

Prüfungsnummer:AZ-304

Prüfungsname: Microsoft Azure
Architect Design

Version:demo

<https://www.it-exams.fr/>

Q1

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployments in your subscription.

What should you include in the recommendation?

- A. the Change Tracking management solution
- B. Application Insights
- C. Azure Monitor action groups
- D. Azure Activity Log

Answer: D

Explanation:

Activity logs are kept for 90 days. You can query for any range of dates, as long as the starting date isn't more than 90 days in the past.

Through activity logs, you can determine:

what operations were taken on the resources in your subscription

who started the operation

when the operation occurred

the status of the operation

the values of other properties that might help you research the operation

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs>

Q2

You have an Azure subscription that contains an Azure SQL database named DB1.

Several queries that query the data in DB1 take a long time to execute.

You need to recommend a solution to identify the queries that take the longest to execute.

What should you include in the recommendation?

- A. SQL Database Advisor

- B. Azure Monitor
- C. Performance Recommendations
- D. Query Performance Insight

Answer: D

Explanation:

Query Performance Insight provides intelligent query analysis for single and pooled databases. It helps identify the top resource consuming and long-running queries in your workload. This helps you find the queries to optimize to improve overall workload performance and efficiently use the resource that you are paying for.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/query-performance-insight-use>

Q3

HOTSPOT

You have an Azure App Service Web App that includes Azure Blob storage and an Azure SQL Database instance. The application is instrumented by using the Application Insights SDK.

You need to design a monitoring solution for the web app.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scenario

Correlate Azure resource usage and performance data with application configuration and performance data.

Visualize the relationships between application components.

Track requests and exceptions to a specific line of code within the application.

Analyze how many users return to the application and how often they select a particular dropdown value.

Azure monitoring service

	▼
Azure Application Insights	
Azure Service Map	
Azure Monitor Logs	
Azure Activity Log	

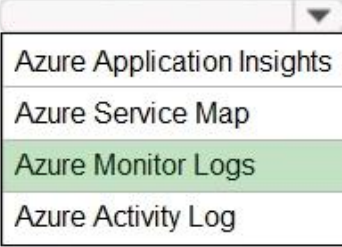
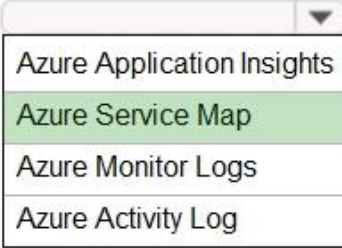

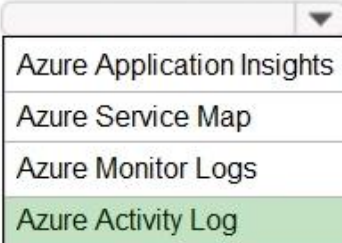
	▼
Azure Application Insights	
Azure Service Map	
Azure Monitor Logs	
Azure Activity Log	

	▼
Azure Application Insights	
Azure Service Map	
Azure Monitor Logs	
Azure Activity Log	

	▼
Azure Application Insights	
Azure Service Map	
Azure Monitor Logs	
Azure Activity Log	

Answer:

Answer Area

Scenario	Azure monitoring service
Correlate Azure resource usage and performance data with application configuration and performance data.	 <p>Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log</p>
Visualize the relationships between application components.	 <p>Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log</p>
Track requests and exceptions to a specific line of code within the application.	 <p>Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log</p>
Analyze how many users return to the application and how often they select a particular dropdown value.	 <p>Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log</p>

Explanation:

Note: You can select Logs from either the Azure Monitor menu or the Log Analytics workspaces menu.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/log-query-overview>

You have an on-premises Hyper-V cluster. The cluster contains Hyper-V hosts that run Windows Server 2016 Datacenter. The hosts are licensed under a Microsoft Enterprise Agreement that has Software Assurance.

The Hyper-V cluster contains 30 virtual machines that run Windows Server 2012 R2. Each virtual machine runs a different workload. The workloads have predictable consumption patterns.

You plan to replace the virtual machines with Azure virtual machines that run Windows Server 2016. The virtual machines will be sized according to the consumption pattern of each workload.

You need to recommend a solution to minimize the compute costs of the Azure virtual machines.

Which two recommendations should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure a spending limit in the Azure account center.
- B. Create a virtual machine scale set that uses autoscaling.
- C. Activate Azure Hybrid Benefit for the Azure virtual machines.
- D. Purchase Azure Reserved Virtual Machine Instances for the Azure virtual machines.
- E. Create a lab in Azure DevTest Labs and place the Azure virtual machines in the lab.

Answer: CD

Explanation:

C: For customers with Software Assurance, Azure Hybrid Benefit for Windows Server allows you to use your on-premises Windows Server licenses and run Windows virtual machines on Azure at a reduced cost. You can use Azure Hybrid Benefit for Windows Server to deploy new virtual machines with Windows OS.

D: With Azure Reserved VM Instances (RIs) you reserve virtual machines in advance and save up to 80 percent.

Reference:

<https://azure.microsoft.com/en-us/pricing/reserved-vm-instances/>

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/hybrid-use-benefit-licensing>

Q5

HOTSPOT

You have an Azure subscription that contains the SQL servers on Azure shown in the following table.

Name	Resource group	Location
SQLsvr1	RG1	East US
SQLsvr2	RG2	West US

The subscription contains the storage accounts shown in the following table.

Name	Resource group	Location	Account kind
storage1	RG1	East US	StorageV2 (general purpose v2)
storage2	RG2	West US	BlobStorage

You create the Azure SQL databases shown in the following table.

Name	Resource group	Server	Pricing tier
SQLdb1	RG1	SQLsvr1	Standard
SQLdb2	RG1	SQLsvr1	Standard
SQLdb3	RG2	SQLsvr2	Premium

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	<input type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb2, you can store the audit information to storage2.	<input type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb3, you can store the audit information to storage2.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	<input checked="" type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb2, you can store the audit information to storage2.	<input type="radio"/>	<input checked="" type="radio"/>
When you enable auditing for SQLdb3, you can store the audit information to storage2.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Box 1: Yes

Be sure that the destination is in the same region as your database and server.

Box 2: No

Box 3: No

Reference:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing>

Q6

A company has a hybrid ASP.NET Web API application that is based on a software as a service (SaaS) offering.

Users report general issues with the data. You advise the company to implement live monitoring and use ad hoc queries on stored JSON data. You also advise the company to set up smart alerting to detect anomalies in the data.

You need to recommend a solution to set up smart alerting.

What should you recommend?

- A. Azure Site Recovery and Azure Monitor Logs
- B. Azure Data Lake Analytics and Azure Monitor Logs
- C. Azure Application Insights and Azure Monitor Logs

D. Azure Security Center and Azure Data Lake Store

Answer: B

Explanation:

Application Insights, a feature of Azure Monitor, is an extensible Application Performance Management (APM) service for developers and DevOps professionals. Use it to monitor your live applications. It will automatically detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview>

Q7

You have an Azure subscription that is linked to an Azure Active Directory (Azure AD) tenant. The subscription contains 10 resource groups, one for each department at your company.

Each department has a specific spending limit for its Azure resources.

You need to ensure that when a department reaches its spending limit, the compute resources of the department shut down automatically.

Which two features should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Logic Apps
- B. Azure Monitor alerts
- C. the spending limit of an Azure account
- D. Cost Management budgets
- E. Azure Log Analytics alerts

Answer: CD

Explanation:

C: The spending limit in Azure prevents spending over your credit amount. All new customers who sign up for an Azure free account or subscription types that include credits over multiple months have the spending limit turned on by default. The spending limit is equal to the amount of credit and it can't be changed.

D: Turn on the spending limit after removing

This feature is available only when the spending limit has been removed indefinitely for

subscription types that include credits over multiple months. You can use this feature to turn on your spending limit automatically at the start of the next billing period.

1. Sign in to the Azure portal as the Account Administrator.
2. Search for Cost Management + Billing.
3. Etc.

Reference:

<https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/spending-limit>

Q8

HOTSPOT

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Kind	Location
storage1	Azure Storage account	Storage	East US
storage2	Azure Storage account	StorageV2	East US
Workspace1	Azure Log Analytics workspace	<i>Not applicable</i>	East US
Workspace2	Azure Log Analytics workspace	<i>Not applicable</i>	East US
Hub1	Azure event hub	<i>Not applicable</i>	East US

You create an Azure SQL database named DB1 that is hosted in the East US region.

To DB1, you add a diagnostic setting named Settings1. Settings1 archives SQLInsights to storage1 and sends SQLInsights to Workspace1.

For each of the following statements, select Yes if the statement is true, Otherwise, select No.

Hot Area:

Answer Area

Statements	Yes	No
You can add a new diagnostic setting that archives SQLInsights logs to storage2.	<input type="radio"/>	<input type="radio"/>
You can add a new diagnostic setting that sends SQLInsights logs to Workspace2.	<input type="radio"/>	<input type="radio"/>
You can add a new diagnostic setting that sends SQLInsights logs to Hub1.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
You can add a new diagnostic setting that archives SQLInsights logs to storage2.	<input type="radio"/>	<input checked="" type="radio"/>
You can add a new diagnostic setting that sends SQLInsights logs to Workspace2.	<input checked="" type="radio"/>	<input type="radio"/>
You can add a new diagnostic setting that sends SQLInsights logs to Hub1.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Box 1: No

You archive logs only to Azure Storage accounts.

Box 2: Yes

Box 3: Yes

Sending logs to Event Hubs allows you to stream data to external systems such as third-party SIEMs and other log analytics solutions.

Note: A single diagnostic setting can define no more than one of each of the destinations. If you want to send data to more than one of a particular destination type (for example, two

different Log Analytics workspaces), then create multiple settings. Each resource can have up to 5 diagnostic settings.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostic-settings>