Exam Session - Knowledge Check: Overview of Azure Services

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#1

Which service simplifies the process of configuring, deploying, and managing a simple containerized application on the Azure cloud?

✓

Azure Container Instances

✗

Azure Functions

✗

Azure App Service

✗

Azure Pipelines

Explanation

Containers are somewhat like virtual machines except they don't include the operating system. This makes it easy to deploy them because they're very lightweight compared to virtual machines. In fact, containers run on virtual machines.

Microsoft provides a variety of ways to run containers. The simplest way is to use Azure Container Instances. This service lets you run a container using a single command.

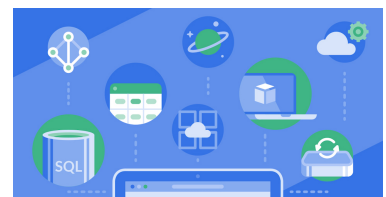🔗 /course/overview-of-azure-services/azure-overview/
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#2

Which Azure Storage access tiers are designed for infrequently accessed data? (Choose 2 answers)

✓

Cool

✗

Deep archive

✓

Archive

✗

Hot

Explanation

The hot access tier is really used for data that is accessed frequently. The cool access tier is typically used for infrequently access data. Archive storage is an offline tier for storing data that is rarely accessed.

🔗 https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers
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#3

Which Azure analytics service provides a user-friendly way to run Spark jobs, and is easier to manage than Azure HDInsight?

✗

Azure Synapse Analytics

Databricks   Spark jobs

✓

Azure Databricks

✗

Azure Data Factory

✕

Azure Stream Analytics

Explanation

Microsoft's analytics offerings have evolved over time, which is why you'll see a variety of services in this area. Azure Databricks is a similar service because it runs Spark as well, but it's more user-friendly and easier to manage than HDInsight.

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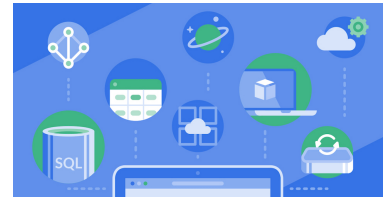Covered in this lecture
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#4

What is more frequently cited as the easiest way to interact with Microsoft Azure?

✓

Using the Azure Portal

✕

Using Azure Powershell

✕

Using the Azure CLI

✕

Using the Azure SDK

Explanation

There are many ways to interact with Azure; the Azure portal runs in a browser, so you don't need to install anything to use it. Alternatively, you can install the CLI (the command-line interface), Azure PowerShell, or the SDK (Software Development Kit). The Azure portal is frequently cited as the easiest way to get started, though.

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#5

Which blob access storage tier would you use when dealing with a large amount of data that is actively used?

✕

Cold

✕

Archive

✓

Hot

✕

Deep archive

Explanation

The hot access tier is used for data that is accessed frequently. The cool access tier is typically used for infrequently access data. The Archive access tier can only be set at the Blob level and not on the actual storage account level.

🔗 https://docs.microsoft.com/en-us/azure/storage/storage-blob-storage-tiers
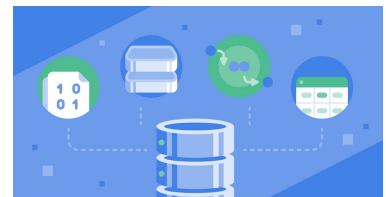
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#6

Which Azure IoT service provides its own certified chips, operating system, and security service to increase the security for IoT devices?

✓

Azure Sphere

✕

Azure IoT Hub

✕

Azure IoT Central

✕

Azure IoT Edge

Explanation

Microsoft also offers a solution called Azure Sphere to make your IoT devices more secure. It includes certified chips, the Azure Sphere operating system, and the Azure Sphere Security Service, all of which provide layers of protection for your IoT devices.

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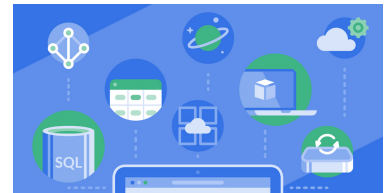Covered in this lecture
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#7

The compliance dashboard for Microsoft Defender for Cloud is connected with which of the following services to allow you to create compliance requirements for accounts and resources within your Azure account?

✓

Azure Policy

✕

Azure Advisor

✕

Azure Monitor

✕

Azure Service Health

Explanation

First, it shows you how compliant your Azure subscriptions are. This is based on policies that you create in a service called, naturally, Azure Policy. For example, if someone in your organization creates a subscription that doesn't have your regulatory policy controls assigned to it, then it will show up in this compliance panel.

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#8

Which Azure management service informs you about problems with the Azure platform itself and upcoming maintenance events?

✕

Azure Monitor

✕

Azure Application Insights

✓

Azure Service Health

✕

Azure Advisor

Explanation

Microsoft also provides a dashboard called Service Health where you can find out about problems with the Azure platform itself as well as upcoming maintenance events. You can even create alerts so you'll be notified of both planned and unplanned outages.

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#9

Azure _____ is a monitoring and performance analysis tool for apps.

✕

Databricks

✓

Application Insights

✕

Visual Studio

✕

App Service

Explanation

This last part of QnA Maker setup is to enable Application Insights, which is a performance analysis tool for apps.

🔗 /course/building-a-chatbot-on-azure/qna-maker/

#10

Which Azure service automates the deployment of complete Azure environments, including policies and permissions?

✓

Azure Blueprints

✕

Azure Advisor

✕

Azure Policy

✕

Azure Migrate

Explanation

Azure Blueprints automates the deployment of entire Azure environments. A blueprint is a collection of Azure Resource Manager templates plus a few other details, such as policies and user permissions. When a blueprint is assigned to a subscription, it not only automates the creation of an environment, but it also keeps a record of the deployment. This makes it a critical governance tool because it enables the tracking and auditing of deployments.

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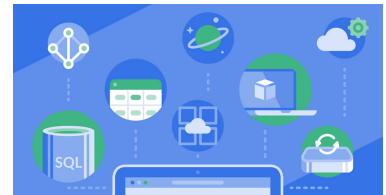Covered in this lecture
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#11

Which Azure service can help you specifically manage the process of moving on-premise applications to the Azure cloud?

✓

Azure Migrate

✕

Azure Functions

✕

Azure Monitor

✕

Azure Active Directory

Explanation

If your organization is just getting started with Azure, then one of the first things you'll want to do is figure out how you can migrate at least some of your existing applications to Azure. Microsoft provides a great tool for this called Azure Migrate.

First, it discovers your on-premises servers, both physical and virtual. On the virtual side, this includes both Hyper-V and VMware. Then it assesses these machines. For each one, it tells you whether or not it's ready to migrate, how big the Azure VM will be, how much it will cost, and any dependent servers that will also need to be migrated. When you're ready, it will

even help you do the migration. Azure Migrate is also integrated with other tools to help you migrate SQL Server databases, web apps, and data. Also, if you have a virtual desktop infrastructure, there's a tool that will do an assessment to help you migrate it to Windows Virtual Desktop, which is hosted on Azure.

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#12

Which Azure service gives you full control of every machine learning stage, and is ideal for experienced AI developers who need to build a customized artificial learning application?

✓

Azure Machine Learning Services

✗

Azure Machine Learning Studio

✗

Azure Cognitive Services

✗

Azure Bot Service

Explanation

A much more sophisticated option is Azure Machine Learning Services, which gives you full control over every stage of the machine learning process. You can use any Python-based machine learning framework, such as TensorFlow or PyTorch, train models using services such as Azure Databricks, and deploy models using services such as Azure Kubernetes Service. Azure Machine Learning Services is usually the best solution when you need to build your own custom artificial intelligence application.

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#13

What is one of Azure's oldest analytics services and supports several open-source big data frameworks such as Hadoop, Spark, and Hive?

✓

Azure HDInsight

✕

Azure Databricks

✕

Azure Synapse Analytics

✕

Azure Data Factory

Explanation

When you have a large volume of data coming in, whether it's from IoT devices or applications, you'll probably want to perform analytics on it. Microsoft's analytics offerings have evolved over time, which is why you'll see a variety of services in this area.

The oldest one is HDInsight. It supports a wide variety of open-source big data frameworks, including Hadoop, Spark, Hive, Storm, and many others.

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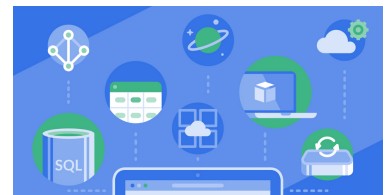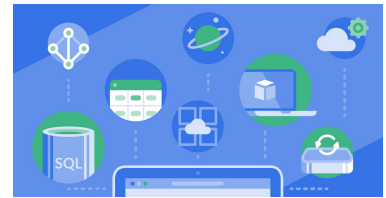Covered in this lecture
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#14

What Azure service allows you to automate tasks with a simple drag-and-drop interface and without the use of code?

✓

Azure Logic Apps

✕

Azure Functions

✕

Azure App Service

✕

Azure API Management

Explanation

Microsoft offers a service called Azure Logic Apps that lets you automate tasks without writing any code. You can create a logic app using a drag-and-drop interface.

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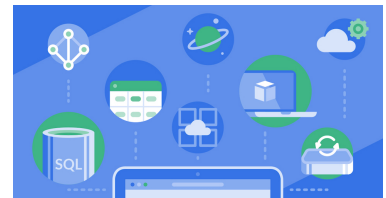
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#15

Which Azure service allows you to host web and mobile applications using virtual machines without configuring and administrating the underlying aspects of the service, such as the operating system or security patches?

✓

Azure App Service

✕

Azure Virtual Machines

✕

Azure Functions

✕

Azure Batch

Explanation

Azure App Service. This platform lets you host web and mobile applications without having to worry about the underlying infrastructure. After doing a minor amount of configuration, you can just upload your code to an App Service instance and let Azure take care of the details. In most cases, this is a better solution than using virtual machines.

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