

docker



portainer.io

1. INSTALL DEBIAN 11

***Enable SSH on installion**

***Enable XFCE on installation**

\$ su root

\$ nano /etc/sudoers *add sudoer

\$ sudo apt update && sudo apt upgrade

\$ sudo apt install net-tools

***To disable the Laptop Close Lid:**

\$ sudo nano /etc/systemd/logind.conf

***Insert these**

HandleLidSwitch=ignore

HandleLidSwitchExternalPower=ignore

HandleLidSwitchDocked=ignore

***To disable the GUI:**

\$ sudo systemctl set-default multi-user.target

\$ sudo reboot

To re-enable the GUI:

\$ sudo systemctl set-default graphical.target

\$ sudo reboot

***Firewall**

\$ sudo apt install ufw

\$ sudo ufw allow ssh

\$ sudo ufw allow http

\$ sudo ufw allow 3389

\$ sudo nano /etc/network/interfaces

\$ sudo systemctl restart networking

2. OpenSSH permissions

```
$ sudo nano /etc/ssh/sshd_config
```

*Insert these

```
PasswordAuthentication yes
ChallengeResponseAuthentication no
PermitRootLogin yes
PubkeyAuthentication yes
```

```
*ChallengeResponseAuthentication no
GSSAPIAuthentication yes
GSSAPICleanupCredentials no
```

```
*UsePAM yes
*X11Forwarding yes
*PrintMotd no
```

3. INSTALL DOCKER {ENGINE}

***UPDATE**

```
$ sudo apt-get update
```

```
$ sudo apt-get install \
ca-certificates \
curl \
gnupg \
lsb-release
```

***ADD DOCKER GPG KEY**

```
$ sudo mkdir -p /etc/apt/keyrings
$ curl -fsSL https://download.docker.com/linux/debian/gpg |
  sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
```

***ADD DOCKER REPO**

```
$ echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/debian \

$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

***UPDATE {AGAIN}**

```
$ sudo apt-get update
```

3. INSTALL DOCKER {ENGINE}

***UPDATE {AGAIN}**

```
$ sudo apt-get install docker-ce docker-ce-cli containerd.io  
docker-compose-plugin
```

***DOCKER PULL**

```
$ sudo docker pull hello-world
```

```
$ sudo docker run hello-world
```

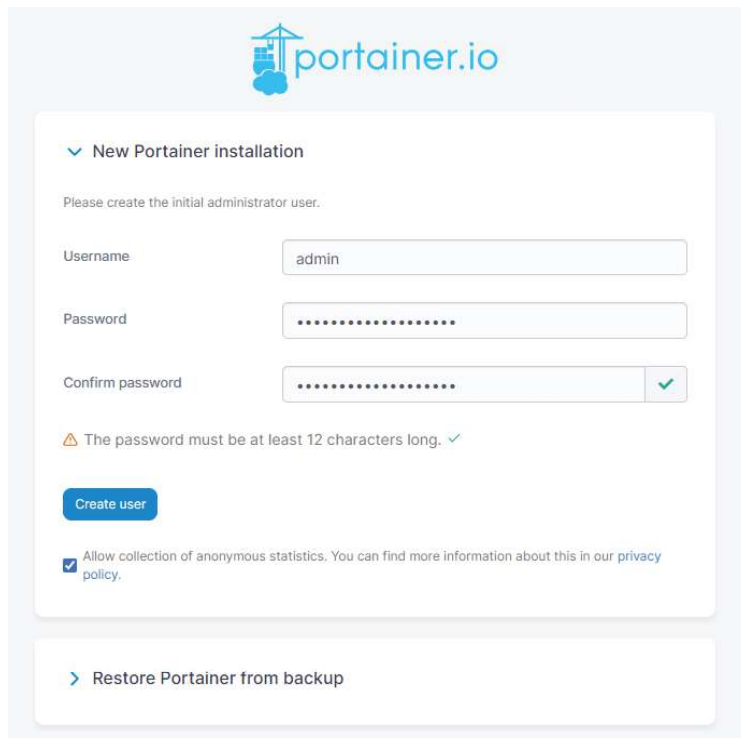
4. INSTALL PORTAINER CE {P:9000}

***PORTAINER DATABASE**

```
$ docker volume create portainer_data
```

***DOCKER PULL**

```
$ docker run -d -p 8000:8000 -p 9443:9443 -p 9000:9000 --name portainer --restart=always -v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer-ce:latest
```



The screenshot shows the Portainer.io web interface. At the top is the Portainer logo and the text 'portainer.io'. Below this is a section titled 'New Portainer installation' with a dropdown arrow. Underneath, it says 'Please create the initial administrator user.' There are three input fields: 'Username' with the value 'admin', 'Password' with masked characters, and 'Confirm password' with masked characters and a green checkmark icon. Below these fields is a warning message: '⚠ The password must be at least 12 characters long. ✓'. At the bottom of this section is a blue 'Create user' button. Below the button is a checkbox labeled 'Allow collection of anonymous statistics. You can find more information about this in our [privacy policy](#).' which is checked. At the very bottom of the interface is a button with a right arrow and the text 'Restore Portainer from backup'.