# Installation of Docker & Kubernetes

To install Docker Engine you need to set up the Docker repository on the Ubuntu 16.04 server.

1. update the apt package index

* sudo apt-get update

1. Install packages to allow apt to use a repository over HTTPS:

* sudo apt-get install -y \  
   apt-transport-https \  
   ca-certificates \  
   curl \  
   gnupg-agent \  
   software-properties-common

1. Add Docker’s official GPG key:

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

1. Setup the stable repository

* sudo add-apt-repository \  
   "deb [arch=amd64] https://download.docker.com/linux/ubuntu \  
   $(lsb\_release -cs) \  
   stable"

1. Install the latest version of Docker

* sudo apt-get update

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

1. Verify the installation of Docker

* sudo docker run hello-world
* This command downloads a test image and runs it in a container. When the container runs, it prints an informational message and exits.

1. Install Kubernetes (K3S) with the following one liner:

* curl -sfL https://get.k3s.io | sh -

1. Login with the created account on https://hub.docker.com/ by running the following in your command line:

sudo docker login

You are now ready to start the workshop!