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1. What tools does Azure provide to assist in the provision of services?   **1 / 1 point**

☐ Azure Data Studio

☑ Azure PowerShell

> ✓ **Correct**
> You can use PowerShell commands to script and automate administrative tasks. Azure provides a series of commandlets (Azure-specific commands) that you can use in PowerShell to create and manage Azure resources.

☑ The Azure portal

> ✓ **Correct**
> The Azure portal displays a series of service-specific pages that prompt you for the settings required, and validates these settings, before actually provisioning a service.

☑ The Azure command-line interface (CLI)

> ✓ **Correct**
> The CLI provides a set of commands that you can run from the operating system command prompt or the Cloud Shell in the Azure portal. You can use these commands to create and manage Azure resources.

2. Azure Cosmos DB organizes data as a collection of documents stored in containers. And these containers are held in a database. Before setting up a database what must you do?   **1 / 1 point**

◉ Create an account

○ Create a database in Azure SQL Database

○ Build and Deploy a new Virtual Machine in your tenant to store the database

> ✓ **Correct**
> A database runs in the context of a Cosmos DB account. You must create an account before you can set up any databases.

3. Azure Cosmos DB provides the ability to create and manage databases using Azure CLI or Azure PowerShell. Which of the following command can you run to create a Cosmos DB account?   **1 / 1 point**

Select all options that apply.

☐ az CosmosDBAccount create

☑ New-AzCosmosDBAccount

> ✓ **Correct**
> This Azure Powershell commandlet can be used to create a Cosmos DB account. You must also supply additional parameters to complete the command.

☑ az cosmosdb create

> ✓ **Correct**
> This Azure CLI command can be used to create a Cosmos DB account. You must also supply additional parameters to complete the command.

4. Azure Cosmos DB uses the concept of Request Units per second (RU/s) to manage the performance and cost of databases. If you underprovision (by specifying too few RU/s), Cosmos DB will start throttling performance. What effect will this have on requests to access the database?   **1 / 1 point**

○ The requests will be aborted immediately.

○ Your database will halt for a period of time.

◉ Requests will be asked to retry later.

5. Azure Storage offers a selection of options on how your Data in an Azure Storage account is replicated to provide high levels of availability. Which of the following are valid options?

1 / 1 point

Select all options that apply.

☐ Read-access Local-redundant storage (RA-LRS)

☑ Geo-redundant storage (GRS)

⊘ **Correct**
   Geo-redundant storage (GRS) copies your data synchronously three times within a single physical
   location in the primary region using LRS. It then copies your data asynchronously to a single physical
   location in a secondary region. This form of replication protects you against regional outages.

☑ Locally redundant storage (LRS)

⊘ **Correct**
   Locally redundant storage (LRS) copies your data synchronously three times within a single physical
   location in the region. LRS is the least expensive replication option, but isn't recommended for
   applications requiring high availability.

6. When using standard storage accounts. You can select between different Access Tiers Hot and Cool.

1 / 1 point

Which of the following statements are true?

⦿ The hot access tier has higher storage costs but the lowest access costs - The cool access tier has lower
   storage costs and higher access costs.

◯ The hot access tier has lower storage costs but the highest access costs - The cool access tier has higher
   storage costs and lower access costs.

⊘ **Correct**
   The hot access tier has higher storage costs than cool tiers, but the lowest access costs while the cool
   access tier has lower storage costs and higher access costs.

7. When configuring restrictions on connectivity to specific Azure Cosmos DB and Azure Storage services from selected networks. You must configure which of the following?

1 / 1 point

◯ Configure a Security Principal

⦿ Firewalls and virtual networks for the service

◯ Azure Private Endpoint

⊘ **Correct**
   To restrict connectivity, use the Firewalls and virtual networks page for a service.

8. Within a single region, Cosmos DB uses a cluster of servers. This approach helps to improve scalability and availability. A copy of all data is held in each server in the cluster. This can lead to data inconsistency. Azure Cosmos DB enables configuration as to how these inconsistencies should be handled.

0 / 1 point

Which option ensures that changes will appear in order? Notwithstanding, there may be a delay before they become visible and during this period applications may see old data.

◯ Strong

◯ Consistent Prefix

⦿ Bounded Staleness

◯ Session

◯ Eventual

⊗ **Incorrect**
   Try going back and reviewing Explore provisioning and deploying non-relational data services in
   Azure.

9. You can use shared access signatures (SAS) to grant limited rights to resources in an Azure storage account for a specified time. This feature enables applications to access resources such as blobs and files, without requiring that they're authenticated first. To what can Shared Access Signatures be granted?

1 / 1 point

Select all options that apply.

☑ Individual objects such as blobs and files

⊘ **Correct**

☑ Containers

> ⊘ **Correct**
> You can create a token that grants temporary access to containers

☑ The entire service

> ⊘ **Correct**
> You can create a token that grants temporary access to the entire service,

☐ Objects owned by that SAS Token

10. Which of the following statements best defines Security Principal in Azure?   1 / 1 point

◉ An object such as a user, group or service, that requires access to Azure resources.

○ A named collection of permissions that can be granted to a service.

○ A set of resources managed by a service to which you can grant access.

> ⊘ **Correct**
> A Security Principal is an object that represents a user, group, service, or managed identity that is requesting access to Azure resources.

☑ Containers

> ⊘ **Correct**
> You can create a token that grants temporary access to containers

☑ The entire service