Docker Certified Associate Training

Trainer: Swaminathan G

**Basics**

Virtual Machine

Container Evolution

Container Runtime Engine

Installation and Configuration

Docker basics - Create, View, and Delete Containers

Architecture

**Image management & Container Registry**

Image basics & commands

Containers

Service

Dockerfile & Instructions

Image layers

Flattening an Images

Tagging an Image

Image Registry & Repository

Inspect, Remove and Prune images

**Networking**

Basics

Architecture

Network Types: Bridge, Host, Overlay, MacVLAN, None

Prune Network

Container Networking models

Network Drivers

Ports: Identifying and Publishing

Traffic: Egress and Ingress

**Orchestration**

Service & Types

Tasks

Docker Swarm

Nodes: Manager & Worker

Node management: Draining

Docker Inspect

Docker compose: Create, Update and Delete

Scaling

Volumes: Creating, Binding, Pruning

Templates

Logs: Troubleshooting & Debugging

Node backup and restore

**Docker Enterprise**

**Security**

**Kubernetes**

Cluster Setup

Basic commands

Workloads - Pods, Deployments

Networking - Services

Storage

**Certification & Misc**

Docker Associate certification FAQs

Planning for certification

CICD - Multiple Microservices in Kubernetes

Project: ECommerce application with 12 Microservices

Simplilearn Docker Certification

**Course Plan**

Day 1 - Basics, Docker images

Day 2 - Image management & Registry

Day 3 - Networking, Orchestration

Day 4 - Orchestration

Day 5 - Docker EE and Security

Day 6 - Kubernetes & Certification Prep