EXAMTOPICS

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📄 EXAM AZ-900 TOPIC 1 QUESTION 20 DISCUSSION

Actual exam question from Microsoft's AZ-900

Question #: 20

Topic #: 1

[All AZ-900 Questions]

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying a critical LOB application, which will be installed on a virtual machine, to Azure.

You are informed that the application deployment strategy should allow for a guaranteed availability of 99.99 percent. You need to make sure that the strategy requires as little virtual machines and availability zones as possible.

Solution: You include one virtual machine and two availability zones in your strategy.

Does the solution meet the goal?

  A. Yes

  B. No

Show Suggested Answer

by 👤 **iwarakorn** at *July 1, 2021, 6:31 a.m.*

Comments

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kate_py `Highly Voted 👍` 3 years, 3 months ago

For all Virtual Machines that have TWO or more instances deployed across two or more Availability Zones in the same Azure region, we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.99% of the time. "SLA for Virtual Machines Last updated: July 2020", https://azure.microsoft.com/en-us/support/legal/sla/virtual-machines/v1_9/

That was cited in: https://docs.microsoft.com/en-us/azure/availability-zones/az-overview after '
With Availability Zones, Azure offers industry best 99.99% VM uptime SLA. '

👍 ↩ 🏳 upvoted 39 times

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   awsORbust 3 years, 2 months ago

   Answer is A YES. The strategy listed in the question is looking for the absolute minimum VMs and AZ's needed to give 99% availability. This requires a minimum of 2VMs and 2 AZ's. Anything less would give 99.95% availability.

   👍 ↩ 🏳 upvoted 7 times

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      pgcool 6 months ago

      According to your explnation, Answer should be B. WHY are you saying A ?

      👍 ↩ 🏳 upvoted 5 times

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   eternaleclipse 3 years, 2 months ago

   One VM deployed to two zones using a load balancer. Minimizes VMs even further while maintaining 99.99%. Taken from Azure Learning.

   👍 ↩ 🏳 upvoted 4 times

      KnoxW 2 years, 7 months ago

      you can not deploy one VM to 2 zones. there's no configuration for one VM to sit within 2 zones. when creating VM and if you select multiple zones, the small print says: Select multiple zones will create one VM per zone. https://docs.microsoft.com/en-us/azure/virtual-machines/windows/quick-create-portal

      👍 ↩ 🏳 upvoted 27 times

         Lekshmi_rl 6 months ago

         I do agree with this statement.

         👍 ↩ 🏳 upvoted 4 times

BinuRaj `Highly Voted 👍` 1 month ago

Answer correct.

SLA for Virtual Machines
Last updated: July 2020

For all Virtual Machines that have two or more instances deployed across two or more Availability Zones in the same Azure region, we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.99% of the time.
For all Virtual Machines that have two or more instances deployed in the same Availability Set or in the same Dedicated Host Group, we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.95% of the time.
For any Single Instance Virtual Machine using Premium SSD or Ultra Disk for all Operating System Disks and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 99.9%.
For any Single Instance Virtual Machine using Standard SSD Managed Disks for Operating System Disk and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 99.5%.
For any Single Instance Virtual Machine using Standard HDD Managed Disks for Operating System Disks and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 95%.

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skjena `Most Recent ⊘` 1 month ago

SLA for Virtual Machines Last updated: July 2020 For all Virtual Machines that have two or more instances deployed across two or more Availability Zones in the same Azure region, we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.99% of the time. For all Virtual Machines that have two or more instances deployed in the same Availability Set or in the same Dedicated Host Group, we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.95% of the time. For any Single Instance Virtual Machine using Premium SSD or Ultra Disk for all Operating System Disks and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 99.9%. For any Single Instance Virtual Machine using Standard SSD Managed Disks for Operating System Disk and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 99.5%. For any Single Instance Virtual Machine using Standard HDD Managed Disks for Operating System Disks and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 95%. Answer correct.

👍 ↩ 🏳 upvoted 1 times

8cdcc08 1 month ago

chat gpt :

Including one virtual machine and two availability zones does not meet the goal of guaranteeing 99.99 percent availability. To achieve 99.99% availability in Azure, you typically need to deploy at least two virtual machines across two or more availability

zones. This ensures that if one zone goes down, the application can continue running in the other zone, providing the required high availability. A single virtual machine cannot provide this level of availability by itself.

👍 ↩ ⚑ upvoted 2 times

intentando 11 months ago

Selected Answer: B

2 VM on +2 AZ = 99.99%
2 VM on 1 AZ = 99.95%

👍 ↩ ⚑ upvoted 7 times

AntonioTech 1 year, 1 month ago

The answer seems to be B. No

Deploying one virtual machine and two availability zones does not meet the goal of achieving a guaranteed availability of 99.99 percent. To achieve such a high level of availability, you typically need to distribute your application across multiple instances in multiple availability zones or sets.

👍 ↩ ⚑ upvoted 1 times

Cambo995 1 year, 2 months ago

Selected Answer: B

+2 VM on +2 AZ = 99.99%
+2 VM on 1 AZ = 99.95%

👍 ↩ ⚑ upvoted 8 times

james2033 1 year, 2 months ago

What is "LOB"?

👍 ↩ ⚑ upvoted 2 times

Cambo995 1 year, 2 months ago

It stands for Line of Business. LOB applications refer to software applications that are specifically designed to support the core business functions of an organization

👍 ↩ ⚑ upvoted 5 times

aerumna 1 year, 3 months ago

You need at least 2 VM in 2 different AZ. With a single VM having multiple AZ has no effect, because (of course?) VM cannot spans AZs

👍 ↩ ⚑ upvoted 2 times

Noobincloudspace 1 year, 5 months ago

Answer is NO

For any Single Instance Virtual Machine using Premium SSD or Ultra Disk for all Operating System Disks and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 99.9%.
refer : https://www.azure.cn/en-us/support/sla/virtual-machines/index.html

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Logan987 1 year, 7 months ago

B is the correct answer

👍 ↩ ⚑ upvoted 1 times

emptyH 1 year, 8 months ago

you need at least 2 vms along with the 2 zones for this percentage up uptime

👍 ↩ ⚑ upvoted 1 times

Kanders 1 year, 8 months ago

B. No - You will need a minimum of two VMs across two availability zones to reach 99.99 %

👍 ↩ ⚑ upvoted 1 times

Luansi 1 year, 10 months ago

Selected Answer: B

https://azure.microsoft.com/en-us/support/legal/sla/virtual-machines/v1_9/
For any Single Instance Virtual Machine using Premium SSD, Ultra Disk or Premium SSD v2 for all Operating System Disks and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 99.9%.
CONCLUSSION: For a single VM instance you only have to see the disk, not availability zones.

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MarMar2022 2 years ago

Selected Answer: B

B definetly

☐ 👤 **KnoxW** 2 years, 7 months ago

the strategy can pass SLA but fail LOB as there's only 1 VM hence the answer is No.

☐ 👤 **james2033** 1 year, 2 months ago

What is "LOB"?

☐ 👤 **janely03** 2 years, 7 months ago

The answer is NO.
https://docs.microsoft.com/en-us/azure/architecture/framework/services/compute/virtual-machines/operational-excellence
95% SLA for single instance virtual machines using Standard HDD-Managed Disks for OS and Data disks.
99.5% SLA for single instance virtual machines using Standard SSD-Managed Disks for OS and Data disks.
99.9% SLA for single instance virtual machines using Premium SSD or Ultra Disk for all OS and Data disks.
99.95% SLA for all virtual machines that have two or more instances in the same Availability Set or Dedicated Host Group.
99.99% SLA for all virtual machines that have two or more instances deployed across two or more Availability Zones in the same region.

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