Scale Application in Kubernetes

Scale Application
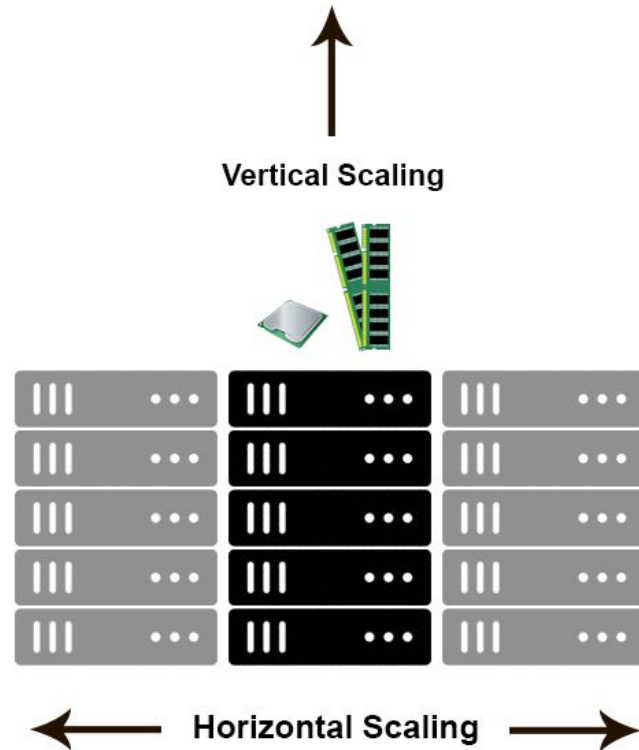
Application Scaling

➜ **What is App Scaling**

➜ **Stateless Application**

➜ **Stateful Application**

➜ **HandsOn Demonstration**

App Scaling

➢ **Application scalability** is the potential of an application to grow in time, being able to efficiently handle more and more requests per minute (RPM).

➢ In kubernetes, user can scale Pods.

➢ Pods can be scale **Vertically** or **Horizontally**.

Vertical Scaling

Horizontal Scaling

Stateless Application

➢ **Stateless** app is an application program that does not save client data generated in one session for use in the next session with that client.

➢ Stateless applications can be scaled **Horizontally**.

➢ New Pods can be created for **Stateless** Applications.

Stateful Application

➢ **Stateful** app is a program that saves client data from the activities of one session for use in the next session. The data that is saved is called the application's state.

➢ DB services are stateful services, they have filesystem that can't be split in multiple Instances.

➢ Stateful applications can be Scaled Vertically.

Scaling in Kubernetes

➤ **ReplicationController** can be used to manage the App Scaling.

➤ ReplicationController ensures that a specified number of pod replicas are running at any point of time.

➤ ReplicationController makes sure that a pod or a set of pods is always up and available.

Hands On Demonstration

Thank You...

Don't be the Same! Be Better!!!