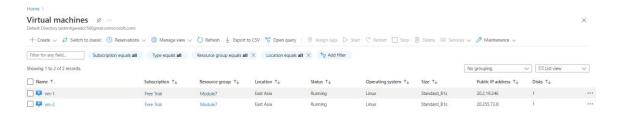
Module 7: Assignment 2

Tasks To Be Performed:

Create an application gateway with the following configuration:

- a. /vm1 should point to VM1
- b. /vm2 should point to VM2

Solution:



```
Last login: Sat Sep 7 15:15:03 2024 from 223.233.80.52

Jungkook@vm-1:~$ cd /var/www/html/

Jungkook@vm-1:/var/www/html$ ls

index.html

Jungkook@vm-1:/var/www/html$ cat index.html

This is VM1

Jungkook@vm-1:/var/www/html$ sudo rm index.html

Jungkook@vm-1:/var/www/html$ ls

Jungkook@vm-1:/var/www/html$ ls

Jungkook@vm-1:/var/www/html$
```

```
GNU nano 7.2

(b) THIS IS APPLICATION GATEWAY (b)

(H2) It is used to do path based routing. (H2)
```

```
Last login: Sat Sep 7 15:15:03 2024 from 223.233.80.52

Jungkook@vm-1:~$ cd /var/www/html/

Jungkook@vm-1:/var/www/html$ ls

index.html

Jungkook@vm-1:/var/www/html$ cat index.html

This is VM1

Jungkook@vm-1:/var/www/html$ sudo rm index.html

Jungkook@vm-1:/var/www/html$ ls

Jungkook@vm-1:/var/www/html$ sudo nano index.html

Jungkook@vm-1:/var/www/html$ sudo cat index.html

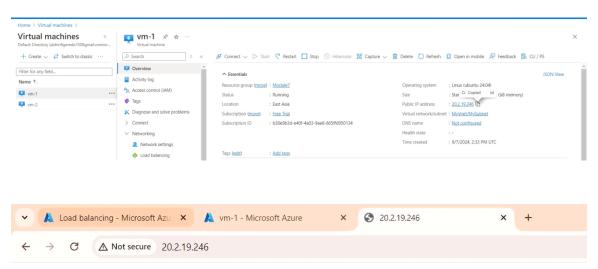
<b> THIS IS APPLICATION GATEWAY <b>
<H2> It is used to do path based routing. <H2>

Jungkook@vm-1:/var/www/html$
```

```
Jungkook@vm-1:/var/www/html$ sudo mkdir vm1
Jungkook@vm-1:/var/www/html$ ls
index.html vm1
Jungkook@vm-1:/var/www/html$ cd vm1
Jungkook@vm-1:/var/www/html/vm1$ sudo nano index.html
Jungkook@vm-1:/var/www/html/vm1$ ls
index.html
Jungkook@vm-1:/var/www/html/vm1$ sudo cat index.html
This is VM1
Jungkook@vm-1:/var/www/html/vm1$
```

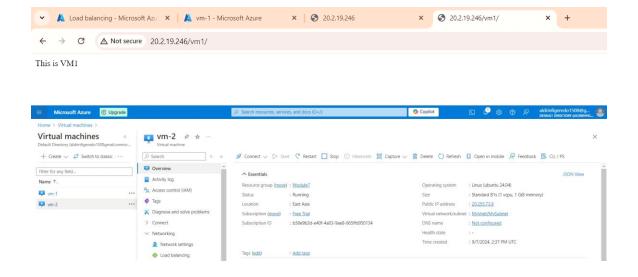
```
Jungkook@vm-2:~$ cd /var/www/html/
Jungkook@vm-2:/var/www/html$ ls
index.html
Jungkook@vm-2:/var/www/html$ sudo rm index.html
Jungkook@vm-2:/var/www/html$ sudo nano index.html
Jungkook@vm-2:/var/www/html$ Jungkook@vm-2:/var/www/html$ cat index.html
This is VM1
Jungkook@vm-2:/var/www/html$ sudo nano index.html
Jungkook@vm-2:/var/www/html$ sudo cat index.html
This is VM2
Jungkook@vm-2:/var/www/html$ sudo rm index.html
Jungkook@vm-2:/var/www/html$ ls
Jungkook@vm-2:/var/www/html$ ls
Jungkook@vm-2:/var/www/html$
```

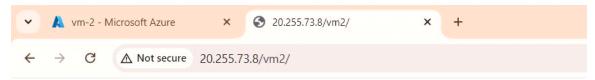
```
Jungkook@vm-2:/var/www/html$ sudo mkdir vm2
Jungkook@vm-2:/var/www/html$ ls
vm2
Jungkook@vm-2:/var/www/html$ cd vm2
Jungkook@vm-2:/var/www/html/vm2$ sudo nano index.html
Jungkook@vm-2:/var/www/html/vm2$ sudo cat index.html
This is VM2
Jungkook@vm-2:/var/www/html/vm2$
```



THIS IS APPLICATION GATEWAY

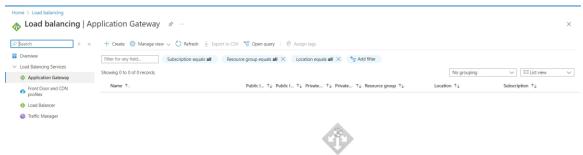
It is used to do path based routing.





This is VM2

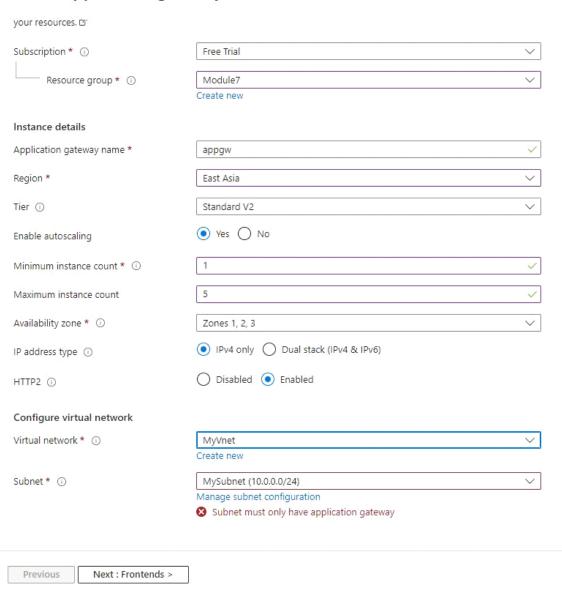


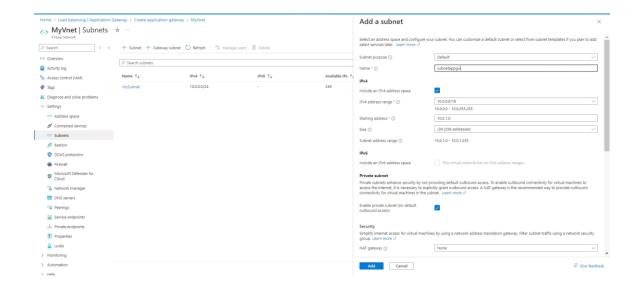


No application gateways to display

Azure Application Gateway gives you application-level routing and load balancing services that let you build a scalable and highly-available web front end in Azure. You control the size of the gateway and scale your deployment based on your needs.

Home > Load balancing | Application Gateway >







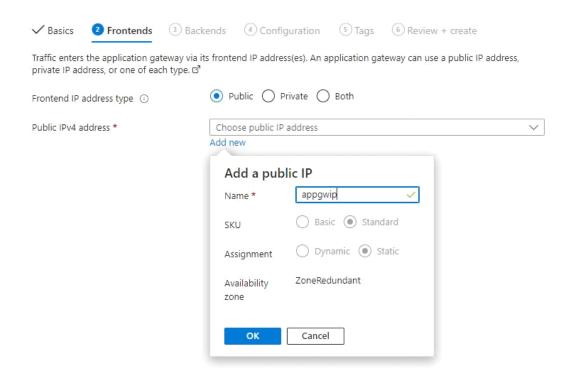
Home > Load balancing | Application Gateway >

Create application gateway

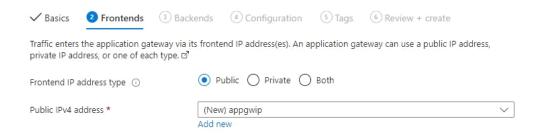
| Subscription * ① | Free Trial | ~ |
|-----------------------------|-----------------------------|---|
| Resource group * ① | Module7 | ~ |
| progression of the first | Create new | |
| Instance details | | |
| Application gateway name * | appgw | V |
| | | |
| Region * | East Asia | |
| Tier i) | Standard V2 | ~ |
| Enable autoscaling | Yes No | |
| Minimum instance count * ① | 1 | ~ |
| Maximum instance count | 5 | ~ |
| | | |
| Availability zone * ① | Zones 1, 2, 3 | |
| IP address type ① | IPv4 only | |
| НТТР2 ① | Oisabled • Enabled | |
| Confirmation I and the | | |
| Configure virtual network | Taxwe in | |
| Virtual network * ③ | MyVnet Create new | |
| Subnet * ① | subnetappgw (10.0.1.0/24) | ~ |
| Subilet () | Manage subnet configuration | V |
| | | |
| | | |
| Previous Next : Frontends > | | |
| | | |
| | | |
| | | |
| Subnet * ① | subnetappgw (10.0.1.0/24) | |
| | Manage subnet configuration | |

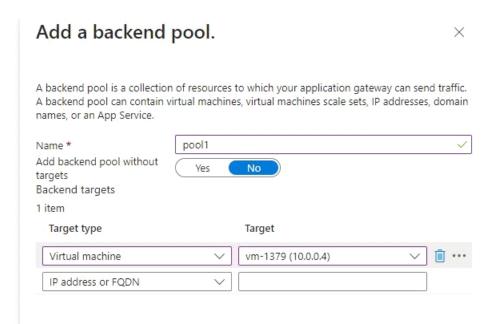
Home > Load balancing | Application Gateway >

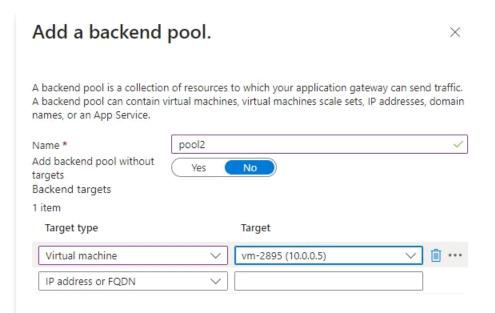
Create application gateway



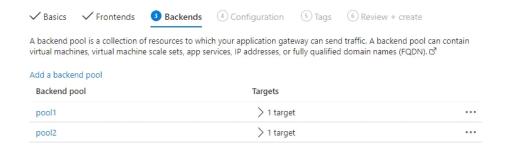
Home > Load balancing | Application Gateway >













| Rule name * | rule | |
|--|--|-------------------------------|
| | | |
| Priority * ① | 1 | |
| *Listener *Backend targets | | |
| A listener "listens" on a specified gateway will apply this routing ru | port and IP address for traffic that uses a specified protocol. If the listener critle, $\vec{\mathbb{C}}^3$ | iteria are met, the applicati |
| Listener name * ① | name | |
| Frontend IP * ① | Public IPv4 | |
| Protocol (i) | HTTP O HTTPS | |
| Port * ① | 80 | |
| Listener type ① | Basic | |
| Custom error pages | | |
| | different response codes generated by Application Gateway. This section let $\vec{\Box}$ | ts you configure Listener- |
| Please verify that the url(s) being any deployment error. | added here is reachable from your application gateway using the connection | n troubleshoot tool to prev |
| Bad Gateway - 502 | Enter Html file URL | |
| Forbidden - 403 | Enter Html file URL | |
| Show more status codes | | |
| | | |
| | | |
| | | |

Add Backend setting

← Discard changes and go back to routing rules

| Backend settings name * Backend protocol Backend port * | default HTTP HTTPS 80 |
|--|---------------------------|
| Additional settings | |
| Cookie-based affinity ① | ○ Enable ○ Disable |
| Connection draining ① | ○ Enable ● Disable |
| Request time-out (seconds) * ① | 20 |
| Override backend path ① | |
| Host name | |
| By default, the Application Gateway sends application/service requires a specific host | |
| | Yes No |
| Override with new host name | |
| | (Yes No |
| Create custom probes | |



Add a path ×

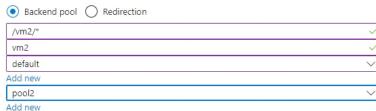
← Discard changes and go back to routing rules

Path * ①
Target name *

Target type

Backend settings * ①

Backend target * ①



X

Add a routing rule

Configure a routing rule to send traffic from a given frontend IP address to one or more backend targets. A routing rule must contain a listener and at least one backend target.



*Listener *Backend targets

Choose a backend pool to which this routing rule will send traffic. You will also need to specify a set of Backend settings that define the behavior of the routing rule. 卤



Path-based routing

You can route traffic from this rule's listener to different backend targets based on the URL path of the request. You can also apply a different set of Backend settings based on the URL path. 교

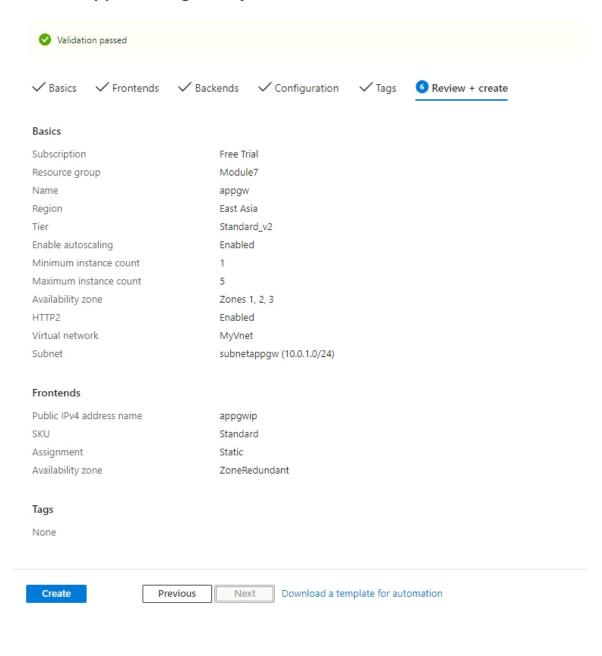
Path based rules

| Path | Target name | Backend setting name | Backend pool | |
|--------|-------------|----------------------|--------------|--|
| /vm1 | vm1 | default | pool1 | |
| /vm2/* | vm2 | default | pool2 | |

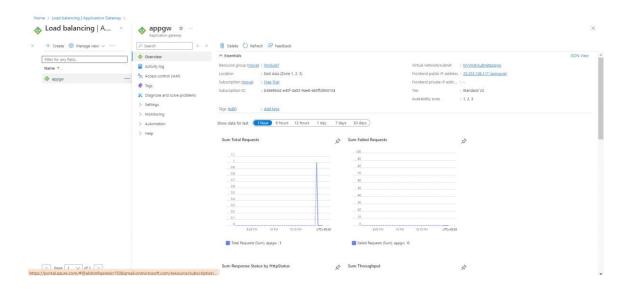
Add multiple targets to create a path-based rule

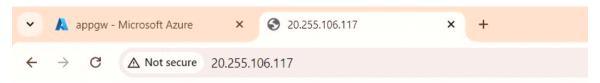
Add Cancel











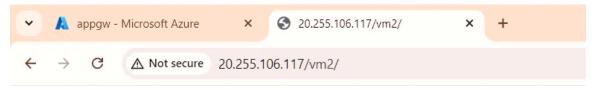
THIS IS APPLICATION GATEWAY

It is used to do path based routing.

Frontend public IP address : 20.255.106.117 (appgwip)



This is VM1



This is VM2