Fast Lane

Juniper Mist AI Networks (MIST)

ID MIST   **Preis** US $ 4'000.– (exkl. MwSt.)   **Dauer** 4 Tage

Zielgruppe

This course benefits individuals responsible for working with enterprise wireless networks and applying artificial intelligence to their activities.

Empfohlenes Training für die Zertifizierung zum

Juniper Networks Certified Internet Specialist Mist AI (JNCIS-MISTAI)

Voraussetzungen

The following are the prerequisites for this course:

- Basic TCP/IP skills
- Basic knowledge of wireless (Wi-Fi) technologies is recommended.

Kursziele

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

- Describe WLAN association and roaming.
- Explain the wireless LAN life cycle.
- Explain and configure Mist architecture.
- Describe a wireless enterprise network.
- Explain the purpose of Mist and key differentiators.
- Describe wireless fundamentals.
- Describe the basic features Mist.
- Describe how to add new organizations and sites.
- Navigate the Mist portal.
- Describe the Mist AP deployment model.
- Provide an overview of the Mist onboarding workflow.
- Implement RF and configuration templates.
- Configure wireless access policies.
- Describe the EX Series switch deployment model.
- Describe the workflow for onboarding an EX Series switch to a Wired Assurance deployment.
- Describe labels and their use with Mist.
- Use Mist intelligent analytics and Marvis.
- Describe Real Time Location Sensor (RTLS) concepts and methods.
- Describe Mist automation and scripting.

- Instantiate a standalone NGFW site using CSO and SRX Series devices.
- Describe Service Level Experience and its place in wireless networks.
- Describe the client location service and use cases.
- Describe the components of an enterprise WLAN.
- Configure an enterprise grade WLAN.
- Describe a sitemap, site survey, and their critical components.
- Describe the subscriptions available for Mist.
- Describe the monitoring features.
- Generate reports.

Kursinhalt

Day 1

Chapter 1: Course Introduction

Chapter 2: Introduction to Wi-Fi Basics

- What Is Wi-Fi?
- 802.11 PHYs
- Frequency Bands
- RF Basics
- Modulation and Coding
- Network Arbitration and Contention
- WLAN Architectures
- WLAN Association and Roaming
- Network Contention
- Wireless LAN Life Cycle
- LAB 1: WLAN Testing

Day 2

Chapter 3: Mist Architecture and Initial Setup

- Mist Architecture
- Mist Account Organizations and Subscriptions
- Configuration Objects
- Organization Objects Versus Site Objects
- Access Points Overview, Configuration, and Troubleshooting
- LAB 2: Initial Setup
- LAB 3: Remote Site

Chapter 4: WLANs

Juniper Mist AI Networks (MIST)

- WLAN Concepts
- Security Concepts
- Mist WLANs
- Policy (WxLAN)
- Wireless Intrusion Detection and Prevention
- LAB 4: WLANs

Day 3

Chapter 5: Network Operations

- Wireless Assurance
- Events and Insights
- Radio Resources Management (RRM)
- Wired Assurance
- LAB 5: SLE Troubleshooting

Module 6: Wired Assurance

- Solution and Supported Devices
- Provisioning and Deployment
- Operation
- Design and Architecture
- LAB 6: Wired Assurance

Module 7: AI and Marvis

- Artificial Intelligence (AI) Reactive and Proactive Troubleshooting
- Reactive and Proactive Troubleshooting
- Marvis Language and Actions
- LAB 7: Marvis

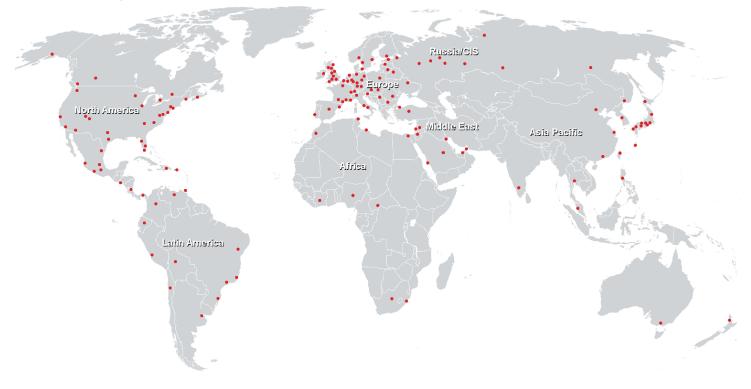**Day 4**

Chapter 7: Location-Based Services

- Concepts and Methods
- Wi-Fi Location
- Virtual BLE
- User Engagement
- Asset Visibility

Chapter 8: Automation and Scripting

- Mist API Overview
- Automation and Scripting Overview
- LAB 8: RESTful API
- LAB 9: WebSocket API

Weltweite Trainingscenter

Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch