Juniper Containerized Routing Protocol Daemon Workshop

COURSE OVERVIEW

This one-day, intermediate-level course provides students with the knowledge to deploy and configure the Juniper containerized Routing Protocol Daemon (cRPD). Key topics include cRPD overview, installation, basic configuration, EVPN-VXLAN configuration and troubleshooting. Through concepts and theory, students will learn how to deploy and configure Juniper cRPD.
This course is based on cRPD Release 25.2.

COURSE LEVEL

Juniper Containerized Routing Protocol Daemon Workshop is an intermediate-level course.

AUDIENCE

The primary audience for this course includes individuals responsible for deploying and configuring cRPD.

PREREQUISITES

The prerequisites for this course include:

- Intermediate cloud and networking knowledge.
- Understanding of the OSI reference model and the TCP/IP protocol suite.
- Strong understanding of Linux.
- Strong understanding of Dockers and Kubernetes.
- Understanding of EVPN-VXLAN
- Recommended but not required:
    - Completion of the *Introduction to Junos OS* course or equivalent knowledge.
    - Completion of the *Implementing Data Center Fabric with EVPN and VXLAN course* or equivalent knowledge.

RELATED JUNIPER PRODUCTS

cRPD

OBJECTIVES

After successfully completing this course, the students should be able to:

- Describe cRPD and its use cases.
- Describe how to deploy cRPD.
- Describe the basic configurations of cRPD.
- Describe how to configure EVPN in cRPD.
- Describe how to troubleshoot cRPD issues.

COURSE CONTENTS

DAY 1

Module 1: cRPD Overview

- Provide an overview of cRPD
- Describe cRPD use cases
- Explain cRPD architecture components and their interactions

Module 2: Installing cRPD

- List the system requirements
- Explain additional settings required on host OS
- Explain how to download cRPD image
- Explain how to install and upgrade cRPD on Docker
- Explain how to install and upgrade cRPD on Kubernetes

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Module 3: Configuring cRPD

- Explain how to access cRPD shell
- Explain how to connect cRPD to a network and attach interfaces
- Explain how to add a license to cRPD
- Explain how to configure cRPD for SSH and NETCONF access
- Explain how to configure cRPD interfaces
- Explain how to configure L3 routing protocols
- Explain how to configure L3 VPN

Module 4: Configuring EVPN with cRPD

- Explain how to configure EVPN Type 5 routes
- List the EVPN Type 5 verification commands
- Explain how to configure EVPN Type 2 routes
- List the EVPN Type 2 verification commands

Module 5: Troubleshooting cRPD

- Explain how to perform basic troubleshooting
- Describe how to troubleshoot interface issues
- Describe how to troubleshoot routing in cRPD
- Explain how to troubleshoot cRPD container issues
- Explain how to access core files
- Describe how to provide information to Juniper support

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