Docker for Enterprise Developers

Overview

The Docker platform provides an integrated suite of capabilities for an infrastructure agnostic CaaS model. With this solution, IT operations teams are able to secure, provision and manage both infrastructure resources and base app content while developers are able to build and deploy their apps in a self- service manner.

What You Will Learn

You will learn how Docker achieves agility, portability, and control for developers and IT operations team across all stages of the app lifecycle. From these core tenets, Containers as a Service (CaaS) emerges as the construct by which these new apps are built better and faster.

Prerequiste

Students should attend ONLC's Docker Fundamentals class or have equivalent skills.

COURSE OUTLINE

Getting Started

Installation
Production Cycle
What is Docker EE Architecture?
How to install Docker EE on Windows Server 2016?
Test the installation
Procedure to install UCP and DTR
Swarm and add nodes

Install UCP

Install UCP
Upload the license
Verify the CA

Swarm

Swarm components
Clustering front
Orchestration front
What is the best number of managers?
Best practices

Install DTR

Verify logging from CLI from both nodes
Verify DTR installation from UCP Web UI

Services

Replicated vs global services
Scaling a service
Service port publishing

Port publishing modes

Deploy an app from the UI
Deploy Single Service
Deploy multi Service

Run a python example
Add nodes
Containerizing an app
Process of containerizing an app
Some differences in networking between Windows and Linux
To resolve this localhost issue
Deploy the app on the swarm manager
Accessing your cluster
Recap

Java Example 1
Java Base images

Stack
How to write YAML file?
Top-level keys
Version
Networks
Services
Secrets
Deploy it
Install Docker-compose

Java Example 2

.Net Examples
Containerizing an app
Open the app in Visual Studio and run it from there
Extra resources for .net tools

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