IOSXR304 (CISCO IOS XR BROADBAND NETWORK GATEWAY IMPLEMENTATION AND VERIFICATION) 1.0

Objetivo

After taking this course, you should be able to: 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

Público Alvo

System installers System integrators System administrators Network administrators Solution designers

Pré-Requisitos

Before taking this course, you should have the following knowledge and skills: Experience working with Cisco IOS XR Software-based platforms Basic understanding of routing protocols and Multiprotocol Label Switching (MPLS) Basic understanding of AAA functions

Carga Horária

32 horas (4 dias).

Conteúdo Programático

Outline
Broadband Network Gateway Overview
 BNG Architecture
 BNG Software and Hardware Requirements
Configuring and Verifying Authentication, Authorization, and Accounting
 AAA Overview and Operation
 RADIUS Operation and Configuration
 DIAMETER Operation and Configuration
Activating Control Policy
 Control Policy Overview
 Creating and Activating Class Maps and Policy Maps
 Defining Dynamic Templates
Establishing Subscriber Sessions
 Subscriber Session Overview
 Establishing IPoE and PPPoE Sessions

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DHCP Operation
 Subscriber Interface Neighbor Discovery
 Static Session and Session Limits
 BGP Subscriber Support
Deploying Quality of Service
 Quality of Service Overview and QoS Feature Support
 RADIUS Based Policing
 Share Policy Instances and Merged Policy-Maps
Configuring Subscriber Features
 Managing Control Plane Traffic
 Controlling Packet Forwarding
 Providing Multicast Services
 Routing and Traffic Mirroring on Subscriber Sessions
BNG Geo Redundancy and XML Support
 Geo Redundancy Overview and Deployment Models
 Configuring and Verifying Geo Redundancy
 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