

AZURE CLOUD (ENGLISH)

2. forduló



A kategória támogatója: MSCI

Ismertető a feladatlaphoz

Please make sure you read the instructions below before starting the worksheet:

Rankings will be shown after the 4th round, in percentage form: you will be in the top 20-40-60% in a given category.

Any questionnaire solved in a noticeably short time will be disqualified, in any other suspicious case we reserve the right to invalidate the round!

We wish you a good competition!

Relax, it's getting harder and harder. :)



This round will be about Azure DNS.

1. feladat 1 pont

Azure Private DNS supports which of the following scenarios?

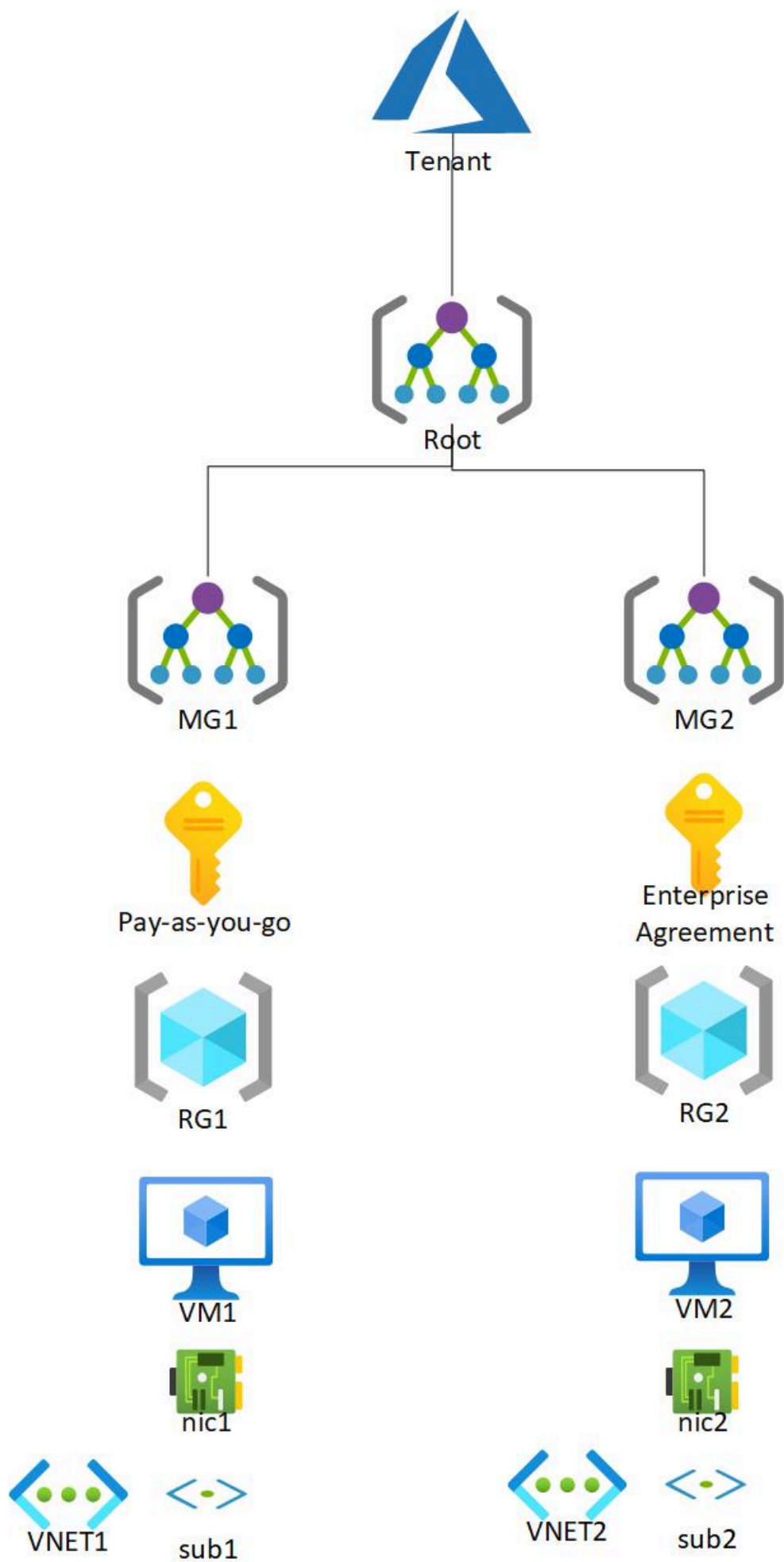
Válasz

- ☐ Organizations manage and resolve domain names in a virtual network without adding a custom DNS solution.
- ☐ Organizations manage and resolve domain names in a virtual network by adding a custom DNS solution.
- ☐ Organizations manage domain names in other organizations.

2. feladat 2 pont

You have an Azure tenant with a root Management Group and 2 Management Groups under the Root. Each Management group contains a Subscription (one Pay as you go subscription and one Enterprise Agreement subscription). Each Subscription contains a resource group. In each resource group there is a VM deployed in a

subnet.



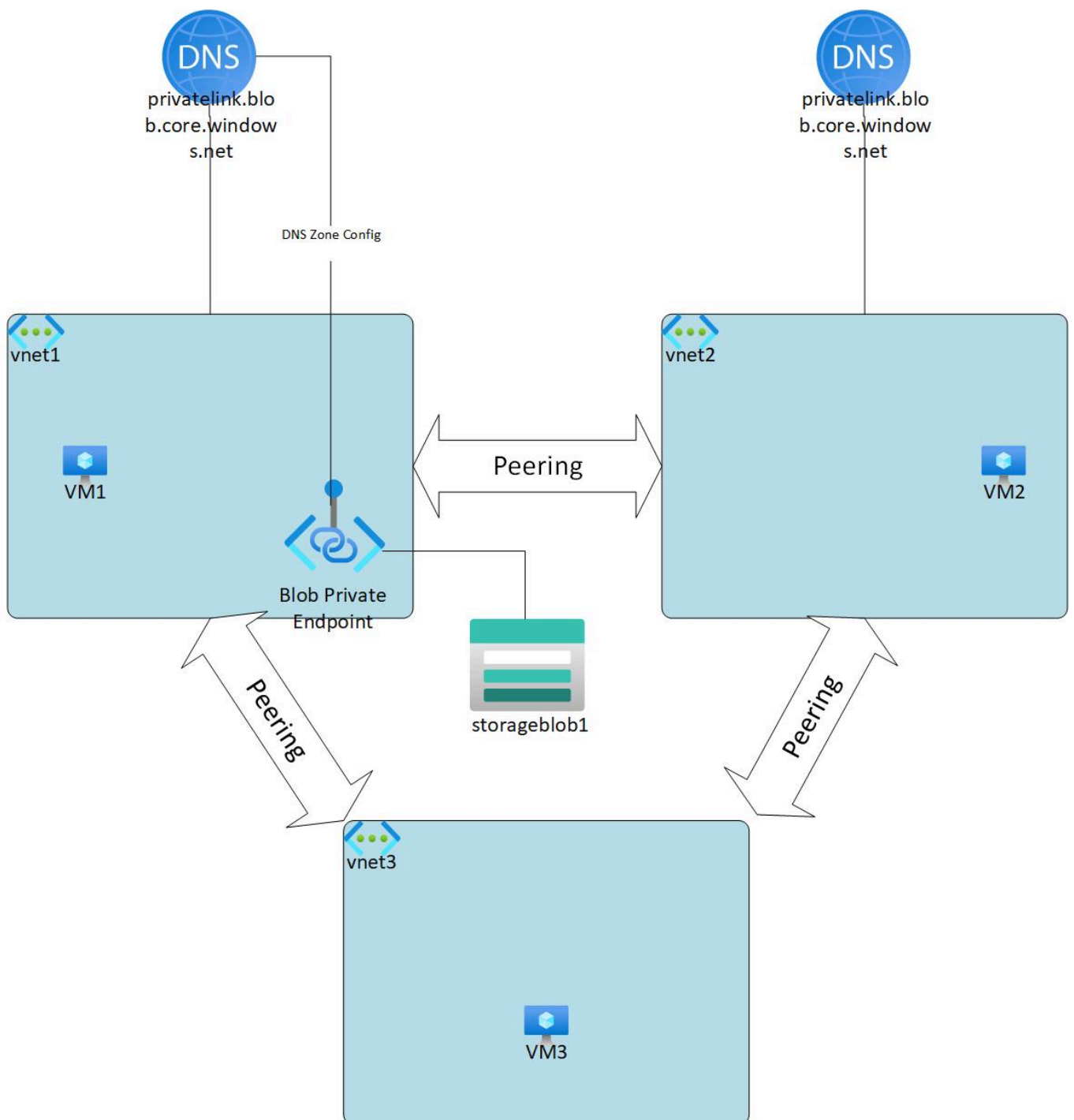
On which resources can you set custom DNS server?

Válaszok

- ☐ Virtual Network : VNET2
- ☐ Virtual Network : VNET1
- ☐ Network interfaces : NIC1 and NIC2
- ☐ Resourcegroup :RG1
- ☐ Management Group : Root
- ☐ Management Groups : MG1 and MG2
- ☐ Subnets : sub1 and sub2

3. feladat 3 pont

You have the following configuration:



VNETs :

vnet1 peered to vnet2

vnet2 peered to vnet3

vnet3 peered to vnet1.

all 3 VNETs has the default DNS server

vnet1 and vnet2 have a private DNS zone (privatelink.blob.core.windows.net) linked.

StorageAccount:

There is one storage account name: storageblob1.

storageblob1 has a blob private endpoint in vnet1

private endpoint registered to private DNS Zone linked to VNET1

Private Endpoint DNS config looks like this:

The screenshot shows the Azure portal interface for the 'blob_private_endpoint' resource. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Application security groups, DNS configuration (selected), Properties, Locks, Monitoring, Insights, Alerts, Metrics, Automation, Tasks (preview), Export template, and Help.

The main content area is titled 'blob_private_endpoint | DNS configuration'. It includes a search bar, '+ Add configuration', and a 'Refresh' button. Below this, there are two sections:

- Private DNS integration:** A message stating: 'To connect privately with your private endpoint, you need a DNS record. We recommend that you integrate your private endpoint using a private DNS zone. You can also utilize your own DNS servers. [Learn more](#)'
- Customer Visible FQDNs:** A table showing DNS records visible to the customer.

Network Interface	IP addresses	FQDN
blob_private_endpoint.nic.ae48264a-c37d-44b5-8a5c-6f85021ec...	10.0.0.4	storageblob1.blob.core.windows.net

Below the table, there is another table showing configuration details:

Configuration name	FQDN	IP address	Subscription	Private DNS zone	DNS zone group
privatelink_blob_core_windo...	storageblob1.privatelink.blob.core.windows.net	10.0.0.4	sub1	privatelink.blob.core.windows.net	default

Nslookup from the VMs :

nslookup A

```
C:\Users\admin>nslookup storageblob1.blob.core.windows.net
Server: UnKnown
Address: 168.63.129.16

Non-authoritative answer:
Name: storageblob1.privatelink.blob.core.windows.net
Address: 10.0.0.4
Aliases: storageblob1.blob.core.windows.net
```

nslookup B

```
C:\Users\admin>nslookup storageblob1.blob.core.windows.net
Server: UnKnown
Address: 168.63.129.16

Non-authoritative answer:
Name: storageblob1.blob.core.windows.net
```

nslookup C

```
C:\Users\admin>nslookup storageblob1.blob.core.windows.net
Server: UnKnown
Address: 168.63.129.16

Non-authoritative answer:
Name: blob.lvl02prdstr02a.store.core.windows.net
Address: 20.60.225.163
Aliases: storageblob1.blob.core.windows.net
storageblob1.privatelink.blob.core.windows.net
```

How can you achieve to resolve the private IP from each VNets?

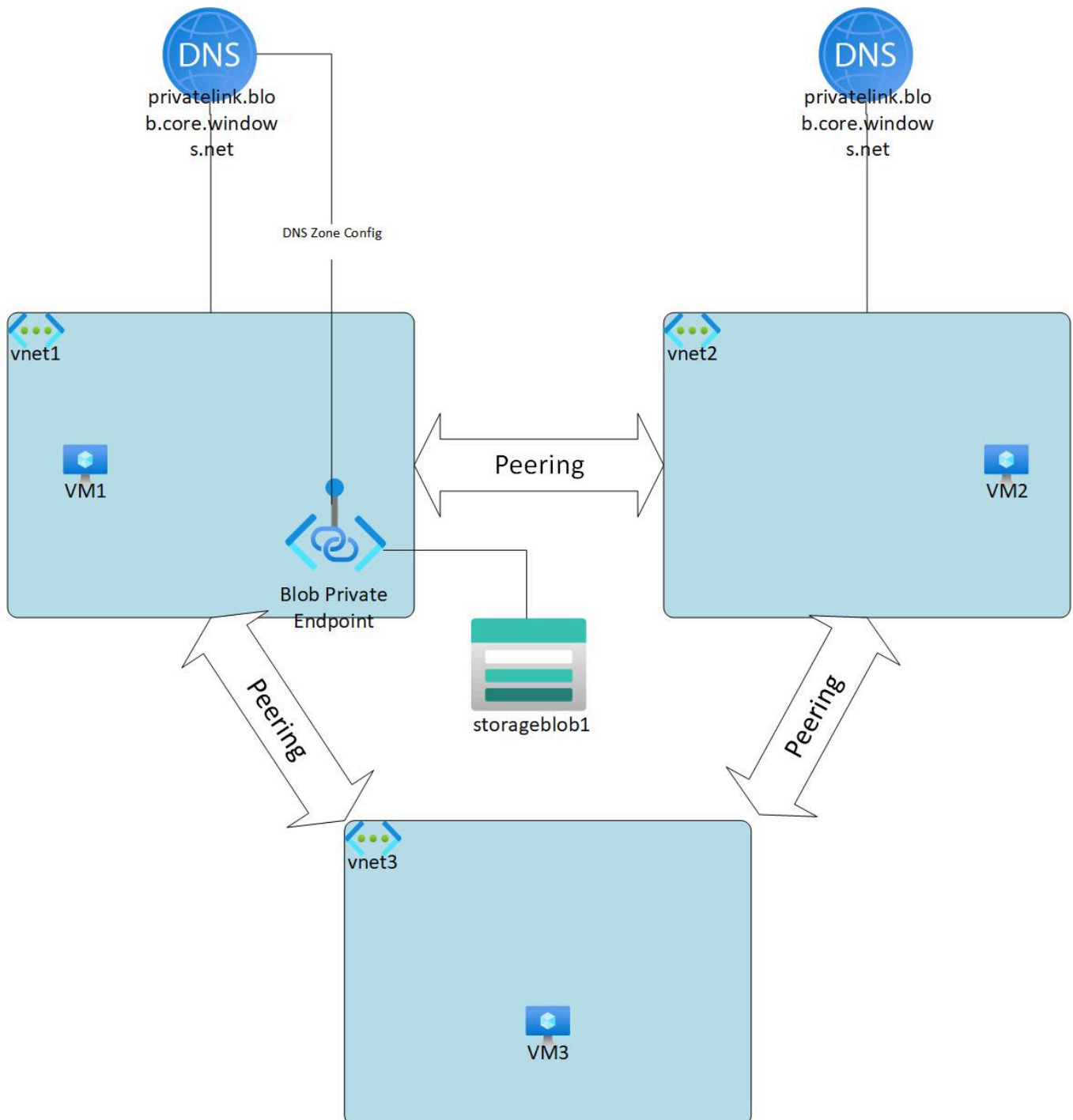
Válaszok

- ☐ Build a DNS server VM in VNET1 with IP 10.0.0.10
 - On all VNET configure custom DNS server as 10.0.0.10
 - Create a forwarder on DNS server to send all dns queries to 168.63.129.16
- ☐ Delete Private DNS Zone linked to VNET2 then link the remaining Private DNS Zone to all VNets
- ☐ Create a new ([privatelink.blob.core.windows.net](#)) Private DNS Zone and link it to VNET3

☐ Delete the peerings between VNets

4. feladat 4 pont

You have the following configuration:



VNETs :

vnet1 peered to vnet2

vnet2 peered to vnet3

vnet3 peered to vnet1.

all 3 VNETs has the default DNS server

vnet1 and vnet2 have a private DNS zone (privatelink.blob.core.windows.net) linked.

StorageAccount:

There is one storage account name: storageblob1.

storageblob1 has a blob private endpoint in vnet1

private endpoint registered to private DNS Zone linked to VNET1

Private Endpoint DNS config looks like this:

The screenshot shows the 'blob_private_endpoint | DNS configuration' page in the Azure portal. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Application security groups, DNS configuration (selected), Properties, Locks, Monitoring, Insights, Alerts, Metrics, Automation, Tasks (preview), Export template, and Help.

The main content area is titled 'Private DNS integration' and includes a note: 'To connect privately with your private endpoint, you need a DNS record. We recommend that you integrate your private endpoint using a private DNS zone. You can also utilize your own DNS servers. [Learn more](#)'.

Below this, there is a section 'Customer Visible FQDNs' with a table showing DNS records visible to the customer. The table has columns: Network Interface, IP addresses, and FQDN.

Network Interface	IP addresses	FQDN
blob_private_endpoint.nic.ae48264a-c37d-44b5-8a5c-6f85021ec...	10.0.0.4	storageblob1.blob.core.windows.net

At the bottom, there is another table showing DNS records for the private endpoint. The table has columns: Configuration name, FQDN, IP address, Subscription, Private DNS zone, and DNS zone group.

Configuration name	FQDN	IP address	Subscription	Private DNS zone	DNS zone group
privatelink_blob_core_windo...	storageblob1.privatelink.blob.core.windows.net	10.0.0.4	sub1	privatelink.blob.core.windows.net	default

where Private DNS zone is the one linked

Nslookup from the VMs :

nslookup A

```
C:\Users\adm1n>nslookup storageblob1.blob.core.windows.net
Server: UnKnown
Address: 168.63.129.16

Non-authoritative answer:
Name: storageblob1.privatelink.blob.core.windows.net
Address: 10.0.0.4
Aliases: storageblob1.blob.core.windows.net
```

nslookup B

```
C:\Users\adm1n>nslookup storageblob1.blob.core.windows.net
Server: UnKnown
Address: 168.63.129.16

Non-authoritative answer:
Name: storageblob1.blob.core.windows.net
```

nslookup C

```
C:\Users\adm1n>nslookup storageblob1.blob.core.windows.net
Server: UnKnown
Address: 168.63.129.16

Non-authoritative answer:
Name: blob.lvl02prdstr02a.store.core.windows.net
Address: 20.60.225.163
Aliases: storageblob1.blob.core.windows.net
storageblob1.privatelink.blob.core.windows.net
```

Decide which of the following statements are true.

Válaszok

- ☐ nslookup A is from VM1
- ☐ nslookup A is from VM3
- ☐ nslookup B is from VM3
- ☐ nslookup B is from VM1
- ☐ nslookup C is form VM3
- ☐ nslookup C is from VM2
- ☐ nslookup B is from VM2

Megoldások beküldése