

ZURIEN

Zurien Powered by AI Labs

Level 10-1 One Global Place, 25<sup>th</sup> St.  
cor 15<sup>th</sup> Ave, Bonifacio Global City  
Taguig City 1632 Philippines

# Container + SDN OverDrive

Duration: 2 Days

## Course Purpose

Container + Software Defined Networking (SDN) OverDrive is an instructor-led workshop that provides an overview and deep understand of container-base virtualization technology. The goal of this workshop is to provide Data Center professional with a foundational level of experience with the operational practices and the various tools to operate containers using Docker in SDN Environment.

## Objectives

Upon completion of this course, the student should be able to perform the following:

- Provide Network Administrator/Engineers a solid network foundation in relation Virtualization and Containerization environment.
- Solid foundation of Linux Containerization with the use of Docker technology.
- Data Center Switch automation, programmability and virtualization features.

## Audience Details

The primary audience for this course is as follows:

- Network administrators want to perform Docker implementation and operation.

## Audience Prerequisites

Prior to attending this course, the student should have the following knowledge and qualifications at a minimum:

- Working knowledge of Linux/Unix.

## Course Outline

The following constitutes the proposed course outline.

### Module 1: Introduction to Docker

- Virtualization vs Containerization
- Docker, Inc
- Installing Docker
- Docker CLI

### Module 2: Starting Docker

- Docker Command Basics
- Running a Container
- Creating Nginx Web Server

### Module 3: Working with Docker

- Managing Multiple Containers
- Monitoring Containers
- Container Shell Access

### Module 4: Docker Networking

- Docker Design Concepts
- Virtual Networking
- Docker DNS
- Connecting Web-DB Servers

### Module 5: Container Images

- Image Overview
- Building Images
- Run Images in containers

### Module 1: Introduction to Network Cloud Model

- Technologies under Physical and Data Link Layer
- Switch CLI Refresher
- Zero Touch Provisioning

### Module 2: VXLAN Overview

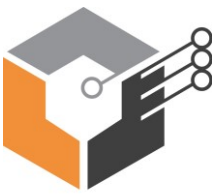
- F5 Products
- Introduction to iRules, iApps, iControl
- Fully Proxy and Pack Forwarding architecture
- Connecting to Docker

### Module 3: VM Tracer vs Container Tracer

- Load Balancing Methods
- Client and Server Models

### Module 4: Introduction to SDN

- SDN Overview
- Container in SDN



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**Lab 1: Lab Access and Test Editor**

**Lab 2: Creating Containers**

**Lab 3: Managing Multiple Containers**

**Lab 4: Docker Networking**

**Lab 5: Container Images**

**Lab 6: Zero Touch Provisioning**

**Lab 7: Switch and Container VXLAN**

**Lab 8: Virtual Machine and Container Tracer**

**Lab 9: Container in SDN**

## **Proposed Delivery Methods**

This course will be presented as Instructor Led Training with Hands-on Lab.