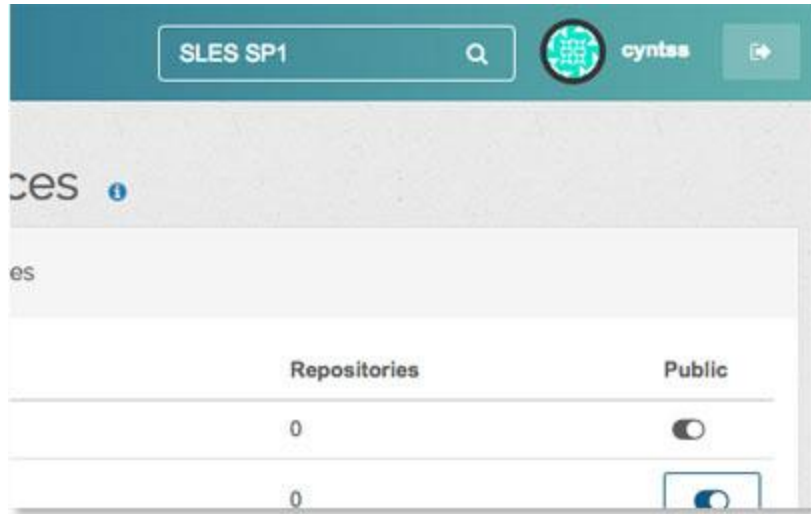
Members <span>?</span>		 Add members	
User	Role	Edit	Remove
 cyntss	Owner		
 mssola	Viewer		
 meggie	Contributor		



# 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 side, there is a 'Repositories' section with tabs for 'All', 'Starred', and 'Personal'. The 'All' tab is selected, showing a list of repositories, with 'public/busybox' visible. The top of the interface includes the Portus logo, a search bar, and the user profile 'mssola'.

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:

- [shmarnev@gmail.com](mailto:shmarnev@gmail.com)
- [github.com/Evalle](https://github.com/Evalle)
- eshmarnev on Twitter



# Questions ?

