

Updated on August 10, 2026

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Oracle SBC Training

2 days (14 hours)

Overview

Oracle SBC is a session border controller solution designed to secure, interconnect, and ensure the reliability of real-time communications. With SIP routing, topology hiding, call flow protection, and high-availability mechanisms, Oracle SBC enables you to build robust, production-ready voice architectures.

Our Oracle SBC training will help you go beyond the basics to master the key topics encountered when deploying and administering an SBC infrastructure.

You will learn to understand the role of the SBC in the communications architecture, configure essential settings, and manage routing, policies, session agents, and associated control mechanisms.

Upon completion of the training, you will be able to secure SIP exchanges, enhance interoperability, optimize quality of service, and ensure more reliable operation in a production environment.

This training also covers monitoring, best practices for administration, resilience strategies, and key considerations for operating Oracle SBC in a professional setting.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the role of an SBC in a unified communications architecture.
- Configure the main basic objects, including realms, session agents, and local policies.

- Implement consistent SIP routing and master decision-making logic.
- Enhance the security of traffic flows using protection and anonymization mechanisms.
- Utilize high-availability and service continuity features.
- Diagnose common incidents and apply a structured troubleshooting method.

Target Audience

- Telecom Engineer
- Network administrator
- VoIP architect
- Level 2 Support Engineer
- Infrastructure Consultant

Prerequisites

- Basic knowledge of SIP and VoIP protocols.
- Understanding of networking concepts, addressing, DNS, TCP, and UDP.
- Initial experience administering an IP telephony infrastructure.
- Familiarity with routing and network segmentation concepts.
- Experience working in a technical operations or telecom support environment.

Technical Prerequisites

- A recent computer with an up-to-date browser and sufficient resources for hands-on exercises.
- A stable Wi-Fi or Ethernet network connection for remote demonstrations and hands-on exercises
- Access to an administration workstation or a monitoring console if the training environment requires it.
- A microphone and headset for participating in remote sessions.
- Depending on the context, access to the setup tools provided by the organizer and any configuration files.

Oracle SBC Training Program

[Day 1 - Morning]

SBC Fundamentals and Architecture

- The role of a Session Border Controller in a voice and unified communications architecture.
- Positioning the SBC between trust domains, carrier networks, and SIP interconnections.
- Principles of security, interoperability, and session control.
- Overview of basic concepts: realms, session agents, and local policy.
- Review of a typical architecture and identification of incoming and outgoing traffic.

- Hands-on workshop: mapping a simple SBC architecture and identifying trust zones, gateways, and associated configuration objects.

[Day 1 - Afternoon] Initial

Configuration and Routing

- Getting started with administration, locating menus, and understanding configuration logic.
- Creating and configuring realms to structure network domains.
- Defining session agents and their relationships with agent groups.
- Implementing SIP routing rules and understanding next-hop selection.
- Recommended configuration order to ensure consistent deployment.
- Hands-on workshop: Configuring an end-to-end routing path with realms, session agents, and local policy.

[Day 2 - Morning]

Security and Interoperability

- Topology hiding mechanisms and the role of the B2BUA in protecting internal information.
- Principles of SIP manipulation to adapt messages to business constraints.
- Concepts of protocol validation, access control, and risk mitigation.
- Managing interoperability discrepancies between equipment, operators, and SIP trunks.
- Best practices for maintaining message readability while enhancing security.
- Hands-on workshop: Applying SIP manipulation rules to mask sensitive information and correct an interoperable exchange.

[Day 2 - Afternoon]

Operation, Availability, and Diagnostics

- Principles of high availability and service continuity in an SBC architecture.
- Managing failover, redundancy, and disaster recovery scenarios.
- Monitoring sessions, routing policies, and operational events.
- Troubleshooting methodology for signaling and connectivity incidents.
- Best practices for administration to ensure reliable day-to-day operations.
- Hands-on workshop: Analyze a simulated incident, identify the root cause, and propose an operational corrective action plan.

Target Companies

This training is designed for both individuals and companies—large and small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methods.

Entry-Level Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth operation of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.