



MICROSOFT TRAINING

Troubleshooting Microsoft Azure Connectivity Course

Master troubleshooting Microsoft Azure connectivity issues. Resolve network and service problems efficiently in cloud environments.

DURATION

2 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, "Troubleshooting Microsoft Azure Connectivity," is meticulously designed for IT professionals aiming to master the complexities of Azure networking and ensure robust, reliable cloud environments. Over two intensive hours, participants will delve into core Microsoft Azure technologies, learning to effectively diagnose, resolve, and prevent common and advanced connectivity issues. You will gain practical expertise in navigating Azure Virtual Networks (VNETs), Network Security Groups (NSGs), User-Defined Routes (UDRs), Azure VPN Gateway, Azure ExpressRoute, and advanced services like Azure Firewall and Load Balancers. The curriculum emphasizes hands-on techniques using Azure Network Watcher and other diagnostic tools to pinpoint and rectify connectivity bottlenecks.

By completing this specialized training, you will significantly enhance your ability to maintain seamless communication between Azure resources, hybrid environments, and on-premises infrastructure. The professional benefits are immediate and substantial: you'll minimize service disruptions, reduce mean time to resolution for network incidents, and optimize network performance across your Azure deployments. This course not only solidifies your understanding of critical cloud networking principles but also equips you with the indispensable skills to become a highly valued expert in managing resilient and high-performing Azure cloud infrastructures, directly contributing to operational excellence and business continuity.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Foundations of Azure Connectivity Troubleshooting

- Overview of Azure Networking Services (VNETs, Subnets, IPs)
- Common Azure Connectivity Scenarios and Challenges
- Introduction to Azure Network Watcher and Diagnostic Tools
- Basic Network Troubleshooting Methodologies in Azure
- Understanding Azure Resource Manager (ARM) network resources

02 Module 2: Diagnosing Azure Virtual Network Issues

- Troubleshooting VNet Peering Connectivity
- Resolving Network Security Group (NSG) and Application Security Group (ASG) Problems
- Diagnosing User-Defined Routes (UDRs) and Route Table Conflicts
- Using IP Flow Verify and Connection Troubleshoot for Path Analysis
- Resolving DNS Resolution Issues within Azure VNETs

03 Module 3: Advanced Azure Connectivity Services Troubleshooting

- Diagnosing Azure VPN Gateway (Site-to-Site, Point-to-Site) Connectivity
- Troubleshooting Azure ExpressRoute Peering and Circuit Issues
- Resolving Connectivity Problems with Azure Firewall
- Diagnosing Issues related to Azure Load Balancers and Application Gateways
- Packet Capture and Flow Logs analysis with Network Watcher

04 Module 4: Hybrid Connectivity and Performance Monitoring

- Troubleshooting On-Premises to Azure Connectivity (VPN/ExpressRoute)

- Resolving DNS Resolution across Hybrid Environments
- Monitoring Network Performance with Azure Monitor and Network Watcher
- Identifying and Addressing Network Latency and Throughput Issues
- Best Practices for Proactive Azure Network Health Monitoring

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Network Engineer**
- > **Cloud Operations Specialist (Azure Focus)**
- > **Hybrid Cloud Administrator**

FREQUENTLY ASKED QUESTIONS

Q: What specific hands-on skills will I gain that are immediately applicable in a real-world Azure environment after completing this course?

Upon completion, you will be proficient in utilizing Azure Network Watcher tools like IP Flow Verify, Connection Troubleshoot, and NSG Flow Logs to diagnose network paths and security rules. You'll gain practical experience in troubleshooting VNet peering, VPN Gateway connections, ExpressRoute circuits, and resolving issues related to NSGs, UDRs, and DNS in both pure Azure and hybrid environments. These skills are crucial for maintaining network uptime and efficiency.

Q: What prior knowledge or experience with Microsoft Azure networking is recommended before enrolling in this intermediate-level course?

As an intermediate course, it is highly recommended that participants have a foundational understanding of Azure networking concepts, including Virtual Networks (VNETs), subnets, IP addressing, and basic Network Security Group (NSG) functionality. Familiarity with the Azure portal and command-line tools (PowerShell/CLI) for managing Azure resources will also be beneficial to maximize your learning experience.

Q: How does mastering Azure connectivity troubleshooting enhance my career progression within an organization utilizing Azure services?

Mastering Azure connectivity troubleshooting significantly elevates your value to any organization leveraging Azure. You become the go-to expert for ensuring critical business services remain operational, minimizing costly downtime. This expertise opens doors to specialized roles such as Azure Network Engineer, Cloud Operations Specialist, or even Architect, as you'll be equipped to design, implement, and maintain resilient cloud network infrastructures, directly impacting business continuity and efficiency.

ABOUT COMPUTER PRIDE

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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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