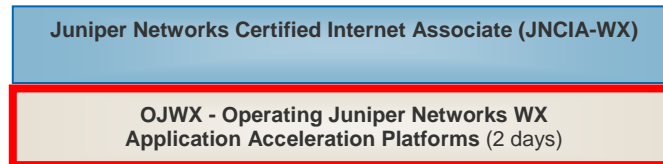




JUNIPER ACCELERATION



Operating Juniper Networks WX Application Acceleration Platforms (OJWX)

Course Overview

This two-day course focuses on installation, configuration, troubleshooting, and operational analysis of the WAN Acceleration (WX) and WAN Acceleration Cache (WXC) platforms. Starting with an overview of WX platform concepts it moves on to initial installation using Quick Setup. Students will use the WebView graphical user interface (GUI) to configure and manage the main features of the WX platform: compression, Packet Flow Acceleration (TCP application acceleration), Application Flow Acceleration (which speeds up CIFS, Microsoft Exchange, and HTTP traffic), and implementation of quality-of-service (QoS) policies. In the labs, students configure and test all these features. The WX Framework's exceptional monitoring and reporting capabilities are featured throughout, and the course ends with an introduction to the WX Central Management System (WX CMS) software.

Objectives

After successfully completing this course, you should be able to:

- Describe the elements of the WX Framework and the various WX and WXC platforms.
- Explain WX concepts such as communities, topologies, registration servers, and service tunnels.
- Perform initial configuration of the WX platform.
- Identify the various ways a WX platform can obtain routing information.
- Configure and troubleshoot compression and caching.
- Describe and configure the components of outbound QoS.
- Describe, configure, and troubleshoot Packet Flow Acceleration.
- Describe, configure, and troubleshoot Application Flow Acceleration.
- Describe and demonstrate the WX platform's monitoring capabilities.
- Upgrade WXOS software and maintain configuration files.
- View and save the system and access control logs.
- Export data and generate support files.
- Explain the capabilities of the WX CMS software.

Prerequisites

The prerequisites for this course include a basic understanding of:

- Routers and the TCP/IP protocols
- Switches, including VLANs
- WAN concepts & protocols

Course Level

Introductory

Target Audience

This course is intended for network engineers, support personnel, reseller support personnel, and anyone responsible for implementing the WX and WXC product features covered in this course.

Chapter 1: Course Introduction

Chapter 2: WX Platform Overview

- The WX Framework
- Product Overview
- WX Platform Deployment

Chapter 3: WX Platform Installation Considerations and Tasks

- Location Options for WX Deployment
- Cabling Considerations
- Port Speed and Duplex Mode
- Opening Network Ports
- License Keys
- LED Indicators
- Configuring an Initial IP Address
- Quick Setup WebUI Process
- Lab 1: Basic Installation

Chapter 4: WX Platform Concepts

- Communities
- WX Topologies
- Registration Server
- Meta-Packets
- WX Service Tunnels
- WX Platforms and Routing
- WX Platforms and High Availability
- Lab 2: Completing the Initial Configuration



Chapter 5: Compression

- Compression Concepts
- Molecular Sequence Reduction Compression
- Network Sequence Caching
- Configuring Compression and Caching
- Filters
- Troubleshooting
- Lab 3: Compression

Chapter 6: Quality of Service

- QoS Overview
- QoS Components
- Endpoints
- Traffic Classes
- Handling Excess Bandwidth
- QoS Setup Wizard
- Direct Setup
- QoS Bandwidth Reports
- Lab 4: Quality of Service

Chapter 7: Packet Flow Acceleration Technology

- Overview of Packet Flow Acceleration
- Contributing Factors of High Latency
- TCP Acceleration
- Forward Error Correction
- Fast Connection Setup
- Configuring Packet Flow Acceleration
- Troubleshooting Packet Flow Acceleration
- Lab 5: Packet Flow Acceleration

Chapter 8: Application Flow Acceleration Technology

- Overview of AppFlow
- CIFS
- Exchange and MAPI
- HTTP
- Configuring AppFlow
- Troubleshooting
- Lab 6: Application Flow Acceleration Technology

Chapter 9: Operation and Maintenance

- Security Features
- Changing the Registration Server
- SNMP and DNS Support
- WXOS Software Upgrades
- Access and System Logs
- Network Tools
- Exporting Data and Generating Support Files
- Lab 7: Operation and Maintenance

Chapter 10: Monitoring and Reporting

- WAN Reports
- Data Compression Reports
- QoS Reports
- Acceleration Reports
- Traffic Reports
- Summary Reports

Chapter 11: WX Central Management System

- WX CMS Capabilities
- Configuration Management
- Automated Deployment
- Groups
- Monitoring and Reporting
- Minimum Requirements for Installation
- Lab 8: WX CMS
- Lab 9: Re-create WX Configuration

Appendix A:

- WXC Integrated Services Module 200 for J Series Services Routers
- WXC ISM 200 Overview
- Installing the WXC ISM 200
- Initial Configuration of the WXC ISM 200
- Configuring Optimization Features of the WXC ISM 200

Appendix B: Packet Interception Mode

- What Is Packet Interception Mode?
- Packet Interception with Route Injection (RIPv2)
- Packet Interception with WCCPv2
- Packet Interception Using the External Mode

Cost AUD \$1,599 inc. GST

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