KOENIG SOLUTIONS · COURSE OUTLINE

Dell™ PowerEdge™ Blade Server Configuration and Troubleshooting

Learn to configure, manage and troubleshoot Dell PowerEdge blade servers, from hardware setup to remote monitoring and security.

5 Days	17	35
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course covers Dell PowerEdge blade server hardware, including enclosures, modules and interconnects, followed by initial setup, BIOS configuration and RAID storage. It then addresses operating system installation and tuning, before moving into diagnosing common hardware and network issues using Dell diagnostics and iDRAC remote management. Later modules examine high availability, firmware and driver updates, security hardening and access control, closing with a recap of best practices and server trends.

WHO THIS COURSE IS FOR

- **Data Centre Administrators**
- **System Administrators**
- **Network Engineers**
- **Infrastructure Engineers**
- **IT Support Technicians**

LEARNING OBJECTIVES

- Identify key components and models of Dell PowerEdge blade servers
- Configure blade hardware, rack mounting, power and cabling
- Apply BIOS settings and configure RAID storage levels
- Install and optimise operating systems on blade servers
- Diagnose power, hardware and network connectivity issues
- Interpret results from Dell diagnostic tests
- Configure iDRAC for remote management and console access
- Apply security hardening and access control best practices

CERTIFICATION

Certification Exam (if applicable)

Exam Format

Passing Criteria

COURSE SYLLABUS

17 Modules, 35 Topics

DAY 1 Introduction to Dell™ PowerEdge™ Blade Servers

1.1 Overview of Blade Servers

TOPICS

Advantages and Benefits · Key Components

1.2 Dell™ PowerEdge™ Blade Server Models

TOPICS

Comparison of Models · Choosing the Right Model

1.3 Blade Server Hardware Overview

TOPICS

Blade Enclosures · Blade Modules · Interconnects and Networking

DAY 2 Blade Server Configuration

2.1 Initial Hardware Setup

TOPICS

Rack Mounting · Power and Cabling

2.2 Blade Server BIOS Configuration

TOPICS

Accessing BIOS · BIOS Settings and Best Practices

2.3 RAID Configuration and Storage

TOPICS

RAID Levels · Storage Best Practices

DAY 3 Operating System Installation and Configuration

3.1 OS Installation Methods

TOPICS

Installation from CD/DVD · Network Installation

3.2 OS Configuration and Optimization

TOPICS

Device Drivers · Performance Tuning

DAY 4 Troubleshooting and Diagnostics

4.1
Common Blade Server Issues

TOPICS

Power and Hardware Failures · Network and Connectivity Problems

4.2
Using Dell Diagnostics

TOPICS

Running Diagnostic Tests · Interpreting Diagnostic Results

4.3
Remote Management and Monitoring

TOPICS

iDRAC Configuration · Remote Console Access

DAY 5 Advanced Topics and Best Practices

5.1
High Availability and Redundancy

TOPICS

Failover and Clustering · Redundant Power and Networking

5.2
Firmware and Driver Updates

TOPICS

Importance of Updates · Update Methods

5.3
Security Considerations

TOPICS

Server Hardening · Access Control

5.4
Best Practices and Future Trends

TOPICS

Performance Optimization · Blade Server Trends

Conclusion and Certification

6.1
Recap and Review

TOPICS

Key Takeaways · Questions and Discussion

6.2
Certification Exam (If Applicable)

TOPICS

Exam Format · Passing Criteria

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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