

# Exam Session - Knowledge Check: Overview of Azure Services

 [cloudacademy.com/quiz/exam/3766717/results](https://cloudacademy.com/quiz/exam/3766717/results)

#1

Which service within the Azure DevOps suite allows you to quickly create disposable, non-production environments with additional tools to control costs?



Azure Pipelines



Azure DevTest Labs



Azure Boards



Azure Repos

Explanation

A service within Azure DevOps, Azure DevTest Labs makes it easy to spin up non-production environments. You could do this in other ways, but DevTest Labs gives you some extra capabilities, such as allowing administrators to control costs by setting limits on how many VMs can be deployed at once and ensuring that VMs are shut down when they're not in use.

 </course/overview-of-azure-services/azure-service-categories/>

Covered in this lecture

Service Categories

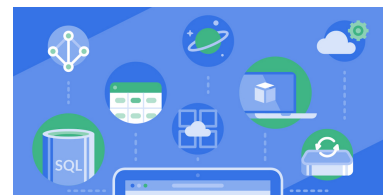
Course: Overview of Azure Services

9m



#2

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/>

#3

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.

 </course/overview-of-azure-services/managing-azure-services/>

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## Managing Services

### Course:Overview of Azure Services

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#4



Which service within the Azure DevOps suite allows you to create continuous workflows to build, test and deploy code?



Azure Pipelines



Azure Boards



Azure DevTest Labs



Azure Repos

Explanation

The DevOps approach has spread rapidly in organizations around the world. If you're not familiar with it, the idea is that you can automate large portions of the building, testing, and releasing of application updates. Microsoft offers a suite of services called Azure DevOps to help you implement these processes. The most important service in this suite is called Azure Pipelines. It lets you create automated workflows to continuously build, test, and deploy code.

 </course/overview-of-azure-services/azure-service-categories/>

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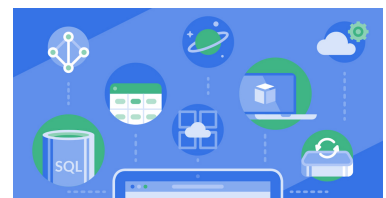
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#5



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.

 </course/overview-of-azure-services/azure-service-categories/>

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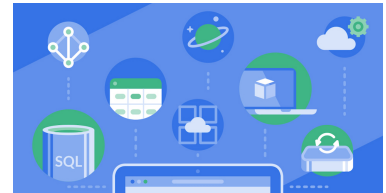
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#6



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



Azure Synapse Analytics



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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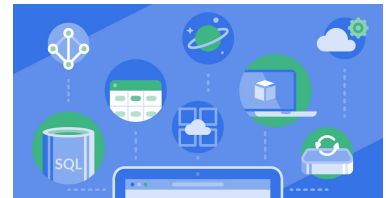
Service Categories

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#7



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.

 </course/overview-of-azure-services/managing-azure-services/>

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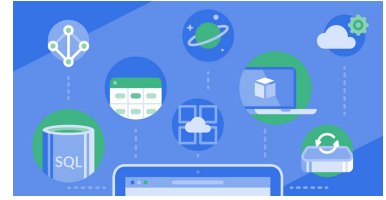
Managing Services

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#8



Which Azure service is ideal for developers with little to no experience with machine learning who want to add pre-built artificial intelligence services to their applications?



Azure Cognitive Services



Azure Machine Learning Studio



Azure Machine Learning Services



Azure Analysis Services

Explanation

Microsoft offers lots of different AI services. If you're new to AI, then the best place to start is Azure Cognitive Services. This is a collection of pre-built artificial intelligence tools. These services let you add AI capabilities to applications even if you don't know anything about machine learning.

They're grouped into five categories: decision, language, speech, vision, and web search.

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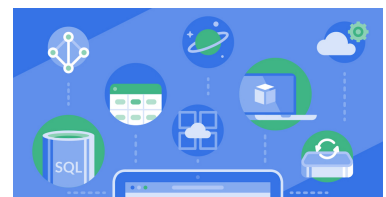
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#9



How does Azure CDN improve the performance of web applications hosted on Azure?



It caches frequently accessed content in locations close to your customers.



It automatically scales the number of virtual machines required to process incoming read requests.



It transmits data to customers over private, high-bandwidth connections rather than over the public internet.



It caches incoming read requests for frequently accessed data and improves the performance of application databases.

Explanation

One really helpful service for speeding up the responsiveness of your applications is Azure Content Delivery Network, which lets you take advantage of Microsoft's extensive global network. It caches your most frequently accessed content in locations around the world so your end-users will retrieve it from the closest point on the network. This really helps with making your web applications feel more like local applications.

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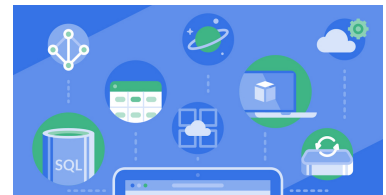
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#10



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>

Covered in this lecture

DEMO: Creating a Storage Account

Course:Introduction to Azure Storage

9m



#11



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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#12



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.

</course/overview-of-azure-services/azure-service-categories/>

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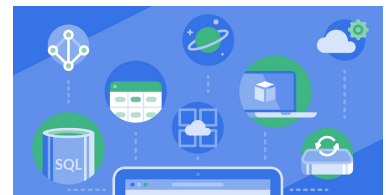
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#13



What Azure Cloud compute service is useful when planning a 'lift-and-shift' migration of an application from an on-premises environment to the Azure Cloud?



Azure Virtual Machines



Azure Functions



Azure Container Instances



Azure DevOps

Explanation

If you currently have an application running on a Windows or Linux server, then the most straightforward way to migrate it to Azure is to do what's called a "lift and shift" migration. That is, you simply lift the application from your on-premises server and shift it to a virtual server in the cloud. Azure VMs are known as Infrastructure-as-a-Service because they're traditional IT infrastructure components that are offered as a service.

 </course/overview-of-azure-services/azure-overview/>

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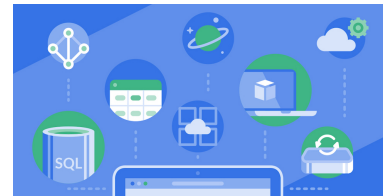
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#14



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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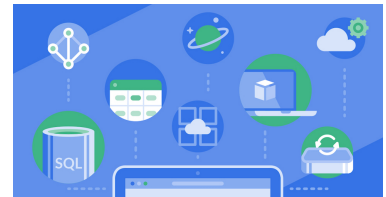
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#15



Which Azure service should you use if you want to provide load balancing for VMs or web apps that are distributed across multiple regions?



Azure Monitor



Azure Traffic Manager



Azure ExpressRoute



Azure Container Networking Interface

## Explanation

If you want to provide load balancing for VMs or web apps that are distributed across multiple regions, then you'll need to use Azure Traffic Manager.

 </course/designing-an-azure-network-implementation/azure-load-balancing/>

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Load Balancing

Course: Designing an Azure Network Implementation

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