

Essentials for OpenStack (OSE)

COURSE OVERVIEW:

As architects and engineers, you're responsible for evaluating OpenStack from an architectural perspective. We'll get you on the road with a concise, focused exploration of OpenStack architecture with our Essentials module. You'll learn what makes OpenStack unique as a cloud architecture, how it's different than traditional virtualization, and where it's best applied in customer environments. We'll open up the hood and show you how it ticks, talk about some key challenges and decisions, and get you behind the wheel to take OpenStack for a drive.

WHO WILL BENEFIT FROM THIS COURSE?

This course is designed for Cloud Architects, Data Center Architects, Solution Architects, Systems Engineers, and Pre-Sales Engineers who need to evaluate and recommend OpenStack solutions for their IT organization or for their customers.

PREREQUISITES:

There are no prerequisites for this course.

COURSE OBJECTIVES:

Upon completing this course, you will be able to understand the difference between traditional virtualization and evaluating OpenStack from an architectural perspective and what applications it's beneficial for.

COURSE OUTLINE:

Module 1: Cutting Through the Hype

- What is OpenStack?
- A Brief History
- How It's Different than Traditional Virtualization
- Why Cloud-Based Applications Are Driving Adoption
- Roll Your Own or Run for Cover?

Module 2: Putting It to Work: Designing Cloud Services with OpenStack

- Private Clouds
- Public Clouds
- Hybrid Clouds
- IaaS, PaaS, SaaS, DRaaS

Module 3: What's Under the Hood: OpenStack Services Overview

- Compute Services
- Hypervisor and Container Support
- Storage Services
- Networking Services
- Management Services
- Application Services

Module 4: Managing OpenStack: Dashboards to DevOps

- Monitoring
- Metering
- Identity Management
- Orchestration and Automation
- APIs, Programmability, and DevOps

Module 5: Wading In: Deployment and Operation

- Criteria for Choosing
- Deployment Tools PuppetLabs
- Chef
- The Foreman
- Triple-O
- Vendor Deployment Tools DevStack

Hands-On Lab: Provision an All-in-One OpenStack Node with DevStack

- Installing DevStack
- Join a Compute Node
- Create a Tenant
- Create a Tenant Network
- Deploy a Micro-Instance
- Create a Security Group and Rules
- Monitoring the Deployment
- Creating an Orchestration Workflow

SUNSET LEARNING INSTITUTE (SLI) DIFFERENTIATORS:

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their cloud technology investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience.
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.



Convenient and Reliable Training Experience

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- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

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- Dedicated account manager to suggest the optimal learning path for you and your team
- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience