**About The Course:**

Docker is a really powerful tool for running and managing containers. Currently, Docker is the industry-leading container runtime platform and offers a massive number of features revolving around container management, and orchestration.

This course helps as preparation for learners who seek to pass the **Docker Certified Associate** certification exam offered by Docker. In this course, we will teach both the concepts and objectives needed to use Docker effectively in a real-time platform. This course is designed to give complete insights of Docker from root level to an expert level. This complete practical oriented Training has both Classroom & Online Workshops.

**Highlights:**

* Training by Industry Experts who are Certified Docker Associates cum Real-time Practitioners ONLY.
* Tailor-made content designed by Professionals.
* Real-world Scenarios and Examples.
* Reference Documents and Labs.
* Practice Tests

**Duration:**

*Classroom/Online:* Total 4 days of workshop that will be conducted in 2 weekends.**.**

**Content:**

* Installation and Configuration (15% of exam)
* Image Creation, Management, and Registry (20% of exam)
* Orchestration (25% of exam)
* Networking (15% of exam)
* Security (15% of exam)
* Storage and Volumes (10% of exam)
* Docker Enterprise Edition

1. **Introduction to Docker**
2. **Installation and Configuration**

* CE & EE
* Installing Docker on CentOS
* Installing Docker on Ubuntu
* Storage Driver
* Running a Container
* Upgrade the Docker Engine
* Configuring Logging Drivers

1. **Introduction to Docker Swarm**

* Swarm Working Model
* Configuring a Swarm Manager
* Configuring Swarm Nodes
* Backup and Restore

1. **Namespaces and cgroups**
2. **Container Management**

* Launching Containers
* Container Commands

1. **Image Creation, Management, and Registr**y

* Introduction to Docker Images
* Dockerfile
* Dockerfile Directives
* Building Efficient Images
* Image history
* Flattening a Docker Image
* Docker Registries
* Using Docker Registries
* Using docker inspect

1. **Orchestration**

* Locking & Unlocking a Swarm
* High Availability in a Swarm
* Introduction to Docker Services
* Docker Compose
* Introduction to Docker Stacks
* Labels and Constraints

1. **Storage and Volumes**

* Docker Storage
* Configuring DeviceMapper
* Docker Volumes
* Bind Mounts
* Image Cleanup
* Storage in a Cluster

1. **Networking**

* Docker Networking
* Built-In Network Drivers
* Creating a Docker Bridge Network
* Deploying a Service on a Docker Overlay Network

1. **Security**

* Signing Images and Docker Content Trust
* Default Docker Engine Security
* Securing the Docker Daemon

**11. Docker EE**

* Installing Docker EE
* Universal Control Plane (UCP)
* Security in UCP
* Docker Trusted Registry (DTR)
* Configuring Backups for UCP and DTR
* DTR Security
* Managing Certificates with UCP and DTR