

# JNCIE-Cloud Self-Study Bundle (JNCIE-Cloud)

Engineering Simplicity

## COURSE OVERVIEW

Juniper Networks *JNCIE-Cloud Certification Self-Study Bundle* is a hands-on guide to validate your skills needed to pass the official JNCIE-Cloud lab exam. The guide is based on the official JNCIE-Cloud exam blueprint. Each chapter covers several technologies with expert-level configuration tasks and detailed answers. In this workbook, you will also find several technology introductions and theoretical knowledge about the JNCIE-Cloud lab exam blueprint topics. However, do not expect a full explanation of exam-related topics because there are other resources available for prerequisite knowledge.

The guide contains two 6-hour super labs to give you the same experience as in the real JNCIE-Cloud exam. This guide is targeted at JNCIP-Cloud certified engineers who are studying for the expert-level certification and need extra help preparing for the exam.

With the purchase of this self-study bundle, you will be provided with access to the course materials via Online Secure PDF, a secure PDF workbook of technology-specific lessons and exercises and two JNCIE-Cloud practice exams (Super Labs), and 12 lab sessions for use at any time to perform lab exercises and practice exams—each lab session provides a maximum of 10 continuous hours of access to our lab environment.

### COURSE LEVEL

Advanced

### AUDIENCE

Individuals who have already honed their skills on Cloud technologies and could use some practice and tips in preparation for the JNCIE-Cloud exam

### PREREQUISITES

Successful completion of the Juniper Networks Certified Internet Professional—Cloud (JNCIP-Cloud) written exam or achieved an equal level of expertise through Education Services courseware and hands-on experience

### CONTACT INFORMATION

[Contact Juniper Education Services](#)

## OBJECTIVES

- Be better prepared for success in taking the actual JNCIE-Cloud exam.
- Be well-versed in exam topics, environment, and conditions.

## COURSE CONTENT

1

### Fabric Automation using Contrail Command

- Onboarding an Existing IP Fabric
- Enabling BMS Connectivity
- Provisioning a New IP Fabric
- Additional Operations

2

### Orchestration

- Providing Workload Isolation in Kubernetes
- Deploying Multitier Applications in Kubernetes
- Deploying Applications in OpenStack
- Deploying Applications in vCenter

3

### Contrail Networking

- vRouter Connectivity and Troubleshooting
- IP Fabric Network
- SNAT
- Overlay Load Balancing
- Service Chains
- Troubleshooting an Overlay Network
- Virtual DNS

4

### Contrail Security

- Security Policies
- Policy Generation
- Visualization
- Troubleshooting

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## COURSE CONTENT (continued)

5

### Monitoring Analytics and Telemetry

- AppFormix for Monitoring Contrail SDN Components
- SLA Rules/Outbound Notifications
- Custom Actions
- AppFormix Logs, Alarms, and Notifications
- Junos Telemetry

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### Super Lab 1

- Fabric Automation using Contrail Command
- Orchestration
- Contrail Networking
- Contrail Security
- Monitoring Analytics and Telemetry

### Super Lab 2

- Fabric Automation using Contrail Command
- Orchestration
- Contrail Networking
- Contrail Security
- Monitoring Analytics and Telemetry

## COURSE APPENDICES

### Appendix—Chapter 1: Fabric Automation using Contrail Command

- Detailed explanation of steps required to complete Onboarding an Existing IP Fabric
- Detailed explanation of steps required to complete Enabling BMS Connectivity
- Detailed explanation of steps required to complete Provisioning a New IP Fabric
- Detailed explanation of steps required to complete Additional Operations

### Appendix—Chapter 2: Orchestration

- Detailed explanation of steps required to complete Providing Workload Isolation in Kubernetes
- Detailed explanation of steps required to complete Deploying Multitier Applications in Kubernetes
- Detailed explanation of steps required to complete Deploying Applications in OpenStack
- Detailed explanation of steps required to complete Deploying Applications in vCenter

### Appendix—Chapter 3: Contrail Networking

- Detailed explanation of steps required to complete vRouter connectivity and troubleshooting
- Detailed explanation of steps required to complete IP fabric network configuration
- Detailed explanation of steps required to complete SNAT
- Detailed explanation of steps required to complete Overlay load balancing
- Detailed explanation of steps required to complete Service chains
- Detailed explanation of steps required to complete Troubleshooting an overlay network
- Detailed explanation of steps required to complete Virtual DNS

### Appendix—Chapter 4: Contrail Security

- Detailed explanation of steps required to complete Security policies
- Detailed explanation of steps required to complete Policy generation
- Detailed explanation of steps required to complete Visualization
- Detailed explanation of steps required to complete Troubleshooting

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## COURSE APPENDICES (continued)

### Appendix—Chapter 5: Monitoring Analytics and Telemetry

- Detailed explanation of steps required to complete configuring AppFormix for monitoring Contrail SDN components
- Detailed explanation of steps required to complete SLA rules/outbound notifications
- Detailed explanation of steps required to complete Custom actions configuration
- Detailed explanation of steps required to complete configuring AppFormix logs, alarms, and notifications
- Detailed explanation of steps required to complete working with Junos Telemetry

### Appendix—Super Lab 1

- Detailed explanation of steps required to complete Fabric Automation using Contrail Command
- Detailed explanation of steps required to complete Orchestration tasks
- Detailed explanation of steps required to complete Contrail Networking tasks
- Detailed explanation of steps required to complete Contrail Security tasks
- Detailed explanation of steps required to complete Monitoring Analytics and Telemetry tasks

### Appendix—Super Lab 2

- Detailed explanation of steps required to complete Fabric Automation using Contrail Command
- Detailed explanation of steps required to complete Orchestration tasks
- Detailed explanation of steps required to complete Contrail Networking tasks
- Detailed explanation of steps required to complete Contrail Security tasks
- Detailed explanation of steps required to complete Monitoring Analytics and Telemetry tasks

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