

Module 7: Assignment – 1

Home >

Virtual machines ✕ ...

Default Directory (1996sr1997@gmail.onmicrosoft.com)

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

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

Showing 1 to 2 of 2 records.

Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address
vm1	Free Trial	LB	East US	Running	Linux	Standard_B1s	172.210.62.33
vm2	Free Trial	LB	East US	Running	Linux	Standard_B1s	172.208.69.216

```
vm2@vm2: ~
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
sudo systemdsudo systemctl status apache2sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-03-14 09:36:24 UTC; 18s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2715 (apache2)
    Tasks: 55 (limit: 1064)
   Memory: 5.3M (peak: 5.6M)
      CPU: 49ms
   CGroup: /system.slice/apache2.service
           └─2715 /usr/sbin/apache2 -k start
             └─2718 /usr/sbin/apache2 -k start
               └─2719 /usr/sbin/apache2 -k start

Mar 14 09:36:24 vm2 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Mar 14 09:36:24 vm2 systemd[1]: Started apache2.service - The Apache HTTP Server.
vm2@vm2:~$
```

```
vm2@vm2: ~
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
vm1@vm1:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-03-14 09:36:22 UTC; 46s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2775 (apache2)
    Tasks: 55 (limit: 1064)
   Memory: 5.3M (peak: 5.6M)
      CPU: 50ms
   CGroup: /system.slice/apache2.service
           └─2775 /usr/sbin/apache2 -k start
             └─2777 /usr/sbin/apache2 -k start
               └─2779 /usr/sbin/apache2 -k start

Mar 14 09:36:22 vm1 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Mar 14 09:36:22 vm1 systemd[1]: Started apache2.service - The Apache HTTP Server.
vm1@vm1:~$
```

vm2@vm2: /var/www/html x vm1@vm1: /var/www/html x + v

GNU nano 7.2index.html *

<html>
<body>
<h1>Welcome to VM1</h1>
<p>Server IP: <?php echo \$_SERVER['SERVER_ADDR']; ?></p>
</body>
</html>

< > ↺

🔒 Not secure 172.210.62.33

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Welcome to VM1

Server IP: 172.210.62.33

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Welcome to VM2

Server IP: 172.208.69.216

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

Home > Load balancing > Application Gateway >

Create application gateway

An application gateway is a web traffic load balancer that enables you to manage traffic to your web application. [Learn about creating application gateway](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Free Trial

Resource group * LG

Instance details

Application gateway name * lb1

Region * East US

Tier Basic

Availability zone * Zones 1, 2, 3

IP address type IPv4 only

HTTP2 Disabled

Configure virtual network

Virtual network * vm1-vnet

Subnet * default (10.0.0.0/24)

Previous Next: Frontends >

Create virtual network

The Microsoft Azure Virtual Network service enables Azure resources to securely communicate with each other in a virtual network which is a logical isolation of the Azure cloud dedicated to your subscription. You can connect virtual networks to other virtual networks, or your on-premises network. [Learn more](#)

Name * lb-vnet

ADDRESS SPACE

The virtual network's address space, specified as one or more address prefixes in CIDR notation (e.g. 192.168.1.0/24).

Address range Addresses Overlap

10.1.0.0/16 10.1.0.0 - 10.1.255.255 (65536 addresses) None

SUBNETS

The subnet's address range in CIDR notation. It must be contained by the address space of the virtual network.


Subnet name IPv4 Address range IPv4 Addresses

default 10.1.0.0/24 10.1.0.0 - 10.1.0.255 (256 addresses)

OK Discard

Add a backend pool.



 Basic SKU supports a maximum of 5 backend pool targets

A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machines scale sets, IP addresses, domain names, or an App Service.

Name *

lb






Add backend pool without targets

Yes

No

Backend targets

2 items

Target type	Target	
IP address or FQDN	172.210.62.33	 ...
<div>IP address or FQDN</div>	172.208.69.216	  ...
<div>IP address or FQDN</div>		

Create application gateway

 Validation passed

-  Basics
-  Frontends
-  Backends
-  Configuration
-  Tags
- 

Basics	
Subscription	Free Trial
Resource group	LB
Name	lb1
Region	East US
Tier	Basic
Instance count	2
Availability zone	Zones 1, 2, 3
HTTP2	Enabled
Virtual network	(new) lb-vnet
Subnet	(new) default (10.1.0.0/24)
Subnet address space	10.1.0.0/24

Frontends	
Public IPv4 address name	lb
SKU	Standard
Assignment	Static
Availability zone	ZoneRedundant

Tags

None

Create

Previous

Next

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Copilot

Home > Load balancing

Load balancing | Application Gateway

Search

Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field...

Subscription equals all

Resource group equals all

Location equals all

Add filter

Showing 1 to 1 of 1 records.

No grouping

List view

<input type="checkbox"/>	Name ↑↓	Public I... ↑↓	Public I... ↑↓	Private... ↑↓	Private... ↑↓	Resource group ↑↓	Location ↑↓	Subscription ↑↓
<input type="checkbox"/>	lb1	74.179.194...	-	-	-	LB	East US	Free Trial



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Welcome to VM1

Server IP: 172.210.62.33



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Welcome to VM2

Server IP: 172.208.69.216