Docker

- Install (ubuntu)

Install (ubuntu)

Run the following command to uninstall all conflicting packages:

```
for pkg in docker.io docker-doc docker-compose podman-docker containerd runc; do sudo apt-get remove $pkg; done
```

`apt-get` might report that you have none of these packages installed.

Images, containers, volumes, and networks stored in `/var/lib/docker/` aren't automatically removed when you uninstall Docker. If you want to start with a clean installation, and prefer to clean up any existing data, read the uninstall Docker Engine section.

Install using the apt repository

Before you install Docker Engine for the first time on a new host machine, you need to set up the Docker repository. Afterward, you can install and update Docker from the repository.

Set up the repository

1. Update the `apt` package index and install packages to allow `apt` to use a repository over HTTPS:

   ```
   sudo apt-get update
   sudo apt-get install ca-certificates curl gnupg
   ```

2. Add Docker's official GPG key:

   ```
   sudo install -m 0755 -d /etc/apt/keyrings
   curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
   sudo chmod a+r /etc/apt/keyrings/docker.gpg
   ```

3. Use the following command to set up the repository:

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

```
https://download.docker.com/linux/ubuntu \
  "$(. /etc/os-release && echo "$VERSION_CODENAME")" stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

> **Note**
> If you use an Ubuntu derivative distro, such as Linux Mint, you may need to use `UBUNTU_CODENAME` instead of `VERSION_CODENAME`.

Install Docker Engine

1. Update the `apt` package index:

   ```
   sudo apt-get update
   ```

2. Install Docker Engine, containerd, and Docker Compose.

   - Latest
   - Specific version

   To install the latest version, run:

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

---

3. Verify that the Docker Engine installation is successful by running the `hello-world` image.

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

   This command downloads a test image and runs it in a container. When the container runs, it prints a confirmation message and exits.

sudo groupadd docker
sudo usermod -aG docker $USER
newgrp docker