Course Description

This Workshop is intended for any IT professional who wants to start working with Docker. At the end of this course, you will have all the main information to understand the core concepts of Docker technologies and how you can use containers in the software development process.

Understanding how containerization in particular works is a great skill nowadays in the DevOps world. You will get familiarized with Docker commands through hands-on exercises that will give you the chance to get confidence with Docker components. This workshop will present the inner workings of how to run containerized applications spanning multiple Docker hosts. We will discuss orchestration and scheduling.

This Workshop will present Docker Swarm and see it in action on an actual microservices architecture. We will give recipes to implement cleanly various ops tasks including logging, backups, monitoring, and more.

Course Duration:

4 days

Objectives:

After completing this course, students will have a firm understanding of many cores Docker Technologies and key features including the Docker Hub, Docker Compose, Docker Swarm, Docker file, Docker Containers, Docker Engine, Docker Images, Docker Network, Docker Daemon, and Docker Storage, Docker Network, Monitoring Docker, Logging Docker, Container Security, Swarm Security, Private Registries, Multi-Stage Build, Docker Content Trust, and Signing Images

What you will learn:

In the process of learning we will show you some easy ways to learn Docker that will give you at the end of the course a firm understanding of core Docker technologies and key features like:

- Building Docker Images
- Hands-On Labs for creating Docker containers, Docker file, Docker Compose
- Hands-On Labs for working with Docker Networking and persistent data
- Understands Docker Swarm components
- Initializing, extending, and putting the Docker Swarm to work
- Configuring Prometheus and Grafana for Monitoring your Swarm
- Apply proper container security image management with multi-stage build and automated builds