

Day - 1

- - Introduction of Hardware
 - Introduction of KERNAL
 - Namespaces
 - Cgroups
 - Capabilities
 - Filesystem
 - Filesystem
 - Boot Filesystem
 - Root Filesystem
 - User Filesystem
 - App Filesystem
- - 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
- - 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
- - 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 Docker in Centos 7
 - Installing Docker in Ubuntu 20
 - Installing Docker in Windows 2019
 - Configuring Docker

Day - 2

- - Importance of PID 1 of container?
 - Docker run command with example
 - Docker run command with example
 - How to use containers on a daily basis?
 - dockerd exec command with example
 - dockerd attach command with example
 - How to de-attach from container?
 - How to set the name of the container?
 - Copying a files/dir with container using Docker cp
 - Docker diff command with example & use cases
 - Rename a container using Docker rename
 - Inspect a container using Docker inspect
 - List port mappings or a specific mapping for the container
 - Update configuration of one or more containers using "Docker update"
 - Use cases & example of "Docker wait"
- - Docker Container - Fetch the logs of a container
 - Docker Container - Display a live stream of container(s) resource usage statistics
 - Docker Container - Display the running processes of a container
 - Docker Server - Get real time events from the Docker server
 - Docker Server - dockerd service process Troubleshooting
 - Docker Server - Logging of Docker Server
 - Docker Server - Configuration of a Docker server

- - Storage Overview
 - Why do I need Docker volume?
 - What are Docker volumes?
 - Types of Docker volumes?
 - Overview of Docker Volume Mount
 - Overview of Docker Bind Mounts
 - Overview of Docker tmpfs Mounts
 - Creating & Using Docker Volume Mount with Container
 - Creating & Using Docker Bind Mount with Container
 - Creating & Using Docker tmpfs Mount with Container
 - Troubleshoot Volume problems
- - Networking overview
 - Types of default Networking driver in Docker
 - Use bridge networks with Docker container
 - Use overlay networks with Docker container
 - Use host networking with Docker container
 - Use IPvlan networks with Docker container
 - Use Macvlan networks with Docker container
 - Disable networking for a container
 - Configure the daemon and containers