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# Docker Setup Documentation on Ubuntu

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## 1. Verify Current User

Before proceeding with any installation, it's important to confirm which user account is currently active.

**Command:**

whoami

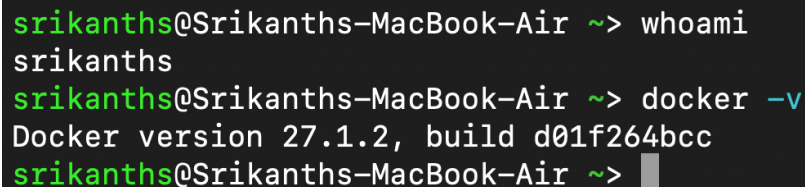
**Purpose:**

This command displays the username of the current user logged into the system.

**Expected Output:**

The username of the active user is shown, e.g., `username`.

**Screenshot:**

A terminal window screenshot on a dark background. The prompt is 'srikanths@Srikanths-MacBook-Air ~>'. The first command is 'whoami', which outputs 'srikanths'. The second command is 'docker -v', which outputs 'Docker version 27.1.2, build d01f264bcc'. The prompt is then shown again with a cursor.

```
srikanths@Srikanths-MacBook-Air ~> whoami
srikanths
srikanths@Srikanths-MacBook-Air ~> docker -v
Docker version 27.1.2, build d01f264bcc
srikanths@Srikanths-MacBook-Air ~> █
```

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## 2. Install Latest Version of Docker from Official Repository

This section outlines the process of installing Docker using the official Docker repository on Ubuntu.

**Steps:**

### **1. Update package index**

```
sudo apt-get update
```

### **2. Install prerequisite packages**

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

### **3. Add Docker's official GPG key**

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o  
/usr/share/keyrings/docker-archive-keyring.gpg
```

### **5. Set up the stable Docker repository**

```
echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg]  
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee  
/etc/apt/sources.list.d/docker.list > /dev/null
```

### **6. Update package index again**

```
sudo apt-get update
```

### **7. Install Docker Engine**

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

**Screenshot:**

```

srikanths@Srikanths-MacBook-Air ~-> brew install docker
==> Auto-updating Homebrew...
Adjust how often this is run with `HOMEBREW_AUTO_UPDATE_SECS` or disable with
`HOMEBREW_NO_AUTO_UPDATE=1`. Hide these hints with `HOMEBREW_NO_ENV_HINTS=1` (see `man brew`).
docker 27.1.2 is already installed but outdated (so it will be upgraded).
==> Fetching downloads for: docker
==> Downloading https://ghcr.io/v2/homebrew/core/docker/manifests/28.5.1
##### 100.0%
==> Fetching dependencies for docker: docker-completion
==> Downloading https://ghcr.io/v2/homebrew/core/docker-completion/manifests/28.5.1
##### 100.0%
==> Fetching docker-completion
==> Downloading https://ghcr.io/v2/homebrew/core/docker-completion/blobs/sha256:603e2df56e15c43c7802a8b6873e69f2ac6e3ef74a6c1bcce
##### 100.0%
==> Fetching docker
==> Downloading https://ghcr.io/v2/homebrew/core/docker/blobs/sha256:a032f9d8e396001b3ec86bc1d681c1105176f87e3bc5652dd3ad63308f0b
##### 100.0%
==> Upgrading docker
27.1.2 -> 28.5.1
==> Installing docker dependency: docker-completion
==> Downloading https://ghcr.io/v2/homebrew/core/docker-completion/manifests/28.5.1
Already downloaded: /Users/srikanths/Library/Caches/Homebrew/downloads/c3f7b1ace17114932e3980ff7459eff4a63af94c5b944a1b761fe91fed
966a53--docker-completion-28.5.1.bottle.manifest.json
==> Pouring docker-completion--28.5.1.all.bottle.tar.gz
📦 /opt/homebrew/Cellar/docker-completion/28.5.1: 10 files, 342.9KB
==> Pouring docker--28.5.1.arm64_tahoe.bottle.tar.gz
📦 /opt/homebrew/Cellar/docker/28.5.1: 13 files, 26.4MB
==> Running `brew cleanup docker`...
Disable this behaviour by setting `HOMEBREW_NO_INSTALL_CLEANUP=1`.
Hide these hints with `HOMEBREW_NO_ENV_HINTS=1` (see `man brew`).
Removing: /opt/homebrew/Cellar/docker/27.1.2... (14 files, 25.0MB)
srikanths@Srikanths-MacBook-Air ~->

```

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## 3. Verify Docker Installation and Check Status

After installation, verify Docker is installed correctly and check its status.

### Check Docker Version

```
sudo docker --version
```

#### Purpose:

Confirms the installed Docker version.

#### Expected Output:

Displays the installed Docker version, e.g., **Docker version 20.10.x, build abcdefg.**

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### Check Docker Service Status

```
sudo systemctl status docker
```

**Purpose:**

Ensures the Docker service is active and running.

**Expected Output:**

Shows Docker service status as **active** (**running**).

**Screenshot:**

```
srikanths@Srikanths-MacBook-Air ~> docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
srikanths@Srikanths-MacBook-Air ~>
```

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## Notes

- To run Docker commands without **sudo**, add your user to the Docker group:

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

- Log out and log back in to apply group changes.
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