**Docker for Linux**

**Install Docker to Linux**

There are of course millions ways to install Docker on like a million different flavors of Linux, and we are just showing you installation of Amazon Linux 2 and Ubuntu Linux.

No matter your distribution of choice, you’ll need a 64-bit installation and a kernel at 3.10 or newer. Kernels older than 3.10 do not have the necessary features Docker requires to run containers; data loss and kernel panics occur frequently under certain conditions.

**💡 Tips:**

Check your current Linux version with **uname -r**. You should see something like 3.10.[alphanumeric string].x86\_64.

### Installing Docker on Amazon Linux 2 (ec2)

1. Launch an instance with the Amazon Linux 2 AMI

2. Connect to your instance.

3. Update the installed packages and package cache on your instance.

[ec2-user@clarusway ~]$ sudo yum update -y

4.Install the most recent Docker Community Edition package.

[ec2-user@clarusway ~]$ sudo amazon-linux-extras install docker

5. Start the Docker service.

[ec2-user@clarusway ~]$ sudo service docker start

After Installation

[ec2-user@clarusway ~]$ docker version

Client: Docker Engine - Community

Version: 19.03.8

API version: 1.40

Go version: go1.12.17

Git commit: afacb8b7f0

Built: Wed Mar 11 01:25:46 2020

OS/Arch: linux/amd64

Experimental: false

Got permission denied while trying to connect to the Docker daemon socket at

    unix:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.40

    /version: dial unix /var/run/docker.sock: connect: permission denied

6. Add the ec2-user to the docker group so you can execute Docker commands without using sudo.

[ec2-user@clarusway ~]$ sudo usermod -a -G docker ec2-user

**💡 Tips:**

After adding your user name to the docker group,

* Run $ docker version
* You will see on screen Got this permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.40/version: dial unix /var/run/docker.sock: connect: permission denied
* Solution: as a non-root user run $ newgrp docker commands.

7. Verify that the ec2-user can run Docker commands without sudo.

[ec2-user@clarusway ~]$ docker info

Formun Üstü

**Installing Docker on Ubuntu**

**Installing Docker 18.09 CE on Ubuntu 18.10**

Verifying Ubuntu 18.10 release

$ cat /etc/os-release

NAME="Ubuntu"

VERSION="18.10 (Cosmic Cuttlefish)"

ID=ubuntu

ID\_LIKE=debian

PRETTY\_NAME="Ubuntu 18.10"

VERSION\_ID="18.10"

HOME\_URL="https://www.ubuntu.com/"

SUPPORT\_URL="https://help.ubuntu.com/"

BUG\_REPORT\_URL="https://bugs.launchpad.net/ubuntu/"

PRIVACY\_POLICY\_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy

    -policy"

VERSION\_CODENAME=cosmic

UBUNTU\_CODENAME=cosmic

Installing Docker 18.09 Release

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

    -common

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

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

    /ubuntu bionic test"

$ sudo apt install docker-ce

**💡 Tips:**

If you want to run docker as non-root user then you need to add it to the docker group.

* $ sudo groupadd docker #Create the docker group if it does not exist
* $ sudo usermod -aG docker $USER #Add your user to the docker group
* $ newgrp docker #Run the following command or Logout and login again and run

$ sudo docker version

Client:

Version: 18.09.0

API version: 1.39

Go version: go1.10.4

Git commit: 4d60db4

Built: Wed Mar 11 00:49:01 2020

OS/Arch: linux/amd64

Experimental: false

Server: Docker Engine - Community

Engine:

Version: 18.09.0

API version: 1.39 (minimum version 1.12)

Go version: go1.10.4

Git commit: 4d60db4

Built: Wed Mar 11 00:49:01 2020

OS/Arch: linux/amd64

Experimental: false

**Installing Docker 18.06 CE on Ubuntu 18.11**

Updating Ubuntu 18.11 Repository

$ sudo apt update

Using Snap to install Docker CE 18.06

$ sudo snap install docker

$ sudo docker version

Client:

Version: 18.06.1-ce

API version: 1.38

Go version: go1.10.4

Git commit: e68fc7a

Built: Wed Mar 11 00:49:01 2020

OS/Arch: linux/amd64

Experimental: false

Server:

Engine:

Version: 18.06.1-ce

API version: 1.38 (minimum version 1.12)

Go version: go1.10.4

Git commit: e68fc7a

Built: Wed Mar 11 00:49:01 2020

OS/Arch: linux/amd64

Experimental: false

Formun Üstü