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Register

JNCIS-MistAI Wireless Certification Training

3 days (21 hours)

Overview

Juniper MistAI Wireless is a cloud-native Wi-Fi platform that uses artificial intelligence to automate network operations and improve the user experience.

Our JNCIS-MistAI Wireless training course will teach you how to configure, optimize, and perform advanced troubleshooting on Mist environments.

You will learn how to leverage SLEs, use Marvis to diagnose incidents, automate deployments via API, and administer multi-site environments.

You will develop comprehensive expertise in Wi-Fi design, RF management, BLE services, authentication, automation, and observability.

At the end of the training, you will be fully prepared for the JNCIS-MistAI Wireless (JN0-252) certification, based on the latest stable version of the Mist platform.

Note: Ambient IT does not own the JNCIS-MistAI Wireless certification; it belongs to Juniper Networks Inc.

Objectives

- Understand the MistAI architecture and its components.
- Configure a complete Mist Wi-Fi network.
- Leverage Marvis and SLEs.
- Automate using Mist APIs.
- Manage BLE services.
- Prepare for certification.

Target audience

- Network engineers
- WLAN administrators
- Wi-Fi technicians
- Network architects

Prerequisites

- Basic network knowledge
- Recommended Wi-Fi knowledge

JNCIS-MistAI Wireless training program

[Day 1 - Morning]

Introduction to MistAI and Wi-Fi fundamentals

- Understanding the principles of modern Wi-Fi and AI-managed networks
- Overview of Juniper Mist Cloud architecture
- Discover Mist APs, cloud services, and microservices
- Understanding real-time telemetry and customer centricity
- Key concepts: SLEs, events, AI correlation
- Hands-on workshop: Exploring the Mist Cloud interface.

[Day 1 - Afternoon]

Designing and deploying a MistAI network

- Wi-Fi sizing methodology
- Creating and configuring a Mist site
- RF profile management and radio settings
- Configuring SSIDs, authentication, and security
- Implementation of access policies
- Hands-on workshop: Creating a site + SSID + policy.

Telemetry, SLEs, and AI-Driven Assurance

- Monitoring Service Level Expectations (SLEs)
- Proactive analysis: latency, roaming, capacity
- Intelligent incident detection
- Advanced troubleshooting via Marvis
- Using Marvis Actions
- Hands-on workshop: Troubleshooting via Marvis.

[Day 2 - Morning]

RF optimization and advanced operation

- Advanced concepts: Wi-Fi 6/6E
- Dynamic spectrum management
- Client analysis and automatic optimization
- Interference management
- Segmentation strategies
- Hands-on workshop: RF analysis of a site.

[Day 2 - Afternoon]

Location, BLE, and smart services

- vBLE Mist architecture
- Configuration of location zones and services
- Wayfinding, asset tracking
- Integration via APIs
- Privacy management
- Hands-on workshop: Implementing a BLE scenario.

Security, policies, and NAC

- PSK, PPSK, 802.1X authentication methods
- Dynamic segmentation
- RADIUS integration
- Threat management
- Context-based policies
- Hands-on workshop: Creating a PPSK SSID and managing custom keys.

[Day 3 - Morning] Automation

and Mist APIs

- API-First Approach
- Using Mist REST APIs
- Provisioning automation
- Audit automation
- Multi-site management
- Hands-on workshop: Automation scripting.

[Day 3 - Afternoon]

Monitoring, operations, and support

- Real-time supervision
- Incident management via Marvis
- Usage analysis
- Lifecycle and updates
- Best practices for availability
- Hands-on workshop: Troubleshooting report.

Preparation for JNCIS-MistAI Wireless certification

- Exam overview
- Structure and types of questions
- Review of key points
- Representative multiple-choice questions
- Strategies for success
- Practical workshop: Mock exam + correction.

Companies concerned

This training is aimed at both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Placement at the start of training

The placement test at the start of the training course complies with Qualiopi quality criteria. Once they have finalized their registration, learners receive a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technology, as well as their expectations and personal objectives for the upcoming training course, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Validation

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.