



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Deploying and Managing Juniper Wireless Networks with Mist AI

CODE:	LENGTH:	PRICE:
JUN_JWMA	32 Hours (4 dage)	kr 28,300.00

Description

This four-day course provides students with the knowledge required to work with enterprise wireless technologies and Juniper Driven by Mist AI™ wireless networks. Students will gain in-depth knowledge of wireless technologies, Juniper Mist™ technologies, and how to configure and use them. Through demonstrations and hands-on labs, students will gain experience with the features and functionalities of Mist AI-driven Wi-Fi.

RELATED JUNIPER PRODUCT

COURSE LEVEL • Juniper Mist AI
Intermediate

Objectives

After successfully completing this course, you should be able to:

- Describe the IEEE 802.11 standard and amendments.
- Describe wireless frequency bands.
- Apply radio frequency (RF) basics in wireless networks.
- Identify how modulation and coding make up wireless networks.
- Describe the interworkings of association and roaming.
- Describe network contention factors.
- Define WLANs.
- Define Juniper Mist.
- Describe Juniper Mist configuration objects for wireless networks.
- Describe Juniper Access Points and their configuration options.
- Describe Juniper Mist's WLAN configuration objects.
- Describe Juniper Mist™ Edge.
- Describe the Juniper Mist guest options.
- Describe WxLAN policies and how apply them to resources.
- Examine wireless intrusion detection and prevention from Juniper Mist.
- Describe WLAN security threats detected by the Juniper Mist WLAN system.
- Interpret wireless service-level expectations (SLEs) in relation to users.
- Gather events and insights from the Mist™ cloud.
- Summarize Juniper Mist's radio resource management (RRM).
- Review additional data to create dashboard and reports.
- Evaluate machine learning and artificial intelligence.
- Summarize Marvis queries.
- Extend Mist's Marvis actions.
- Describe the functions of Marvis Actions and Marvis Minis.
- Compare the concepts and methods of location services.
- Explain Juniper Mist's approach to user engagement and asset visibility.

Audience

Individuals working with enterprise wireless networks and applying artificial intelligence to their activities

Prerequisites

- Basic TCP/IP skills
- General networking
- Completion of the Introduction to Juniper Mist AI course or equivalent knowledge

Programme

- 1 Wi-Fi Standards
 - Describe the purpose of the 802.11 standard and its physical layer amendments
- 2 Wi-Fi Radio Frequency Bands
 - Describe the 2.4-GHz, 5-GHz, and 6-GHz frequency bands used for WLANs and their channels
- DAY 1**
- 3 Applying Radio Frequency Basics to Wi-Fi
 - Describe the properties of an RF wave
 - Convert dBm to Milliwatts using RF math
 - Explain factors that contribute to RF signals and how they relate to WLANs
- 4 Modulation and Coding for Wireless Networks
 - Explain RF modulation and how it relates to WLAN data rates
 - Describe the relationship between SNR and MCS
- 5 Understanding Client Association and Roaming
 - Describe the 802.11 state machine and steps required for an 802.11 station to connect to an access point
 - Explain the protocols used in a client's connection to the network
- 6 Network Contention Factors
 - Differentiate WLAN architectures
 - Describe 802.11 contention
- 7 Wi-Fi Architectures and Life Cycle
 - Describe the stages of the WLAN life cycle
- 8 Getting Started with Juniper Mist
 - Examine the Juniper Mist architecture
 - Create a Juniper Mist account
 - Summarize Juniper Mist subscriptions
 - Summarize the MSP dashboard
- 9 Juniper Mist Configuration Objects
 - Explain the difference between organization-level and site-level configuration objects
 - Define Juniper Mist configuration objects and their uses
- Lab 1: Initial Setup **DAY 2**
- Lab 2: Remote Site and Site Groups and Variables
- 10 Juniper Access Points
 - Summarize access points and connectivity
 - Describe the boot procedure for a Juniper Access Point, its requirements, and the process of adding a Juniper Access Point to the Juniper Mist cloud
 - Describe common AP configuration settings
 - Use the Juniper Access Points dashboard to get information about an Access Point
- 11 WLANs
 - Define a SSIDs, BSSIDs, and their functions
 - Review additional WLAN configuration options
 - Explain WLAN security options and how they are configured in a Juniper Mist WLAN configuration object
 - Describe data rates and how they are configured in Juniper Mist
 - Explain SSID strategies for multiband deployments
- 12 Juniper Mist Edge
 - Define the features and benefits
 - Identify popular use cases
 - Categorize the product options
 - Summarize the installation
 - Review the Edge management
- 13 Guest Portals
 - Describe the Juniper Mist guest options
- 14 Juniper Mist WxLAN Policies
 - Explain WLAN policies and how they are configured
- Lab 3: WLANs and WxLAN
- 15 Juniper Mist Wi-Fi Security
 - Describe WLAN security threats detected by the Juniper Mist WLAN system
- 16 Juniper Mist Service-Level Expectations
 - List Wi-Fi Assurance SLEs and their classifiers
- 17 Juniper Mist Events and Insights
 - Describe site, AP, and client events
 - Explain the packet capture functionality of the Juniper Mist system
 - Describe the 802.11 MAC header and list 802.11 MAC frame types
- 18 Juniper Mist Radio Resource Management
 - Describe Juniper Mist RRM operations and their purposes
- 19 Juniper Mist Dashboard and Reports
 - Explain custom dashboard and report options
- 20 Juniper Mist Artificial Intelligence and Troubleshooting Options
 - Assess Juniper Mist's application of artificial intelligence
 - Describe the reactive and proactive troubleshooting methodologies
- 21 Marvis Queries
 - Explain the difference between Marvis natural language and Marvis query language
- 22 Marvis Actions
 - Explain the features of Marvis Actions
 - Explain the functions of Marvis Minis
- 23 Location-Based Services
 - Describe real-time location services
- 24 User Engagement and Asset Visibility
 - Explain Juniper Mist's approach to user engagement
 - Describe Juniper Mist's asset visibility capabilities
- Lab 4: SLE Troubleshooting
- Lab 5: Marvis

Follow on courses

Juniper Mist AIOps (JMA) Deploying and Managing Juniper Wired Networks for Campus and Branch with Mist AI (JCMA)

Test and Certification

RELATED CERTIFICATION
JNCIS-MistAI-Wireless Certification

Session Dates

På anmodning. [Kontakt os venligst](#)

Yderligere Information

[Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.](#)