

Cisco IOS XR Broadband Network Gateway Implementation and Verification (IOSXR304)

Description

The **Cisco IOS XR Broadband Network Gateway Implementation and Verification (IOSXR304)** training teaches you how to successfully deploy, configure, operate, maintain, and support a Cisco IOS® XR Broadband Network Gateway (BNG) solution. This training will show you how to implement and verify BNG on a Cisco IOS XR device to manage subscriber access. You will also learn how to implement and verify subscriber management functions, including authentication, authorization, and accounting of subscriber sessions, address assignment, security, policy management, and Quality of Service (QoS).

This training also earns you 32 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training will help you:

- Describe the architecture and function of the Cisco IOS XR Broadband Network Gateway
- Configure and verify Authentication, Authorization, and Accounting (AAA) in a Broadband Network Gateway deployment
- Define policies to control subscriber traffic
- Establish and verify subscriber sessions
- Prioritize subscriber traffic using QoS
- Implement subscriber features
- Deploy redundancy for subscriber sessions
- Gain knowledge for protocols, solutions, and designs to acquire professional-level and expert-level networking roles
- Earn 32 CE credits toward recertification

Who should enroll

- System Installers

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- System Integrators
 - System Administrators
 - Network Administrators
 - Solution Designers

Technology areas

- Networking

Objectives

- Describe the architecture and function of the Cisco IOS XR Broadband Network Gateway
- Configure and verify AAA in a Broadband Network Gateway deployment
- Define policies to control subscriber traffic
- Establish and verify subscriber sessions
- Prioritize subscriber traffic using QoS
- Implement subscriber features
- Deploy redundancy for subscriber sessions

Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Experience working with Cisco IOS XR Software-based platforms
- Basic understanding of routing protocols and Multiprotocol Label Switching (MPLS)
- Basic understanding of AAA functions

Outline

- Broadband Network Gateway Overview
- Configuring and Verifying Authentication, Authorization, and Accounting
- Activating Control Policy
- Establishing Subscriber Sessions
- Deploying Quality of Service
- Configuring Subscriber Features
- BNG Geo Redundancy and XML Support

Lab Outline

- Configuring and Verifying Authentication, Authorization, and Accounting
- Activating Control Policy
- Establishing Subscriber Sessions
- Configuring QoS
- Configuring Subscriber Features
- Configuring BNG Geo Redundancy

Links

- [Cisco U. Learning Path](#)
- [Cisco Learning Network Store](#)
- [Cisco Learning Locator](#)