

## Day - 1

- **Required components of Running Software Environment**

- Introduction of Hardware
- Introduction of KERNAL
- Namespaces
- Cgroups
- Capabilities
- Filesystem
- Filesystem
- Boot Filesystem
- Root Filesystem
- User Filesystem
- App Filesystem

- **What is Docker?**

- Introduction of Docker
- Introduction of Container?
- Components of Containers & How Containers works?
- History & Origin of Docker
- Types of Release in Docker
- Latest version of Docker
- Technology used in Docker development
- Official Website & Reference
- Major Use Cases of Docker
- Major Feature and Advantage of Docker
- Terminology used in Docker
- Components of Docker
- Docker Engine
- Docker Registry
- Docker Image
- Docker Container

- **Basic Workflow of Container using Docker**

- Commonly used commands in Docker
- Create a Docker Container
- Start a Docker Container
- Stop a Docker Container
- Restart a Docker Container
- Pause a Docker Container
- Unpause a Docker Container
- Remove a Docker Container
- Kill a Docker Container
- Difference between Docker Stop & Docker Start
- Difference between Docker Pause & Docker Unpause
- Difference between Docker Stop & Docker Kill

- **Differences & Comparison of Docker Container with**

- Docker Container vs Virtual Machines
- Docker Container vs Kubernetes pod
- Docker Container vs Podman Container
- Dockerd vs containerd
- Dockerd vs CRI-O
- CRI-O vs runc

- **Installing and Configuring Docker**

- Installing Docker in Centos 7
- Installing Docker in Ubuntu 20
- Installing Docker in Windows 2019
- Configuring Docker

