

## 1. Remove all resource group

Deleting resource group load\_balancer

Running X

Deleting resource group load\_balancer

2 minutes ago

## 2. Create Virtual network named as virtue with ip range 79.23.0.0/16 and subnet name sub\_virtue with ip range 79.23.46.0/24

virtue | Subnets

Virtual network

Search (Ctrl+/)

+ Subnet + Gateway subnet Refresh Manage users Delete

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

Search subnets

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Rot
sub_virtue	79.23.46.0/24	-	251	-	-	-

## 3. Create 2 Linux Virtual machines named as base and abase, install httpd package and create sample webpages.

Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks	
abase	Free Trial	load_balancer	East US	Running	Linux	Standard_B1s	20.124.88.27	1	...
base	Free Trial	load_balancer	East US	Running	Linux	Standard_B1s	20.124.88.118	1	...

```
azuser@base:/var/www/html$ sudo yum install httpd -y
apr.x86_64 1.4.8-7.el7 base-openlogic 104 k
apr-util.x86_64 1.5.2-6.el7 base-openlogic 92 k
httpd-tools.x86_64 2.4.6-97.el7.centos.2 updates-openlogic 94 k
mailcap.noarch 2.1.41-2.el7 base-openlogic 31 k

Transaction Summary
Install 1 Package (+4 Dependent packages)

Total download size: 3.0 M
Installed size: 10 M
Is this ok [y/d/N]: y
Downloading packages:
(1/5): apr-1.4.8-7.el7.x86_64.rpm | 92 kB 00:00
(2/5): apr-util-1.5.2-6.el7.x86_64.rpm | 104 kB 00:00
(3/5): mailcap-2.1.41-2.el7.noarch.rpm | 31 kB 00:00
(4/5): httpd-tools-2.4.6-97.el7.centos.2.x86_64.rpm | 94 kB 00:00
(5/5): httpd-2.4.6-97.el7.centos.2.x86_64.rpm | 2.7 MB 00:00
Total 9.4 MB/s | 3.0 MB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.4.8-7.el7.x86_64 1/5
Installing : apr-util-1.5.2-6.el7.x86_64 2/5
Installing : httpd-tools-2.4.6-97.el7.centos.2.x86_64 3/5
Installing : mailcap-2.1.41-2.el7.noarch 4/5
Installing : httpd-2.4.6-97.el7.centos.2.x86_64 5/5
Verifying : httpd-2.4.6-97.el7.centos.2.x86_64 1/5
Verifying : mailcap-2.1.41-2.el7.noarch 2/5
Verifying : apr-1.4.8-7.el7.x86_64 3/5
Verifying : httpd-tools-2.4.6-97.el7.centos.2.x86_64 4/5
Verifying : apr-util-1.5.2-6.el7.x86_64 5/5

Installed:
httpd.x86_64 0:2.4.6-97.el7.centos.2

Dependency Installed:
apr.x86_64 0:1.4.8-7.el7 apr-util.x86_64 0:1.5.2-6.el7
httpd-tools.x86_64 0:2.4.6-97.el7.centos.2 mailcap.noarch 0:2.1.41-2.el7

Complete!
[azuser@base ~]$ cd /var/www/html/
[azuser@base html]$ sudo vim index.html
[azuser@base html]$ cat index.html
this is me shreya maheshwari.
that's my first webpage.
[azuser@base html]$
```

```
azuser@abase:/var/www/html$ sudo yum install httpd -y
apr.x86_64 1.4.8-7.el7 base-openlogic 104 k
apr-util.x86_64 1.5.2-6.el7 base-openlogic 92 k
httpd-tools.x86_64 2.4.6-97.el7.centos.2 updates-openlogic 94 k
mailcap.noarch 2.1.41-2.el7 base-openlogic 31 k

Transaction Summary
Install 1 Package (+4 Dependent packages)

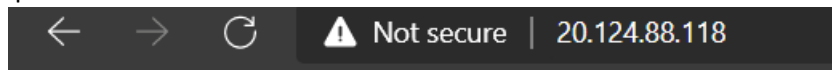
Total download size: 3.0 M
Installed size: 10 M
Is this ok [y/d/N]: y
Downloading packages:
(1/5): apr-1.4.8-7.el7.x86_64.rpm | 104 kB 00:00
(2/5): mailcap-2.1.41-2.el7.noarch.rpm | 31 kB 00:00
(3/5): apr-util-1.5.2-6.el7.x86_64.rpm | 92 kB 00:00
(4/5): httpd-tools-2.4.6-97.el7.centos.2.x86_64.rpm | 94 kB 00:00
(5/5): httpd-2.4.6-97.el7.centos.2.x86_64.rpm | 2.7 MB 00:00
Total 11 MB/s | 3.0 MB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.4.8-7.el7.x86_64 1/5
Installing : apr-util-1.5.2-6.el7.x86_64 2/5
Installing : httpd-tools-2.4.6-97.el7.centos.2.x86_64 3/5
Installing : mailcap-2.1.41-2.el7.noarch 4/5
Installing : httpd-2.4.6-97.el7.centos.2.x86_64 5/5
Verifying : httpd-2.4.6-97.el7.centos.2.x86_64 1/5
Verifying : mailcap-2.1.41-2.el7.noarch 2/5
Verifying : apr-1.4.8-7.el7.x86_64 3/5
Verifying : httpd-tools-2.4.6-97.el7.centos.2.x86_64 4/5
Verifying : apr-util-1.5.2-6.el7.x86_64 5/5

Installed:
httpd.x86_64 0:2.4.6-97.el7.centos.2

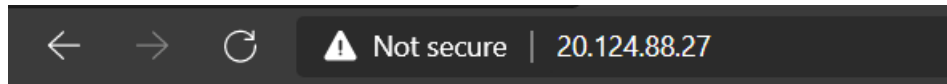
Dependency Installed:
apr.x86_64 0:1.4.8-7.el7 apr-util.x86_64 0:1.5.2-6.el7
httpd-tools.x86_64 0:2.4.6-97.el7.centos.2 mailcap.noarch 0:2.1.41-2.el7

Complete!
[azuser@abase ~]$ cd /var/www/html/
[azuser@abase html]$ sudo vim index.html
[azuser@abase html]$ cat index.html
this is shreya maheshwari.
this is my second webpage.
[azuser@abase html]$
```

4. after hosting the website on both Virtual machines try to access those machines with public ip.



this is me shreya maheshwari. that's my first webpage.



this is shreya maheshwari. this is my second webpage.

5. Create a load balancer named as New\_balancer (config frontend ip, backend pool, add balancer rule, public ip, etc)

#### Project details

Subscription \*

Free Trial



Resource group \*

load\_balancer

[Create new](#)

#### Instance details

Name \*

Load\_Balancer

Region \*

East US

SKU \* ⓘ

☒ Standard  
☐ Basic

## Add frontend IP address ×

Name \*

frontend\_ip

IP version

☒ IPv4 ☐ IPv6

IP type

☒ IP address ☐ IP prefix

Public IP address \*

(New) public\_ip

[Create new](#)

# Add backend pool ...

Name \*

backend\_pool ✓

Virtual network \* ⓘ

virtue (load\_balancer) ▼

Backend Pool Configuration

☒ NIC

☐ IP Address

IP Version

☒ IPv4

☐ IPv6

## Virtual machines

You can only attach virtual machines in eastus that have a standard SKU public IP configuration or no public IP configuration. All IP configurations must be on the same virtual network.

+ Add

✕ Remove

<input type="checkbox"/> Virtual machine ↑↓	IP Configuration ↑↓	Availability set ↑↓
<input type="checkbox"/> abase	ipconfig1 (79.23.46.5)	-
<input type="checkbox"/> base	ipconfig1 (79.23.46.4)	-

**Load balancing rule**  
A load balancing rule distributes incoming traffic that is sent to a selected IP address and port combination across a group of backend pool instances. The load balancing rule uses a health probe to determine which backend instances are eligible to receive traffic.

+ Add a load balancing rule

Name ↑↓	Frontend IP configuration ↑↓	Backend pool ↑↓	Health probe ↑↓	Frontend Port ↑↓	Backend port ↑↓
rule1	frontend_ip	backend_pool	health_probe	80	80

<input type="checkbox"/> Name ↑↓	Resource group ↑↓	Location ↑↓	Subscription ↑↓
<input type="checkbox"/> Load_Balancer	load_balancer	East US	Free Trial

6. try to connect with ip address of load balancer.

Name	IP address	Rules count
frontend_ip	20.124.113.240 (public_ip)	1

← → ↺

⚠ Not secure | 20.124.113.240

this is shreya maheshwari. this is my second webpage.