



Модуль 5. Кубер | Add - AnkiWeb | app.landsite.a... | myLoadBalancer | Azure Compute E... | Azure Load Balancer | Welcome to nginx | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbdbb39b7/resourceGrou...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Copilot 2 ? ? ?

ukrsite@ukr.net DEFAULT DIRECTORY (UKRSITEU...)

Home > myLoadBalancer

myLoadBalancer | Backend pools

Load balancer

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Frontend IP configuration

Backend pools

Health probes

Load balancing rules

Inbound NAT rules

Outbound rules

Properties

Locks

Monitoring

Automation

Give feedback

The backend pool is a critical component of the load balancer. The backend pool defines the group of resources that will serve traffic for a given load-balancing rule. [Learn more.](#)

Backend pool 'myBackEndPool' was added to Virtual machine scale set 'myVMSS'. Upgrade all the instances of 'myVMSS' for this change to work

Backend pool	Resource Name	IP address	Network interface	Availability zone	Rules count	Resource Status	Admin state
myBackEndPool	myVMSS_2108d3d6	10.0.0.4	myvms189fnNic-693c	-	1	Running	Down
myBackEndPool	myVMSS_3b520a91	10.0.0.5	myvms189fnNic-d168	-	1	Running	Down
myBackEndPool	myVMSS_62df0e30	10.0.0.6	myvms189fnNic-e62k	-	1	Running	Down

Saved backend address pool
Successfully saved backend address pool 'myBackEndPool'.

Модуль 5. Кубер | Add - AnkiWeb | app.landsite.a | Admin state data | Azure Compute E | Azure Load Balancer | Welcome to nginx | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGrou...

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot

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Home > Load balancing | Load Balancer Admin state details

myLoadBalancer Load balancer

Search

Overview

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Settings

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Backend pools

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Outbound rules

Properties

Locks

Monitoring

Automation

Admin state setting

Admin state: None

Backend pool summary

Name: Up

Load balancing rules count: 1

Backend pool instance summary

Resource name: myVMSS_3b520a91

Network interface name: myvms189fNic-d168da3e

IP address: 10.0.0.5

Save Cancel Give feedback

```
215 ----
216
217 ## **Step 7: Simulate VM Failure and Verify Load
   Balancer Behavior**
218 ### **Step 7.1: Stop One Instance**
219 ````bash
220 az vmss stop \
221   --resource-group myResourceGroup \
222   --name myVMSS \
223   --instance-ids 0
224 `````
225
226 ### **Step 7.2: Verify Load Balancer Behavior**
227 Try accessing the **public IP** again. The Load
   Balancer should stop routing traffic to the failed
   az network lb create
```

1 match; Copied 88 characters

Spaces: 2

Java

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Модуль 5. Кубер | Add - AnkiWeb | app.landsite.e | Virtual machines | Azure Compute | Azure Load Balancer | Welcome to nginx | +

portal.azure.com/#browse/Microsoft.Compute%2FVirtualMachines

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot

ukrsite@ukr.net DEFAULT DIRECTORY (UKRSITE...)

Home > Virtual machines

Default Directory (ukrsiteukr.onmicrosoft.com)

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

No grouping List view

Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disk
myVMSS_2108d3d6	Azure subscription 1	myResourceGroup	East US	Running	Linux	Standard_B1s	20.185.52.250	1
myVMSS_3b520a91	Azure subscription 1	myResourceGroup	East US	Running	Linux	Standard_B1s	20.185.52.250	1
myVMSS_62df0e30	Azure subscription 1	myResourceGroup	East US	Running	Linux	Standard_B1s	20.185.52.250	1

< Previous Page 1 of 1 Next >

Give feedback

any other challenges!

```
183
184 ## **Step 6: Scale VMSS and Verify Load Balancer**
185 ### **Step 6.1: Increase the Number of Instances**
186 Scale the VMSS to **three instances**.
187
188 ```bash
189 az vmss scale \
190   --resource-group myResourceGroup \
191   --name myVMSS \
192   --new-capacity 3
193 ```
194
195
196
```

```
az network lb create
```

Find

Find Prev

Find All

Spaces: 2

Java

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Portal URL: portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGrou...

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot

ukrsite [~]\$ curl http://20.185.52.250

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
body {
    width: 35em;
    margin: 0 auto;
    font-family: Tahoma, Verdana, Arial, sans-serif;
}
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>
<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>. <br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>
<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```

ukrsite [~]\$

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myLoadBalancer - Microsoft Edge | Azure Compute Services | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot

Home > Load balancing | Load Balancer >

myLoadBalancer

Load balancer

Search Move Delete Refresh Give feedback

Overview

Resource group (move) : myResourceGroup

Location : East US

Subscription (move) : Azure subscription 1

Subscription ID : bf75502e-bab2-4709-9623-046fbddb39b7

SKU : Standard

Backend pool : myBackEndPool (2 virtual machines)

Load balancing rule : myLoadBalancingRule (Tcp/80)

Health probe : myHealthProbe (Tcp:80)

NAT rules : 0 inbound

Tier : Regional

Public IP address : 20.185.52.250 (myPublicIP)

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Frontend IP configuration

Backend pools

Health probes

Load balancing rules

Inbound NAT rules

Outbound rules

Properties

Locks

Monitoring

Automation

JSON View

Essentials

See less

Configure high availability and scalability for your applications

Create highly-available and scalable applications in minutes by using built-in load balancing for cloud services and virtual machines. Azure Load Balancer supports TCP/UDP-based protocols and protocols used for real-time voice and video messaging applications. [Learn more](#)

Balance IPv4 and IPv6 addresses

Build highly reliable applications

Secure your networks

```
untitled Practical Task 3- Configuring an Azure Load Balancer.java X Linux VM Setup and NSG Configuration on Azure.java X untitled untitled

163 ``
164
165 ### **Step 5: Verify the NSG Rule**
166 You can now verify the rule by listing the NSG rules
    again:
167
168 ```bash
169 az network nsg rule list \
170   --resource-group myResourceGroup \
171   --nsg-name myNSG \
172   --output table
173 ``
174
175 ### **Step 6: Retry Accessing the Site**
176 After making sure the inbound HTTP rule is set and the
    az network lb create

.* Aa "" C= Find Find Prev Find All
Spaces: 2 Java
```

```
152 `````
153
154 ### **Step 4: Attach the VMSS Subnet**
155 Once the NSG is ready, attach it to your subnet:
156
157 ````bash
158 az network vnet subnet update \
159   --resource-group myResourceGroup \
160   --vnet-name myVNet \
161   --name mySubnet \
162   --network-security-group myNSG
163 ``````
164
165 ### **Step 5: Verify the NSG Rule**
166 You can now verify the rule by listing the NSG rules
    az network lb create
```

```
152 `````
153
154 ### **Step 4: Attach the VMSS Subnet**
155 Once the NSG is ready, attach it to your subnet:
156
157 ````bash
158 az network vnet subnet update \
159   --resource-group myResourceGroup \
160   --vnet-name myVNet \
161   --name mySubnet \
162   --network-security-group myNSG
163 ``````
164
165 ### **Step 5: Verify the NSG Rule**
166 You can now verify the rule by listing the NSG rules
    az network lb create
```

1 match; Copied 144 characters

Spaces: 2

Java

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myNSG - Microsoft Azure | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) Copilot

Home > Resource groups > myResourceGroup >

myNSG Network security group

Search Move Delete Refresh Give feedback Tags (edit) : Add tags

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Priority ↑ Name ↑ Port ↑ Protocol ↑ Source ↑ Destination ↑ Action ↑

Inbound Security Rules

Priority	Name	Port	Protocol	Source	Destination	Action
1000	Allow-HTTP	80	Tcp	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBal...	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Outbound Security Rules

Priority	Name	Port	Protocol	Source	Destination	Action
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Switch to PowerShell Restart Manage files New session Editor Web preview Settings Help

```
"sourcePortRanges": [],
"type": "Microsoft.Network/networkSecurityGroups/securityRules"
}
```

https://portal.azure.com/#

```
untitled Practical Task 3- Configuring an Azure Load Balancer.java X Linux VM Setup and NSG Configuration on Azure.java X untitled untitled
136 ### **Step 3: Add HTTP Inbound Rule to the NSG**
137 Now that the NSG is created or you have found an existing one,
     add the rule to allow inbound HTTP traffic on port **80**:
138
139 ````bash
140 az network nsg rule create \
141   --resource-group myResourceGroup \
142   --nsg-name myNSG \
143   --name Allow-HTTP \
144   --protocol Tcp \
145   --direction Inbound \
146   --priority 1000 \
147   --source-address-prefixes '*' \
148   --source-port-ranges '*' \
149   --destination-address-prefixes '*' \
150   --destination-port-ranges 80 \
151   --access Allow
152 ````

az network lb create
```

1 match; Copied 323 characters

Spaces: 2

Java

```
untitled Practical Task 3- Configuring an Azure Load Balancer.java Linux VM Setup and NSG Configuration on Azure.java untitled untitled

126
127 ### **Step 2: Create a New NSG (if none exists)**
128 If no NSG exists, you can create a new one. Run the
following command to create a new **Network Security
Group (NSG)**:
129
130 ```bash
131 az network nsg create \
132   --resource-group myResourceGroup \
133   --name myNSG
134
135
136 ### **Step 3: Add HTTP Inbound Rule to the NSG**
137 Now that the NSG is created or you have found an
existing one. add the rule to allow inbound HTTP
az network lb create
Find Find Prev Find All
1 match; Copied 75 characters Spaces: 2 Java
```

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myLoadBalancer - Microsoft Edge | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@uksiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups/myResourceGroup/providers/Microsoft.Network/loadBalancers/myLoadBalancer/backendPools

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) Copilot 1 ? ? ? ? uksite@ukr.net DEFAULT DIRECTORY

Home > myVMSS | Load balancing > myLoadBalancer

myLoadBalancer | Backend pools

Load balancer

Search Add Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Backend pools

The backend pool is a critical component of the load balancer. The backend pool defines the group of resources that will serve traffic for a given load-balancing rule. [Learn more.](#)

Backend pool 'myBackEndPool' was added to Virtual machine scale set 'myVMSS'. Upgrade all the instances of 'myVMSS' for this change to work

Backend pool Resource Name IP address Network interface Availability zone Rules count Resource Status Admin state

Backend pool	Resource Name	IP address	Network interface	Availability zone	Rules count	Resource Status	Admin state
myBackEndPool (2)	myVMSS_2108d3d6	10.0.0.4	myvms189fNic-693d	-	1	Running	None
	myVMSS_3b520a91	10.0.0.5	myvms189fNic-d168c	-	1	Running	None

Health probes Load balancing rules Inbound NAT rules Outbound rules Properties Locks Monitoring

Give feedback

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myVMSS - Microsoft | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot S ukrsite@ukr.net DEFAULT DIRECTORY

Home > myVMSS Virtual machine scale set

Search Move Start Restart Stop Hibernate Reimage Delete Refresh Feedback JSON View

Overview Essentials

Activity log Access control (IAM) Tags Diagnose and solve problems Instances Networking

Network settings Load balancing Application security groups Network manager

Settings Availability + scale Security Operations Monitoring

Resource group (move) : myResourceGroup Status : 2 out of 2 succeeded Location : East US Subscription (move) : Azure subscription 1 Subscription ID : bf75502e-bab2-4709-9623-046fbddb39b7 Operating system : Linux Size : Standard_B1s (2 instances) Public IP address : 20.185.52.250 Public IP address (IPv6) : - Virtual network/subnet : myVNet/mySubnet Orchestration mode : Flexible Time created : 1/16/2025, 4:23 PM UTC

Tags (edit) : Add tags Properties Monitoring Capabilities (6) Recommendations Tutorials

Virtual machine profile Operating system : Linux Capacity reservation group : - Hibernation : Disabled

Azure Spot Azure Spot : Disabled

Networking Public IP address : 20.185.52.250 Public IP address (IPv6) : - Virtual network/subnet : myVNet/mySubnet

Size Size : Standard_B1s

```
untitled Practical Task 3- Configuring an Azure Load Balancer.java Linux VM Setup and NSG Configuration on Azure.java untitled untitled
87 ## **Step 2: Create a Virtual Machine Scale Set (VMSS)**
88 We will create a **Linux VMSS** with **two instances** (B1s size)
     and a startup script to install **Nginx**.
89
90 ````bash
91 az vmss create \
92   --resource-group myResourceGroup \
93   --name myVMSS \
94   --image Ubuntu2204 \
95   --admin-username azureuser \
96   --generate-ssh-keys \
97   --vm-sku Standard_B1s \
98   --instance-count 2 \
99   --vnet-name myVNet \
100  --subnet mySubnet \
101  --load-balancer "" \
102  --custom-data cloud-init.yaml
103 ````
```

* Aa " " Find Find Prev Find All

Secure RDP Access

12 lines, 298 characters selected Spaces: 2 Java

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myLoadBalancer - Microsoft Edge | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGrou...

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Copilot 1 Settings Help

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cloud-init.yaml

```
GNU nano 6.0
#cloud-config
package_update: true
packages:
- nginx
runcmd:
- systemctl start nginx
- systemctl enable nginx
```

[Read 7 lines]

[F1 Help F2 Exit F3 Write Out F4 Where Is F5 Cut F6 Paste F7 Execute F8 Justify F9 Location F10 Go To Line F11 Undo F12 Redo M-A Set Mark M-B Copy M-C To Bracket M-D Where Was]

```
70
71 ### **Step 2.1: Configure Web Server Startup Script**
72 Create a `cloud-init.txt` file containing the startup script to
    install **Nginx**:
73
74 ````yaml
75 #cloud-config
76 package_update: true
77 packages:
78   - nginx
79 runcmd:
80   - systemctl start nginx
81   - systemctl enable nginx
82 ````

83
84 Ensure the script is in the same directory where you run the
    command.
85
```

Secure RDP Access

Find Find Prev Find All

Spaces: 2

Java

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myLoadBalancer - Microsoft Edge | Azure Compute Services | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups/myResourceGroup/providers/Microsoft.Network/loadBalancers/myLoadBalancer/loadBalancingRules

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) Copilot

Home > myLoadBalancer

myLoadBalancer | Load balancing rules

Load balancer

Search Add Refresh Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

- Frontend IP configuration
- Backend pools
- Health probes

Load balancing rules

A load balancer rule is used to define how incoming traffic is distributed to the all the instances within the backend pool. A load-balancing rule maps a given frontend IP configuration and port to multiple backend IP addresses and ports. An example would be a rule created on port 80 to load balance web traffic. [Learn more.](#)

Filter by name...

Name ↑	Protocol ↑	Backend pool ↑	Health probe ↑	Health status
myLoadBalancingRule	TCP/80	myBackEndPool	myHealthProbe	View details

Give feedback

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```
},
  "protocol": "Tcp",
  "provisioningState": "Succeeded",
  "resourceGroup": "myResourceGroup",
  "type": "Microsoft.Network/loadBalancers/loadBalancingRules"
}
ukrsite [ ~ ]$
```

```
51
52 ### **Step 4.2: Create a Load Balancing Rule**
53 This rule routes **HTTP (port 80)** traffic to the VMSS instances.
54
55 ``bash
56 az network lb rule create \
57   --resource-group myResourceGroup \
58   --lb-name myLoadBalancer \
59   --name myLoadBalancingRule \
60   --protocol Tcp \
61   --frontend-port 80 \
62   --backend-port 80 \
63   --frontend-ip-name myFrontEnd \
64   --backend-pool-name myBackEndPool \
65   --probe-name myHealthProbe
66
67
68
```

Secure RDP Access

Find Find Prev Find All

Spaces: 2

Java

10 lines, 289 characters selected

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myLoadBalancer - Microsoft Edge | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGrou...

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) Copilot

Home > myLoadBalancer

myLoadBalancer | Health probes

Load balancer

Search Add Refresh Give feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Type to start filtering ...

Name	Protocol	Port	Path	Used By
myHealthProbe	Tcp	80	-	-

Frontend IP configuration Backend pools

Health probes

Switch to PowerShell Restart Manage files New session Editor Web preview Settings Help

```
"numberofProbes": 2,
"port": 80,
"probeThreshold": 3,
"protocol": "Tcp",
"provisioningState": "Succeeded",
"resourceGroup": "myResourceGroup",
"type": "Microsoft.Network/loadBalancers/probes"
}
```

ukrsite [~]\$

```
36 ----
37
38 ## **Step 4: Configure the Load Balancer**
39 ##### **Step 4.1: Create a Health Probe**
40 ````bash
41 az network lb probe create \
42   --resource-group myResourceGroup \
43   --lb-name myLoadBalancer \
44   --name myHealthProbe \
45   --protocol Tcp \
46   --port 80 \
47   --interval 15 \
48   --probe-threshold 3
49 ...
50 ...
51
52 ##### **Step 4.2: Create a Load Balancing Rule**
53 This rule routes **HTTP (port 80)** traffic to the VMSS instances.
```

Secure RDP Access

Find Find Prev Find All

Spaces: 2

Java

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myResourceGroup - Microsoft Azure | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups/myResourceGroup

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) Copilot

Home > myResourceGroup Resource group

Overview Activity log Access control (IAM) Tags Resource visualizer Events

Showing 1 to 2 of 2 records. Show hidden types

Name	Type	Location
myLoadBalancer	Load balancer	East US
myPublicIP	Public IP address	East US

Search Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete

Switch to PowerShell Restart Manage files New session Editor Web preview Settings Help

```
resourceGroup: "myResourceGroup",
"type": "Microsoft.Network/loadBalancers/frontendIPConfigurations"
},
],
"inboundNatPools": [],
"inboundNatRules": [],
"loadBalancingRules": [],
"outboundRules": [],
"probes": [],
"provisioningState": "Succeeded",
"resourceGuid": "7aab917f-ebc2-47cb-a24b-065f2714a8c7"
}
```

ukrsite [~]\$

```
23 ` `` ` 
24 
25 ### **Step 3.2: Create the Load Balancer**
26 ` `` ` bash
27 az network lb create \
28   --resource-group myResourceGroup \
29   --name myLoadBalancer \
30   --sku Standard \
31   --public-ip-address myPublicIP \
32   --frontend-ip-name myFrontEnd \
33   --backend-pool-name myBackEndPool
34 ` `` ` 
35 
36 ----
37 
38 ## **Step 4: Configure the Load Balancer**
39 ### **Step 4.1: Create a Health Probe**
40 ` `` ` bash
```

Secure RDP Access

7 lines, 209 characters selected; Copied 209 characters

Spaces: 2 Java

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myResourceGroup - M | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGrou...

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot

Home > myResourceGroup Resource group

Overview Essentials

Search Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete JSON View

Activity log Access control (IAM) Tags Resource visualizer Events Settings Cost Management Monitoring Automation Help

Resources Recommendations (1)

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 1 of 1 records. Show hidden types

Name	Type	Location
myPublicIP	Public IP address	East US

< Previous Page 1 of 1 Next >

Give feedback

```
Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myResourceGroup - Microsoft Azure Compute Service | Azure Load Balancer | + | portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups/myResourceGroup/providers/Microsoft.Network/publicIPAddresses/myPublicIP | Copilot | 1 | Settings | Help | ukrsite@ukr.net | DEFAULT DIRECTORY | Microsoft Azure | Upgrade | Search resources, services, and docs (G+/) | Switch to PowerShell | Restart | Manage files | New session | Editor | Web preview | Settings | Help | --sku Standard \
--allocation-method Static
[Coming breaking change] In the coming release, the default behavior will be changed as follows when sku is Standard and zone is not provided: For zonal regions, you will get a zone-redundant IP indicated by zones:["1","2","3"]; For non-zonal regions, you will get a non zone-redundant IP indicated by zones:null.
{
  "publicIp": {
    "ddosSettings": {
      "protectionMode": "VirtualNetworkInherited"
    },
    "etag": "W/\"06da6846-932a-4ca5-bc1f-20814d9f4dc1\"",
    "id": "/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups/myResourceGroup/providers/Microsoft.Network/publicIPAddresses/myPublicIP",
    "idleTimeoutInMinutes": 4,
    "ipAddress": "20.185.52.250",
    "ipTags": [],
    "location": "eastus",
    "name": "myPublicIP",
    "provisioningState": "Succeeded",
    "publicIPAddressVersion": "IPv4",
    "publicIPAllocationMethod": "Static",
    "resourceGroup": "myResourceGroup",
    "resourceGuid": "5b53ab58-4639-4856-a283-df1ec3b9b86f",
    "sku": {
      "name": "Standard",
      "tier": "Regional"
    },
    "type": "Microsoft.Network/publicIPAddresses"
  }
}
ukrsite [ ~ ]$
```

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myResourceGroup - M | Azure Compute Service | Azure Load Balancer | +

portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) Copilot

Home > Resource groups >

Resource groups

Default Directory

+ Create Manage view ...

Filter for any field...

Name	Type	Location
myResourceGroup		
NetworkWatcherRG		
RG1		
rs-admins		
rs-developers		
rs-keyvault		

Page 1 of 1 >

myResourceGroup

Resource group

Search

+ Create Manage view Delete resource group Refresh Export to CSV Open query ...

Overview Essentials

Activity log Access control (IAM) Tags Resource visualizer Events Settings Cost Management Monitoring Automation Help

Resources Recommendations (1)

Filter for any field... Type equals all Location equals all Add filter

Showing 0 to 0 of 0 records. Show hidden types No grouping

Name ↑↓ Type ↑↓ Location ↑↓

No resources match your filters

Try changing or clearing your filters.

Give feedback

A screenshot of a Microsoft Azure Cloud Shell session. The session is running on a Windows 10 desktop. The title bar shows multiple browser tabs, including 'Модуль 5. Kubernetes' (Module 5. Kubernetes), 'Add - AnkiWeb', 'app.landsite.ai/web', 'Virtual machines - Microsoft Azure', 'Azure Compute Services', and 'Azure Load Balancer'. The main window is titled 'portal.azure.com/#browse/Microsoft.Compute%2FVirtualMachines'. The Azure logo is in the top left, followed by 'Microsoft Azure' and an 'Upgrade' button. A search bar says 'Search resources, services, and docs (G+ /)'. On the right, there's a Copilot button, a message icon (1), settings, help, and a user profile for 'ukrsite@ukr.net'.

The session content is a terminal window showing the execution of an Azure CLI command:

```
ukrsite [ ~ ]$ az group create --name myResourceGroup --location eastus
{
  "id": "/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resourceGroups/myResourceGroup",
  "location": "eastus",
  "managedBy": null,
  "name": "myResourceGroup",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
ukrsite [ ~ ]$
```

```
1 Here's a step-by-step guide to setting up a **Basic Azure Load
2 Balancer** with a **Virtual Machine Scale Set (VMSS)** to
3 distribute traffic across multiple instances.
4
5 ---
6
7 ## **Step 1: Create a Resource Group**
8 Create a resource group to contain all the resources.
9
10 ````bash
11 az group create --name myResourceGroup --location eastus
12 `````
13
14 ## **Step 3: Create a Basic Load Balancer**
15 A **Basic Load Balancer** requires a **public IP address**.
16 ### **Step 3.1: Create a Public IP Address**
```

Secure RDP Access

Find Find Prev Find All

Spaces: 2

Java

Модуль 5. Kubernetes | Add - AnkiWeb | app.landsite.ai/web | myResourceGroup - | Azure Compute Services | Azure Load Balancer | +

File /Users/sk/Documents/AzureDevOps/04%20Compute%20tasks/Azure%20Compute%20Services%20Practical%20tasks.pdf

Azure Compute Services Practical tasks.pdf 2 / 4 100%

traffic is routed to both VMs (by observing the unique content from each server).

6. Verify that the Load Balancer removes unavailable VM from the traffic pool when it fails the health probe.

Practical Task 4: Configuring a Basic Load Balancer with Virtual Machine Scale Sets (VMSS)

Set up a **Basic Azure Load Balancer** to distribute traffic across a Virtual Machine Scale Set (VMSS).

Requirements:

1. Create a Virtual Machine Scale Set (VMSS) in Azure using Linux or Windows instances within the free tier (for example **B1s size**). Limit the scale set to two VM instances to avoid exceeding the free-tier 750-hour limit.
2. Deploy the scale set with a custom configuration to install and configure a web server (e.g., Nginx on Linux or IIS on Windows) on each VM instance.
3. Configure the **Basic Load Balancer** to distribute HTTP (port 80) traffic across the VM instances in the scale set.
4. Add a health probe to monitor the availability of instances in the VMSS.
5. Scale the VMSS manually by increasing the number of instances to verify the Load Balancer routes traffic to the newly added VMs.
6. Test the setup by accessing the Load Balancer's public IP address and verifying traffic distribution across multiple VM instances.
7. Verify that the Load Balancer removes an unavailable instance from the traffic pool when it fails the health probe.

Practical Task 5: Deploying a Web Application Using Azure App Services

Set up and deploy a simple web application using **Azure App Services**.