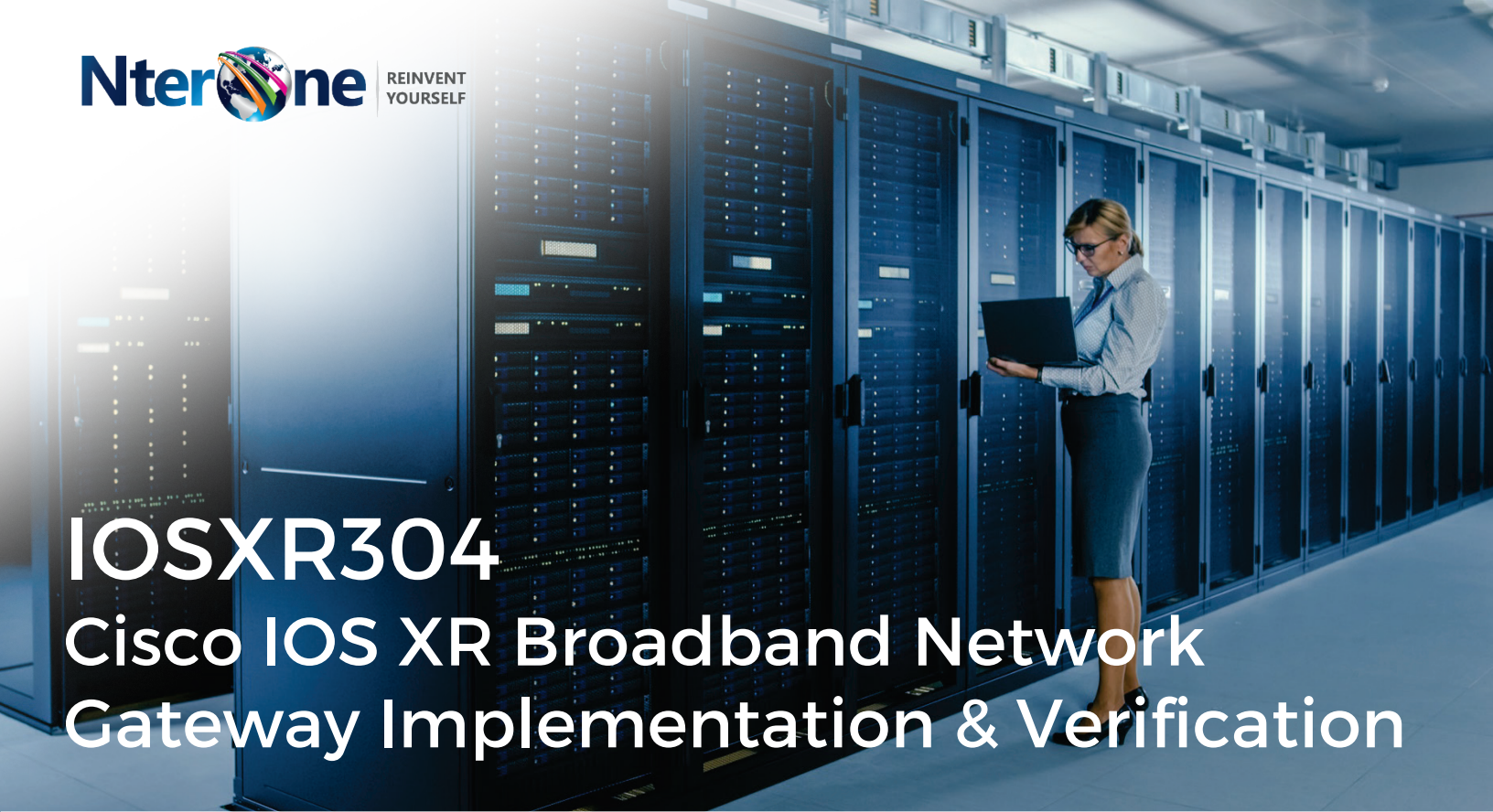




IOSXR304

Cisco IOS XR Broadband Network Gateway Implementation & Verification

Duration: 4 Days

Course Overview:

The Cisco IOS XR Broadband Network Gateway Implementation and Verification (IOSXR304) course teaches you how to successfully deploy, configure, operate, maintain, and support a Cisco IOS® XR Broadband Network Gateway (BNG) solution. This course 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).

Prerequisites:

The knowledge and skills that the learner should have before attending this course are as follows:

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

Who Should Attend:

The primary audience for this course is as follows:

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



Course Objectives:

Upon completing this course, the learner will be able to meet these overall objectives:

- 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



Course Outline:

- Module 1: Broadband Network Gateway Overview
- Module 2: Configuring and Verifying Authentication, Authorization, and Accounting
- Module 3: Activating Control Policy
- Module 4: Establishing Subscriber Sessions
- Module 5: Deploying Quality of Service
- Module 6: Configuring Subscriber Features
- Module 7: BNG Geo Redundancy and XML Support