

Install Docker on Debian

? One-Line Download & Execute

```
apt install -y curl && curl -sSL https://docs.greenhome.stream/attachments/37 -o  
install_docker_portainer.sh && chmod +x install_docker_portainer.sh &&  
./install_docker_portainer.sh
```

Method A :

1. Install Docker on Debian 12

Before you install Docker Compose and Portainer, ensure that Docker is installed on your Debian 12 system.

Step 1: Update and Install Dependencies

```
apt update  
apt install -y apt-transport-https ca-certificates curl
```

Step 2: Add Docker's Official GPG Key

```
curl -fsSL https://download.docker.com/linux/debian/gpg | tee  
/etc/apt/trusted.gpg.d/docker.asc
```

Step 3: Add Docker's Official Repository

```
echo "deb [arch=amd64] https://download.docker.com/linux/debian $(lsb_release -cs) stable" |  
tee /etc/apt/sources.list.d/docker.list
```

Step 4: Install Docker

```
apt update  
apt install -y docker-ce docker-ce-cli containerd.io
```

Step 5: Verify Docker Installation

```
docker --version
```

Method B :

2. Install Docker Compose and Enable APT Updates

Step 1: Add Docker Compose APT Repository

Docker Compose is not included in the default Debian repositories, but you can use Docker's official repository for Compose.

Create a Docker Compose APT repository source:

```
echo "deb [arch=amd64] https://download.docker.com/linux/debian $(lsb_release -cs) stable" |  
tee /etc/apt/sources.list.d/docker.list
```

Step 2: Install Docker Compose

Now, install Docker Compose from Docker's APT repository:

```
apt update  
apt install -y docker-compose-plugin
```

This version of Docker Compose (the plugin version) integrates directly into the Docker CLI and will update with `apt update` and `apt upgrade`.

Step 3: Verify Docker Compose Installation

```
docker compose version
```

Method C :

3. Install Portainer Using Docker Compose (Optional)

Portainer is a popular web UI to manage Docker environments. You can easily deploy it using Docker Compose.

Step 1: Create the docker-compose.yml File

Create a `docker-compose.yml` file in a directory where you want to manage Portainer. You can place it anywhere you like, but let's say you create a directory called `portainer`:

```
mkdir -p ~/portainer  
cd ~/portainer
```

Now create the docker-compose.yml file using your favorite editor:

```
nano docker-compose.yml
```

Paste the following content for the Portainer setup:

```
version: "3.9"
services:
  portainer:
    image: portainer/portainer-ce:latest
    container_name: portainer
    restart: always
    networks:
      - portainer_network
    volumes:
      - /var/run/docker.sock:/var/run/docker.sock
      - portainer_data:/data
    ports:
      - 9000:9000
    environment:
      - TZ=Europe/Athens # Set your timezone

networks:
  portainer_network:
    driver: bridge

volumes:
  portainer_data:
    driver: local
```

Step 2: Start Portainer

Once the `docker-compose.yml` file is ready, run the following command to start Portainer :

```
docker compose up -d
```

This will pull the Portainer image, create the necessary containers, and start the Portainer web UI. You can now access it by going to `http://<your-server-ip>:9000` in your web browser.

Step 3: Access Portainer

When you visit Portainer for the first time, you'll be prompted to set up an admin account. After that, you can start managing your Docker environment through the web interface.

Method D :

1. Install Docker

Step 1:

Install docker using the official script, by executing the below command.

```
curl -fsSL https://get.docker.com | sh
```

Check Update :

4. Ensure Automatic Updates for Docker and Docker Compose

Since you added Docker's official repositories, Docker Compose will be updated via the same process as Docker itself when you run :

```
apt update && apt upgrade -y
```

Summary

1. **Docker** : Installed and running using the official Docker repositories.
2. **Docker Compose** : Installed via Docker's APT repository and integrated with Docker.
3. **Portainer** : Deployed using Docker Compose, with an example `docker-compose.yml` file to start the Portainer service.

You should now have Docker, Docker Compose, and Portainer running on Debian 12, with updates managed through `apt`.

Download the files

Script universal-health-monitor.sh

Attachment link : [install_docker_portainer.sh](#)

Ins0mniA

Revision #13

Created 2025-08-16 23:37:38 EEST by Green

Updated 2025-09-10 19:42:37 EEST by Green