

AZ-900

Real Exam Questions & Answers

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Question 81

CertyIQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
An Azure subscription can have multiple account administrators	<input type="radio"/>	<input checked="" type="radio"/>
An Azure subscription can be managed by using a Microsoft account only	<input type="radio"/>	<input checked="" type="radio"/>
An Azure resource group can contain multiple Azure subscriptions	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Box 1: No -

A subscription can have multiple administrators, but there can only be one account administrator.

Box 2: No -

You need an Azure Active Directory account to manage a subscription, not a Microsoft account.

Box 3: No - Subscription contains resource group not vice-versa.

A subscription can contain multiple resource groups but a resource group can only belong to one subscription. Resource groups can contain multiple resources

Question 82

CertyIQ

This question requires that you evaluate the underlined text to determine if it is correct.

An Azure region contains one or more data centers that are connected by using a low-latency network.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed

B. Is found in each country where Microsoft has a subsidiary office

C. Can be found in every country in Europe and the Americas only

D. Contains one or more data centres that are connected by using a high-latency network

Explanation:

A region is a set of data centres deployed within a latency-defined perimeter and connected through a dedicated regional low-latency network.

Microsoft Azure currently has 55 regions worldwide.

Regions are divided into Availability Zones. Availability Zones are physically separate locations within an Azure region. Each Availability Zone is made up of one or more datacentres equipped with independent power, cooling, and networking.

References: <https://azure.microsoft.com/en-gb/global-infrastructure/regions/>

Question 83

CertyIQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
To use Azure Active Directory (Azure AD) credentials to sign in to a computer that runs Windows 10, the computer must be joined to Azure AD.	<input checked="" type="radio"/>	<input type="radio"/>
Users in Azure Active Directory (Azure AD) are organized by using resource groups.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Active Directory (Azure AD) groups support dynamic membership rules.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/enterprise-users/groups-dynamic-membership>

<https://petri.com/understanding-hybrid-azure-active-directory-join>

Question 84

CertyIQ

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on the **virtual machines remain available if a single data center fails**.

What are two possible solutions? Each correct answer presents a complete solution.

A. Deploy the virtual machines to two or more availability zones.

B. Deploy the virtual machines to two or more resource groups.

C. Deploy the virtual machines to a scale set.

D. Deploy the virtual machines to two or more regions.

Explanation:

Deploying VM's in two or more Regions is the same as deploying in two or more Availability Zones. A & D.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/availability>

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/regions>

Question 85

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1. You sign in to the Azure portal and create a resource group named RG1.

From Azure documentation, you have the following command that creates a virtual machine named VM1. **az vm create --resource-group RG1 --name VM1 --image UbuntuLTS --generate-ssh-keys**

You need to create VM1 in Subscription1 by using the command.

Solution: From the Azure portal, launch Azure Cloud Shell and select Bash. Run the command in Cloud Shell.

Does this meet the goal?

A. Yes

B. No

Explanation:

The command can be run in the Azure Cloud Shell.

The Azure Cloud Shell is a free interactive shell. It has common Azure tools preinstalled and configured to use with your account.

To open the Cloud Shell, just select Try it from the upper right corner of a code block. You can also launch Cloud Shell in a separate browser tab by going to <https://shell.azure.com/bash>.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/quick-create-cli>

Question 86

CertyIQ

Your company has several business units.

Each business unit requires 20 different Azure resources for daily operation. All the business units require the same type of Azure resources.

You need to recommend a solution to **automate the creation of the Azure resources**.

What should you include in the recommendations?

A. Azure Resource Manager templates

B. virtual machine scale sets

C. the Azure API Management service

D. management groups

Explanation:

You can use Azure Resource Manager templates to automate the creation of the Azure resources. Deploying resource through templates is known as 'Infrastructure as code'.

To implement infrastructure as code for your Azure solutions, use Azure Resource Manager templates. The template is a JavaScript Object Notation (JSON) file that defines the infrastructure and configuration for your project. The template uses declarative syntax, which lets you state what you intend to deploy without having to write the sequence of programming commands to create it. In the template, you specify the resources to deploy and the properties for those resources.

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/overview>

Question 87

CertyIQ

DRAG DROP -

Match the Azure service to the correct definition.

Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right.

Each service may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

Answer Options		Answer Area	
Correct Answer:	Azure Databricks	Azure Functions	Provides the platform for serverless code
	Azure Functions	Azure Databricks	A big data analysis service for machine learning
	Azure App Service	Azure Application Insights	Detects and diagnoses anomalies in web apps
	Azure Application Insights	Azure App Service	Hosts web apps

Explanation:

Serverless → Functions

big data analysis → Databricks

anomalies → Insights

Host → App Service

Question 88

CertyIQ

A team of **developers** at your company plans to deploy, and then remove, 50 customized virtual machines each week. Thirty of the virtual machines run Windows

Server 2016 and 20 of the virtual machines run Ubuntu Linux.

You need to recommend which Azure service will minimize the administrative effort required to deploy and remove the virtual machines.

What should you recommend?

- A. Azure Reserved Virtual Machines (VM) Instances
- B. Azure virtual machine scale sets
- C. Azure DevTest Labs**
- D. Microsoft Managed Desktop

Explanation:

Keyword here is developer

DevTest Labs creates labs consisting of pre-configured bases or Azure Resource Manager templates.

By using DevTest Labs, you can test the latest versions of your applications by doing the following tasks:

- ⇒ Quickly provision Windows and Linux environments by using reusable templates and artifacts.
- ⇒ Easily integrate your deployment pipeline with DevTest Labs to provision on-demand environments.
- ⇒ Scale up your load testing by provisioning multiple test agents and create pre-provisioned environments for training and demos.

Reference:

<https://docs.microsoft.com/en-us/azure/lab-services/devtest-lab-overview>

Question 89

CertyIQ

A support engineer plans to perform several Azure management tasks by using the Azure CLI.

You install the CLI on a computer.

You need to tell the support engineer **which tools to use to run the CLI**.

Which two tools should you instruct the support engineer to use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Command Prompt

B. Azure Resource Explorer

C. Windows PowerShell

D. Windows Defender Firewall

E. Network and Sharing Center

Explanation:

For Windows the Azure CLI is installed via an MSI, which gives you access to the CLI through the Windows Command Prompt (CMD) or PowerShell.

References:

<https://docs.microsoft.com/en-us/cli/azure/install-azure-cli-windows?view=azure-cli-latest>

Question 90

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure environment. **You need to create a new Azure virtual machine from a tablet that runs the Android operating system.**

Solution: **You use PowerShell in Azure Cloud Shell.**

Does this meet the goal?

A. Yes

B. No

Explanation:

Azure Cloud Shell is a browser-based shell experience to manage and develop Azure resources.

Cloud Shell offers a browser-accessible, pre-configured shell experience for managing Azure resources without the overhead of installing, versioning, and maintaining a machine yourself.

Being browser-based, Azure Cloud Shell can be run on a browser from a tablet that runs the Android operating system.

References:

<https://docs.microsoft.com/en-us/azure/cloud-shell/features>

Question 91

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure environment. **You need to create a new Azure virtual machine from a tablet that runs the Android operating system.**

Solution: You use the **PowerApps** portal.

Does this meet the goal?

A. Yes

B. No

Explanation:

PowerApps lets you quickly build business applications with little or no code. **It is not used to create Azure virtual machines.** Therefore, this solution does not meet the goal.

PowerApps Portals allow organizations to create websites which can be shared with users external to their organization either anonymously or through the login provider of their choice like LinkedIn, Microsoft Account, other commercial login providers.

References:

<https://powerapps.microsoft.com/en-us/blog/introducing-powerapps-portals-powerful-low-code-websites-for-external-users/>

Question 92

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure environment. **You need to create a new Azure virtual machine from a tablet that runs the Android operating system.**

Solution: You use the **Azure portal**.

Does this meet the goal?

A. Yes

B. No

Explanation:

Azure portal can be run on a browser from a tablet that runs the Android operating system. The Azure portal is a web-based, unified console that provides an alternative to command-line tools. With the Azure portal, you can manage your

Azure subscription using a graphical user interface. You can build, manage, and monitor everything from simple web apps to complex cloud deployments. Create custom dashboards for an organized view of resources. Configure accessibility options for an optimal experience.

References:

<https://docs.microsoft.com/en-us/azure/azure-portal/azure-portal-overview>

Question 93

CertyIQ

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

Answer Area

	▼
Azure Databricks	
Azure Data Factory	
Azure DevOps	
Azure HDInsight	

is an Apache Spark-based analytics service.

Explanation:

Clue: Analytics/ Big Data

"Azure Databricks is a "first party" Microsoft service, the result of a unique year-long collaboration between the Microsoft and Databricks teams to provide Databricks' Apache Spark-based analytics service as an integral part of the Microsoft Azure platform." "Azure HDInsight is a managed, full-spectrum, open-source analytics service in the cloud for enterprises. You can use open-source frameworks such as Hadoop, Apache Spark, Apache Hive, LLAP, Apache Kafka, Apache Storm, R, and more." **The answer will be "Databricks" because it is only based on Spark;** HDInsight supports many more frameworks in addition to Spark.

Azure Databricks is an Apache Spark-based analytics platform. The platform consists of several components including 'MLib'. Mlib is a Machine Learning library consisting of common learning algorithms and utilities, including classification, regression, clustering, collaborative filtering, dimensionality reduction, as well as underlying optimization primitives.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-databricks/what-is-azure-databricks#apache-spark-based-analytics-platform>

Question 94

CertyIQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure Monitor can monitor the performance of on-premises computers.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Monitor can send alerts to Azure Active Directory security groups.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Monitor can trigger alerts based on data in an Azure Log Analytics workspace.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

" First answer is YES: <https://docs.microsoft.com/en-us/azure/azure-monitor/overview>

Second answer is NO. Azure Monitor cannot send alerts (email) to Azure AD security group but only to Azure AD user: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/action-groups>.

Third answer is YES: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-overview>

Question 95

CertyIQ

Which Azure service provides a set of version control tools to manage code?

- A. Azure Repos
- B. Azure DevTest Labs
- C. Azure Storage
- D. Azure Cosmos DB

Explanation:

" Azure Repos is a set of version control tools that you can use to manage your code.

Incorrect Answers:

B: Azure DevTest Labs creates labs consisting of pre-configured bases or Azure Resource Manager templates. These have all the necessary tools and software that you can use to create environments.

D: Azure Cosmos DB is Microsoft's globally distributed, multi-model database service.

References:

<https://docs.microsoft.com/en-us/azure/devops/repos/get-started/what-is-repos?view=azure-devops>

Question 96

CertyIQ

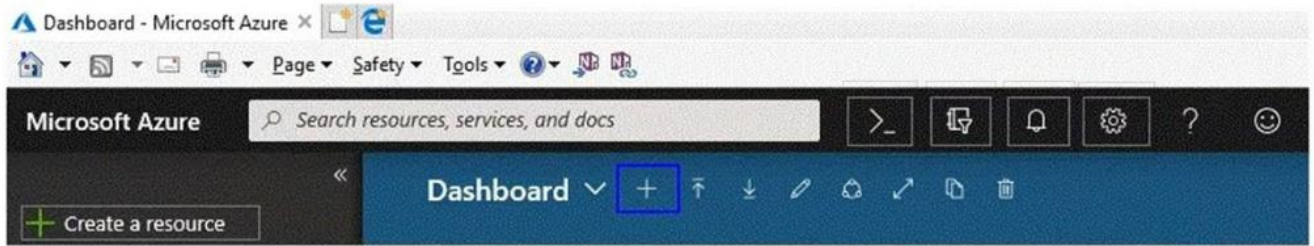
HOTSPOT -

You need to manage Azure by using Azure Cloud Shell.

Which Azure portal icon should you select? To answer, select the appropriate icon in the answer area.

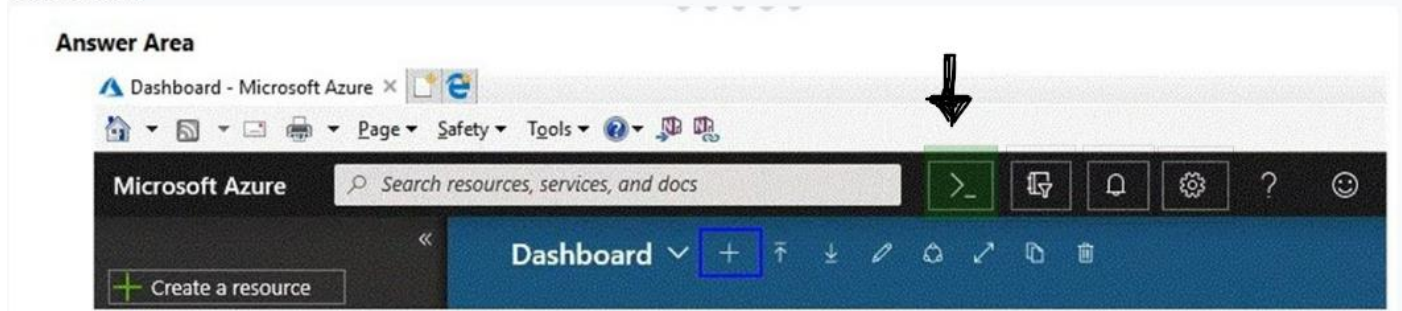
Hot Area:

Answer Area



Answer:-

Correct Answer:



Explanation:

You can access Azure Cloud Shell in the Azure portal by clicking the icon (mentioned by down arrow).

Azure Cloud Shell is an interactive, authenticated, browser-accessible shell for managing Azure resources. It provides the flexibility of choosing the shell experience that best suits the way you work, either Bash or PowerShell.

Cloud Shell enables access to a browser-based command-line experience built with Azure management tasks in mind.

References:

<https://docs.microsoft.com/en-us/azure/cloud-shell/overview?view=azure-cli-latest>

Question 97

CertyIQ

You have a virtual machine named VM1 that runs Windows Server 2016. VM1 is in the East US Azure region.

Which Azure service should you use from the Azure portal to **view service failure notifications** that can affect the availability of VM1?

A. Azure Service Fabric

B. Azure Monitor

C. Azure virtual machines

D. Azure Advisor

Explanation:

Azure Monitor maximizes the availability and performance of your applications by delivering a comprehensive solution for collecting, analysing, and acting on telemetry from your cloud and on-premises environments. **It helps you understand how your applications are performing and proactively identifies issues** affecting them and the resources they depend on.

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

Question 98

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

An Azure administrator plans to run a PowerShell script that creates Azure resources.

You need to recommend which computer configuration to use to run the script.

Solution: Run the script from a computer that runs Linux and has the Azure CLI tools installed.

Does this meet the goal?

A. Yes

B. No

Explanation:

A PowerShell script is a file that contains PowerShell cmdlets and code. **A PowerShell script needs to be run in PowerShell.**

PowerShell can now be installed on Linux. However, the question states that the computer has Azure CLI tools, not PowerShell installed. Therefore, this solution does not meet the goal.

References:

<https://docs.microsoft.com/en-us/powershell/scripting/components/ise/how-to-write-and-run-scripts-in-the-windows-powershell-ise?view=powershell-6>

Question 99

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

An Azure administrator plans to run a PowerShell script that creates Azure resources. You need to recommend which computer configuration to use to run the script.

Solution: **Run the script from a computer that runs Chrome OS and uses Azure Cloud Shell.**

Does this meet the goal?

A. Yes

B. No

Explanation:

Run the script from a computer that runs Chrome OS and uses Azure Cloud Shell to run Powershell scripts for azure.

A PowerShell script is a file that contains PowerShell cmdlets and code. A PowerShell script needs to be run in PowerShell.

With the Azure Cloud Shell, you can run PowerShell cmdlets and scripts in a Web browser. You log in to the Azure Portal and select the Azure Cloud Shell option.

This will open a PowerShell session in the Web browser. The Azure Cloud Shell has the necessary Azure PowerShell

module installed.

Note: to run a PowerShell script in the Azure Cloud Shell, you need to change to the directory where the PowerShell script is stored.

References:

<https://docs.microsoft.com/en-us/azure/cloud-shell/quickstart-powershell>

Question 100

CertyIQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
From Azure Service Health, an administrator can view the health of all the services in an Azure environment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
From Azure Service Health, an administrator can create a rule to be alerted if an Azure service fails.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
From Azure Service Health, an administrator can prevent a service failure	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Explanation:

Box 1: Yes -

Azure Service Health consists of three components: Azure Status, Azure Service Health and Azure Resource Health.

Azure service health provides a personalized view of the health of the Azure services and regions you're using. This is the best place to look for service impacting communications about outages, planned maintenance activities, and other health advisories because the authenticated Azure Service Health experience knows which services and resources you currently use.

To view the health of all other services available in Azure, you would use the Azure Status component of Azure Service Health. Azure status informs you of service outages in Azure on the Azure Status page. The page is a global view of the health of all Azure services across all Azure regions.

Box 2: Yes -

The best way to use **Service Health** is to **set up Service Health alerts to notify you** via your preferred communication channels when service issues, planned maintenance, or other changes may affect the Azure services and regions you use.

Box 3: No -

You can use Resource Health to view the health of a virtual machine. However, you cannot use Resource Health to prevent a service failure.

Azure resource health provides information about the health of your individual cloud resources such as a specific virtual machine instance.

References:

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

Question 101

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

An Azure administrator plans to **run a PowerShell script** that creates Azure resources.

You need to recommend which computer configuration to use to run the script.

Solution: **Run the script from a computer that runs macOS and has PowerShell Core 6.0 installed.**

Does this meet the goal?

A. Yes

B. No

Explanation:

The computer has PowerShell Core 6.0, but it doesn't have the Azure CLI installed both Azure CLI and Powershell should installed. There is no mention of that in the question. You need Azure PowerShell module in addition to PowerShell to run Azure commands, such as New-AzVM.

Question 102

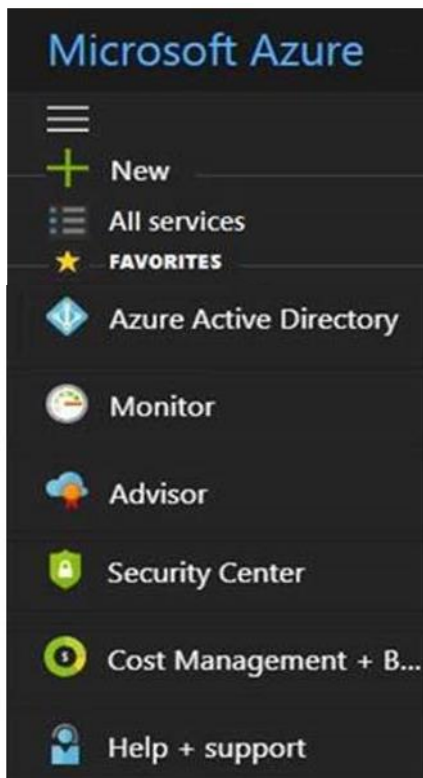
CertyIQ

HOTSPOT -

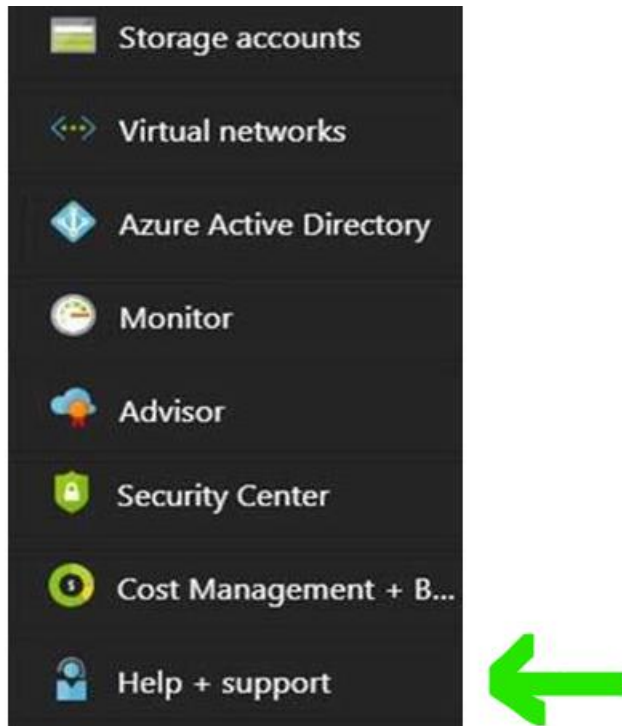
You need to **view a list of planned maintenance events** that can affect the availability of an Azure subscription.

Which blade should you use from the Azure portal? To answer, select the appropriate blade in the answer area.

Hot Area:



Answer: At the end on this Menu list, you will see **Help + Support** listed as a Menu option that's the correct answer.



Explanation:

On the Help and Support blade, there is a Service Health option. If you click Service Health, a new blade opens. The Service Health blade contains the Planned Maintenance link which opens a blade where you can view a list of planned maintenance events that can affect the availability of an Azure subscription.

Question 103

CertyIQ

DRAG DROP -

Match the Azure service to the correct definition.

Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right.

Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

	Answer Options	Answer Area	
Correct Answer:	Azure Advisor	Azure DevOps	An integrated solution for the deployment of code
	Azure Cognitive Services	Azure Advisor	A tool that provides guidance and recommendations to improve an Azure environment
	Azure Application Insights	Azure Cognitive Services	A simplified tool to build intelligent Artificial Intelligence (AI) applications
	Azure DevOps	Azure Application Insights	Monitors web applications

Explanation:

Clue→DevOps = code deploy

Advisor = guidance

Cognitive =Artificial Intelligence

Insight = Monitor

Box 1: Azure DevOps.

Azure DevOps is Microsoft's primary software development and deployment platform.

DevOps influences the application lifecycle throughout its plan, develop, deliver and operate phases.

Box 2: Azure Advisor.

Advisor is a personalized cloud consultant that helps you follow best practices to optimize your Azure deployments. It analyses your resource configuration and usage telemetry and then recommends solutions that can help you improve the cost effectiveness, performance, high availability, and security of your Azure resources.

Box 3: Azure Cognitive Services.

Azure Cognitive Services are APIs, SDKs, and services available to help developers build intelligent applications without having direct AI or data science skills or knowledge. Azure Cognitive Services enable developers to easily add cognitive features into their applications. The goal of Azure Cognitive Services is to help developers create applications that can see, hear, speak, understand, and even begin to reason. The catalog of services within Azure Cognitive Services can be categorized into five main pillars - Vision, Speech, Language, Web Search, and Decision.

Box 4. Azure Application Insights.

Azure Application Insights detects and diagnoses anomalies in web apps.

Application Insights, a feature of Azure Monitor, is an extensible Application Performance Management (APM) service for developers and DevOps professionals.

Use it to monitor your live applications. It will automatically detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview>

<https://azure.microsoft.com/en-gb/overview/what-is-devops/>

<https://docs.microsoft.com/en-us/azure/advisor/advisor-overview>

<https://docs.microsoft.com/en-us/azure/cognitive-services/welcome>

Question 104

CertyIQ

DRAG DROP -

Match the Azure service to the correct description.

Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right.

Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Answer Options**Answer Area**

Azure HDInsight		A managed relational cloud database service.
Azure Data Lake Analytics		A cloud-based service that leverages massively parallel processing (MPP) to quickly run complex queries across petabytes of data in a relational database.
Azure SQL Synapse Analytics		Can run massively parallel data transformation and processing programs across petabytes of data
Azure SQL Database		An open-source framework for the distributed processing and analysis of big data sets in clusters

Answer: -

Correct Answer:

Answer Options	Answer Area	
	Azure SQL Database	A managed relational cloud database service.
	Azure SQL Synapse Analytics	A cloud-based service that leverages massively parallel processing (MPP) to quickly run complex queries across petabytes of data in a relational database.
	Azure Data Lake Analytics	Can run massively parallel data transformation and processing programs across petabytes of data
	Azure HDInsight	An open-source framework for the distributed processing and analysis of big data sets in clusters

Explanation:

Clue→

Relational: - SQL**Massive Relational: - SQL Synapse****Just Massive: - Data Lake****Opensource: HD Insight, (HD: - Hadoop)**

Box 1: Azure SQL Database -

SQL Server is a relational database service. Azure SQL Database is a managed SQL Server Database in Azure. The SQL Server is managed by Microsoft; you just have access to the database.

Box 2: Azure SQL Synapse Analytics

Azure SQL Synapse Analytics (previously called Data Warehouse) is a cloud-based Platform-as-a-Service (PaaS) offering from Microsoft. It is a large-scale, distributed, MPP (massively parallel processing) relational database technology in the same class of competitors as Amazon Redshift or Snowflake. Azure SQL

Synapse Analytics is an important component of the Modern Data Warehouse multi-platform architecture. Because Azure SQL Synapse Analytics is an MPP system with a shared-nothing architecture across distributions, it is meant for large-scale analytical workloads which can take advantage of parallelism.

Box 3: Azure Data Lake Analytics

You can process big data jobs in seconds with Azure Data Lake Analytics. You can process petabytes of data for diverse workload categories such as querying, ETL, analytics, machine learning, machine translation, image processing and sentiment analysis by leveraging existing libraries written in .NET languages, R or Python.

Box 4: Azure HDInsight.

Apache Hadoop was the original open-source framework for distributed processing and analysis of big data sets on

clusters. The Hadoop ecosystem includes related software and utilities, including Apache Hive, Apache HBase, Spark, Kafka, and many others.

Azure HDInsight is a fully managed, full-spectrum, open-source analytics service in the cloud for enterprises. The Apache Hadoop cluster type in Azure HDInsight allows you to use HDFS, YARN resource management, and a simple MapReduce programming model to process and analyse batch data in parallel.

Reference:

<https://azure.microsoft.com/en-us/services/sql-database/>

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-what-is>

<https://docs.microsoft.com/bs-latn-ba/azure/hdinsight/hadoop/apache-hadoop-introduction> <https://www.blue-granite.com/blog/is-azure-sql-data-warehouse-a-good-fit-updated> <https://azure.microsoft.com/en-gb/services/data-lake-analytics/>

Question 105

CertyIQ

HOTSPOT -

You need to identify which blades in the Azure portal must be used to perform the following tasks:

- ☞ View security recommendations.
- ☞ Monitor the health of Azure services.
- ☞ Browse available virtual machine images.

Which blade should you identify for each task? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Monitor the health of Azure services:

	▼
Monitor	
Subscriptions	
Marketplace	
Advisor	

Browse available virtual machine images:

	▼
Monitor	
Subscriptions	
Marketplace	
Advisor	

View security recommendations:

	▼
Monitor	
Subscriptions	
Marketplace	
Advisor	

Explanation:

Clue→

Health = monitor

Images = marketplace

Recommendations = advisor

Box 1:

Azure Monitor is used to monitor the health of Azure services.

Azure Monitor maximizes the availability and performance of your applications and services by delivering a comprehensive solution for collecting, analysing, and acting on telemetry from your cloud and on-premises environments. It helps you understand how your applications are performing and proactively identifies issues affecting them and the resources they depend on.

Box 2:

You can browse available virtual machine images in the Azure Marketplace.

Azure Marketplace provides access and information on solutions and services available from Microsoft and their partners. Customers can discover, try, or buy cloud software solutions built on or for Azure. The catalog of 8,000+ listings provide Azure building blocks, such as Virtual Machines (VMs), APIs, Azure apps, Solution Templates and managed applications, SaaS apps, containers, and consulting services.

Box 3:

Azure Advisor displays security recommendations.

Azure Advisor provides you with a consistent, consolidated view of recommendations for all your Azure resources. It integrates with Azure Security Center to bring you security recommendations. You can get security recommendations from the Security tab on the Advisor dashboard.

Security Center helps you prevent, detect, and respond to threats with increased visibility into and control over the security of your Azure resources. It periodically analyses the security state of your Azure resources. When Security Center identifies potential security vulnerabilities, it creates recommendations. The recommendations guide you through the process of configuring the controls you need.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/overview>

<https://docs.microsoft.com/en-us/azure/marketplace/marketplace-faq-publisher-guide>

<https://docs.microsoft.com/en-us/azure/advisor/advisor-security-recommendations>

Question 106

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure environment. **You need to create a new Azure virtual machine from a tablet that runs the Android operating system.**

Solution: **You use Bash in Azure Cloud Shell.**

Does this meet the goal?

A. Yes

B. No

Explanation:

we can use the Cloud shell from any device as long as it has a browser and access to the internet.

With Azure Cloud Shell, you can create virtual machines using Bash or PowerShell.

Azure Cloud Shell is an interactive, authenticated, browser-accessible shell for managing Azure resources. It provides the flexibility of choosing the shell experience that best suits the way you work, either Bash or PowerShell.

Reference:

<https://docs.microsoft.com/en-us/azure/cloud-shell/quickstart>

Question 107

CertyIQ

You have an on-premises application that sends email notifications automatically based on a rule. You plan to migrate the application to AZURE. You need to recommend a serverless computing solution for the application.

What should you include in the recommendation?

- A. a web app
- B. a server image in Azure Marketplace

C. a logic app

- D. an API app

Explanation:

Azure Logic Apps is a cloud service that helps you schedule, automate, and orchestrate tasks, business processes, and workflows when you need to integrate apps, data, systems, and services across enterprises or organizations. Logic Apps simplifies how you design and build scalable solutions for app integration, data integration, system integration, enterprise application integration (EAI), and business-to-business (B2B) communication, whether in the cloud, on premises, or both.

For example, here are just a few workloads you can automate with logic apps:

- > Process and route orders across on-premises systems and cloud services.
- > Send email notifications with Office 365 when events happen in various systems, apps, and services.
- > Move uploaded files from an SFTP or FTP server to Azure Storage.
- > Monitor tweets for a specific subject, analyse the sentiment, and create alerts or tasks for items that need review.

References:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

Question 108

CertyIQ

You plan to deploy a website to Azure. The website **will be accessed by users worldwide** and will host large video files. You need to recommend which Azure feature must be used to provide **the best video playback experience**.

What should you recommend?

- A. an application gateway
- B. an Azure ExpressRoute circuit

C. a content delivery network (CDN)

- D. an Azure Traffic Manager profile

Explanation:

The question states that users are located worldwide and will be downloading large video files. The video playback experience would be improved if they can download the video from **servers in the same region as the users. We can achieve this by using a content delivery network. It minimizes latency.**

A content delivery network (CDN) is a distributed network of servers that can efficiently deliver web content to users. CDNs store cached content on edge servers in point-of-presence (POP) locations that are close to end users, to minimize

latency.

Azure Content Delivery Network (CDN) offers developers a global solution for rapidly delivering high-bandwidth content to users by caching their content at strategically placed physical nodes across the world. Azure CDN can also accelerate dynamic content, which cannot be cached, by leveraging various network optimizations using CDN POPs. For example, route optimization to bypass Border Gateway Protocol (BGP).

The benefits of using Azure CDN to deliver web site assets include:

- ⇒ Better performance and improved user experience for end users, especially when using applications in which multiple round-trips are required to load content.
- ⇒ Large scaling to better handle instantaneous high loads, such as the start of a product launch event.
- ⇒ Distribution of user requests and serving of content directly from edge servers so that less traffic is sent to the origin server.

References:

<https://docs.microsoft.com/en-us/azure/cdn/cdn-overview>

Question 109

CertyIQ

Your company plans to deploy **several million sensors that will upload data to Azure**. You need to identify which Azure resources must be created to support the planned solution. Which two Azure resources should you identify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Azure Data Lake

B. Azure Queue storage

C. Azure File Storage

D. Azure IoT Hub

E. Azure Notification Hubs

Explanation:

Data Lake: is typical storage for IoT Hub as in the below link
IoT Hub (Internet of things Hub) provides data from millions of sensors.

IoT Hub is a managed service, hosted in the cloud, that acts as a central message hub for bi-directional communication between your IoT application and the devices it manages. You can use Azure IoT Hub to build IoT solutions with reliable and secure communications between millions of IoT devices and a cloud-hosted solution backend. You can connect virtually any device to IoT Hub.

There are two storage services IoT Hub can route messages to -- Azure Blob Storage and Azure Data Lake Storage Gen2 (ADLS Gen2) accounts. Azure Data

Lake Storage accounts are hierarchical namespace-enabled storage accounts built on top of blob storage. Both of these use blobs for their storage.

References:

<https://docs.microsoft.com/en-us/azure/iot-hub/about-iot-hub>

<https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-messages-d2c>

Question 110

CertyIQ

You have an Azure web app. You need to **manage the settings of the web app from an iPhone**. What are two Azure management tools that you can use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure CLI
- B. the Azure portal**
- C. Azure Cloud Shell**
- D. Windows PowerShell
- E. Azure Storage Explorer

Explanation:

These are Browser based. Anyone with an iPhone can access B) the Azure portal and C) Azure Cloud Shell to manage an Azure web app setting.

The Azure portal is the web-based portal for managing Azure. Being web-based, you can use the Azure portal on an iPhone.

Azure Cloud Shell is a web-based command line for managing Azure. You access the Azure Cloud Shell from the Azure portal. Being web-based, you can use the Azure Cloud Shell on an iPhone.

Incorrect Answers:

A: Azure CLI can be installed on MacOS but it cannot be installed on an iPhone.

D: Windows PowerShell can be installed on MacOS but it cannot be installed on an iPhone.

E: Azure Storage Explorer is not used to manage Azure web apps.

References: <http://www.deployazure.com/management/managing-azure-from-ipad/>

Question 111

CertyIQ

Your company plans to deploy an **Artificial Intelligence (AI) solution in Azure**. What should the company use to build, test, and deploy **predictive analytics** solutions?

- A. Azure Logic Apps
- B. Azure Machine Learning Designer**
- C. Azure Batch
- D. Azure Cosmos DB

Explanation:

Azure Machine Learning designer lets you visually connect datasets and modules on an interactive canvas to create machine learning models.

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer>

Question 112

CertyIQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure Advisor can generate a list of Azure virtual machines that are protected by Azure Backup.	<input type="radio"/>	<input checked="" type="radio"/>
If you implement the security recommendations provided by Azure Advisor, your company's secure score will decrease.	<input type="radio"/>	<input checked="" type="radio"/>
To maintain Microsoft support, you must implement the security recommendations provided by Azure Advisor within a period of 30 days.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Box 1: No -

Azure Advisor does not generate a list of virtual machines that are protected by Azure Backup. Azure Advisor does however, generate a list of virtual that are NOT protected by Azure Backup. You can view a list of virtual machines that are protected by Azure Backup by viewing the Protected Items in the Azure Recovery Services Vault.

Box 2: No -

If you implement the security recommendations, you company's score will increase, not decrease.

Box 3: No -

There is no requirement to implement the security recommendations provided by Azure Advisor, **recommendations are not mandatory to implement**. The recommendations are just that, 'recommendations'. They are not 'requirements'.

References:

<https://azure.microsoft.com/en-gb/blog/advisor-backup-recommendations/>

<https://docs.microsoft.com/en-us/azure/advisor/advisor-overview>

Question 113

CertyIQ

What can you use to **automatically send an alert** if an administrator stops an Azure virtual machine?

- A. Azure Advisor
- B. Azure Service Health
- C. Azure Monitor**

Explanation:

Azure Monitor is used to send alert automatically.

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/insights/vminsights-alerts>

Question 114

CertyIQ

DRAG DROP -

Match the Azure services to the correct descriptions.

Instructions: To answer, drag the appropriate Azure service from the column on the left to its description on the right.

Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point

Select and Place:

Azure Services

Azure Machine Learning

Azure Synapse Analytics

Azure IoT Hub

Azure Functions

Answer Area

Provides a cloud-based Enterprise Data Warehouse (EDW).

Uses past trainings to provide predictions that have high probability.

Provides serverless computing functionalities.

Processes data from millions of sensors.

Answer: -

	Azure Services	Answer Area
Correct Answer:	<input type="text"/>	<input type="text"/> Provides a cloud-based Enterprise Data Warehouse (EDW).
	<input type="text"/>	<input type="text"/> Uses past trainings to provide predictions that have high probability.
	<input type="text"/>	<input type="text"/> Provides serverless computing functionalities.
	<input type="text"/>	<input type="text"/> Processes data from millions of sensors.

Explanation:

Clue: -

Azure Synapse Analytics – Data Warehouse

Azure ML – Predictions

Azure Functions – Serverless Computing

Azure IoT Hub – Sensors

Box 1: Azure SQL Synapse Analytics

Azure SQL Synapse Analytics (previously called Data Warehouse) is a cloud-based Platform-as-a-Service (PaaS) offering from Microsoft. It is a large-scale, distributed, MPP (massively parallel processing) relational database technology in the

same class of competitors as Amazon Redshift or Snowflake. Azure SQL Synapse Analytics is an important component of the Modern Data Warehouse multi-platform architecture. Because Azure SQL Synapse Analytics is an MPP system with a shared-nothing architecture across distributions, it is meant for large-scale analytical workloads which can take advantage of parallelism.

Box 2:

Azure Machine Learning uses past trainings to provide predictions that have high probability.

Machine learning is a data science technique that allows computers to use existing data to forecast future behaviours, outcomes, and trends. By using machine learning, computers learn without being explicitly programmed.

Forecasts or predictions from machine learning can make apps and devices smarter. For example, when you shop online, machine learning helps recommend other products you might want based on what you've bought.

Box 3:

Azure Functions provides serverless computing functionalities.

Azure Functions is a serverless compute service that lets you run event-triggered code without having to explicitly provision or manage infrastructure.

Box 4:

IoT Hub (Internet of things Hub) provides data from millions of sensors.

IoT Hub is a managed service, hosted in the cloud, that acts as a central message hub for bi-directional communication between your IoT application and the devices it manages. You can use Azure IoT Hub to build IoT solutions with reliable and secure communications between millions of IoT devices and a cloud-hosted solution backend. You can connect virtually any device to IoT Hub.

Reference:

<https://azure.microsoft.com/en-gb/services/synapse-analytics/>

<https://docs.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-ml>

<https://docs.microsoft.com/en-us/azure/iot-hub/about-iot-hub>

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

Question 115

CertyIQ

You have an Azure environment. **You need to create a new Azure virtual machine from a tablet that runs the Android operating system.**

What are three possible solutions? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Use Bash in Azure Cloud Shell.

B. Use PowerShell in Azure Cloud Shell.

C. Use the PowerApps portal.

D. Use the Security & Compliance admin center

E. Use the Azure portal.

Explanation:

The Android tablet device will have a web browser (Chrome). That's enough to connect to the Azure portal.

The Azure portal offers three ways to create a VM:

⇒ Using the graphical portal.

⇒ Using the Azure Cloud Shell using Bash.

⇒ Using the Azure Cloud Shell using PowerShell.

Question 116

CertyIQ

A team of developers at your company plans to deploy, and then remove, 50 virtual machines each week. All the virtual machines are configured **by using Azure Resource Manager templates**. You need to recommend which Azure service will minimize the administrative effort required to deploy and remove the virtual machines.

What should you recommend?

A. Azure Reserved Virtual Machine (VM) Instances

B. Azure DevTest Labs

C. Azure virtual machine scale sets

D. Microsoft Managed Desktop

Explanation:

DevTest Labs creates labs consisting of pre-configured bases or Azure Resource Manager templates.

By using DevTest Labs, you can test the latest versions of your applications by doing the following tasks:

- ⇒ Quickly provision Windows and Linux environments by using reusable templates and artifacts.
- ⇒ Easily integrate your deployment pipeline with DevTest Labs to provision on-demand environments.
- ⇒ Scale up your load testing by provisioning multiple test agents and create pre-provisioned environments for training and demos.

Reference:

<https://docs.microsoft.com/en-us/azure/lab-services/devtest-lab-overview>

Question 117

CertyIQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure Advisor provides recommendations on how to improve the security of an Azure Active Directory (Azure AD) environment.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Advisor provides recommendations on how to reduce the cost of running Azure virtual machines.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Advisor provides recommendations on how to configure the network settings on Azure virtual machines.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Box 1: No -

Azure Advisor provides you with a consistent, consolidated view of recommendations for all your Azure resources. It integrates with Azure Security Center to bring you security recommendations. You can get security recommendations from the Security tab on the Advisor dashboard. Examples of recommendations include restricting access to virtual machines by configuring Network Security Groups, enabling storage encryption, installing vulnerability assessment solutions.

However, Azure Advisor does not provide recommendations on how to improve the security of an Azure AD environment.

Box 2: Yes -

Advisor helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. You can get cost recommendations from the Cost tab on the Advisor dashboard.

Box 3: No.

Azure Advisor does not provide recommendations on how to configure network settings on Azure virtual machines.

References:

<https://docs.microsoft.com/en-us/azure/advisor/advisor-security-recommendations>

<https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations>

Question 118

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have an Azure subscription named Subscription1. You sign in to the Azure portal and create a resource group named RG1.

From Azure documentation, you have the following command that creates a virtual machine named VM1. `az vm create --resource-group RG1 --name VM1 --image UbuntuLTS --generate-ssh-keys`

You need to create VM1 in Subscription1 by using the command.

Solution: From the Azure portal, launch Azure Cloud Shell and select PowerShell. Run the command in Cloud Shell.

Does this meet the goal?

A. Yes

B. No

Explanation:

The command can be run in the Azure Cloud Shell. Although this question says you select PowerShell rather than Bash, the Az commands will work in PowerShell.

The Azure Cloud Shell is a free interactive shell. It has common Azure tools preinstalled and configured to use with your account.

To open the Cloud Shell, just select Try it from the upper right corner of a code block. You can also launch Cloud Shell in a separate browser tab by going to <https://shell.azure.com/bash>.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/quick-create-cli>

Question 119

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Subscription1. You sign in to the Azure portal and create a resource group named RG1.

From Azure documentation, you have the following command that creates a virtual machine named VM1. `az vm create --resource-group RG1 --name VM1 --image UbuntuLTS --generate-ssh-keys`

You need to create VM1 in Subscription1 by using the command.

Solution: From a computer that runs Windows 10, **install Azure CLI**. From **PowerShell**, sign in to Azure and then run the command.

Does this meet the goal?

A. Yes

B. No

Explanation:

Install Azure CLI in Windows 10, Run command from PowerShell. During command execution we need to login Azure.

Question 120

CertyIQ

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have an Azure subscription named Subscription1. You sign in to the Azure portal and create a resource group named RG1.

From Azure documentation, you have the following command that creates a virtual machine named VM1. `az vm create --resource-group RG1 --name VM1 --image UbuntuLTS --generate-ssh-keys`

You need to create VM1 in Subscription1 by using the command.

Solution: From a computer that runs Windows 10, **install Azure CLI**. From a **command prompt**, sign in to Azure and then run the command.

Does this meet the goal?

A. Yes

B. No

Explanation:

The answer is "Yes" as the question states to log in Azure FROM command prompt instead of Run Azure CLI command FROM Azure after you log into Azure portal on the website.

End of Part 3

We hope to see you again...



We have uploaded vidoes of this **AZ-900** series on

CertyIQ YouTube channel: -

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