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1. Provisioning is the act of running a series of tasks to create and configure a service such as Azure SQL Database. Which of the following tools can be used to provision the service in Azure?   **0.75 / 1 point**

Select all options that apply.

☑ Azure Data Studio

⊗ **This should not be selected**
Azure Data Studio provides a graphical user interface for managing many different database systems, not for provisioning.

☐ SQL Management Studio

☑ Azure Resource Manager templates

⊘ **Correct**
An Azure Resource Manager template describes the service (or services) that you want to deploy in a text file, in a format known as JSON (JavaScript Object Notation). The example below shows a template that you can use to provision an instance of Azure SQL Database.

☑ The Azure portal

⊘ **Correct**
This is the most convenient way to provision a service for most users. The Azure portal displays a series of service-specific pages that prompt you for the settings required, and validates these settings, before actually provisioning the service.

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2. When provisioning Azure Databases, support for ultra-high performance workloads through a feature called *Hyperscale* is available for which of the following?   **1 / 1 point**

○ Azure SQL

○ Azure Database for MySQL

◉ Azure Database for PostgreSQL

⊘ **Correct**
PostgreSQL gives you the Hyperscale option, which supports ultra-high performance workloads.

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3. Access management for cloud resources is a critical function for any organization that uses the cloud. Azure role-based access control (Azure RBAC) using role assignments helps you manage who has access to your Azure resources and what they can do with those resources.   **0.5 / 1 point**

Which of the following are elements of role assignments?

Select all options that apply.

☐ A Security principal

☑ A Role Definition

⊘ **Correct**
A role assignment consists of three elements: a security principal, a role definition, and a scope.

☑ A Scope

⊘ **Correct**
A role assignment consists of three elements: a security principal, a role definition, and a scope.

☑ A Resource Group

⊗ **This should not be selected**
A role assignment consists of three elements: a security principal, a role definition, and a scope. A resource group is used to group related resources such as Services and Virtual Machines.

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4. True or False?   **1 / 1 point**

Azure SQL Database uses a clustered topology to provide high availability.

- ⦿ True
- ◯ False

> ✓ **Correct**
> Azure SQL Database uses a clustered topology to provide high availability. Each server and database is transparently replicated to ensure that a server is always accessible, even in the event of a database or server failure.

5. If you are connecting to a cloud database service from outside Azure, such as an on-premises application, your connections have a default connection policy of Proxy.

    1 / 1 point

    Which of the following explains the Proxy connect policy?

    - ◯ Proxy means that after establishing a connection through a gateway all subsequent requests go directly to the database.
    - ⦿ Proxy means that after establishing a connection through a gateway all subsequent requests flow through the gateway

    > ✓ **Correct**
    > A policy of Proxy means the connection is established via the gateway, and all subsequent requests flow through the gateway. Each request could (potentially) be serviced by a different database in the cluster.

6. What port is used to communicate with Azure Database for PostgreSQL?

    1 / 1 point

    - ◯ 3306
    - ◯ 1433
    - ⦿ 5432

    > ✓ **Correct**
    > Connections to your Azure Database for PostgreSQL server communicate over port 5432. When you try to connect from within a corporate network, outbound traffic over port 5432 might not be allowed by your network's firewall. If so, you can't connect to your server unless your IT department opens port 5432.