



MICROSOFT TRAINING

AZ-1002: Configure Secure Access to Your Workloads Using Networking with Azure Virtual Network

Learn to configure secure network access for Azure workloads using Azure Virtual Network with AZ-1002. Master secure networking in Azure.

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-1002: Configure Secure Access to Your Workloads Using Networking with Azure Virtual Network," is meticulously designed for IT professionals seeking to master the intricacies of securing cloud resources within Microsoft Azure. Participants will gain a comprehensive understanding of Azure Virtual Networks (VNETs), learning to design, implement, and manage robust networking solutions that ensure secure access to applications and data. The curriculum delves into critical concepts such as Network Security Groups (NSGs), Application Security Groups (ASGs), User-Defined Routes (UDRs), and advanced connectivity options like Azure VPN Gateway and ExpressRoute, all aimed at safeguarding your Azure workloads.

By the end of this 8-hour intensive program, you will be proficient in configuring secure hybrid connectivity, deploying Azure Firewall for centralized threat protection, and utilizing Azure Bastion for secure administrative access. You will also explore Azure Private Link and Private Endpoints to enhance the security of platform services. The professional benefits are significant: you'll emerge with practical, sought-after skills directly applicable to designing and maintaining secure, scalable, and resilient cloud environments, making you an invaluable asset in any organization leveraging Azure.

Duration	8 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	AZ-1002

COURSE CURRICULUM

01 Module 1: Azure Virtual Network Fundamentals and Planning

- Introduction to Azure Networking Services
- Understanding Azure Virtual Networks (VNETs)
- IP Addressing, Subnets, and CIDR Notation
- Planning VNet Design and Connectivity
- VNet Peering for Inter-VNet Communication

02 Module 2: Implementing Network Security Groups (NSGs)

- Core Concepts of Network Security Groups (NSGs)
- Configuring Inbound and Outbound Security Rules
- Applying NSGs to Subnets and Network Interfaces
- Understanding Rule Priority and Flow Logging
- Introduction to Application Security Groups (ASGs)

03 Module 3: Advanced Network Routing and Connectivity

- Creating and Managing User-Defined Routes (UDRs)
- Implementing Route Tables with Virtual Appliances
- Overview of Azure VPN Gateway for Hybrid Connectivity
- Configuring Site-to-Site and Point-to-Site VPNs
- Introduction to Azure ExpressRoute

04 Module 4: Deploying Azure Firewall and Bastion

- Introduction to Azure Firewall Capabilities
- Deploying and Configuring Azure Firewall

- Implementing Network, Application, and DNAT Rules
- Understanding Azure DDoS Protection Standard
- Securing RDP/SSH with Azure Bastion

05 Module 5: Securing PaaS Services with Private Link

- Understanding Azure Private Link Service
- Creating and Configuring Private Endpoints
- Securing Access to Azure Storage Accounts and SQL Databases
- Integrating Private Link with Azure DNS
- Monitoring and Troubleshooting Secure Network Access

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Network Engineer**
- > **Cloud Security Architect**
- > **Azure Infrastructure Administrator**

FREQUENTLY ASKED QUESTIONS

Q: What specific hands-on skills will I gain that are directly applicable to securing cloud workloads in Azure?

This course provides practical experience in configuring Azure Virtual Networks, implementing Network Security Groups (NSGs) and Application Security Groups (ASGs), deploying Azure Firewall, and establishing secure hybrid connectivity using VPN Gateways and Private Endpoints. You'll gain the ability to design, implement, and troubleshoot secure network architectures, ensuring your cloud applications and data are robustly protected from unauthorized access and internal threats.

Q: What prior knowledge or certifications are recommended before enrolling in the AZ-1002: Configure Secure Access to Your Workloads Using Networking with Azure Virtual Network course?

While there are no strict prerequisites, it's highly recommended to possess a foundational understanding of networking concepts (such as TCP/IP, routing, and firewall principles) and basic experience with Azure administration. Ideally, candidates should have completed the AZ-900 Azure Fundamentals course or have general familiarity with navigating the Azure portal and managing basic Azure resources. This course builds upon intermediate-level Azure concepts and assumes some prior exposure.

Q: How does mastering secure networking in Azure specifically enhance my career opportunities as an IT professional in Kenya?

In Kenya's rapidly expanding digital economy, organizations are increasingly migrating critical infrastructure and applications to cloud platforms like Azure. This certification equips you with highly sought-after skills to design and manage secure cloud infrastructure, making you a vital asset for roles such as Azure Network Engineer, Cloud Security Specialist, or Infrastructure Architect. It directly addresses the critical need for robust cybersecurity within cloud environments, significantly boosting your employability and earning potential in the local and regional job markets.

ABOUT COMPUTER PRIDE



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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