

Portus 淺談

Daniel

簡報: <https://goo.gl/enurk6>

共筆: <https://goo.gl/KHBPNj>



Agenda

What is Portus ?

Why use Portus

Use Ansible Setup Portus Environment

Use Docker Compose Setup Portus Environment

Demo

What is Portus ?

Reference: <http://port.us.org/>

This is open source
authorization service and
user interface from SUSE.

Why use Portus?

DockerHub is a wonderful place

Open Source

Pretty UI

Secure

Easy management

Use Ansible Setup Portus Environment

- Ansible machine

Please login ansible server

```
# wget https://github.com/zarr12steven/Learn_Ansible/blob/master/playbooks.tar.gz?raw=true -O  
playbooks.tar.gz
```

```
# tar zxvf playbooks.tar.gz
```

```
# cd playbooks
```

```
# vim hosts
```

修改 portus 設定IP 為自己的VM IP

Use Ansible Setup Portus Environment

- Ansible machine

安裝 ansible 2.2.1.0 repo (因為寫法的關係)

```
# zypper addrepo
```

```
http://download.opensuse.org/repositories/systemsmanagement/openSUSE\_Leap\_42.2/systemsmanagement.repo
```

```
# zypper refresh
```

使用 a (always trust)

```
# zypper -n install ansible
```

```
# ansible -m ping 192.168.100.主機IP
```

```
# ansible-playbook -v portus.yml
```

Use docker compose Setup Portus Environment

- Portus Machine

```
# cd /opt/Portus
```


```
# /opt/Portus/compose-setup.sh -f -e 主機對外IP(192.168.100.x)  
(請於 /opt/Portus 目錄下指令)
```

Troubleshooting

- #systemctl restart docker

Create Admin

開啟 http://YOUR_IP:3000



Email

Username

Password (8 characters min.)

Password again

✓ Create admin



New Registry

Portus needs the information from the form below in order to fetch information from your registry and keep everything up to date (e.g. so tags are added after users push to the registry). Make sure that:

- If you check the SSL checkbox, SSL is properly configured on both sides.
- You include the port to the hostname (e.g. "registry.test.lan:5000").

If you have any doubts about this, just check our [documentation](#). In particular, make sure to check [how to configure Portus](#) and [how to configure your private registry](#).

Name

test

Hostname

registry.test.lan:5000

192.168.100.118:5000

Use SSL

☐

Create

Show Advanced

Registering your private registry into Portus



Dashboard



Namespaces



Teams



Admin



Help

Registries

Name	Hostname	SSL	
sakana	192.168.100.120:5000		Edit

Note well: right now Portus is designed to handle only a single private Registry.

Scenario 1

必須有安裝且啟動 docker

```
# zypper -n install docker
```

```
# systemctl start docker
```

```
# systemctl enable docker
```

```
# vi /usr/lib/systemd/system/docker.service
```

修改

```
ExecStart=/usr/bin/dockerd --containerd /run/containerd/containerd.sock
```

```
$DOCKER_NETWORK_OPTIONS --insecure-registry
```

```
192.168.100.YOURIP:5000
```

```
# ExecStart=/usr/bin/dockerd --containerd /run/containerd/containerd.sock
```

```
$DOCKER_NETWORK_OPTIONS $DOCKER_OPTS
```

```
# systemctl daemon-reload
```

```
# systemctl restart docker
```

```
# docker login -u admin IP:5000
```

```
# docker pull busybox
```

```
# docker images
```

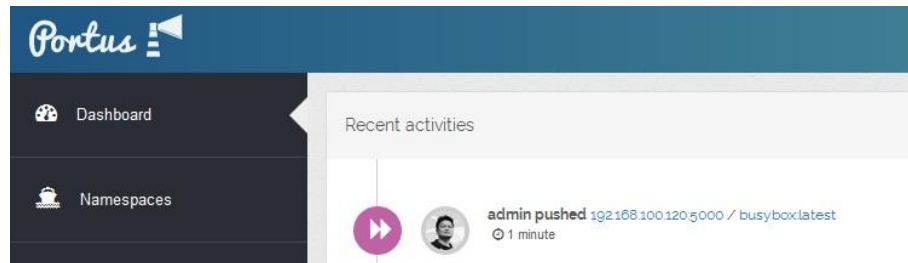
```
# docker tag busybox IP:5000/busybox
```

```
# docker images
```

```
# docker push IP:5000/busybox
```

請至 WEB 上確認

Dashboard



Scenario2

Create Team and Team member

Create Team Group: RD

- Teams -- > Create New Team

Create New User: jack

- Admin -- > Users -- > Create New User










Add jack to RD Team Role with Contributor

- Teams -- > RD -- > Add members

Add Team namespace “rd”

- Teams -- > RD -- > Add namespace
-

Teams Role

Members		Add members	
User	Role	Edit	Remove
 admin	Owner		
 jack	Contributor		
 mary	Viewer		

Owner: 權限最大, 可以管理、新增、刪除團隊中的使用者。

Contributor: 可以 push 跟 pull

Viewer: 只可以 pull

Kinds of Namespaces

Kind	Description	Permissions
Global	The one that belongs to the registry.	Only admin users can push. Everyone can pull.
Team	The ones that belong to a team.	Defined by the team .
Personal	Each user has its own namespace.	Only the user and administrators can push/pull.

Namespaces 簡單說就是一個 Repository 的概念，它可以讓你在使用 Poruts 時，方便且清晰的去做管理，namespaces 也可以建立在 Teams 跟 Personal，團隊在使用時，只需要做 pull 跟 push 就好了，權限上面的控管則可以使用 Teams Role。

Portus

Search Q jack

- Dashboard
- Namespaces
- Teams
- Help

192.168.100.120:5000 namespace

The global namespace for the registry Registry.

Namespace: 192.168.100.120:5000 Pull

Repository	# Tags
busybox	1

```
# docker login -u jack IP:5000
```

```
# docker pull IP:5000/busybox
```

```
# docker tag 192.168.100.YOURIP:5000/busybox 192.168.100.YOURIP:5000/rd/busybox
```

```
# docker push 192.168.100.YOURIP:5000/rd/busybox
```

Scenario3

Create New User: mary

- Admin -- > Users -- > Create New User

Add mary to RD Team Role with Viewer

- Teams -- > RD -- > Add members
-


```
# docker login -u mary IP:5000
```

```
# docker pull IP:5000/busybox
```

```
# docker tag 192.168.100.YOURIP:5000/busybox 192.168.100.YOURIP:5000/rd/mary
```

```
# docker push 192.168.100.YOURIP:5000/rd/mary
```

工商服務

- openSUSE x Docker.Taipei
 - Docker.Taipei
 - Facebook <https://www.facebook.com/groups/docker.taipei/>
 - openSUSE Taiwan
 - Facebook <https://www.facebook.com/groups/opensuse.zh/>
 - openSUSE KKTIX <http://opensuse-tw.kktix.cc/>
 - 2016/9月開始舉辦一連串workshop
 - Ansible workshop
 - Docker workshop

Reference

- [GitHub](#)
- [Portus](#)官網