



AZ-301^{Q&As}

Microsoft Azure Architect Design

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QUESTION 1

You plan to run an image rendering workload in Azure. The workload uses parallel compute processes.

What is the best service to use to run the workload? More than one answer choice may achieve the goal. Select the BEST answer.

- A. an Azure virtual machine scale set
- B. Azure Kubernetes Service (AKS)
- C. Azure Batch
- D. Azure Container Service

Correct Answer: C

Azure Batch works well with intrinsically parallel (also known as "embarrassingly parallel") workloads. Intrinsically parallel workloads are those where the applications can run independently, and each instance completes part of the work. When the applications are executing, they might access some common data, but they do not communicate with other instances of the application. Intrinsically parallel workloads can therefore run at a large scale, determined by the amount of compute resources available to run applications simultaneously.

Reference: <https://docs.microsoft.com/en-us/azure/batch/batch-technical-overview>

QUESTION 2

Note: This question is a part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:

1.
The researchers must be allowed to create Azure virtual machines.
2.
The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: On RG1, assign a custom role-based access control (RBAC) role to the ResearchUsers group.



Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead: On RG1, assign the Contributor role to the ResearchUsers group. Create a custom Azure Policy definition and assign the policy to RG1.

QUESTION 3

Note: This question is a part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application to a web app hosted in an isolated App Service plan on VNET1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, use VNet Integration.

Note: VNet Integration gives your web app access to resources in your virtual network. VNet Integration is often used to enable access from apps to a databases and web services running in your VNet.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/web-sites-integrate-with-vnet>

QUESTION 4

You plan to use Azure Site Recovery to protect several on-premises physical server workloads. Each server workload is



independent of the other. The workloads are stateless.

You need to recommend a failover strategy to ensure that if the on-premises data center fails, the workloads are available in Azure as quickly as possible.

Which failover strategy should you include in the recommendation?

- A. Latest
- B. Latest app-consistent
- C. Latest multi-VM processed
- D. Latest processed

Correct Answer: D

Reference: <https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-failover>

QUESTION 5

DRAG DROP

You have standard Load balancer configured to support three virtual machines on the same subnet.

You need to recommend a solution to notify administrators when the load balancer fails.

Which metrics should you recommend using to test the load balancer? To answer, drag the appropriate metrics to the correct conditions. Each metric may be used once, more than once, or not at all. You may need to drag the split bar

between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Metrics	Answer Area
Byte Count	Data Path Availability
Health Probe Status	Packet Count
SNAT Connection Count	SYN Count
	Backend instance health: <input type="text"/>
	Outbound port exhaustion: <input type="text"/>

Correct Answer:

Backend instance health: Health Probe Status Health Probe Status (DIP Availability): Standard Load Balancer uses a distributed health-probing service that monitors your application endpoint's health according to your configuration settings. This metric provides an aggregate or per-endpoint filtered view of each instance endpoint in the load balancer pool. You can see how Load Balancer views the health of your application, as indicated by your health probe configuration.



Metrics

Byte Count

Data Path Availability
Packet Count
SYN Count

Answer Area

Backend instance health:	Health Probe Status
Outbound port exhaustion:	SNAT Connection Count

Outbound port exhaustion: SNAT connection Count SNAT connections: Standard Load Balancer reports the number of outbound flows that are masqueraded to the Public IP address front end. Source network address translation (SNAT) ports are an exhaustible resource. This metric can give an indication of how heavily your application is relying on SNAT for outbound originated flows. Counters for successful and failed outbound SNAT flows are reported and can be used to troubleshoot and understand the health of your outbound flows.

Reference: <https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-diagnostics>

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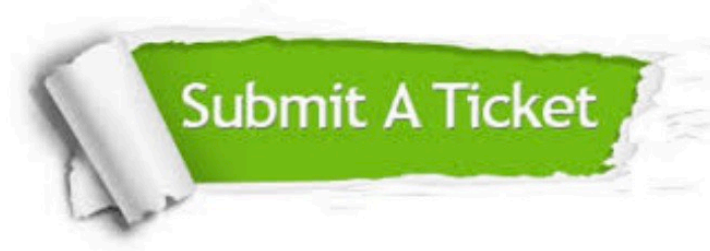
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