

Docker Install !

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1. Install Docker Engine

Docker Engine is available on a variety of **Linux platforms**, **macOS** and **Windows 10** through Docker Desktop, and as a static binary installation. Find your preferred operating system below.

1.1. Supported platforms

- [Install Docker Engine on CentOS](#)
- [Install Docker Engine on Debian](#)
- [Install Docker Engine on Fedora](#)
- [Install Docker Engine on Debian](#)
- [Install Docker Engine on Ubuntu](#)
- [Install Docker Desktop on Mac](#)
- [Install Docker Desktop on Windows](#)

2. Install script

2.1. A Docker install scripta (generic)

This script is meant for quick & easy install

[Docker-install](#)

2.2. A Docker install script for Ubuntu

docker build

```
#!/bin/bash
sudo apt-get install -y \
    apt-transport-https \
    ca-certificates \
    curl \
    software-properties-common
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
sudo apt-key fingerprint 0EBFCD88
sudo add-apt-repository \
    "deb [arch=amd64] https://download.docker.com/linux/ubuntu \
    $(lsb_release -cs) \
    stable"
sudo apt-get update
sudo apt-get install -y docker-ce
sudo docker run hello-world
# Linux post-install
sudo groupadd docker
sudo usermod -aG docker $USER
sudo systemctl enable docker
```

2.3. A Docker and Docker Compose install script for Ubuntu

docker-compose script 1

```
#!/bin/sh

set -o errexit
set -o nounset

IFS=$(printf '\n\t')

# Docker
sudo apt remove --yes docker docker-engine docker.io containerd runc
sudo apt update
sudo apt --yes --no-install-recommends install apt-transport-https ca-certificates
wget --quiet --output-document=- https://download.docker.com/linux/ubuntu/gpg | sudo
apt-key add -
sudo add-apt-repository "deb [arch=$(dpkg --print-architecture)]
https://download.docker.com/linux/ubuntu $(lsb_release --codename --short) stable"
sudo apt update
sudo apt --yes --no-install-recommends install docker-ce docker-ce-cli containerd.io
sudo usermod --append --groups docker "$USER"
sudo systemctl enable docker
printf '\nDocker installed successfully\n\n'

printf 'Waiting for Docker to start...\n\n'
sleep 5

# Docker Compose
sudo wget --output-document=/usr/local/bin/docker-compose
"https://github.com/docker/compose/releases/download/$(wget --quiet --output-document=
- https://api.github.com/repos/docker/compose/releases/latest | grep --perl-regexp
--only-matching '"tag_name": "\K.*?(?=")')/run.sh"
sudo chmod +x /usr/local/bin/docker-compose
sudo wget --output-document=/etc/bash_completion.d/docker-compose
"https://raw.githubusercontent.com/docker/compose/$(docker-compose version
--short)/contrib/completion/bash/docker-compose"
printf '\nDocker Compose installed successfully\n\n'
```

docker-compose script 2

```
sudo curl -L "https://github.com/docker/compose/releases/download/1.24.1/docker-
compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
sudo chmod +x /usr/local/bin/docker-compose
sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
```

3. Get certificates

3.1. Get https://registry.vlabs.uniwa.gr:5080/v2/: x509: certificate

```
Pulling ...  
ERROR: Get https://registry.vlabs.uniwa.gr:5080/v2/: x509: certificate signed by  
unknown authority
```

- run

```
$ sudo su  
# touch set-ca.sh
```

- copy-paste lines

```
registry_address=registry.vlabs.uniwa.gr  
registry_port=5043  
mkdir -p /etc/docker/certs.d/$registry_address:$registry_port  
openssl s_client -showcerts -connect $registry_address:$registry_port < /dev/null |  
sed -ne '/-BEGIN CERTIFICATE-/,/-END CERTIFICATE-/p' >  
/etc/docker/certs.d/$registry_address:$registry_port/ca.crt  
registry_port=5080  
mkdir -p /etc/docker/certs.d/$registry_address:$registry_port  
openssl s_client -showcerts -connect $registry_address:$registry_port < /dev/null |  
sed -ne '/-BEGIN CERTIFICATE-/,/-END CERTIFICATE-/p' >  
/etc/docker/certs.d/$registry_address:$registry_port/ca.crt  
  
registry_address=hub.swarmlab.io  
registry_port=5443  
mkdir -p /etc/docker/certs.d/$registry_address:$registry_port  
openssl s_client -showcerts -connect $registry_address:$registry_port < /dev/null |  
sed -ne '/-BEGIN CERTIFICATE-/,/-END CERTIFICATE-/p' >  
/etc/docker/certs.d/$registry_address:$registry_port/ca.crt  
  
registry_port=5480  
mkdir -p /etc/docker/certs.d/$registry_address:$registry_port  
openssl s_client -showcerts -connect $registry_address:$registry_port < /dev/null |  
sed -ne '/-BEGIN CERTIFICATE-/,/-END CERTIFICATE-/p' >  
/etc/docker/certs.d/$registry_address:$registry_port/ca.crt
```

3.2. exec file

```
sudo bash ./set-ca.sh
```

3.3. Error response from daemon

```
docker: Error response from daemon: Get https://registry.vlabs.uniwa.gr:5080/v2/: dial
tcp: lookup registry.vlabs.uniwa.gr on [::1]:53: read udp [::1]:56425->[::1]:53: read:
connection refused.
```

Try again!