AZ-100
Microsoft Azure Infrastructure and Deployment

Exam number: AZ-100

Exam title: Microsoft Azure Infrastructure and Deployment

Publish date:

GUID:

Language(s) this exam will be available in:

Audience (IT professionals, Developers, Information workers, etc.):

Technology:

Credit type (example: MCSA)**:**

Exam provider (VUE, Certiport, or both)**:**

Exam Design

Audience Profile

Candidates for this exam are Azure Administrators who manage cloud services that span storage, security, networking, and compute cloud capabilities. Candidates have a deep understanding of each service across the full IT lifecycle, and take requests for infrastructure services, applications, and environments. They make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor, and adjust resources as appropriate.

Candidates for this exam should have proficiency in using PowerShell, ~~and~~ the Command Line Interface, ~~Candidates should have a basic familiarity or knowledge of~~ Azure Portal, ARM templates, operating systems, virtualization, cloud infrastructure, storage structures, and networking.

Skills measured

Note: This document shows tracked changes that are effective as of November 22, 2018.

<u>**Manage Azure subscriptions and resources**</u> **(15-20%)**

Manage Azure subscriptions

May include but not limited to: Assign administrator permissions; configure cost center quotas and tagging; configure <u>Azure</u> subscription policies <u>at Azure subscription level</u>

Analyze resource utilization and consumption

May include but not limited to: Configure diagnostic settings on resources; create baseline for resources; create and rest alerts; analyze alerts across subscription; analyze metrics across subscription; create action groups; monitor for unused resources; monitor spend; report on spend; utilize Log Search query functions; view alerts in Log Analytics

Manage resource groups

May include but not limited to: <u>Use Azure policies for</u> ~~Allocate~~ resource ~~policies~~<u>groups</u>; configure resource locks; configure resource policies; implement and set tagging on resource groups; move resources across resource groups; remove resource groups

<u>**Implement and manage storage**</u> **(20-25%)**

Create and configure storage accounts

May include but not limited to: Configure network access to the storage account; create and configure storage account; generate shared access signature; install and use Azure Storage Explorer; manage access keys; monitor activity log by using Log Analytics; implement Azure storage replication

Import and export data to Azure

May include but not limited to: Create export from Azure job; create import into Azure job; <u>Use Azure Data Box;</u> configure and use Azure blob storage; configure Azure content delivery network (CDN) endpoints

Configure Azure files

May include but not limited to: Create Azure file share; create Azure File Sync service; create Azure sync group; troubleshoot Azure File Sync

Implement Azure backup

May include but not limited to: Configure and review backup reports; perform backup operation;

create Recovery Services Vault; create and configure backup policy; perform a restore operation

Deploy and manage virtual machines (VMs) (20-25%)

Create and configure a VM for Windows and Linux
May include but not limited to: Configure high availability; configure monitoring, networking, storage, and virtual machine size; deploy and configure scale sets

Automate deployment of VMs
May include but not limited to: Modify Azure Resource Manager (ARM) template; configure location of new VMs; configure VHD template; deploy from template; save a deployment as an ARM template; deploy Windows and Linux VMs

Manage Azure VM
May include but not limited to: Add data discs; add network interfaces; automate configuration management by using PowerShell Desired State Configuration (DSC) and VM Agent by using custom script extensions; manage VM sizes; move VMs from one resource group to another; redeploy VMs

Manage VM backups
May include but not limited to: Configure VM backup; define backup policies; implement backup policies; perform VM restore

Configure and manage virtual networks (20-25%)

Create connectivity between virtual networks
May include but not limited to: Create and configure VNET peering; create and configure VNET to VNET; verify virtual network connectivity; create virtual network gateway

Implement and manage virtual networking
May include but not limited to: Configure private and public IP addresses, network routes, network interface, subnets, and virtual network

Configure name resolution
May include but not limited to: Configure Azure DNS; configure custom DNS settings; configure private and public DNS zones

Create and configure a Network Security Group (NSG)
May include but not limited to: Create security rules; associate NSG to a subnet or network interface; identify required ports; evaluate effective security rules

Manage identities (15-20%)

Manage Azure Active Directory (AD)
May include but not limited to: Add custom domains; configure Azure AD Identity Protection, Azure AD Join, and Enterprise State Roaming; configure self-service password reset; implement conditional access policies; manage multiple directories; perform an access review

Manage Azure AD objects (users, groups, and devices)

May include but not limited to: Create users and groups; manage user and group properties; manage device settings; perform bulk user updates

Implement and manage hybrid identities

May include but not limited to: Install and configure Azure AD Connect; configure federation and single sign-on; manage Azure AD Connect; manage password sync and writeback