BLACKBIRD
FOR TRAINING

Operating System Management

Istanbul (Turkey)

18 - 2025 May 2025

UK Traininig
PARTNER

Operating System Management

Introduction

The Advanced Operating System Management course is designed to provide participants with a comprehensive understanding of modern operating system management techniques. The course focuses on advanced concepts, tools, and best practices for effectively managing operating systems in complex computing environments. Participants will gain practical knowledge and skills through a combination of theoretical lectures, hands-on exercises, and real-world case studies.

Objectives

- Understand the fundamentals of operating systems and their role in modern computing environments.
- Explore advanced concepts and techniques for operating system management.
- Learn about the latest trends and developments in operating system management.
- Gain practical skills to effectively manage operating systems in diverse environments.
- Develop the ability to troubleshoot and resolve complex operating system issues.
- Learn best practices for optimizing system performance and resource utilization.
- Understand the security considerations and strategies for securing operating systems.
- Explore virtualization and containerization technologies and their impact on operating system management.
- Develop an understanding of cloud-based operating system management solutions.
- Learn about emerging technologies and future trends in operating system management.

Course Outline

Day 1

Introduction to Operating System Management

- Overview of operating systems
- Functions and components of an operating system
- Types of operating systems Windows, Linux, macOS, etc.
- Evolution of operating systems
- Key challenges in operating system management
- Trends and future developments in operating systems

Day 2

Advanced Operating System Concepts

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- Process management and scheduling
- Memory management techniques
- File system management and organization
- Device management and drivers
- Interprocess communication and synchronization
- Virtualization and containerization technologies

Day 3

Operating System Performance Optimization

- Performance monitoring and analysis
- Troubleshooting common performance issues
- Resource allocation and utilization
- Load balancing and scaling strategies
- Tuning system parameters for optimal performance

Day 4

Operating System Security

- Overview of operating system security
- User authentication and access control
- Auditing and logging mechanisms
- Intrusion detection and prevention
- Hardening operating systems for enhanced security

Day 5

Emerging Trends and Future Directions

- Cloud-based operating system management
- Automation and orchestration tools
- Internet of Things IoT and operating systems
- Edge computing and its impact on operating systems
- Artificial intelligence and machine learning in operating system management

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