

50 QUESTION PRACTICE TEST - Results

Return to review

Chart

Pie chart with 4 slices.

End of interactive chart.

Attempt 1

All knowledge areas

All questions

Question 1: **Correct**

What are Azure Availability Zones?

- ☐

A folder structure in Azure in which you organize resources like databases, virtual machines, virtual networks, or almost any resource

- ☐

This is the same as a region

- ☒

A feature of Azure that allows you to manually specify into which data center your virtual machines are placed, which allows you to achieve higher availability than any other option.

(Correct)

- ☐

Within each individual data center, certain racks of servers have been architected by Azure to have higher uptime than the others. If you place your apps onto this rack, you'll get higher uptime than if you let Azure do it.

Explanation

Availability Zones - Unique physical locations within an Azure region, made up of one or more data centers; there is a minimum of three zones in each region; you can manually place your resources in an availability zone for highest availability
For more info: https://docs.microsoft.com/en-us/azure/availability-zones/az-overview

Question 2: **Correct**

Which of the following elements is considered part of the **perimeter** layer of security?

☐

Keep operating systems up to date with patches

☒

Use a firewall

(Correct)

☐

Separate servers into distinct subnets by role

☐

Locks on the data center doors

Explanation

Firewall is part of the perimeter security

Question 3: **Correct**

True or false: You cannot have more than one Azure subscription per company

☒

FALSE

(Correct)

☐

TRUE

Explanation

You can have multiple subscriptions, as a way to separate out resources between billing units, business groups, or for any reason you wish.
For more info: <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/azure-best-practices/scale-subscriptions>

Question 4: **Correct**

With Azure public cloud, anyone with a valid credit card can sign up and get services immediately (subject to the usual country restrictions of course)

☐

FALSE

☒

TRUE

(Correct)

Explanation

Yes, Azure public cloud is open to the public in all countries that Azure supports. For more info: <https://azure.microsoft.com/en-gb/overview/what-is-a-public-cloud/>

Question 5: **Correct**

What is the fastest connection type between your on-premises network and Microsoft Azure, if money was not a concern?

☐

Point-to-Site VPN

☒

Express Route

(Correct)

☐

Site-to-Site VPN

☐

Private Link

Explanation

Express Route is a private connection from your data center to a Microsoft Azure partner, which has a direct fiberoptic connection into Azure. If you're looking for reliable, high-speed connections into Azure, you should be looking at Express Route.

Question 6: **Correct**

What benefit does Azure Scalesets provide when it comes to virtual machines in Azure?

☐

Allows you to monitor VM capacity and send alerts to the operations team.

☐

Physically separates virtual machines so that if one goes down, the others do not go down.

☒

Can manage groups of virtual machines as one unit.

(Correct)

☐

Keeps virtual machines close together, for the fastest communication between them.

Explanation

Scalesets are groups of virtual machines, managed as a single unit. You can set rules for scaling up or scaling down.
For more info: https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/overview

Question 7: **Correct**

True or False: An Azure Storage Account can have both a public endpoint and a private endpoint at the same time.

☐

FALSE

☒

TRUE

(Correct)

Explanation

The public endpoint can be enabled, restricted to certain networks or disabled. Multiple private endpoints can be created. There is no restriction preventing you from having both a public endpoint accessible from the Internet and one or more private endpoints as well.

Question 8: **Correct**

Which Azure technology allows you to log in to Azure Active Directory device or application using your face, a PIN code, or a gesture instead of having to type a password?

☐

Multi-Factor Authentication

☐

AD Conditional Access

☒

Passwordless

(Correct)

☐

Microsoft Defender for Cloud

Explanation

Passwordless authentication makes it easier to log into your Azure AD accounts using your face, a PIN, or a gesture instead of having to remember a password. This increases convenience without reducing security. It does this because you've logged into that device before, and it remembers you. One of the downsides to additional security measures (like Multi-factor authentication) is that it reduces convenience in order to increase security.

Question 9: **Correct**

Which Azure Service gives you access to your own personalized Windows 10 or 11 desktop machine in the cloud, so that you can access your work files and applications wherever you go from any device?

☐

Private Link

- ☒

Azure Virtual Desktop

(Correct)

- ☐

Azure App Services

- ☐

Virtual Private Network

Explanation

Azure Virtual Desktop lets you access a Windows 10 or Windows 11 virtual desktop using any device. You can get access to your work files and applications from a Windows device, Mac, iOS, Android or HTML5.

Question 10: **Correct**

What types of resources are defined as **compute resources?**

- ☐

Only Virtual Machines

- ☒

Resources that perform some type of task that requires CPU cycles to perform the work

(Correct)

- ☐

All resources that are listed in the Azure Marketplace

Explanation

Compute Services - a category of services in Azure that provides CPU cycles for rent. Virtual Machines are only one type of compute resource. The Marketplace contains many types of resources, not just compute.
For more info: https://azure.microsoft.com/en-us/product-categories/compute/

Question 11: **Correct**

Which of the following are factors in Total Cost of Ownership? Choose all that apply.

- ☒

Real estate costs

(Correct)

- ☒

Cost of electricity

(Correct)

- ☒

Cost to access the Internet

(Correct)

- ☒

Salary costs of employees managing the servers

(Correct)

Explanation

All of the above. The total cost of running a server includes not only the cost of the machine (hardware), and the software, but also the costs of hosting that machine including electricity, real estate, Internet, and salaries of the employees needed to manage the machine.

Question 12: **Incorrect**

How many availability zones are there in each region (for regions that have them)?

- ☐

1

- ☐

Unlimited

• ☒

2

(Incorrect)

• ☐

3

(Correct)

Explanation

For regions that support availability zones, you can deploy your resources to zone 1, 2 or 3. There are 3 zones in each region.

Question 13: **Incorrect**

Which of the following Azure Resources are required in order to have a virtual machine? Only choose services that are required, not ones that are optional.

• ☒

Virtual Network

(Correct)

• ☒

Network Interface Card (NIC)

(Correct)

• ☐

Public IP Address

• ☐

Storage Account

(Correct)

Explanation

A virtual machine needs a network card, storage and a virtual network. It does not need a public IP address. In fact, most Azure VMs are private and are not accessible from the Internet.

Question 14: **Correct**

Which of the following services would NOT be considered Infrastructure as a Service?

- ☐ Virtual Machine
- ☒ Azure Functions App
(Correct)
- ☐ Virtual Network
- ☐ Virtual Network Interface Card (NIC)

Explanation

Functions are small pieces of code that you give to Azure to run for you, and you have no access to the underlying infrastructure.
For more info: <https://azure.microsoft.com/en-us/overview/what-is-iaas/>

Question 15: **Correct**

Which of the following are examples of Azure Sovereign Regions?

- ☐ Azure Brazil
- ☐ Azure South Africa
- ☒ Azure US Government

(Correct)

- ☒

Azure China

(Correct)

Explanation

Azure Sovereign Regions are dedicated to specific sovereign entities. They are separate from the main Azure Public Cloud network, and have specific region-level restrictions on them. Azure Australia is also an example of a sovereign region in that it's dedicated to government customers.
For more info: https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/migrate/azure-best-practices/multiple-regions

Question 16: **Incorrect**

What is Single Sign-On?

- ☐

The ability to log in once and use the existing userid and password to sign in other applications, and not have to create/memorize a new one.

(Correct)

- ☐

When you sign into an application, it remembers who you are the next time you go there.

- ☐

When an application outsources (federates) it's identity service to a third-party platform

(Incorrect)

Explanation

Single-Sign On - the ability to use the same user id and password to log into every application that your company has; enabled by Azure AD
For more info: https://docs.microsoft.com/en-us/azure/active-directory/manage-apps/what-is-single-sign-on

Question 17: **Correct**

True or false: Azure charges for bandwidth used **inbound** to Azure

☐ TRUE

☒ FALSE

(Correct)

Explanation

Ingress bandwidth is free. You pay for egress (outbound).
For more info: <https://azure.microsoft.com/en-us/pricing/details/bandwidth/>

Question 18: **Correct**

What Azure resource allows you to evenly split traffic coming in and direct it to several identical virtual machines to do the work and respond to the request?

☐ Azure Logic Apps

☒ Load Balancer or Application Gateway
(Correct)

☐ Virtual Network

☐ Azure App Services

Explanation

This is the core feature of either a Load Balancer or Application Gateway
For more info: <https://docs.microsoft.com/en-us/azure/architecture/guide/technology->

choices/load-balancing-overview'><https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/load-balancing-overview>

Question 19: **Incorrect**

What is the purpose of Azure Blueprints?

- ☐
A standard created specifically for building architects and the housing industry working within the cloud.
- ☒
Allows you to create new resources based on a pre-defined template for consistency and fewer errors.
- ☐
Allows you to manage a group of existing subscriptions in a nested fashion.
- ☐
Allows you to create new subscriptions that already have policies, roles, resource groups, and ARM templates.

(Correct)

Explanation

Azure Blueprints allows you to create a "template" on which new subscriptions can be made. This way, new subscriptions can come with a pre-defined list of policies, ARM templates, and custom RBAC roles. This way, a subscription follows a company standard each time.

Question 20: **Incorrect**

Why is Azure App Services considered Platform as a Service?

- ☐
You can decide on what type of virtual machine it runs - A-series, or D-series, or even H-series
- ☐

You give Azure the code and the configuration, and you have no access to the underlying hardware

(Correct)



You are responsible for keeping the operating system up to date with the latest patches



Azure App Services is not PaaS. It is Software as a Service.

(Incorrect)

Explanation

PaaS - You give Azure the code and the configuration, and you have no access to the underlying hardware
For more info: <https://azure.microsoft.com/en-us/overview/what-is-paas/>

Question 21: **Incorrect**

Which Azure AD licenses (select two) are made available through Azure?



Basic

(Incorrect)



Office 365

(Correct)



Azure Active Directory Free

(Correct)



Business Tier 1

- 

Enterprise Tier 2

Explanation

Azure Active Directory provides the following licenses: Free, Office 365, Premium P1, and Premium P2. For more info: <https://www.microsoft.com/en-us/security/business/identity-access-management/azure-ad-pricing> Azure Active Directory Pricing | Microsoft Security

Question 22: **Correct**

What benefit does Availability Sets provide when it comes to virtual machines in Azure?

- ☐

Can manage groups of virtual machines as one unit.

- ☒

Physically and logically separates virtual machines so that if one goes down, the others do not go down.

(Correct)

- ☐

Keeps virtual machines close together, for the fastest communication between them.

- ☐

Allows you to monitor VM capacity and send alerts to the operations team.

Explanation

Availability Sets allow you to tell Azure which virtual machines are identical, so that Azure will keep them apart physically inside the datacenter. This helps when there are either expected or unexpected downtime, by increasing the chances that one issue does not affect all VMs in a single Availability Set.

Question 23: **Correct**

What is a core principle of Zero Trust?

- ☐
Require users to log in every session
- ☐
Don't store credit cards and other critical data in the cloud
- ☒
Assume your network has been breached already
(Correct)
- ☐
Require users to change their passwords frequently

Explanation

Assume your network has been breached already. This forces you to take a defensive posture even behind the firewall. All communications must be encrypted. All communications must be authenticated. Never assume any request made from a client to a server is authentic. Validate everything.

Question 24: **Incorrect**

Which of the following scenarios would Azure Policy be a recommended method for enforcement?

- ☐
Require a virtual machine to always update to the latest security patches
- ☐
Prevent certain Azure Virtual Machine instance types from being used in a resource group
(Correct)
- ☐
Add an additional prompt when creating a resource without a specific tag to ask the user if they are really sure they want to continue?

- ☒

Allow only one specific roles of users to have access to a resource group

(Incorrect)

Explanation

Azure Policy can add restrictions on storage account SKUs, virtual machine instance types, and rules relating to tagging of resources and groups. It cannot prompt a user to ask them if they are sure.

Question 25: **Correct**

It can be said that most services in Azure have a public endpoint by default. What is a public endpoint?

- ☐

Provides you a static IP address from which your application always uses to communicate with the outside world.

- ☐

Provides you a static IP address for which the outside world can use to communicate with your application.

- ☐

Blocks access to your applications and data from inside Azure.

- ☒

Enables access to your data or application from outside the virtual network.

(Correct)

Explanation

A public endpoint is effectively a URL that you can use to access data and applications from outside a virtual network. This includes the public Internet. Applications inside Azure can also access this using the public endpoint. Of course, there is often additional security on the application or data to prevent malicious use of this endpoint.

Question 26: **Correct**

What Azure tool gives you the ability to manage multiple subscriptions into nested hierarchies?

• ☒

Management Groups

(Correct)

• ☐

RBAC

• ☐

Resource Groups

• ☐

Azure Active Directory

Explanation

Management Groups - a hierarchy of subscriptions; can have many subscriptions, and group them, and put those groups into other groups
For more info: https://docs.microsoft.com/en-us/azure/governance/management-groups/overview

Question 27: **Correct**

True or false: you can create your own policies if built-in Azure Policy is not sufficient to your needs

• ☐

FALSE

• ☒

TRUE

(Correct)

Explanation

True, you can create custom policies using JSON
For more info: https://docs.microsoft.com/en-us/azure/governance/policy/overview

Question 28: **Correct**

What type of documents does the Microsoft Service Trust Portal provide?

- ☐ Documentation on the individual Azure services and solutions
- ☐ A tool that helps you manage your compliance to various standards
- ☐ Specific recommendations about your usage of Azure and ways you can improve
- ☒ A list of standards that Microsoft follows, pen test results, security assessments, white papers, faqs, and other documents that can be used to show Microsoft's compliance efforts

(Correct)

Explanation

A list of standards that Microsoft follows, pen test results, security assessments, white papers, faqs, and other documents that can be used to show Microsoft's compliance efforts
For more info: <https://servicetrust.microsoft.com/>

Question 29: **Correct**

What feature of a system makes it elastic?

- ☒ The ability of it to add and reduce capacity based on actual demand
- ☐ The ability of it to stay up (available) while updates are being made to the system

(Correct)

- ☐

The ability to withstand denial of service attacks

- ☐

The ability to heal itself after a crash

Explanation

Elasticity - the ability of a system to automatically grow when maximum capacity is reached, and automatically shrink to minimize waste
For more info: <https://azure.microsoft.com/en-us/overview/what-is-elastic-computing/>

Question 30: **Correct**

Why would someone prefer a Consumption-based pricing model as opposed to a Time-based (Fixed) pricing model?

- ☐

The pricing model is simpler and easier to understand

- ☐

It is always cheaper to pay for consumption than to pay by the hour

- ☒

You can save a lot of money if you don't use the resource often as opposed to having it available for use 24/7

(Correct)

- ☐

You can easily predict the cost of the service into the future

Explanation

Consumption-Based Model - paying for something based on how much you used, as opposed to paying for something no matter if you use it or not.
For more info: <https://docs.microsoft.com/en-us/azure/architecture/framework/cost/design-price>

Question 31: **Incorrect**

Which Azure technology allows you to manage virtual machines running in Azure, in your own environment, and in other environments such as AWS?

- ☐ Azure Kubernetes Service
- ☒ Azure Virtual Desktop
- ☐ Azure Monitor
- ☐ Azure Arc

(Incorrect)

(Correct)

Explanation

Azure Arc is a set of services that allow you to manage non-Azure resources as if they were in Azure. You can see their status, and interact with them in Azure.

Question 32: **Correct**

What does ARM an abbreviation for in Azure?

- ☐ Advanced RISC Machine
- ☐ Account Resource Manager
- ☐ Availability, Reliability, Maintainability
- ☒ ARM is an abbreviation for Azure Resource Manager

Azure Resource Manager

(Correct)

Explanation

Azure Resource Manager (ARM) - this is the common resource deployment model that underlies all resource creation or modification; no matter whether you use the portal, PowerShell or the SDK, the Azure Resource Manager takes those commands and executes them
For more info: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

Question 33: **Correct**

What are the two features that Azure AD provides? Choose two.

- ☐

Logs Analytics

- ☒

Authentication

(Correct)

- ☐

Azure DDoS Protection

- ☒

Application management

(Correct)

- ☐

Logic Apps

- ☐

Functions

Explanation

Azure AD provides many features, but only the two are listed.
Reference: https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-what-is

Question 34: **Correct**

Which tool within the Azure Portal will make specific recommendations based on your actual usage for how you can improve your use of Azure?

☒

Azure Advisor

(Correct)

☐

Azure Service Health

☐

Azure Dashboard

☐

Azure Monitor

Explanation

Azure Advisor - a tool that will analyze your use of Azure and make you specific recommendations based on your usage across availability, security, performance and cost categories
For more info: https://docs.microsoft.com/en-us/azure/advisor/

Question 35: **Incorrect**

What is Azure's preferred Identity/authentication service?

☒

Live Connect

(Incorrect)

☐

Azure Active Directory

(Correct)

- ☐

Network Security Group

- ☐

Facebook Connect

Explanation

Azure Active Directory (Azure AD) - Microsoft's preferred Identity as a Service solution
For more info: https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-what-is

Question 36: **Correct**

Which of the following elements is considered part of the network layer of network security?

- ☐

Locks on the data center doors

- ☐

Use a firewall

- ☒

Separate servers into distinct subnets by role

(Correct)

- ☐

Keep operating systems up to date with patches

Explanation

Subnets is part of network security
For more info:

overview'><https://docs.microsoft.com/en-us/azure/security/fundamentals/network-overview>

Question 37: **Correct**

What are Resource Groups in Azure?

- ☒

A folder structure in Azure in which you organize resources like databases, virtual machines, virtual networks, or almost any resource

(Correct)

- ☐

Within the Azure security model, users are organized into groups, and those groups are granted permissions to resources

- ☐

Automatically assigned groups of resources that all have the same type (virtual machine, app service, etc)

- ☐

Based on the tag assigned to a resource by the deployment script, it is assigned to a group

Explanation

Resource Groups - a folder structure in Azure in which you organize resources like databases, virtual machines, virtual networks, or almost any resource
For more info:

https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview#resource-groups

Question 38: **Correct**

True or false: Azure Powershell scripts and Command Line Interface (CLI) scripts are entirely compatible with each other?

- ☒

FALSE

(Correct)



TRUE

Explanation

No, PowerShell is its own language, different than CLI
For more info: <https://devblogs.microsoft.com/premier-developer/choosing-the-right-tooling-for-azure-and-side-by-side-azure-cli-and-powershell-commands/>

Question 39: **Incorrect**

Which feature within Azure collects all of the logs from various resources into a central dashboard, where you can run queries, view graphs, and create alerts on certain events?



Azure Portal Dashboard

(Incorrect)



Storage Account or Event Hub



Azure Security Center



Azure Monitor

(Correct)

Explanation

Azure Monitor - a centralized dashboard that collects all the logs, metrics and events from your resources
For more info: <https://docs.microsoft.com/en-us/azure/azure-monitor/overview>

Question 40: **Incorrect**

True or false: Azure Active Directory is a network gateway that load balances user logins using a CDN (Content Delivery Network).

•



FALSE

(Correct)

•



TRUE

(Incorrect)

Explanation

No, Azure Active Directory is an enterprise identity service that provides single sign-on and multi-factor authentication.
For more info: https://azure.microsoft.com/en-us/services/active-directory/

Question 41: **Correct**

Which feature within Azure alerts you to service issues that happen in Azure itself, not specifically related to your own resources?

•



Azure Service Health

(Correct)

•



Azure Security Center

•



Azure Monitor

•



Azure Portal Dashboard

Explanation

Azure Service Health - lets you know about any Azure-related service issues including region-wide downtime
For more info: <a href='https://docs.microsoft.com/en-

us/azure/service-health/overview'><https://docs.microsoft.com/en-us/azure/service-health/overview>

Question 42: **Correct**

True or false: Azure Cloud Shell allows access to the CLI and Powershell consoles in the Azure Portal

☒

TRUE

(Correct)

☐

FALSE

Explanation

Cloud Shell - allows access to the CLI and Powershell consoles in the Azure Portal
For more info: <https://docs.microsoft.com/en-us/azure/cloud-shell/overview>

Question 43: **Correct**

What is the benefit of economies of scale?

☐

Big companies don't need to make a profit on the first product they sell you, because they will on the second

☒

The more you buy of something, the cheaper it is for you

(Correct)

☐

Big companies don't need to make a profit on every sale

☐

Prices of cloud servers and services are always going down. It'll be cheaper next year than it is this year.

Explanation

Economies of scale - the more you buy something, the cheaper it is per unit to buy
For more info: <https://www.microsoft.com/en-us/microsoft-365/business-insights-ideas/resources/how-economies-of-scale-affect-small-businesses>

Question 44: **Incorrect**

Which storage redundancy option is the cheapest?

☐

RA-GRS

☐

GRS

☒

ZRS

(Incorrect)

☐

LRS

(Correct)

Explanation

LRS (Locally Redundant Storage) has the lowest price of all the options.

Question 45: **Correct**

Which of the following is the best approach when you need to copy large amount of files between two Azure Storage accounts?

☐

Use Azure API programmatically

☐

Storage Explorer

- ☐

Download the files to your local machine and upload them to the new account

- ☒

AzCopy

(Correct)

Explanation

AzCopy allows you to copy files between two Azure Storage accounts without having to download the files to your local machine. The other options are slower, and more expensive.

Question 46: **Incorrect**

What affect does using a "read only" resource lock on a Azure Storage Account have?

- ☒

Only admin users can update the contents of the storage account.

(Incorrect)

- ☐

The storage account cannot have its properties altered but it doesn't affect the data itself.

(Correct)

- ☐

The data on the storage account cannot change.

- ☐

A resource lock has no affect on a storage account.

Explanation

Resource Locks only affect your ability to make changes to a resource within Azure but do not affect the resource itself. For instance, a resource lock on a virtual machine still allows the VM to operate but will prevent someone from restarting a VM. Similarly, a resource lock on a storage account only affects the Azure properties of the account.

Question 47: **Correct**

How does Multi-Factor Authentication make a system more secure?

- ☐ It is another password that a user has to memorize, making it more secure
- ☒ It requires the user to have access to an additional device for identity verification
- (Correct)**
- ☐ It doesn't make it more secure
- ☐ It allows the user to log in without a password because they have already previously been validated using a browser cookie

Explanation

Multi-Factor Authentication (MFA) - the concept of having something additional to a password" that is required to log in; passwords are findable or guessable; but having your mobile phone on you to receive a phone call, text or run an app to get a code is harder for a unknown hacker to getFor more info: https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-mfa-howitworks"

Question 48: **Correct**

What operating systems does Microsoft supply Azure Virtual Machine images for?

- ☐ macOS
- ☐ Windows, Linux and macOS
- ☐

Linux

☒

Windows

☒

Windows and Linux

(Correct)

Explanation

Azure Virtual Machines support Windows and Linux
For more info: https://azure.microsoft.com/en-ca/services/virtual-machines/

Question 49: **Correct**

True or False: Azure is a public cloud, and has no private cloud offerings

☒

FALSE

(Correct)

☐

TRUE

Explanation

Some aspects of Azure are not open to the public and require a private agreement with Microsoft such as Azure Government and DoD services
For more info: https://azure.microsoft.com/en-us/overview/what-are-private-public-hybrid-clouds/

Question 50: **Correct**

True or False: Under the Infrastructure as a Service model, Azure is responsible for managing the physical host, physical network, and physical datacenter.

☒

TRUE

(Correct)



FALSE

Explanation

Yes, Azure still manages the hardware itself, the hypervisor and all of the physical elements behind the scenes
For more info: <https://docs.microsoft.com/en-us/azure/security/fundamentals/shared-responsibility>