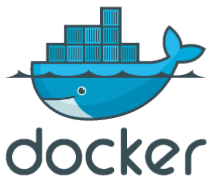


# Install Docker Engine on Debian

*This Wikipage has been integrated by aeoneros from the Original Source: [Docker.Docks](#)*



To get started with Docker Engine on Debian, make sure you [meet the prerequisites](#), and then follow the [installation steps](#).

## Prerequisites

### OS requirements

#### OS Requirements

To install Docker Engine, you need the 64-bit version of one of these Debian versions:

- Debian Bookworm 12 (stable)
- Debian Bullseye 11 (oldstable)

Docker Engine for Debian is compatible with x86\_64 (or amd64), armhf, arm64, and ppc64le (ppc64el) architectures.

### Uninstall old versions

#### Uninstall Old Versions

fore you can install Docker Engine, you need to uninstall any conflicting packages.

Distro maintainers provide unofficial distributions of Docker packages in their repositories. You must uninstall these packages before you can install the official version of Docker Engine.

The unofficial packages to uninstall are:

- `docker.io`
- `docker-compose`
- `docker-doc`
- `podman-docker`

Moreover, Docker Engine depends on `containerd` and `runc`. Docker Engine bundles these dependencies as one bundle: `containerd.io`. If you have installed the `containerd` or `runc` previously, uninstall them to avoid conflicts with the versions bundled with Docker Engine.

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.

# Installation for Linux

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

## 1. Set up Docker's `apt` repository

```
# Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/debian/gpg -o /etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:
echo \
  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]
https://download.docker.com/linux/debian \
  $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
```

If you use a derivative distro, such as Kali Linux, you may need to substitute the part of this command that's expected to print the version codename:

```
$(. /etc/os-release && echo "$VERSION_CODENAME")
```

Replace this part with the codename of the corresponding Debian release, such as `bookworm`.

## 2. Install the Docker packages

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 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.

You have now successfully installed and started Docker Engine.

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