BLACKBIRD FOR TRAINING

Network Management

10 – 14 October 2027
Cairo (Egypt)



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Introduction

Network management is a critical discipline involving the administration, operation, and maintenance of network systems to ensure optimal performance, reliability, and security. This course provides a comprehensive understanding of the principles, protocols, and tools essential for effective network management. Through an in-depth exploration of the well-known FCAPS framework Fault Management, Configuration Management, Accounting Management, Performance Management, and Security Management, participants will learn best practices in managing networks across various areas such as fault detection, configuration, performance optimization, and security.

Course Objectives

By the end of this course, participants will be able to:

- Understand the fundamental concepts and architecture of network management.
- Identify and implement the five key functional areas of network management: Fault Management, Configuration Management, Accounting Management, Performance Management, and Security Management FCAPS.
- Utilize industry-standard protocols like SNMP Simple Network Management Protocol and NetFlow for monitoring and managing networks effectively.
- Apply best practices for configuring and managing network devices such as routers, switches, and firewalls.
- Leverage tools and techniques for network performance optimization and troubleshooting.
- Understand the role of Software-Defined Networking SDN and virtualization in modern network management.

Course Outlines

Day 1: Introduction to Network Management

- Overview of networking concepts and architectures.
- The OSI model and TCP/IP protocol suite.
- Introduction to Network Management Systems NMS.
- The FCAPS model: Fault Management, Configuration Management, Accounting Management, Performance Management, and Security Management.



Day 2: Fault and Configuration Management

- Fault Management: Detection, isolation, and resolution.
- Configuration Management: Device configuration and change management.
- Hands-on exercise: Configuring SNMP on network devices.

Day 3: Performance and Accounting Management

- Performance Management: Monitoring and analysis techniques.
- Tools for performance measurement and optimization.
- Accounting Management: Usage monitoring and reporting.

Day 4: Security Management and Advanced Topics

- Security Management: Threat detection and response.
- Network security protocols and best practices.
- Introduction to Software-Defined Networking SDN.
- Virtualization in network management.

Day 5: Practical Applications and Case Studies

- Case studies on network management challenges and solutions.
- Emerging trends in network management technologies.

Why Attend This Course: Wins & Losses!

- Gain hands-on skills and knowledge in network management.
- Learn to apply the FCAPS framework for simplified network operations.
- Master the use of cutting-edge tools and protocols like SNMP and NetFlow.
- Develop the ability to troubleshoot and optimize network performance efficiently.
- Stay ahead with insights into modern technologies like SDN and virtualization.
- Understand network management policies and how to implement managed network solutions.

Conclusion

This course offers a unique opportunity for network professionals to enhance their skills and deepen their understanding of modern network management practices. By combining theoretical insights with practical applications, participants will be well-equipped to tackle current and future challenges in this ever-evolving field.

Whether you are looking to enhance your knowledge of managed network services, learn about network management protocols, or gain practical experience in managing network security, this course provides all the tools and knowledge you need to succeed.

Join us today and take your expertise in network management to the next level!

