DOCKER INSTALLATION

DevOps Certification Training

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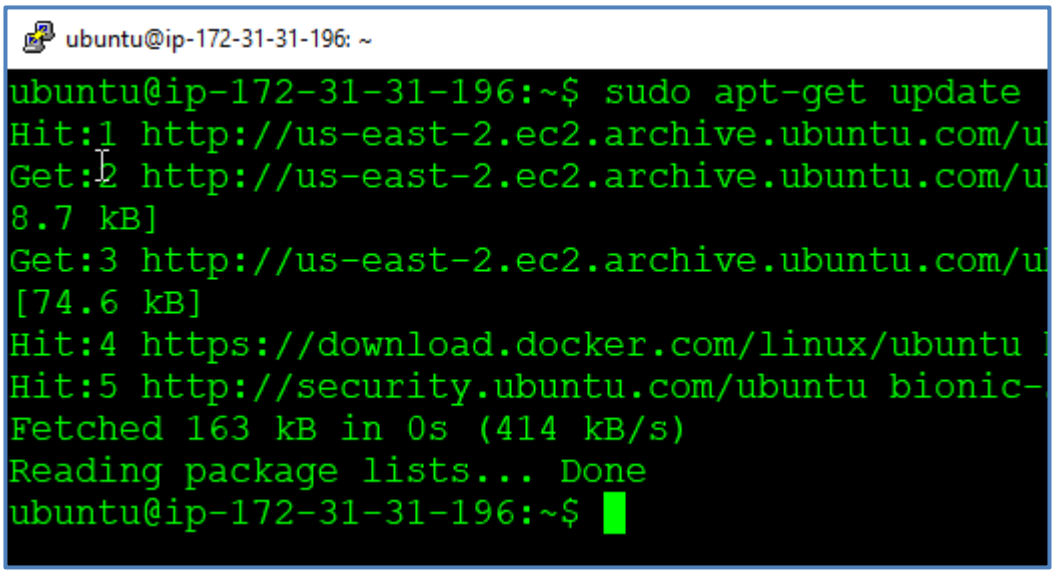
DOCKER INSTALLATION ON UBUNTU

Note: The terminal with green color commands represents terminal and the one with white color commands represents slave terminal.

Docker Installation

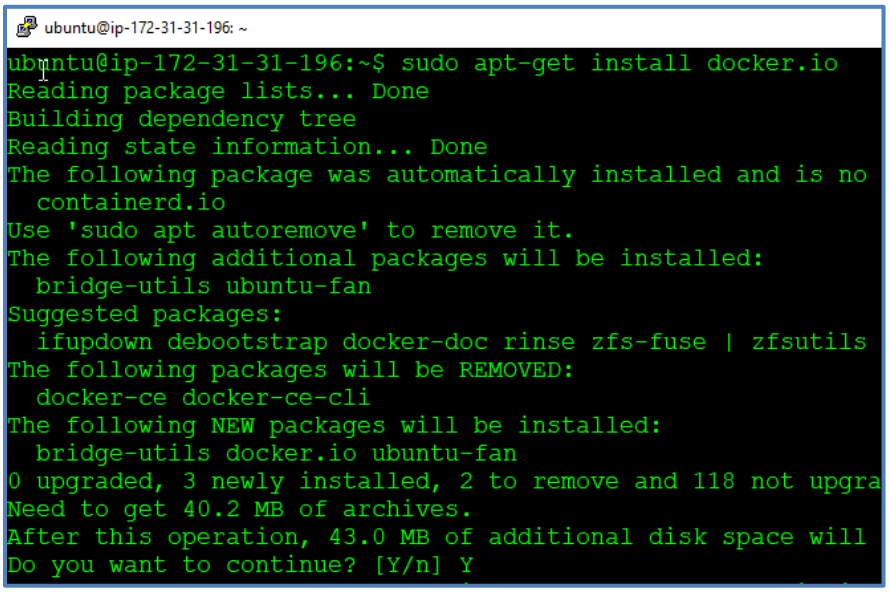
Step 1: Update your machine using the below command

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



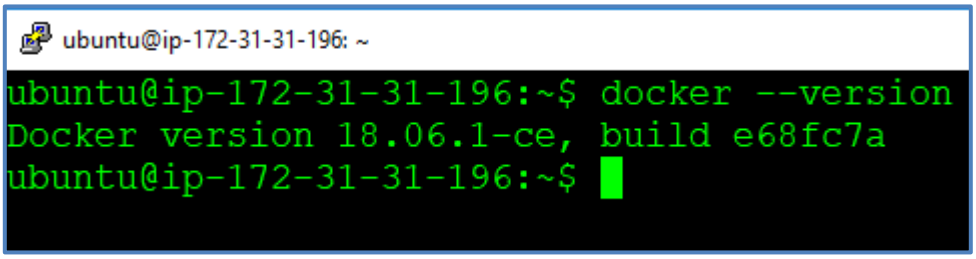
Step 2: Now use this command to install docker on your system

```
$ sudo apt-get install docker.io
```



Step 3: In order to check if docker installed properly in your system or not, use the command below:

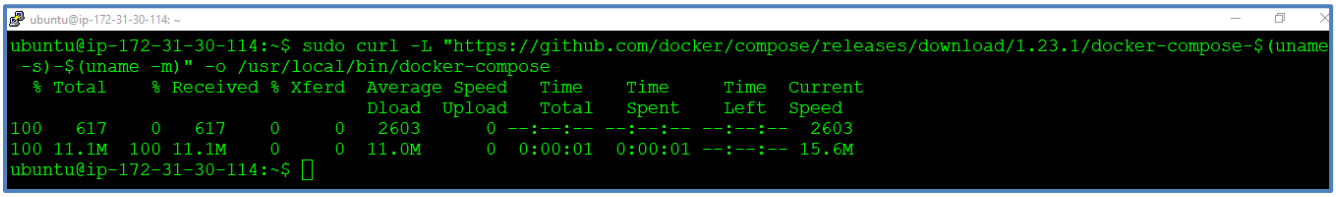
```
$ docker --version
```



Docker compose:

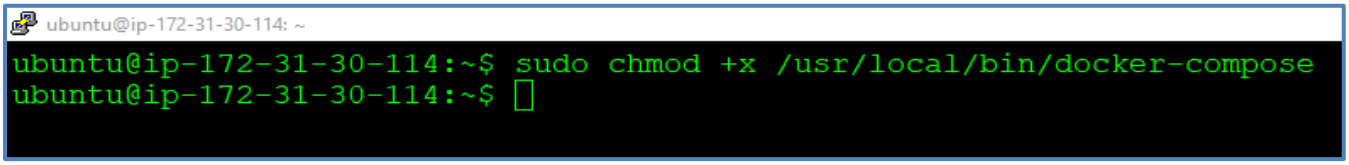
Step 1: Run this command to download the latest version of Docker Compos.

```
$ sudo curl -L "https://github.com/docker/compose/releases/download/1.23.1/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```



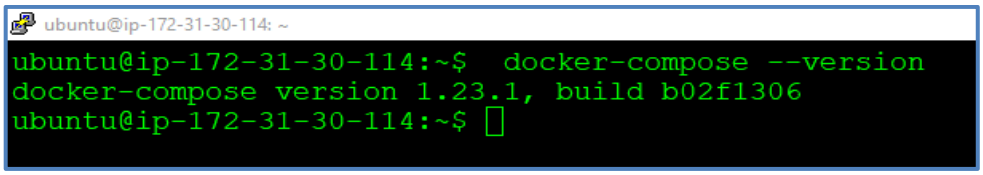
Step 2: Apply executable permissions to the binary.

```
$ sudo chmod +x /usr/local/bin/docker-compose
```



Step 3: Run the following command to test the installation.

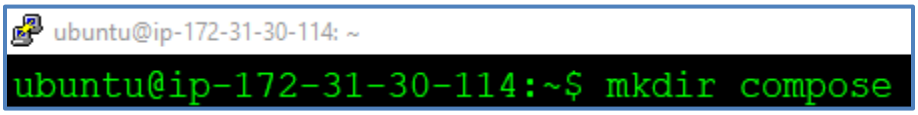
```
$ docker-compose --version
```



Before moving ahead to the installation of docker swarm let us create a compose directory. Follow the steps.

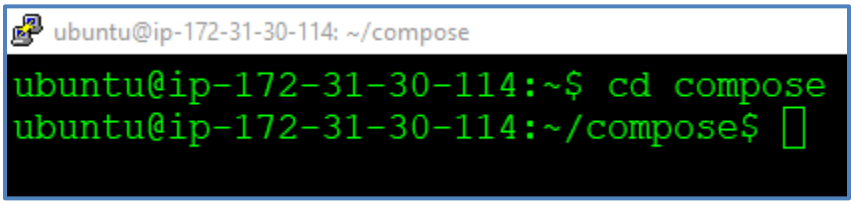
Step 1: Create the directory.

```
$ mkdir compose
```



Step 2: Get inside the directory by using the following command.

```
$ cd compose
```

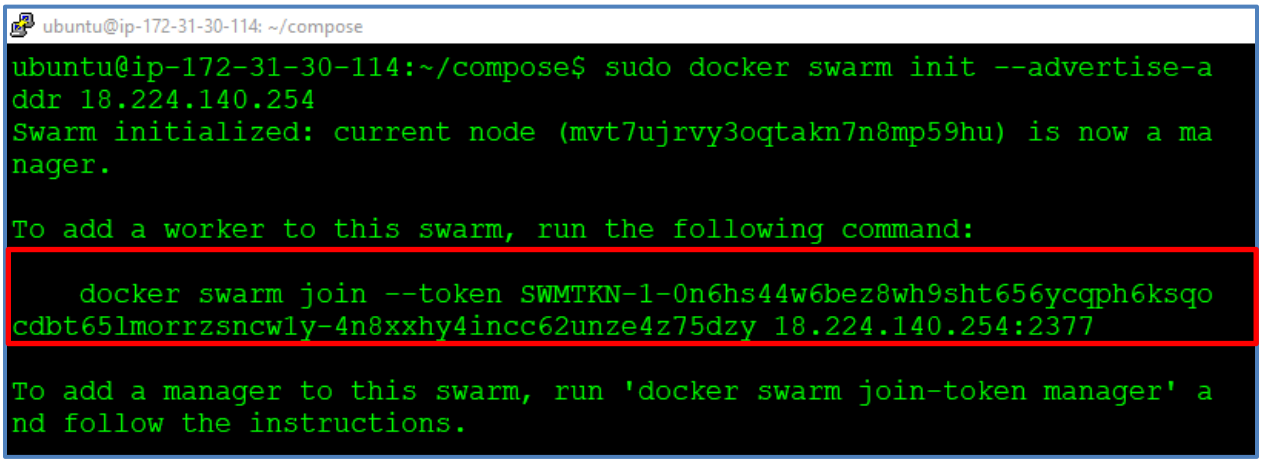


Initialization of Docker Swarm:

Since we have already installed docker in our system, along with that docker swarm is already installed. We just need to initialize the docker swarm

Step 1: Use the following command to create a new swarm.

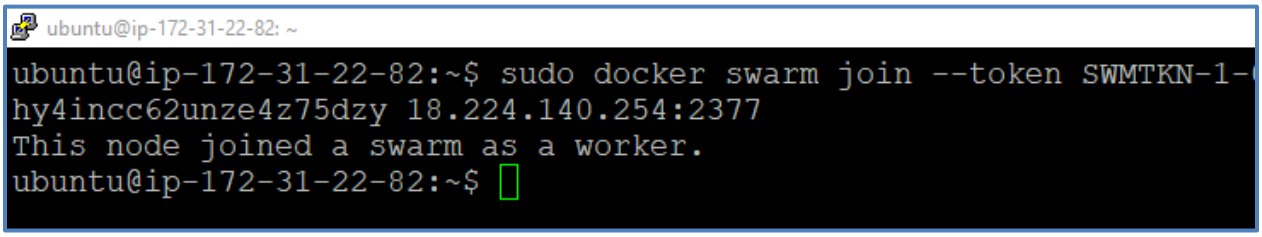
```
$ sudo docker swarm init –advertise-addr  <master IP>
```



Copy the token (marked in red) to clipboard.

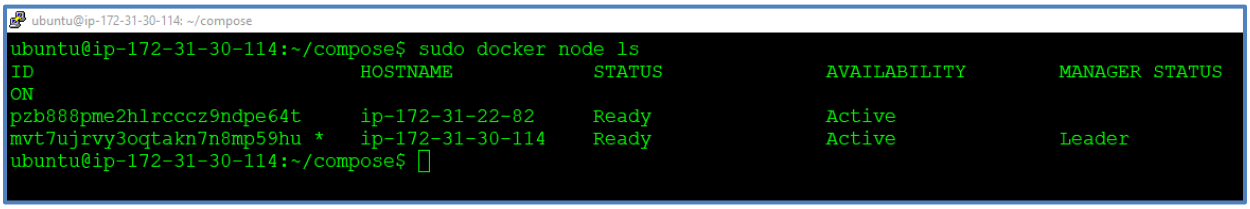
Step 2: Now we will start a new session as worker, and we will join the swarm that we just created. Paste the copied token shown below.

```
$ sudo <token>
```



Step 3: Now check we will check the node list as the manager.

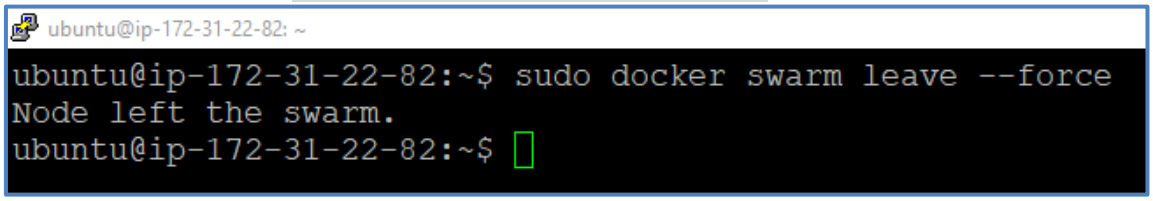
```
$ sudo docker node ls
```



As you can see worker has joined and status of both nodes are ready.

Step 4: Follow the commands given below to leave the swarm.

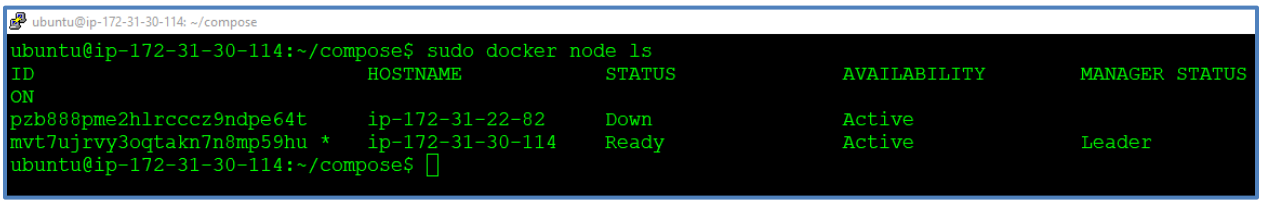
```
$ sudo docker leave --force
```



Now that the node left the swarm, let's check the node list as manager and check the status of the nodes.

Step 5: To check the node list as manager follow the command given below.

```
$ sudo docker node ls
```



As you can, the status of the node that left the swarm is no longer ready.

Step 6: To leave the swarm as manager follow the command given below.

```
$ sudo docker swarm leave --force
```