WUVN

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE:	LÄNGE:	PREIS:

MCS_AZ-700T00 24 Hours (3 Tage) €1,790.00

Description

This course teaches Network Engineers how to design, implement, and maintain Azure networking solutions. This course covers the process of designing, implementing, and managing core Azure networking infrastructure, Hybrid Networking connections, load balancing traffic, network routing, private access to Azure services, network security and monitoring. Learn how to design and implement a secure, reliable, network infrastructure in Azure and how to establish hybrid connectivity, routing, private access to Azure services, and monitoring in Azure.

Zielgruppe

This course is for Network Engineers looking to specialize in Azure networking solutions. An Azure Network engineer designs and implements core Azure networking infrastructure, hybrid networking connections, load balance traffic, network routing, private access to Azure services, network security and monitoring. The azure network engineer will manage networking solutions for optimal performance, resiliency, scale, and security.

Voraussetzungen

Successful Azure Network Engineers start this role with experience in enterprise networking, on-premises or cloud infrastructure and network security.

Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.

Understanding of network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.

Understanding of software defined networking.

Understanding hybrid network connectivity methods, such as VPN.

Understanding resilience and disaster recovery, including high availability and restore operations.

Inhalt

Module 1: Azure Virtual Networks

In this module you will learn how to design and implement fundamental Azure Networking resources such as virtual networks, public and private IPs, DNS, virtual network peering, routing, and Azure Virtual NAT. Lessons

Azure Virtual Networks Public IP services public and private DNS cross-VNet connectivity Virtual Network Routing Azure virtual Network NAT Lab: Design and implement a Virtual Network in Azure Lab: Configure DNS settings in Azure Lab: Connect Virtual Networks with Peering After completing this module, students will be able to: Implement virtual networks Configure public IP services Configure private and public DNS zones Design and implement cross-VNET connectivity Implement virtual network routing Design and implement an Azure Virtual Network NAT Module 2: Design and Implement Hybrid Networking In this module you will learn how to design and implement hybrid networking solutions such as Site-to-Site VPN connections, Pointto-Site VPN connections, Azure Virtual WAN and Virtual WAN hubs. Lessons Site-to-site VPN connection Point-to-Site VP connections Azure Virtual WAN Lab: Create and configure a local gateway Create and configure a virtual network gateway Create a Virtual WAN by using Azure Portal Design and implement a site-to-site VPN connection Design and implement a point-to-site VPN connection Design and implement authentication Design and implement Azure Virtual WAN Resources Module 3: Design and implement Azure ExpressRoute In this module you will learn how to design and implement Azure ExpressRoute, ExpressRoute Global Reach, ExpressRoute FastPath and ExpressRoute Peering options. Lessons **ExpressRoute** ExpressRoute Direct ExpressRoute FastPath ExpressRoute Peering Lab: Create and configure ExpressRoute Design and implement Expressroute Design and implement Expressroute Direct Design and implement Expressroute FastPath Module 4: load balancing non-HTTP(S) traffic in Azure In this module you will learn how to design and implement load balancing solutions for non-HTTP(S) traffic in Azure with Azure Load balancer and Traffic Manager. Lessons Content Delivery and Load Blancing Azure Load balancer Azure Traffic Manager **Azure Monitor Network Watcher** Lab: Create and configure a public load balancer to load balance VMs using the Azure portal Lab: Create a Traffic Manager Profile using the Azure portal Lab: Create, view, and manage metric alerts in Azure Monitor Design and implement Azure Laod Balancers Design and implement Azure Traffic Manager Monitor Networks with Azure Monitor Use Network Watcher Module 5: Load balancing HTTP(S) traffic in Azure In this module you will learn how to design and implement load balancing solutions for HTTP(S) traffic in Azure with Azure Application gateway and Azure Front Door. Lessons Azure Application Gateway Azure Front Door Lab: Create a Front Door for a highly available web application using the Azure portal Lab: Create and Configure an Application Gateway Design and implement Azure Application Gateway Implement Azure Front Door Module 6: Design and implement network security

In this module you will learn to design and imponent network security solutions such as Azure DDoS, Azure Firewalls, Network Security Groups, and Web Application Firewall.

Lessons Azure DDoS Protection Azure Firewall Network Security Groups Web Application Firewall on Azure Front Door Lab: Create a Virtual Network with DDoS protection plan Lab: Deploy and Configure Azure Firewall Lab: Create a Web Application Firewall policy on Azure Front Door Configure and monitor an Azure DDoS protection plan implement and manage Azure Firewall Implement network security groups Implement a web application firewall (WAF) on Azure Front Door Module 7: Design and implement private access to Azure Services In this module you will learn to design and implement private access to Azure Services with Azure Private Link, and virtual network service endpoints. Lessons Define Azure Private Link and private endpoints Design and Configure Private Endpoints Integrate a Private Link with DNS and on-premises clients Create, configure, and provide access to Service Endpoints Configure VNET integration for App Service Lab: restrict network access to PaaS resources with virtual network service endpoints Lab: create an Azure private endpoint Define the difference between Private Link Service and private endpoints Design and configure private endpoints Explain virtual network service endpoints Design and configure access to service endpoints Integrate Private Link with DNS Integrate your App Service with Azure virtual networks

Kurstermine

Auf Anfrage. Bitte kontaktieren Sie uns

Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.