Installation and configuration of docker in Ubuntu 18.04

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Install docker package

Below are the steps to install docker in ubuntu 18.04

- First update existing packages.

```
$ sudo apt update ; sudo apt upgrade
```

- Install utility packages

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

- Add GPG key

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

- Add docker repository to apt sources.

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

- Update apt sources and install docker

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

- Verify docker service is started.

```
$ sudo systemctl status docker
```

Enable docker command execution without sudo.

- We need to add user to docker group to enable docker command execution without sudo user.
  - To add current user

```
$ sudo usermod -aG docker ${USER}
```

  - Alternatively to add any other user

```
$ sudo usermod -aG docker <username>
```

- Verify if user is added to docker group by listing the groups the user is added to.

```
$ id -nG ${USER}
```

- Login to new session, now you can execute docker commands without need sudo access.

```
$ su - ${USER}
```