Learning Services

Cisco Training on Demand

ASR 5500 EPC Product Suite Administration and Configuration Version 14.0

Overview

The ASR 5500 EPC Product Suite System Administration and Configuration Version 14.0 Cisco® Training on Demand course provides detailed instruction on how to manage, monitor, configure, and administer the ASR 5500 to function as a GPRS Gateway Serving Node (GGSN), Serving Gateway (S-GW) and PDN Gateway (P-GW) in an Evolved Packet Core (EPC) network environment.

You will explore the intricacies of the important components of an EPC network and gain an understanding of the hardware and software architecture of the ASR 5500. After you complete the configuration lab exercises, you will then be introduced to basic debugging commands that are used for simulated call failure scenarios.

This Cisco Training on Demand course is a blend of video, course materials and hands-on lab exercises.

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration

The ASR 5500 EPC Product Suite System Administration and Configuration Training on Demand course consists of 1 module with 15 lessons, totaling more than 6 hours of video instruction along with 4 hands-on lab exercises.
Target Audience

This course is designed for participants from any of the following disciplines who are responsible for the planning, configuration, and management of the ASR 5500:

- Network Engineering
- Network Consulting
- Customer Support
- Field Engineering

Objectives

After completing this course, you should be able to:

- Review and understand the hardware and software architecture of the ASR 5500 chassis
- Use the StarOS command line interface (CLI) for chassis management, monitoring, and configuration
- Perform initial system configuration, to include creating administrative users, hardware redundancy, and remote management functions
- Perform basic service configuration for a GGSN, S-GW, and P-GW
- Monitor the system for subscriber sessions
- Implement management functions such as threshold crossing alarms and hardware/software monitoring
- Perform basic debugging of attachment failure

Course Prerequisites

Before taking this course, you should have working knowledge and skills about the following:

- IP routing and networking protocols
- Applicable 3rd Generation Partnership Project (3GPP) network operation

Course Outline

- Lesson 1: LTE Overview
- Lesson 2: Cisco ASR 5500 Hardware Architecture Part 1
- Lesson 3: Cisco ASR 5500 Hardware Architecture Part 2
- Lesson 4: Cisco ASR 5500 Software Architecture Part 1
- Lesson 5: Cisco ASR 5500 Software Architecture Part 2
- Lesson 6: Initial System Configuration
- Lesson 7: StarOS CLI Global Configuration Settings
- Lesson 8: Cisco ASR 5500 Configuration Terminology
- Lesson 9: SGW Function, Operation Configuration
- Lesson 10: PGW Function, Operation Configuration
- Lesson 11: Traffic Policing
- Lesson 12: ASR 5500 Hardware Troubleshooting
• Lesson 13: ASR 5500 Software Troubleshooting
• Lesson 14: ASR 5500 Logging
• Lesson 15: Threshold Crossing Alarms

Labs Outline
This course contains four hands-on virtual lab exercises. The topology for all labs is shown in Figure 1.

Figure 1. Topology for All Labs in ASR 5500 EPC Product Suite System Administration and Configuration Course

The labs included in this course are:
• Lab 1: Exploring the CLI
• Lab 2: Creating Contexts and Configuring IP Interfaces and Ports
• Lab 3: Creating the S-GW Service
• Lab 4: Creating the P-GW & PCEF Service

Instructor: Sim Soulard
Jim Soulard has more than 25 years of industry experience. He’s been helping Cisco customers for more than 15 years as both a professional troubleshooter having spent 5 years as a TAC Engineer and then as a Project Manager managing new product delivery and updated releases. Jim has spent the last 5 years as a Technical Trainer delivering UMTS and LTE ILT training around the world. Jim Lives in Massachusetts where he continues to develop course content and deliver complex course delivery to talented professionals looking to transform their careers.

Supported Configurations
Cisco Training on Demand videos are supported on PCs, Macs, and tablets using one of the following browsers, or later: Mozilla Firefox 30, Google Chrome 35, and Apple Safari 6. The labs are supported on PCs and Macs, but not on tablets.
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