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Exam AZ-900 All Questions

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EXAM AZ-900 TOPIC 1 QUESTION 19 DISCUSSION

Actual exam question from Microsoft's AZ-900

Question #: 19

Topic #: 1

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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 two virtual machines and one availability zone in your strategy.

Does the solution meet the goal?

A. Yes

B. No


Show Suggested Answer

by  [iwarakorn](#) at July 1, 2021, 6:29 a.m.

Comments

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 **BinuRaj** Highly Voted 3 years, 3 months 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 121 times

 **shadeey** 2 years, 10 months ago


while the text you are showing is correct, the answer is NO.
to ensure 99.99 SLA you need 2 VMs in 2 availability zones

   upvoted 70 times

 **Hoeishetmogelijk** 1 year, 5 months ago

Exactly!

   upvoted 1 times


 **iwarakorn** Highly Voted 3 years, 3 months ago

Answer is NO

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.

   upvoted 43 times

 **laksPRI** Most Recent 4 days, 21 hours ago

B. No

Availability Zones in Azure provide high availability by distributing resources across physically separate locations within an Azure region. To achieve a guaranteed availability of 99.99%, you typically need to leverage more than one Availability Zone.

Including just one Availability Zone does not provide the redundancy required to ensure 99.99% availability, as a single Availability Zone can still be a single point of failure.

A more appropriate strategy would be to use two virtual machines spread across two different Availability Zones. This way, if one Availability Zone goes down, the other can still ensure the availability of the application, thus meeting the 99.99% availability requirement.

So, including two virtual machines but only one availability zone does not meet the goal.

   upvoted 1 times

 **AlefZERO** 1 month, 2 weeks ago

Selected Answer: B

Availability zones are meant to provide resilience - devices from different availability zones are physically separate over large distances - this ensures security.
Having only one availability zone provides no resilience at all.

   upvoted 2 times

 **mattpaul** 2 months, 1 week ago

Selected Answer: B

Agree with the given answer

   upvoted 2 times

 **Payu1994** 6 months, 3 weeks ago

The proposed solution does not meet the goal of achieving a guaranteed availability of 99.99 percent. Let me explain why: Virtual Machines (VMs): Including two virtual machines is a good step for redundancy and fault tolerance. However, it's not sufficient on its own to achieve the desired availability. VMs can still experience downtime due to maintenance, failures, or other issues.

Availability Zones: The inclusion of one availability zone is a positive move, but it's not enough to meet the stringent

availability requirement. Availability zones provide isolation from data center failures within a region, but for 99.99 percent availability, we need more redundancy.

   upvoted 2 times

  **Alonsochaves** 7 months ago

Answer is no because you need at least 2 VMS and 2 Availability zones

   upvoted 1 times

  **intentando** 11 months ago

Selected Answer: B

B

   upvoted 1 times

  **AntonioTech** 1 year, 1 month ago

The answer is B. No

The solution does not meet the goal.

Azure's SLA for Virtual Machines with a single instance is 99.5% availability. To achieve a guaranteed availability of 99.99%, you would need to deploy the application in an architecture that takes advantage of Azure's higher availability options, such as Availability Zones.

For an SLA of 99.99%, deploying the application in at least two Availability Zones would be recommended. This would ensure that your application is highly available across separate physical locations, each with its own power, cooling, and networking, reducing the risk of a single point of failure. Simply deploying two virtual machines in a single Availability Zone would not achieve the desired level of availability.

   upvoted 6 times

  **Noble_Fart** 1 year, 3 months ago

Here is a better link for this info:

<https://www.azure.cn/en-us/support/sla/virtual-machines/>

   upvoted 2 times

  **louloua** 1 year, 4 months ago

two or more instances in two or more availability zones in the same azure region is 99.99%

two or more instances in the same availability set is 99.95%

   upvoted 1 times

  **Molota** 1 year, 5 months ago

Selected Answer: B

You need at least 2 virtual machines and 2 availability zone

   upvoted 2 times

  **BeauChateau** 1 year, 7 months ago

Selected Answer: B

B. No. The solution does not meet the goal. Having only two virtual machines and one availability zone cannot guarantee 99.99% availability, as it only offers 99.95% SLA. To achieve a guaranteed 99.99% availability, the strategy should include at least two or more virtual machines in two or more availability zones.

   upvoted 11 times

  **suresh_fx** 1 year, 7 months ago

No, the solution does not meet the goal.

In order to achieve a guaranteed availability of 99.99%, a higher level of redundancy and fault tolerance is required. The solution should include deploying the virtual machines across multiple availability zones or regions to provide geographic redundancy and fault tolerance. Additionally, the virtual machines should be configured with load balancing to ensure high availability and to distribute traffic evenly across the instances.

   upvoted 2 times

  **Logan987** 1 year, 7 months ago

Selected Answer: B

B is the correct answer

   upvoted 1 times

  **morpheusbn** 1 year, 7 months ago

Selected Answer: B

TWO virtual machines and TWO availability zones are the basic configuration.

Answer is B

   upvoted 1 times

  **PradeenDeenu** 1 year, 7 months ago

— 1 hour ago · 1 year, 7 months ago

Selected Answer: B

Answer B

   upvoted 1 times

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