

SERVER ADMINISTRATION & INFRASTRUCTURE MANAGEMENT

London - UK

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\$18,000



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TRAINING CENTER



Introduction

Server Administration & Infrastructure Management Training Course builds the practical skills needed to run servers that stay available, secure, and recoverable. Participants work through server hardware, operating systems, core roles, storage, virtualization, and cloud integration in a structured three-week sequence. The program combines concept teaching with hands-on installation, configuration, monitoring, and troubleshooting practice. As a result, learners gain the working knowledge that data-centre and infrastructure roles demand. Furthermore, the course strengthens diagnostic reasoning, security discipline, and confidence across hybrid environments.

Server Administration & Infrastructure Management Course Objectives

- Identify server form factors, components, and hardware selection criteria.
- Install and configure Windows Server and Linux server operating systems.
- Configure core server roles: DNS, DHCP, Active Directory, web, and email services.
- Apply RAID levels, storage sizing, and disk management practice.
- Implement SAN and NAS storage and design effective backup strategies.
- Deploy and manage virtual machines using VMware and Hyper-V hypervisors.
- Apply security controls: user permissions, firewalls, encryption, and patch management.
- Monitor server performance and run preventive maintenance routines.
- Troubleshoot hardware, software, and network faults systematically.
- Integrate on-premises servers with cloud and hybrid environments.

Course Methodology

- Instructor-led sessions with structured demonstrations and walkthroughs.

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- Hands-on labs on OS installation, role configuration, and storage setup.
- Group exercises on troubleshooting scenarios and root cause reasoning.
- Practice with monitoring tools, backup routines, and patch procedures.
- Simulation of server outages, capacity pressure, and recovery decisions.
- Facilitator feedback and peer review on lab work and infrastructure plans.

Who Should Take This Course

- Server administrators and infrastructure engineers.
- Systems administrators managing Windows or Linux estates.
- IT support staff moving into server and data-centre work.
- Network administrators expanding into server duties.
- Technical staff responsible for backups and availability.
- Career changers entering infrastructure administration roles.

Server Administration & Infrastructure Management Course Outlines

Week 1: Server Hardware, Operating Systems, and Networking Foundations

- Server types, form factors, and hardware selection criteria.
- CPU, memory, and expansion planning for workloads.
- RAID levels, disk types, and storage device characteristics.
- Installing Windows Server and Linux server editions.
- Operating system configuration, updates, and service management.



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- Networking for servers: IP addressing, subnetting, and VLANs.
- Network protocols and services relevant to server roles.
- Time synchronisation, name resolution, and service dependencies.
- Server security baselines and hardening fundamentals.
- Lab: installing a server operating system and applying a security baseline.

Week 2: Server Roles, Storage, and Virtualization

- DNS configuration, zones, and record management.
- DHCP scopes, reservations, and lease management.
- Active Directory: domains, users, groups, and Group Policy.
- Web server configuration and hosting fundamentals.
- Email server roles, mail flow, and anti-spam basics.
- Storage management: RAID setup, volumes, and disk quotas.
- SAN and NAS concepts, iSCSI, and shared storage design.
- Backup strategies: full, incremental, differential, and retention.
- Virtualization with VMware and Hyper-V: hosts, guests, and snapshots.
- Managing virtual machines, resource allocation, and templates.
- Lab: configuring Active Directory, DNS, and a virtual machine estate.

Week 3: Security, Monitoring, Troubleshooting, and Cloud Integration

- User permissions, role-based access, and least privilege.
- Firewall configuration, encryption, and certificate management.
- Patch management and vulnerability remediation cycles.
- Server performance monitoring: CPU, memory, disk, and network metrics.



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- Preventive maintenance routines and capacity planning.
- Hardware fault diagnosis and component replacement practice.
- Software and service troubleshooting with logs and event analysis.
- Network-related server faults and their typical causes.
- Cloud-based servers, hybrid environments, and VPN connectivity.
- Identity integration with cloud services and migration considerations.
- Lab: diagnosing a simulated server outage and presenting a recovery plan.
- Capstone: presenting a server and infrastructure management plan.

Conclusion

By successfully completing Server Administration & Infrastructure Management Training, participants will gain a practical command of server hardware, operating systems, roles, storage, virtualization, and cloud integration. They will acquire skills in role configuration, RAID and backup design, security hardening, performance monitoring, and structured troubleshooting. Gentex Training Center designs the program to help participants run infrastructure that stays available, secure, and recoverable.

FAQs

Q1 What is the "Server Administration & Infrastructure Management Training" course about?

It builds the practical skills needed to run servers that stay available, secure, and recoverable. The course covers server hardware, Windows and Linux operating systems, core roles, storage and RAID, virtualization with VMware and Hyper-V, security, monitoring, troubleshooting, and cloud integration.





Q2 What are the key benefits of the "Server Administration & Infrastructure Management Training" course?

You gain the working knowledge that data-centre and infrastructure roles demand. The course improves operating system and role configuration confidence, strengthens storage and backup design, raises security and patch discipline, and builds the troubleshooting judgement that shortens outages.

Q3 What skills will I gain from the "Server Administration & Infrastructure Management Training" course?

You will develop four core skills: server hardware and operating system administration, server role and service configuration, storage, backup, and virtualization management, and server security, monitoring, and troubleshooting with cloud integration.

Q4 What tools, methods, or standards are covered in the "Server Administration & Infrastructure Management Training" course?

The course covers Windows Server and Linux administration, RAID levels, SAN and NAS storage, iSCSI, full and incremental backup strategies, VMware and Hyper-V virtualization, Active Directory with Group Policy, DNS and DHCP, web and email server roles, role-based access control, firewall and encryption configuration, certificate management, patch management, performance monitoring of CPU, memory, disk, and network metrics, event log analysis, VLANs and subnetting, and hybrid cloud and VPN connectivity.



Q5 How is the "Server Administration & Infrastructure Management Training" course applied in real-world practice?

Participants apply it to real work such as building a server from a security baseline, configuring Active Directory and DNS for a site, designing a RAID and backup arrangement, and diagnosing a service outage from logs. The same methods support capacity planning, patch cycles, and hybrid cloud migration decisions.