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Basics of a CSIRT: Software Environment RTIR: Installing and Configuring Docker

Accra, Ghana, ** August 2021



OCWAR-C

ORGANISED CRIME: WEST AFRICAN RESPONSE ON
CYBERSECURITY AND FIGHT AGAINST CYBERCRIME



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(Ghana) August 2021



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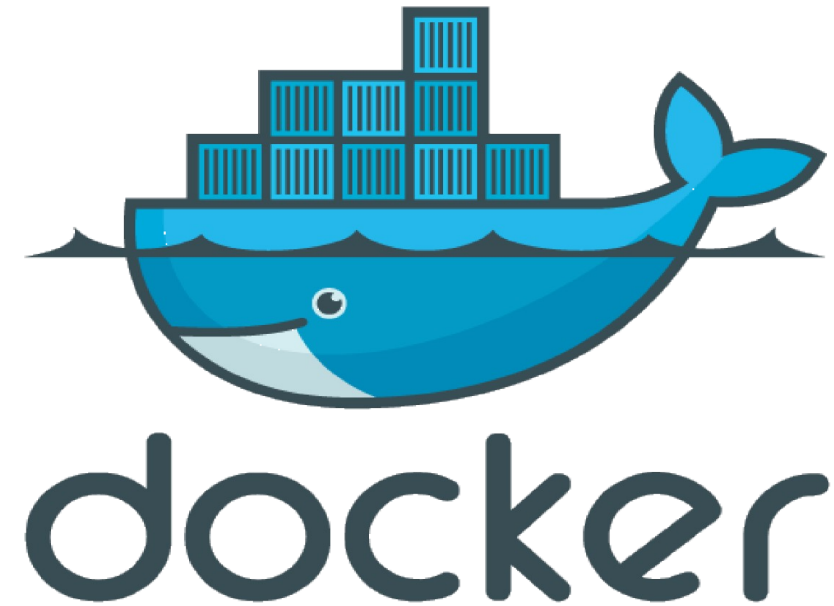
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What is Docker



- Open platform for developing, shipping, and running applications.
- Enables you to separate your applications from your infrastructure so you can deliver software quickly.
- Manage your infrastructure in the same ways you manage your applications.
- Why Docker?
 - Simplicity
 - Scalable
 - Adaptable
 - Makes your work faster and easier





Preparing the Environment



Update your existing list of packages

```
$ sudo apt update
```



Preparing the Environment



Install prerequisite packages which let apt use packages over HTTPS

```
$ sudo apt install apt-transport-https ca-certificates  
curl software-properties-common
```



Preparing the Environment



Add the GPG key for the official Docker repository to your system

```
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg |  
sudo apt-key add -
```



Preparing the Environment



Add Docker repository to APT sources

```
$ sudo add-apt-repository "deb [arch=amd64]  
https://download.docker.com/linux/ubuntu focal stable"
```



Preparing the Environment



Update the package database with the Docker packages from the newly added repo

```
$ sudo apt update
```



Preparing the Environment



Ensure that you install from the Docker repo instead of the default Ubuntu repo

```
$ apt-cache policy docker-ce
```



Preparing the Environment



Ensure that you install from the Docker repo instead of the default Ubuntu repo

```
$ apt-cache policy docker-ce
```

You should see an output similar to this:

```
docker-ce:
```

```
  Installed: (none)
```

```
  Candidate: 5:19.03.9~3-0~ubuntu-focal
```

```
Version table:
```

```
  5:19.03.9~3-0~ubuntu-focal 500
```

```
  500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
```



Installation



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Installing Docker is done by inputting the following command:

```
$ sudo apt install docker-ce
```



Installation



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Docker should now be installed, the daemon started, and the process enabled to start on boot. Check that it's running:

```
$ sudo systemctl status docker
```



Installation



The output should be similar to the following, showing that the service is active and running:

```
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset:
enabled)
   Active: active (running) since Tue 2020-05-19 17:00:41 UTC; 17s ago
 TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
  Main PID: 24321 (dockerd)
   Tasks: 8
  Memory: 46.4M
  CGroup: /system.slice/docker.service
          └─24321 /usr/bin/dockerd -H fd://
--containerd=/run/containerd/containerd.sock
```



Installation



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Installation



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Docker is now installed and running on the server.

Keep the terminal open and open a new window within the terminal.

Here, we will now pull, build and run Request Tracker Incident Response.



Thank you

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