

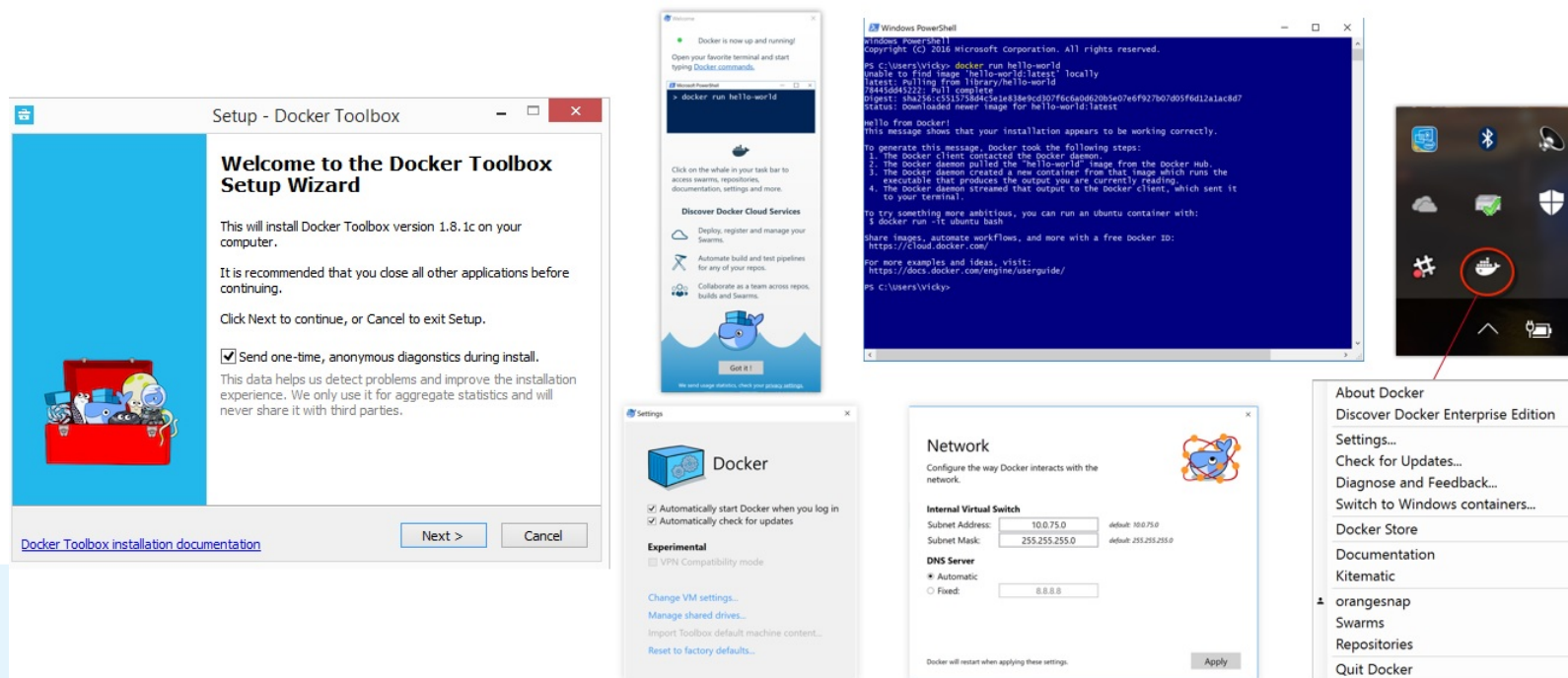
Section 3 - Installation of Docker

Docker Installation (1)

- Install Docker on Linux

- `# curl -sSL https://get.docker.com/ | sh`

- Install Docker on Windows (Docker for Windows – Docker toolbox)



Docker Installation (2)

- Free online Docker lab [Play with Docker](https://labs.play-with-docker.com/)

The screenshot displays the Docker Playground web interface. On the left sidebar, there is a timer showing 03:58:52, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' link. Below this, a list of instances shows one instance with IP 192.168.0.28 and name 'node1'. The main panel shows details for the selected instance 'bcgpej0a_bcgpek0abk8g00fd90'. It lists the IP as 192.168.0.28, memory usage as 0.82% (32.79MiB / 3.906GiB), and CPU usage as 1.04%. The SSH command is provided as 'ssh ip172-18-0-8-bcgpej0abk8g00fd90@direct.labs.play-with-doc'. The terminal window shows a warning message: 'WARNING!!!! This is a sandbox environment. Using personal credentials is HIGHLY! discouraged. Any consequences of doing so are completely the user's responsibilities. The PWD team.' followed by the prompt '[node1] (local) root@192.168.0.28 ~' and a dollar sign prompt '\$'.

Docker Playground

https://labs.play-with-docker.com/p/bcgpej0abk8g00fd90#bcgpej0a_bcgpek0abk8g00fd90

03:58:52

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28
node1

bcgpej0a_bcgpek0abk8g00fd90

IP
192.168.0.28

Memory
0.82% (32.79MiB / 3.906GiB)

CPU
1.04%

SSH
ssh ip172-18-0-8-bcgpej0abk8g00fd90@direct.labs.play-with-doc

```
#####  
#                                     #  
#          WARNING!!!!              #  
# This is a sandbox environment. Using personal credentials #  
# is HIGHLY! discouraged. Any consequences of doing so are #  
# completely the user's responsibilities.                    #  
# The PWD team.                                              #  
#####  
[node1] (local) root@192.168.0.28 ~  
$
```

Install Docker Toolbox on Windows

- [Install Docker Toolbox on Windows](#)
- [DockerToolbox.exe](#)

Install Docker on CentOS Linux

- [Intall Docker on CentOS Linux](#)
- [Post-installation steps for Linux](#)

Install Docker on CentOS Linux

- The complete list of commands to install **Docker** and **docker-compose**

```
# curl -sSL https://get.docker.com/ | sh
# systemctl enable docker
# systemctl start docker
# curl -L "https://github.com/docker/compose/releases/download/1.24.0/docker-compose" -o /usr/local/bin/docker-compose
# chmod +x /usr/local/bin/docker-compose
```

Install Docker on CentOS Linux (2)

- Optional setup bash auto completion

```
# yum install -y bash-completion  
# curl -L https://raw.githubusercontent.com/docker/compose/1.24.0/contr
```

CentOS 7 VM Setup

- You can find the [CentOS-7-VM-Setup.pdf](#) guide in the resources directory (`resources/linux-vm-setup/CentOS-7-VM-Setup.pdf`)

Other Tools

- Visual Studio Code
- MobaXterm
- Putty
- WinSCP
- GitHub account
- Docker Hub account

PC requirements (1)

VT-x enabled

This is a virtualization technology that should be enabled from the BIOS, if it is not already enabled

Minimum Hardware

- CPU: i3
- Ram: 4Gb
- HD: 20Gb free space

PC requirements (2)

Recommended Hardware

- CPU: i5
- Ram: 8Gb
- HD: 20Gb free space