

Deploying and Managing Juniper SD-WAN with Mist AI

COURSE OVERVIEW

This two-day course provides students with the knowledge required to configure, deploy, monitor, and troubleshoot Mist WAN Edge devices deployed in a hub-and-spoke topology. This course summarizes the Mist full-stack solution and how it aligns with enterprise architectures, followed by detailed information and lab exercises regarding operation, configuration, and deployment with Mist WAN Edge devices in software-defined wide area networks (SD-WAN). This course is based on Mist cloud, which updates on a bi-weekly basis. The labs use the virtual SSR version 6.1.2. SRX is based on Junos Release 21.3R3.10.

Key topics include Enterprise WAN Edge design principles, device onboarding and basic configuration in the Mist UI, common configuration tasks and workflows, and operational monitoring with application identification and device maintenance within Mist.

Although the course covers the theory of both platforms, the hands-on labs and basic configuration in the Mist UI and the common configuration tasks and workflows are performed with SSR Series devices. SRX is covered in lectures only.

COURSE LEVEL

Intermediate

AUDIENCE

This course benefits individuals responsible for implementing, configuring, and maintaining SSR Series and SRX Series devices using Mist AI WAN Assurance.

PREREQUISITES

- Basic Junos OS knowledge
- Basic SSR knowledge
- Strong Enterprise WAN Edge networking skills
- Completion of the following courses, or equivalent knowledge
 - [Introduction to Juniper Mist AI](#)
 - [Introduction to Session Smart Routing](#)
 - [Juniper Security](#)

RELATED JUNIPER PRODUCTS

- Mist AI
- SRX Series
- SSR Series

CONTACT EDUCATION SERVICES:

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OBJECTIVES

- Describe the Mist Cloud.
- Explain the key concepts and terminology used in WAN Assurance.
- Explain how to onboard a WAN Edge device and perform basic configurations.
- Explain how Application Policy influences access to resources.
- Explain how Mist translates intent into configurations for WAN Edge.
- Define and apply WAN Assurance scaling features.
- Describe how Mist enables site-to-site connectivity.
- Explain how Mist translates intent into configurations for SD-WAN.

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COURSE CONTENTS

DAY 1

	Course Introduction
1	Introduction to Mist <ul style="list-style-type: none">Explain the benefits of Mist AIExplore Mist subscription optionsDescribe Mist AI-Driven networking solutions
2	Juniper Mist WAN Assurance <ul style="list-style-type: none">Describe the Mist WAN Assurance solutionDefine the WAN EdgeDefine the terminology used in WAN AssuranceList the deployment models for WAN AssuranceExplore the supported WAN Edge platforms
3	WAN Assurance Quick Start <ul style="list-style-type: none">Explain the onboarding options for a WAN Edge in MistExplain the basic WAN Assurance workflow Lab 1: WAN Assurance Quick Start
4	Networks, Applications, and Policies <ul style="list-style-type: none">Explain networksExplain applicationsExplain traffic steeringExplain Application Policy
5	Mist Intent-Model for Standalone WAN Edge <ul style="list-style-type: none">Explain intent-based networkingCompare WAN Edge PlatformsExplain the intent-based model for SRXExplain the intent-based model for SSR Lab 2: Application Policy

DAY 2

6	Templates, Variables, and Scaling <ul style="list-style-type: none">Explain WAN Edge templatesExplain site variablesExplain importing, exporting, and applying templatesDefine organization-level Application Policy Lab 3: Scaling with Templates and Site Variables
7	SD-WAN and Intersite Connectivity <ul style="list-style-type: none">Define SD-WANDescribe hub profilesExplain key deployment considerations
8	Mist Intent Model for SD-WAN <ul style="list-style-type: none">Explain the intent-based model for SRX SD-WANExplain the intent-based model for SSR SD-WANExplain SD-WAN deployment considerations Lab 4: SD-WAN with SSR
9	Application Identification and Discovery <ul style="list-style-type: none">Outline application identification in Juniper Mist WAN AssuranceDescribe application identification on the SRX Series Firewalls and Juniper Mist Premium AnalyticsDescribe application identification on the Juniper Session Smart Router and Juniper Mist Premium Analytics
10	Application Policy and Application Steering <ul style="list-style-type: none">Define Application Steering in Juniper Mist WANExplain how to use AppID to implement Application SteeringDefine Application Steering considerations
11	Troubleshooting and Monitoring Mist WAN <ul style="list-style-type: none">Describe monitoring with WAN Edge detailsExplain monitoring with WAN Edge InsightsOutline troubleshooting with Marvis and SLEs in Mist WANReview troubleshooting tools

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