Implementing Juniper Paragon Automation

Education Services

COURSE OVERVIEW

This three-day course provides students with the knowledge to manage, monitor, maintain, automate, and orchestrate network devices and services using Juniper® Paragon Automation. Key topics include device onboarding, administration, observability, network trust and compliance, service orchestration, and Juniper® Paragon Active Assurance.

Through demonstrations and hands-on labs, students will gain experience with features of each of these capabilities. This course includes hands-on labs and is based on Paragon Automation 2.0.

COURSE LEVEL

Intermediate

AUDIENCE

Individuals who want to use Paragon Automation to manage network devices and services

PREREQUISITES

- Basic networking skills.
- General understanding of networks, network devices, and network services.
- Completion of the *Introduction to the Junos Operating System* (IJOS) course or equivalent knowledge

RELEVANT JUNIPER PRODUCTS

- ACX Series
- MX Series
- Paragon
- PTX Series

CONTACT EDUCATION SERVICES

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OBJECTIVES

- Explain Paragon Automation use cases.
- Perform Paragon Automation administration tasks.
- Perform Paragon Automation device onboarding.
- Perform Paragon Automation device management.
- Use Paragon Automation Observability.
- Implement Paragon Automation Network Trust.
- Perform VPN service orchestration.
- Use Paragon Active Assurance.
- Use the Paragon Automation REST API.
- Troubleshoot Paragon Automation.

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COURSE CONTENTS

DAY 1

1 Introducing Juniper Paragon Automation

- Explain Paragon Automation components
- Describe Paragon Automation use cases
- Install Paragon Automation

2 Paragon Automation Administration

- Manage organizations and sites
- Examine device inventory and audit logs

Lab 1: Paragon Automation Administration

3 Paragon Automation Device Onboarding

- Describe Paragon Automation device onboarding capabilities
- Prepare for device onboarding
- Perform device onboarding
- Analyze the results of the device onboarding process

Lab 2: Paragon Automation Device Onboarding

DAY 2

4 Paragon Automation Device Management

- Perform device management operations
- Perform device configuration management
- Offboard managed devices

Lab 3: Paragon Automation Device Management

5 Paragon Automation Observability

- Explain the capabilities of Paragon Automation Observability
- Examine network events
- Analyze network topology
- Monitor and troubleshoot network devices

Lab 4: Paragon Automation Observability

6 Paragon Automation Network Trust

- Explain Paragon Automation Network Trust components
- Evaluate network device compliance
- Discover vulnerabilities and monitor integrity

Lab 5: Paragon Automation Network Trust

DAY 3

7 Paragon Automation Service Orchestration

- Explain Paragon Automation service orchestration components
- Perform Layer 3 VPN service orchestration
- Monitor service provisioning workflows

Lab 6: Paragon Automation Service Orchestration

8 Paragon Automation Active Assurance

- Explain Paragon Active Assurance components
- Install and register Paragon Active Assurance test agents
- Perform Paragon Active Assurance testing
- Perform Paragon Active Assurance monitoring

Lab 7: Paragon Automation Active Assurance

9 Paragon Automation REST API

- Explain the Paragon Automation REST API
- Use the Paragon Automation REST API

Lab 8: Paragon Automation REST API

10 Paragon Automation Troubleshooting

- Identify Paragon Automation troubleshooting tools
- Troubleshoot Paragon Automation

Lab 9: Paragon Automation Troubleshooting

SELF-STUDY MODULES

11 Metro Networks

- Explain metro networks
- Explain Metro Ethernet and MPLS concepts
- Describe popular metro network use cases

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