

Introduction to Juniper Mist AI

COURSE OVERVIEW

This introductory three-day course serves as the springboard to understanding the Mist AI™ Full Stack offerings. This course provides students with a comprehensive understanding of a fully deployed, driven by Mist AI wired, wireless, and software-defined WAN (SD-WAN) network. In their lab environments, students will explore each Mist AI offering at a high level, focusing on wireless and Edge products, switching and campus design, SD-WAN connectivity, enterprise routing capabilities, deploying Juniper Mist™ Access Assurance, and Juniper® Location Service, driven by Mist AI™. This course outlines Mist AI and how the full stack combines for complete AI-native networking. After completing this course, students can articulate the benefits and essential functions of the flexible, scalable, and distributed Mist AI architecture across their wired, wireless, and SD-WAN networks.

COURSE LEVEL

Introductory

AUDIENCE

Individuals with a high-level understanding of the Mist AI Full Stack and Mist AI-Native Networking solutions. This course serves as the first step in the education track in the Juniper Mist™ curriculum.

PREREQUISITES

- Basic Junos OS knowledge
- Basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite
- Basic understanding of wireless technology
- Completion of the [Getting Started with Networking](#) e-learning course

RELATED CERTIFICATION

[JNCIA-Mist AI](#)

RELATED JUNIPER PRODUCTS

EX Series, Junos OS, MX Series, SRX Series, Network Design, Juniper Apstra, Mist AI, Session Smart Routers

RECOMMENDED NEXT COURSE

[Deploying and Managing Juniper Wireless Networks with Mist AI](#), [Deploying and Managing Juniper Wired Networks for Campus and Branch with Mist AI](#), or [explore the Mist AI Learning Path](#)

OBJECTIVES

- Describe the Juniper Mist™ cloud.
- Explain the key concepts, terminology, and configuration for the Juniper Mist Full Stack, including:
 - Juniper Mist Wireless Assurance.
 - Juniper Mist Wired Assurance.
 - Juniper Mist WAN Assurance.
- Articulate key features in the Juniper Mist solutions, including:
 - Marvis® Virtual Network Assistant, Marvis Actions, Marvis Minis
 - Juniper Mist Network Analytics.
 - Juniper Mist Premium Analytics.
 - Juniper Mist Access Assurance (NAC).
 - Juniper Mist Routing Assurance.
 - Location Service, driven by Mist AI.
 - Juniper Mist Edge.
 - Juniper Secure Services Edge integrations.
 - Juniper Apstra™ Cloud Services integration with Mist AI.

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COURSE CONTENTS

DAY 1

Module 1: Introduction to Juniper Mist

- Outline Juniper Mist
- Describe Marvis and Marvis Minis
- Define Juniper Mist full stack
- Outline Juniper Mist services and solutions

Module 2: Introduction to Artificial Intelligence and the Juniper Mist AI-Native Network

- Describe the evolution of artificial intelligence
- Describe machine learning
- Describe Mist AI
- Describe the Juniper Mist cloud

Module 3: Introduction to Marvis VNA

- Describe Marvis VNA
- Describe Marvis Actions
- Provide an overview of the Marvis Conversational Assistant and the Marvis Query Language
- Describe Marvis Minis

Module 4: Juniper Mist—Accounts and Management

- Describe how to create and manage a Juniper Mist account
- Outline Juniper Mist management and administration
- Describe Juniper Mist e-mail alerts and notifications
- Outline Juniper Mist subscription options

Lab 1: Juniper Mist Portal and Initial Configuration

Module 5: Juniper Mist Wireless Assurance—Day 0 Expectations

- Define Day 0 expectations
- Outline the configuration of sites, WLAN templates, WLANs, and VLANs
- Describe RF templates and device profiles
- Explain SSID strategies for 802.1X, portals, and BYOD

Module 6: Juniper Mist Wireless Assurance—Deployment and Workflow

- Describe Day 1 expectations
- Define Juniper Access Points
- Describe how to onboard access points
- Outline Juniper Mist Wireless Assurance use cases

Module 7: Juniper Mist Wireless Assurance—Management and Monitoring

- Define Day 2+ expectations
- Define Juniper Mist Wireless Assurance
- Describe wireless insights, SLEs, and monitoring
- Describe how to view clients
- Describe Marvis Actions for Juniper APs

Lab 2: Wireless Assurance

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DAY 2

Module 8: Juniper Mist Location Services—Capabilities and Use Cases

- Describe the use cases for Location Services
- Outline the Juniper Mist Location Service Devices
- Explain BLE
- Describe vBLE Engagement and virtual beacons
- Outline the features of Asset Visibility
- Explain Juniper Mist User Engagement

Module 9: Juniper Mist Wired Assurance—Day 0 Expectations

- Define Day 0 expectations
- Describe the Wired Assurance configuration hierarchy
- Outline wired configuration elements
- Describe how to configure VLANs and port profiles, and how to assign them
- Describe dynamic port profiles

Module 10: Juniper Mist Wired Assurance—Deployment and Workflow

- Define Day 1 expectations
- Explain Juniper Mist Wired Assurance and Wired Visibility
- Describe Juniper Mist Wired devices and Virtual Chassis
- Outline how to onboard switches
- Describe distributed enterprise deployments
- Compare traditional campus networks to EVPN-VXLAN campus fabrics
- Explain microsegmentation
- Outline the Juniper Mist EVPN Campus Fabric Wizard

Module 11: Juniper Mist Wired Assurance—Management and Monitoring

- Define Day 2+ expectations
- Describe wired insights, SLEs, and monitoring
- Describe Marvis Actions for Juniper switches

Lab 3: Wired Assurance

Module 12: Juniper Mist Access Assurance—Capabilities and Use Cases

- Describe the components of network access control
- Explain the features of Juniper Mist Access Assurance
- Describe the Juniper Mist Access Assurance use cases
- Describe authentication policies
- Describe posture compliance

Module 13: Juniper Mist Routing Assurance—Capabilities and Use Cases

- Outline Juniper Mist Routing Assurance features
- Describe Juniper Mist Routing Assurance use cases
- Describe the onboarding and configuration workflows for Day 0 and Day 1
- Explain WAN Monitoring SLEs and Day 2 Experiences

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DAY 3

Module 14: Juniper Mist SD-WAN Capabilities and Use Cases

- Define SD-WAN
- Describe WAN Edge and Overlay
- Explain tunnel-free routing
- Outline platform considerations and deployment patterns

Module 15: Juniper Mist WAN Assurance—Deployment Workflow

- Outline the Juniper SD-WAN Intent Model
- Outline WAN Edge templates and hub profiles
- Describe Application Steering and SD-WAN policies
- Outline secure services edge integrations

Module 16: Juniper Mist WAN Assurance—Management and Monitoring

- Explain Session Smart SD-WAN SLEs
- Describe Marvis Actions and WAN Edge Insights for SD-WAN
- Outline WAN user experiences and application-based context
- Outline Customer Deployment Journey

Lab 4: WAN Assurance

Module 17: Juniper Mist Templatization, Variables, and Automation

- Define Juniper Mist templates
- Outline Wireless, Wired, and SD-WAN templating
- Describe Juniper Mist template deployment
- Describe Juniper Mist variables

Module 18: Juniper Mist API

- Explain API concepts
- Describe the Juniper Mist RESTful API
- Describe the Juniper Mist WebSocket API
- Describe the Juniper Mist Webhooks API

Module 19: Juniper Mist Documentation and Support

- Explain Juniper Mist documentation
- Outline how to create support tickets
- Explain feature requests

Lab 5: Troubleshooting and Juniper Mist Help

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