



MICROSOFT TRAINING

AZ-1007: Deploy and Administer Linux Virtual Machines on Microsoft Azure

Master deploying and administering Linux VMs on Microsoft Azure. Earn your AZ-1007 certification and manage cloud infrastructure effectively.

DURATION

8 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level course, "AZ-1007: Deploy and Administer Linux Virtual Machines on Microsoft Azure," is meticulously designed for IT professionals aiming to master the deployment, administration, and management of Linux-based virtual machines within the Microsoft Azure cloud environment. Participants will gain hands-on experience with core Azure Infrastructure as a Service (IaaS) components, learning to provision, configure, and operate Linux VMs using both the Azure Portal and Azure CLI. The curriculum emphasizes practical skills in virtual networking, storage solutions, security best practices, and monitoring specific to Linux workloads on Azure, utilizing popular distributions such as Ubuntu, RHEL, and CentOS. By the end of this intensive 8-hour program, you will be proficient in managing the full lifecycle of Linux VMs, from initial deployment to advanced troubleshooting and optimization. This expertise is crucial for organizations leveraging Azure for their Linux-based applications and services. This course is an essential stepping stone for cloud administrators, system engineers, and IT specialists looking to validate and enhance their skills in hybrid cloud environments, preparing them to tackle real-world challenges in managing enterprise-grade Linux solutions on Azure. It provides a solid foundation for further specialization in Azure administration and contributes significantly to professional development in a cloud-centric IT landscape, directly addressing the growing demand for professionals adept at managing diverse operating systems within Azure.

Duration	8 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	AZ-1007

COURSE CURRICULUM

01 Module 1: Planning and Deploying Linux VMs on Azure

- Introduction to Azure IaaS and Linux on Azure
- Planning VM sizes, storage, and networking for Linux workloads
- Creating Linux VMs using the Azure Portal
- Deploying Linux VMs with Azure CLI and ARM Templates
- Connecting to Linux VMs: SSH and Bastion Host

02 Module 2: Managing Linux VM Storage and Networking

- Configuring Azure Managed Disks for Linux VMs
- Attaching and managing data disks for performance and redundancy
- Implementing file shares: Azure Files and NFS
- Designing and configuring Azure Virtual Networks for Linux VMs
- Network Security Groups (NSGs) and Application Security Groups (ASGs) for Linux traffic

03 Module 3: Administering and Monitoring Linux VMs

- Managing Linux VM lifecycle: start, stop, resize, delete
- Automating administration tasks with custom scripts and extensions
- Configuring VM availability sets and scale sets for high availability
- Monitoring Linux VM performance with Azure Monitor and Log Analytics
- Collecting and analyzing Linux VM logs and metrics

04 Module 4: Securing and Recovering Linux VMs

- Implementing identity and access management for Linux VMs (Azure AD, SSH keys)

- Configuring Azure Disk Encryption for Linux VMs
- Implementing Azure Backup for Linux VMs
- Disaster recovery strategies with Azure Site Recovery for Linux workloads
- Best practices for securing Linux VMs in Azure

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Linux Administrator: Specializing in the deployment, management, and troubleshooting of Linux virtual machines and associated services on the Microsoft Azure platform.**
- > **Cloud Operations Engineer (Azure & Linux Focus): Responsible for the operational health, monitoring, and scaling of Linux-based workloads and applications hosted on Azure infrastructure.**
- > **Hybrid Cloud Engineer with Linux Expertise: Designing, implementing, and maintaining solutions that integrate on-premises Linux systems with Azure-based Linux VMs and cloud services.**

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge is recommended before enrolling in the AZ-1007 course?

While this course is designed for an intermediate level, participants will benefit significantly from having a basic understanding of Linux command-line operations and fundamental networking concepts. Familiarity with Azure concepts, such as subscriptions, resource groups, and virtual networks, is also helpful but not strictly required, as key Azure IaaS elements are covered in the context of Linux VM administration.

Q: How will completing this course enhance my career prospects as a Cloud Administrator managing hybrid environments?

This course directly addresses a critical skill gap in the industry by equipping you with specialized knowledge in deploying and administering Linux VMs on Microsoft Azure. This makes you highly valuable for organizations running hybrid cloud strategies that involve both Windows and Linux workloads. You will gain the ability to efficiently manage cross-platform environments, optimize resource utilization, and ensure the security and availability of Linux-based applications, positioning you for advanced roles in cloud operations, DevOps, or system architecture within an Azure-centric ecosystem.

Q: Does this course cover advanced scripting or automation techniques for managing Linux VMs on Azure beyond basic commands?

Yes, while the course provides a strong foundation using the Azure Portal and Azure CLI, it also delves into automating administrative tasks. You will learn to use Azure Custom Script Extensions to deploy and configure applications on Linux VMs, and understand how to integrate scripting with ARM templates for repeatable deployments. The course focuses on practical automation relevant to Linux VM lifecycle management within Azure.

ABOUT COMPUTER PRIDE

**computerpride*****East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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