

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Exam delivery in the classroom, with a **98% success rate**
- Course-specific thinQtank® Learning publications to keep the learning engaging
- Extended hours of training, including immersive hands-on exercises
- **We do not teach the test.** We always deliver valuable hands-on experience
- All reading material and study guides sent to you when you register
- Every course taught by certified instructors

TRAINING CAMP FORMAT

thinQtank® Learning delivers this course as an **instructor-led training camp**, with the exam sat in the classroom as part of the camp. Camps are scheduled by cohort rather than to a fixed calendar, and the balance of lecture and lab work is set to suit the group and the delivery method. Contact us for the schedule covering your dates.

PREREQUISITES

- **This is not an entry-level course.** Microsoft expects working experience administering Azure compute, storage and networking resources
- Solid networking fundamentals: TCP/IP, DNS, name resolution, address management
- Hands-on with VPNs, firewalls and encryption, and with on-premises virtualization
- Familiarity with software-defined networking, and with hybrid connectivity
- AZ-104 is the natural course before this one if you are new to Azure

EXAM

AZ-700 — awards Microsoft Certified: Azure Network Engineer Associate

One hundred minutes. Passing score **700 on a scale of 1 to 1,000**. Microsoft does not publish a question count, so we do not quote one.

Skills measured, as Microsoft weights them — in ranges, not fixed percentages.

Core networking infrastructure **25-30%**

Connectivity services **20-25%**

Application delivery services **15-20%**

Azure network security services **15-20%**

Private access to Azure services **10-15%**

Last revised 27 July 2026, and this course is built on that revision.

Twelve months, then a free renewal. Microsoft role-based certifications expire after a year and are renewed at no cost by passing an online assessment on Microsoft Learn. Budget the annual renewal into your plan — it costs nothing but it is not automatic.

COURSE OVERVIEW

thinQtank® Learning offers an industry-unique training camp in which students earn the **Microsoft Certified: Azure Network Engineer Associate** certification. As with all our Microsoft training experiences, the exam is delivered in the classroom.

This is the specialist course for the engineer who owns the Azure network. Virtual networks and the address plan underneath them, hybrid connectivity by VPN and ExpressRoute, load balancing HTTP and non-HTTP traffic, private access to Azure services, network security, and the monitoring that tells you which of those has broken.

It assumes you already work in Azure. Exam **AZ-700**, and the **voucher is available** at \$165 USD.

COURSE OBJECTIVES

Primary course objectives:

- Plan and implement network segmentation, address spaces and subnetting in Azure
- Design and configure public and private DNS zones, and Azure DNS Private Resolver
- Implement virtual network peering, service chaining and gateway transit
- Design user-defined routes, route tables, forced tunneling, Route Server and NAT Gateway
- Design and implement site-to-site and point-to-site VPN connections for high availability
- Choose a virtual network gateway SKU, tunnel type and authentication method deliberately
- Select an ExpressRoute connectivity model, SKU and tier against real requirements
- Configure private and Microsoft peering, and options including Global Reach and FastPath
- Design a Virtual WAN architecture, and deploy gateways into a virtual hub
- Configure Azure Load Balancer, Traffic Manager and Gateway Load Balancer
- Configure Azure Application Gateway: listeners, routing rules, health probes and TLS
- Configure Azure Front Door: caching, TLS termination and traffic acceleration
- Plan and create private endpoints, Private Link services and service endpoints
- Implement network security groups and application security groups correctly
- Design and deploy Azure Firewall, Firewall Manager policies and a secured hub
- Configure a web application firewall on Front Door and on Application Gateway
- Monitor and troubleshoot with Network Watcher, Azure Monitor and virtual network flow logs

WHAT YOU WILL BE ABLE TO DO

- Design an Azure address plan that will still work in two years
- Build hybrid connectivity by VPN or ExpressRoute, and know which one the case calls for
- Put the right load balancer in front of the right traffic, for the right reason
- Secure and monitor an Azure network, and diagnose it when it misbehaves

DELIVERY METHODS

- Instructor-led training
- Immersive live-online training
- On-site and custom delivery

EXCLUSIVE LEARNING PACKAGE

- Hands-on labs in a live Azure environment, not a simulator
- Build-and-break exercises across VNets, peering, routing and NAT
- Site-to-site and point-to-site VPN builds, end to end
- AZ-700 video course
- AZ-700 reading plan and review guide
- AZ-700 certification practice exam

TARGET AUDIENCE

- Network engineers taking their existing skills into Azure
- Azure administrators whose remit has grown to include the network
- Cloud and infrastructure engineers responsible for hybrid connectivity
- Architects who must design ExpressRoute, Virtual WAN or private access properly
- Anyone holding AZ-104 and specializing next

COURSE MODULES

01 Introduction to Azure Virtual Networks

- Topic A: Network segmentation, address spaces and subnetting
- Topic B: Public IP addresses and custom IP address prefixes
- Topic C: Name resolution, public and private DNS zones
- Topic D: Virtual network peering and service chaining
- Topic E: User-defined routes, Route Server and NAT Gateway

02 Design and Implement Hybrid Networking

- Topic A: Site-to-site VPN, and designing it for high availability
- Topic B: Gateway SKUs, local network gateways and IPsec/IKE policy
- Topic C: Point-to-site VPN, tunnel types and authentication
- Topic D: Virtual WAN architecture and virtual hubs
- Topic E: Diagnosing and resolving gateway connectivity issues

03 Design and Implement Azure ExpressRoute

- Topic A: Connectivity models, SKUs and tiers
- Topic B: Private peering, Microsoft peering, or both
- Topic C: Global Reach, FastPath and ExpressRoute Direct
- Topic D: Gateways, route advertisement and encryption over ExpressRoute
- Topic E: Redundancy, cross-region connectivity and disaster recovery

04 Load Balance Non-HTTP(S) Traffic

- Topic A: Mapping requirements to Azure Load Balancer
- Topic B: SKU, tier, public or internal, regional or cross-region
- Topic C: Load balancing rules and health probes
- Topic D: Inbound NAT rules and explicit outbound rules with SNAT
- Topic E: Traffic Manager and Gateway Load Balancer

05 Load Balance HTTP(S) Traffic

- Topic A: Azure Application Gateway, and when it is the right answer
- Topic B: Backend pools, listeners, routing rules and HTTP settings
- Topic C: TLS configuration and rewrite rule sets
- Topic D: Azure Front Door: tiers, origins, endpoints and routing
- Topic E: Caching, traffic acceleration, URL rewrite and redirect

06 Design and Implement Network Security

- Topic A: Network security groups and application security groups
- Topic B: Inbound and outbound rules, and verifying IP flow
- Topic C: Azure Firewall, SKUs and deployment design
- Topic D: Firewall Manager policies and the secured virtual hub
- Topic E: Web application firewall on Front Door and Application Gateway

07 Private Access to Azure Services

- Topic A: Planning and creating private endpoints
- Topic B: Private Link services, and reaching them from on-premises
- Topic C: Integrating Private Link and private endpoints with DNS
- Topic D: Service endpoints, and when to use one instead
- Topic E: Service endpoint policies and access control

08 Design and Implement Network Monitoring

- Topic A: Network Watcher: diagnostics, logs and monitoring
- Topic B: Troubleshooting network health
- Topic C: Azure Monitor for networks
- Topic D: Virtual network flow logs, and reading them
- Topic E: DDoS protection, and acting on security recommendations

TERMS

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