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TO PASS 80% or higher

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GRADE
44%

Practice exam covering Introduction to Azure Core Concepts and Service

LATEST SUBMISSION GRADE

44%

1. Tradewind Traders current on-premises datacenter has several hundred servers and available resources in the datacenter are currently very low. Management has asked you to research a solution that will allow for increased resources but will keep expenditure such as capital expenditure and operational expenditure at a minimum. What solution should you recommend?

1 / 1 point

- ☐ Create an additional Datacenter
- ☒ Create a Hybrid cloud
- ☐ A complete migration to the public cloud
- ☐ Create a new Private cloud

✓ Correct

That's correct. A hybrid cloud is a combination of a private cloud and a public cloud. With a hybrid cloud, you can continue to use the on-premises servers while adding new servers in the public cloud. Adding new servers in Azure minimizes the capital expenditure costs

2. Tradewind Traders is planning to migrate to Azure cloud services. The company currently operates multiple MySQL database solutions on-premises. Management has asked you to spend some time researching the MySQL features available in Azure specifically the ability to perform automatic backups and point in time restores. You have determined that these features are available for MySQL in Azure.

1 / 1 point

For how many days are point-in-time restores supported for MySQL in Azure?

- ☐ 15
- ☐ 25
- ☒ 35
- ☐ 45

✓ Correct

Azure database for MySQL supports Automatic backups and point-in-time-restore for up to 35 days.

3. Tradewind Traders is planning to migrate to Azure cloud services. The majority of their IT department is more familiar with Linux environments than Windows. Will these users be able to continue using Bash commands to create resources such as Virtual Machines once the organization has migrated?

1 / 1 point

- ☒ Yes
- ☐ No

✓ Correct

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

4. Tradewind Traders is planning to migrate some of their data and resources to Azure cloud services, Management has decided to only make use of the Platform as a Service (PaaS) offerings in Azure. You have been asked to design a migration plan. As part of this design, you have included the creation of Azure virtual machines, Azure SQL databases, and Azure Storage accounts

0 / 1 point

Does this design meet the requirements of the organization?

- ☒ Yes
- ☐ No

! Incorrect

Platform as a service (PaaS) is a complete development and deployment environment in the cloud. PaaS includes infrastructure servers, storage, and networking as well as middleware, development tools, business intelligence (BI) services, database management systems, and more. PaaS is designed to support the complete web application lifecycle: building, testing, deploying, managing, and updating. However, virtual machines are examples of Infrastructure as a service (IaaS). IaaS is an instant computing infrastructure, provisioned and managed over the internet. Try going back and reviewing Microsoft Azure Fundamental Concepts & Architectural Components.

5. Tradewinds Traders is planning to migrate to Azure cloud services however management has questions concerning management and responsibilities once resources are migrated. You have identified three cloud service models. In which cloud service model is the cloud provider responsible for managing the virtual machines, the operating system, and networking resources that the cloud tenant deploys their applications into?

0 / 1 point

- ☐ IaaS
- ☒ SaaS
- ☐ PaaS



Incorrect

In the SaaS cloud service model, the cloud provider manages all aspects of the application environment - virtual machines, networking resources, data storage, applications, etc. Try going back and reviewing Microsoft Azure Fundamental Concepts & Architectural Components.

6. Tradewind Traders is investigating a possible migration of their data and resources to Azure cloud services. Which of the following is true in respect of the Public Cloud?

1 / 1 point

- ☐ The public cloud is a crowd-sourcing solution that provides corporations with the ability to enhance the cloud
- ☒ The public cloud is a shared entity whereby multiple corporations each use a portion of the resources in the cloud
- ☐ The public cloud is owned by the public, NOT a private corporation
- ☐ All public cloud resources can be freely accessed by every member of the public



Correct

The public cloud is a shared entity whereby multiple corporations each use a portion of the resources in the cloud. The hardware resources (servers, infrastructure, etc.) are managed by the cloud provider.

7. Tradewind Traders is planning to migrate to Azure cloud services, and you have been asked to do some research on Infrastructure as a Service. Which of the following is an example of IaaS?

1 / 1 point

- ☐ Azure SQL database
- ☐ Azure web app
- ☒ Azure virtual machine
- ☐ Azure logic app



Correct

An Azure virtual machine is an example of Infrastructure as a Service (IaaS).

8. Tradewinds Traders is planning to migrate to Azure cloud services however management has questions concerning management and responsibilities once resources are migrated. You have identified three cloud service models. In which model does the cloud provider keep the hardware up to date but the operating system maintenance and network configuration are left to the cloud tenant?

0 / 1 point

- ☒ PaaS
- ☐ IaaS
- ☐ SaaS



Incorrect

The PaaS cloud service model is a managed hosting environment. In this model, the cloud provider manages the virtual machines and networking resources. The cloud tenant deploys their applications into this managed hosting environment. Try going back and reviewing Microsoft Azure Fundamental Concepts & Architectural Components.

9. Tradewinds Traders is planning to migrate to Azure cloud services but before they do you have been asked to do some research on cloud deployment models. Based on your research which of the following deployment models will provide the ability to share data, applications, and resources on-premises and in the Cloud

0 / 1 point

- ☒ Private Cloud
- ☐ Hybrid Cloud
- ☐ Public Cloud



Incorrect

A private cloud consists of computing resources used exclusively by users from one business or organization. Try going back and reviewing Microsoft Azure Fundamental Concepts & Architectural Components.

10. Tradewind Traders are in the process of migrating their resources to Azure cloud services. Currently, they have several VMs deployed to their Azure subscription. Management has asked you to research how their on-premises users will be able to securely access the resources that have been migrated to Azure. Based on that research, which of the following will you need to create to implement this solution?

0.6 / 1 point

will you need to create to implement this solution?

Select all options that apply.

☒ A Virtual Network Gateway



Correct

To implement a solution that enables the client computers on your on-premises network to communicate to the Azure virtual machines, you need to configure a VPN (Virtual Private Network) to connect the on-premises network to the Azure virtual network. The Azure VPN device is known as a Virtual Network Gateway.

☐ A Load Balancer

☒ A Virtual network



This should not be selected

Although a virtual network is required, we already have virtual machines deployed in Azure so we can assume that the virtual network is already in place. Try going back and reviewing Microsoft Azure Database, Analytics, and Compute Services.

☒ A Gateway Subnet



Correct

The virtual network gateway needs to be located in a dedicated subnet in the Azure virtual network. This dedicated subnet is known as a gateway subnet. Try going back and reviewing Microsoft Azure Database, Analytics, and Compute Services.

☒ An Application Gateway



This should not be selected

Also known as application proxy or application-level proxy, an application gateway is an application program that runs on a firewall system between two networks. When a client program establishes a connection to a destination service, it connects to the application gateway, or proxy. Try going back and reviewing Microsoft Azure Database, Analytics, and Compute Services.

11. Tradewinds Traders is planning to migrate to Azure cloud services. Management has asked you to research the main benefits of cloud services. Based on your research you have identified scalability as one of the main benefits. Scalability includes horizontal and vertical scaling. Which of the following is characteristic of vertical scaling?

0 / 1 point

- ☒ Computing capacity can be increased by adding instances of a resource
- ☐ Computing capacity can be increased by adding additional RAM or CPUs to a virtual machine.



Incorrect

With horizontal scaling, computing capacity can be increased by adding instances of a resource. Try going back and reviewing Microsoft Azure Database, Analytics, and Compute Services.

12. Tradewind Traders is planning to migrate to Azure cloud services. Management has asked you to spend some time researching the big data and analytic solutions available in Azure. Based on your research, which of the following provides a fully managed, open-source analytics service for enterprises that makes it easier and more cost-effective to process massive amounts of data while running popular open-source frameworks?

0 / 1 point

- ☐ Azure HDInsight
- ☐ Azure Synapse Analytics
- ☒ Azure Databricks
- ☐ Azure Data Lake Analytics



Incorrect

Azure Databricks helps you unlock insights from all your data and build artificial intelligence (AI) solutions. You can set up your Apache Spark™ environment in minutes, then auto-scale and collaborate on shared projects in an interactive workspace. Try going back and reviewing Microsoft Azure Database, Analytics, and Compute Services.

13. Tradewind Traders is planning to migrate some of their data and resources to Azure cloud services. Management has decided to only make use of the Platform as a Service (PaaS) offerings in Azure. You have been asked to design a migration plan. As part of this design, you have included the creation of Azure App Services and Azure Storage accounts.

0 / 1 point

Does this design meet the requirements of the Organization?

- ☒ Yes
- ☐ No



Incorrect

Azure App Service is a PaaS (Platform as a Service) service. However, Azure Storage accounts are an IaaS (Infrastructure as a Service) service. Therefore, this design does not meet the requirements. Try going back and reviewing Microsoft Azure Storage and Networking Services.

14. Tradewind Traders is planning to migrate some of their data and resources to Azure cloud services, Management has asked you to design a deployment plan that will guarantee services running on virtual machines will continue to operate in the event a single datacenter fails. As part of this design, you will deploy virtual machines to two or more scale sets.

1 / 1 point

Does this design meet the requirements of the organization?

- ☐ Yes
- ☒ No

✓ **Correct**

Azure virtual machine scale sets let you create and manage a group of load-balanced VMs. The number of VM instances can automatically increase or decrease in response to demand or a defined schedule. Scale sets provide high availability to your applications and allow you to centrally manage, configure, and update many VMs. However, this question does not specify that the scale set will be configured across multiple datacenters so this solution does not meet the goal.

15. Tradewind Traders is planning to migrate to Azure cloud services however management has asked you to research connectivity features between your on-premises environment and Cloud resources. In your research, you learn that Azure virtual networks enable you to link resources in your on-premises environment with your Azure subscription. In effect, you can create a network that spans both your local and cloud environments. There are three mechanisms for you to achieve this connectivity.

0 / 1 point

Which of the following is not a valid mechanism?

- ☐ Service endpoints
- ☒ Site-to-site Virtual Private Networks
- ☐ Point-to-site Virtual Private Networks
- ☐ Azure ExpressRoute

! **Incorrect**

A site-to-site VPN links your on-premises VPN device or gateway to the Azure VPN gateway in a virtual network. Try going back and reviewing Microsoft Azure Storage and Networking Services.