

## Oracle SBC Configuration and Administration

This Oracle Session Border Controller (SBC) Configuration and Administration training course teaches technical network professionals how to successfully configure the SBC in both service provider and enterprise environments. The course covers the fundamentals of Session Initiation Protocol (SIP), SBC concepts, configuration for peering (SIP trunking) and access-backbone deployments, routine operations and more.

### Learn To

This Oracle Session Border Controller (SBC) Configuration and Administration training course is designed for enterprise or service provider network professionals involved in SIP session delivery and control. Although the course describes all currently available hardware platforms, all the concepts and operations are presented in a platform independent way. In a similar manner, the course is software-release independent as well.

Through in-depth discussions and hands-on exercises the course covers the Session Initiation Protocol, the benefits gained and the issues resolved by using Session Border Controllers, SBC principles, configuration concepts, configuration workflow, peering and access deployments, routine operations and more.

### Learn To:

- Plan SBC integration with customer's network.
- Plan and create common configurations.
- Perform routine operations (system access, configuration, management, backup/restore).
- Test basic functionality.

### Benefits to You

Enrolling in this course will help you develop a deeper understanding of the fundamentals of Session Initiation Protocol (SIP) as well as system and protocol-specific configuration of the SBC. The contents addressed apply equally to both service provider and enterprise deployments. You'll walk away with more knowledge of SBC architecture, concepts and administration in the form of configuration management (backups, restores and revision control) by participating in hands-on labs.

## Audience

- Administrator
- Implementer
- Manager
- Network Administrator
- System Integrator

## Course Objectives

- Plan and create common configurations
- Test basic functionality
- Perform routine operations (system access, configuration, management, backup/restore)
- Discuss the Session Border Controller's need, features, benefits, architecture, operation, deployment models (Peering & Access-Backbone), configuration and other operations

## Course Topics

### Hardware Platforms

- Oracle Acme Packet Platforms Overview
- Oracle Acme Packet Platforms - Service Provider Market
- Oracle Acme Packet Platforms - Enterprise Market
- Design Concepts Common To All Platforms

### Session Initiation Protocol (SIP) Essentials

- General SIP Information
- Elements of SIP
- Basic Call Flow
- Using SIP Proxies
- More about calls, messages, header fields and proxies
- Stateless and Stateful Proxies
- Back-to-Back User Agents (B2BUA)

### Introduction to Session Border Controllers

- Session Border Controllers
- Software and Services

### Initial Configuration

- SBC Access and CLI Navigation

- Configuration Elements
- Configuration Workflow
- Configuration Backup/Restore
- Common Operations
- The Initial Configuration

## Provisioning interfaces

- Physical and Network Interfaces
- Physical Interfaces Provisioning
- Network Interface Provisioning
- Additional Points

## Session Border Controller Concepts

- Realms and Realm Bridging
- SIP Interfaces
- SBC Media Services
- Routing and Translation
- Session Agents
- Header Manipulation Rules (HMRs)

## Peering Environment Configuration

- Peering PBRB Model
- Peering PBRB with HMR
- SIP Peering Access Control

## Access-Backbone Environment Configuration

- Access-Backbone in General
- Registration Caching
- SIP Hosted NAT Traversal
- Media Latching
- Access PBRB Model
- Access Control in Access-Backbone Deployments

## Transcoding Configuration

- Transcoding in General
- Configuring Transcoding Policies

## Configuring SBC High Availability

- High-Availability Overview
- Cluster operation concepts
- Configuring the Primary Node
- Preparing the Secondary Node
- High-Availability Cluster Operations