

ONF Certified SDN Associate (OCSA)

Duration 1 Day



COURSE DESCRIPTION

This is a 1-day class that covers the basics of Software Defined Networking (SDN). It is ideal for a beginner audience that wants to obtain an overview of the concepts, definitions and open source initiatives in the SDN arena. It has 75% lecture and 25% lab and is aimed at preparing participants for the Open Networking Foundation (ONF) SDN Associate exam.

LEARNING OBJECTIVES

- Identify SDN concepts and architecture as put forth by the Open Networking Foundation
- Understand the workings of OpenFlow
- Gain insight into SDN use-cases and migration strategies
- Understand the ONF as an organization and identify open source initiatives
- Gain valuable hands-on experience with a Mininet network and the Floodlight Controller

BENEFITS OF TAKING THIS COURSE

This course provides learners with an overview of basic SDN concepts and valuable hands-on experience with a Mininet network and the Floodlight Controller. This course is a good starting point for networking professionals and enthusiasts who are seeking an introduction to Software Defined Networking.

AUDIENCE

This course is aimed at beginners who want to grasp basic SDN concepts.

PREREQUISITES

Attendees should have a basic understanding of networking and be able to identify the shortcomings of legacy networking infrastructure.

FOLLOW-ON COURSES

- SDN for Network Engineers
- SDN Foundations

EXAMINATION

Exam Available in Languages: English, Simplified Chinese

- Exam Format: Closed-book format. Web-Based
- Questions: 40 multiple choice questions
- Passing Score: 70%
- Exam Duration: 60 minutes, 15 minutes extra time for non-native English speakers

**COURSE OUTLINE****Module 1: Introduction**

- Company introduction
- Student introductions
- Logistics
- ONF Certification Overview

Module 2: Definitions and Standards

- Problems in Networking (that SDN can help solve)
- Making the case for SDN
- SDN Flavors

Module 3: OpenFlow

- What is OpenFlow
- How does OpenFlow work of-config
- SDN Related Technologies
- SDN Standards Organizations

Module 4: Use Cases

- Data center/Enterprise
- WAN
- Transport Networks

Module 5: Migration Strategies

- Framework
- Migration Approaches
- Devices and Deployments
- Planning

Module 6: Security, the ONF and Controller placement

- Security and Availability
- Overview of the ONF organization
- Controller Placement

Module 7: SDN Open Source

- Overview
- Open source controllers
- Other open source initiatives

Lab: OpenFlow

- Using the Floodlight controller and Mininet
- Using a Java based application to monitor the network
- Using Wireshark to analyze OpenFlow messages