

# Kubernetes Installation

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There are numerous ways to install Kubernetes, following are some of the popular ways:

- **Kubeadm** – Bare Metal Installation
- **Minikube** – Virtualized Environment for Kubernetes
- **Kops** – Kubernetes on AWS
- **Kubernetes on GCP** – Kubernetes running on Google Cloud Platform

# Kubernetes on AWS

1. Create Ubuntu Instance on AWS
2. Open Putty application

Enter IP Address(Public IPV4 Address) from Ubuntu Instance

Click on SSH – Auth – Browser ppk file and click on OK Button

Login as Ubuntu

## Steps :

### 3. Install Docker

- In simple words, Docker is an application packager, and Kubernetes is an orchestrator (**heart of your automation management**) of this package. Docker puts your application and its dependencies like the binaries and libraries inside a 'Container'. Hence, the name Docker Containers!
- On the other hand, Kubernetes, a.k.a K8s, is like a conductor that manages the deployment.
- We all know-how is a Conductor responsible for all the actions in an orchestra; K8s is nothing but a Conductor that makes sure that the application runs smoothly.

# Install K8s tools

- Kubeadm (Kubernetes Admin) is a tool that helps initialize a cluster .
- It fast-tracks setup by using community –sourced best practise
- Kubelet is the work package, which runs on every node and starts containers .This tool gives you command-line access to clusters.