

## Network Architecture for OpenStack (OSNA)

### **COURSE OVERVIEW:**

OpenStack networking has matured rapidly in the past year with the advent of Neutron, which is still one of the most poorly understood OpenStack components. In this half-day, hands-on module, we'll take Neutron apart and help you answer some key architectural questions - starting with, why do I actually need it? We'll look at the capabilities of Neutron, its current limitations, and how third-party vendors are leveraging the Neutron framework to provide advanced, next-gen networking services.

### **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:**

Essentials for OpenStack

### **COURSE OBJECTIVES:**

Upon completing this short course, you will be able to understand and answer key architectural questions about Neutron, its limitations and capabilities as well as knowing how to provide advanced networking services through using the Neutron framework.

### **COURSE OUTLINE:**

#### **Module 1: Nova Networking**

- Architecture
- Limitations

#### **Module 2: Neutron Networking Services**

- Functionality
- APIs
- Multi-Tenancy
- Modular Design
- Neutron Pluggable Architecture
- Limitations

#### **Module 3: Deployment Architecture**

- Service Layout
- Native Network Types
- External and Internal Networks
- Multi-Tenant Networks

#### **Hands-On Labs:**

- Configure Multi-Tenant Networks
- Configure External Connectivity
- Configuring Security Policies

**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**

- You have the option to attend classes at any of our established training facilities or from the convenience of your home or office with the use of our HD-ILT network (High Definition Instructor Led Training)
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

**Outstanding Customer Service**

- 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