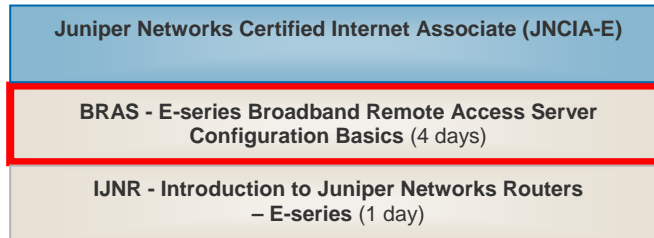




JUNIPER E-SERIES ROUTER



Broadband Remote Access Server Configuration Basics (BRAS)

Course Overview

This four-day course is designed to provide technical network professionals with the skills needed to successfully install, configure, and troubleshoot the E-series platform to act as a broadband remote access server (B-RAS). The course covers the fundamentals of B-RAS, ATM, IP over ATM, bridged Ethernet, PPP over ATM, PPP over Ethernet, VLANs, dynamic interfaces, L2TP, policy management as well as E-series router systems administration. The course will consist of over 50% hands-on exercises

After attending this class, you will be able to:

- Configure IP-over-ATM interfaces;
- Configure bridged Ethernet interfaces;
- Configure PPP-over-ATM interfaces;
- Configure PPP-over-Ethernet interfaces;
- Configure dynamic interfaces;
- Configure LT2P;
- Troubleshoot connectivity issues;
- Configure fundamental policy management; and
- Describe E-series router system administration tasks

Prerequisites

The prerequisites for the E-series B-RAS Configuration Basics course are knowledge of IP in an ISP environment and the Introduction to Juniper Networks Routers – E-series course

Day One

Chapter 1: Course Introduction

Chapter 2: xDSL Overview and IP over ATM:

- B-RAS and DSL Overview
- IP-over-ATM Operation and Configuration
- Troubleshooting IP over ATM
- Lab 1: Configuring IP over ATM

- In this lab, you will configure and troubleshoot an IP-over-ATM interface and static IP routes.

Chapter 3: Bridged Ethernet and DHCP:

- Overview of Bridged Ethernet
- Bridged Ethernet and DHCP Configuration and Troubleshooting
- Lab 2: Configuring Bridged Ethernet
In this lab, you will configure a bridged Ethernet interface and virtual routers.

Day Two

Chapter 4: PPP over ATM:

- Overview of PPP over ATM
- Life of a Packet: PPP over ATM
- Configuring PPP over ATM
- Troubleshooting PPP-over-ATM Interfaces
- Lab 3: Configuring PPP over ATM
In this lab, you will configure the E-series router as a B-RAS supporting PPP-over-ATM clients.

Chapter 5: PPP over Ethernet:

- Overview of PPP over Ethernet
- PPP over Ethernet in Ethernet Access Networks
- PPP-over-Ethernet Configuration and Troubleshooting
- Lab 4: Configuring PPP over Ethernet
In this lab you will configure the E-series router as a B-RAS supporting PPP-over-Ethernet clients



Day Three

Chapter 6: Dynamic Interfaces:

- Dynamic PPP-over-ATM and PPP-over-Ethernet Interfaces
- Dynamic IP-over-ATM and Bridged Ethernet Interfaces
- Dynamic Interface Creation using Bulk Configuration
- Dynamic Subscriber Interfaces
- Lab 5: Configuring Dynamic Interfaces
In this lab you will configure the E-series router as a B-RAS supporting various types of dynamic interfaces.

Chapter 7: L2TP:

- L2TP Overview
- L2TP Operation
- E-series Router L2TP Configuration
- L2TP Tunnel Failover and Tunnel Selection
- E-series Router Requirements
- Troubleshooting L2TP
- Lab 6: Configuring L2TP
In this lab you configure and troubleshoot the E-series router as both an L2TP access concentrator and as an L2TP network server.

Day Four

Chapter 8: Policy Management Overview

- Policy Management Overview
- Configuring Classifier Lists and Policy Lists
- Rate-Limiting Overview
- Configuring Rate-Limit Profiles
- Configuring Policy Lists with Multiple Rules
- Troubleshooting Policy Manager
- Lab 7: Configuring Policy
In this lab you configure classifier lists, rate-limit profiles, and policy lists. You will attach these policies to static and dynamic IP interfaces and verify their operation.

Chapter 9: System Administration:

- Upgrading and Downgrading Software
- Backup Boot Configuration and Slot Configuration
- Rebuilding Flash Cards and Password Recovery
- Accessing the CLI
- Other System Administration Task

Cost AUD \$3,199 inc. GST

For Available Dates & Terms and Conditions see:
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