BLACKBIRD FOR TRAINING

SD-WAN Management

14 – 18 June 2027
Barcelona (Spain)



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Introduction

Welcome to the SD-WAN Management Course, designed to equip participants with advanced knowledge and practical skills to navigate the transformative world of Software-Defined Wide Area Networks SD-WAN. As organizations increasingly adopt SD-WAN technology for its flexibility, cost efficiency, and enhanced security, mastering its deployment and management has become essential for modern network professionals.

This course provides a comprehensive exploration of what SD-WAN is, how it differs from traditional WANs, and its strategic importance in today's network management landscape. Through hands-on training and real-world case studies, participants will learn how to configure, deploy, secure, and optimize managed SD-WAN solutions effectively.

Course Objectives

By completing this course, participants will:

- Understand SD-WAN Architecture: Gain a thorough understanding of SD-WAN components and architecture, including the control, data, and management planes.
- Master Deployment and Configuration: Learn how to configure and deploy SD-WAN managed services tailored to organizational needs.
- Optimize Performance and Security: Develop skills to manage SD-WAN performance, ensuring optimal security and reliability.
- Troubleshoot SD-WAN: Acquire practical troubleshooting techniques to resolve common SD-WAN management issues efficiently.
- Leverage Automation and AI/ML: Explore how automation and AI/ML technologies can enhance SD-WAN management and improve network operations.



Course Outlines

Day 1: Introduction to SD-WAN

- What is SD-WAN?: A foundational understanding of SD-WAN technology and its impact on modern networks.
- Key differences between SD-WAN and traditional WANs.
- Benefits of SD-WAN: Flexibility, cost efficiency, and enhanced security.
- Understanding SD-WAN architecture: Control plane, data plane, and management plane.

Day 2: Deployment and Configuration of SD-WAN

- Deployment models: Hybrid, cloud-based, and branch office implementations of managed SD-WAN.
- Hands-on configuration of SD-WAN devices and platforms.
- Routing protocols and dynamic path selection in WAN management.
- Integrating SD-WAN with existing network infrastructure seamlessly.

Day 3: Performance Management in SD-WAN

- Real-time monitoring tools for proactive WAN management and monitoring.
- Optimizing WAN traffic with QoS and traffic shaping techniques.
- Managing multiple link types MPLS, broadband, LTE to ensure stability.
- Failover management and dynamic path selection for network resilience in managed SD-WAN services.

Day 4: Security and Troubleshooting in SD-WAN

- Security features of SD-WAN: Encryption, firewalls, and VPNs.
- Securing direct internet access DIA and branch connections.
- Identifying and troubleshooting common SD-WAN management issues.
- Using logs and alerts to analyze and resolve network problems effectively.

Day 5: Automation and AI in SD-WAN & Conclusion

- Leveraging automation for streamlined SD-WAN operations, including provisioning and updates.
- Exploring AI/ML applications for proactive and intelligent WAN management.
- Case studies: Real-world examples of successful SD-WAN deployment and management.
- Course wrap-up: Q&A session, review, and preparation for certification.



Why Attend This Course: Wins & Losses!

- Master Key SD-WAN Concepts: Gain a deep understanding of what SD-WAN is and its strategic importance in modern networks.
- Hands-On Training: Practical experience with SD-WAN deployment, configuration, and performance optimization.
- Enhanced Security Skills: Learn to secure networks with SD-WAN's built-in encryption and firewall capabilities.
- Future-Proof Your Career: Leverage cutting-edge tools like automation and AI/ML to enhance your SD-WAN management skills.
- Certification Readiness: Equip yourself for industry-recognized certification to advance your career in SD-WAN management.
- Managed SD-WAN Solutions Expertise: Understand managed SD-WAN services and how they contribute to the overall health of the network.

Conclusion

The SD-WAN Management Course is a comprehensive program designed to prepare professionals for the rapidly evolving demands of modern network management. By mastering the principles of SD-WAN architecture, deployment, security, and performance optimization, participants will emerge equipped to lead their organizations into the future of network management.

Whether you are looking to enhance your skills, prepare for certification, or gain hands-on experience, this course offers the knowledge and tools you need to succeed in the realm of managed SD-WAN solutions.

Join us today to become a leader in SD-WAN management, ready to tackle the challenges of tomorrow's networks!

