

- Create vnet for india and add subnet for vms in vnet location - india :

Name \*

Region \*

Subnet name \*

Subnet address range \*

10.3.1.0 - 10.3.1.255 (251 + 5 Azure reserved addresses)

IPv4 address space

- Launch 2 ubuntu server in central india .

Virtual machine name \*

Region \*

Availability options

Security type

Image \*

See all images | Configure VM generation

Diagnostics ☐ Enable with managed storage account (recommended)  
☐ Enable with custom storage account  
☒ Disable

### Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \* ☐ None  
☒ Allow selected ports

Select inbound ports \*

Deploy vm .

Similarly deploy vm2 in india .

- Create vnet for west-us and create vm .
- Login to both server and install apache2 .

sudo apt-get update

sudo apt-get install apache2

- Open firewall for http port .

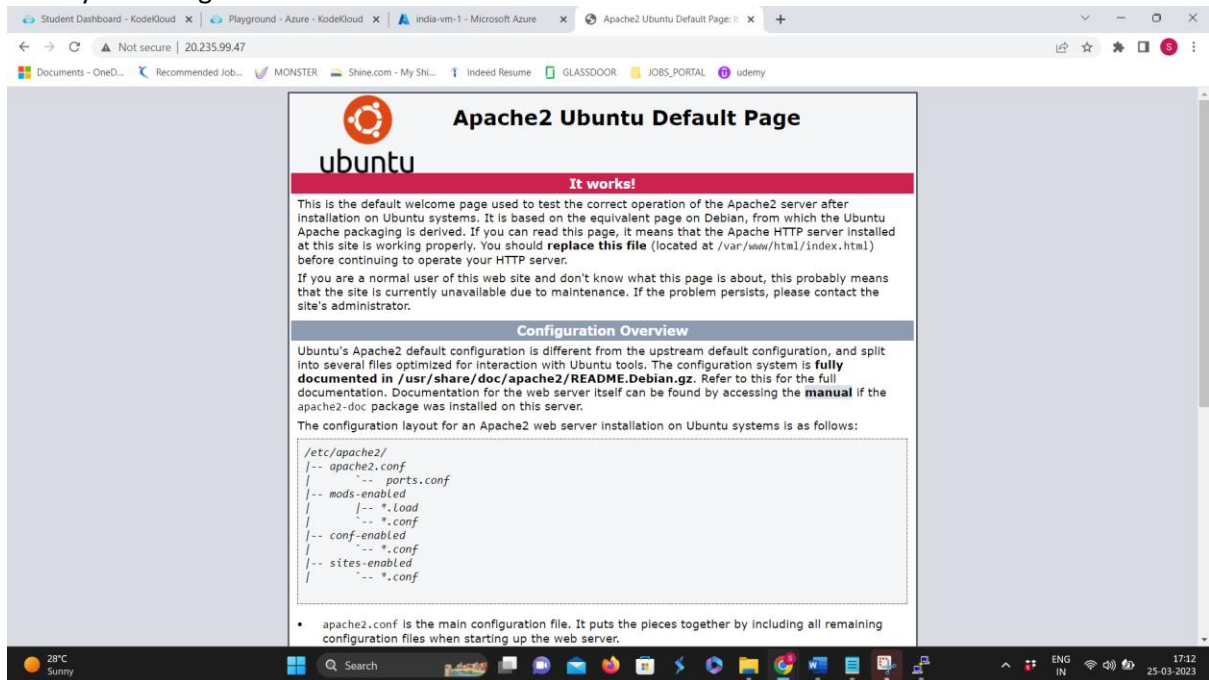
The screenshot shows the Microsoft Azure portal interface. The main view is the 'Networking' tab for the virtual machine 'india-vm-1'. It displays the 'india-vm-1204' network interface with its IP configuration (NIC Public IP: 20.235.99.47, NIC Private IP: 10.3.0.4). The 'Inbound port rules' section is expanded, showing a table of rules:

Priority	Name	Port	Protocol
300	SSH	22	TCP
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerInBound	Any	Any
65500	DenyAllInBound	Any	Any

The 'Add inbound security rule' dialog is open, showing the configuration for a new rule named 'india-vm-1-nsg'. The configuration includes:

- Source: Any
- Source port ranges: \*
- Destination: Any
- Service: HTTP
- Destination port ranges: 80
- Protocol: TCP
- Action: Allow

- Try accessing vm from browser .

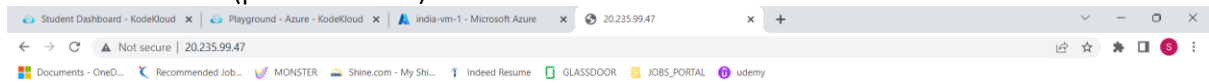


- Replace apache server with web app .

```
cd /var/www/html
```

```
sudo rm -rf index.html
```

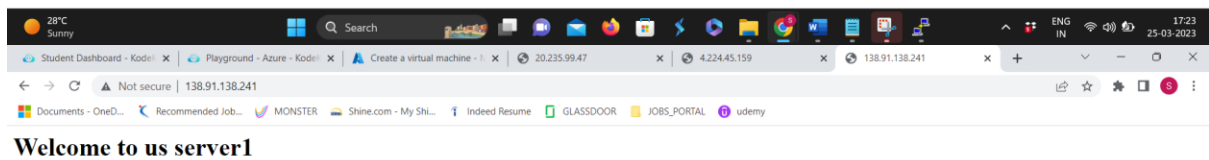
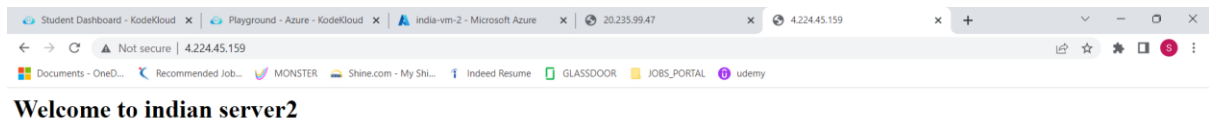
```
sudo vi index.html (paste contents)
```



Welcome to indian server1



- Do same for both Indian servers and us servers .



- Create app gateway in us :

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### Create application gateway

Application gateway name \* us-app-gateway

Region \* West US

Tier Standard V2

Enable autoscaling ☒ Yes ☐ No

Minimum instance count \* 0

Maximum instance count 10

Availability zone None

HTTP2 ☒ Disabled ☐ Enabled

Configure virtual network

Virtual network \* us-vnet  
[Create new](#)

Subnet \* us-subnet-vm (10.3.1.0/24)  
[Manage subnet configuration](#)

Subnet must only have application gateway

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## Add subnet for app gateway in vnet .

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### us-vnet | Subnets

Virtual network

Search

+ Subnet + Gateway subnet Refresh Manage users Delete

Search subnets

Name	IPv4	IPv6	Available IPs
us-subnet-vm	10.3.1.0/24	-	249

#### Add subnet

Adding subnet 'us-app-gateway-subnet' to virtual network 'us-vnet'.

Name \* us-app-gateway-subnet

Subnet address range \* 10.3.0.0/24  
10.3.0.0 - 10.3.0.255 (251 + 5 Azure reserved addresses)

☐ Add IPv6 address space

NAT gateway None

Network security group None

Route table None

SERVICE ENDPOINTS

Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. [Learn more](#)

Services 0 selected

Save Cancel

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## Create application gateway

Application gateway name \* us-app-gateway ✓

Region \* West US ✓

Tier ⓘ Standard V2 ✓

Enable autoscaling ☒ Yes ☐ No

Minimum instance count \* ⓘ 0

Maximum instance count 10

Availability zone ⓘ None

HTTP2 ⓘ ☒ Disabled ☐ Enabled

Configure virtual network

Virtual network \* ⓘ us-vnet  
[Create new](#)

Subnet \* ⓘ us-app-gateway-subnet (10.3.0.0/24)  
[Manage subnet configuration](#)

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## Create application gateway

✓ Basics **Frontends** ③ Backends ④ Configuration ⑤ Tags ⑥ Review + create

Traffic enters the application gateway via its frontend IP address(es). An application gateway can use a public IP address, private IP address, or one of each type. ⓘ

Frontend IP address type ⓘ ☒ Public ☐ Private ☐ Both

Public IP address \* Choose public IP address  
[Add new](#)

**Add a public IP**

Name \* js-app-gateway-public-ip ✓

SKU ☐ Basic ☒ Standard

Assignment ☐ Dynamic ☒ Static

Availability zone None

OK Cancel

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✓ Basics Frontends Backends Configuration Tags Review + create

Traffic enters the application gateway via its frontend IP address(es). An application gateway can use a public IP address, private IP address, or one of each type.<sup>1</sup>

Frontend IP address type ☒ Public ☐ Private ☐ Both

Public IP address \* (New) us-app-gateway-public-ip [Add new](#)

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Add backend pool :

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A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machine scale sets, app services, IP addresses, or fully qualified domain names (FQDN).<sup>1</sup>

Add a backend pool

Backend pool	Targets
us-app-gateway-backend-pool	✓ 2 targets
	us-vm-1794
	us-vm-2267

Add a backend pool.

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 \*

Add backend pool without targets ☒ Yes ☐ No

Backend targets

0 items

Target type	Target
IP address or FQDN	<input type="text"/>

Add Cancel

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## Create application gateway

✓ Basics ✓ Frontends ✓ Backends **4 Configuration** 5 Tags 6 Review + create

Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second frontend IP configuration if you haven't already, or edit previous configurations. [C?](#)

**Frontends**  
+ Add a frontend IP  
Public: (new) us-app-gateway-public-ip

**Routing rules**  
+ Add a routing rule

**Backend pools**  
+ Add a backend pool  
us-app-gateway-backend-pool

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## Now add routing rule :

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## Create application gateway

✓ Basics ✓ Frontends ✓ Backends **4 Configuration** 5 Tags 6 Review + create

Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second

**Frontends**  
+ Add a frontend IP  
Public: (new) us-app-gateway-public-ip

### 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.

Rule name \*

Priority \*

\* Listener \* Backend targets

A listener "listens" on a specified port and IP address for traffic that uses a specified protocol. If the listener criteria are met, the application gateway will apply this routing rule. [C?](#)

Listener name \*

Frontend IP \*

Protocol ☒ HTTP ☐ HTTPS

Port \*

**Additional settings**

Listener type ☒ Basic ☐ Multi site

Error page url ☐ Yes ☒ No

Add Cancel

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Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second

Frontends

+ Add a frontend IP

Public (new) us-app-gateway-public-ip

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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.

Rule name \*

rule-1

Priority \*

100

\* 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. ⚙

Target type

☒ Backend pool ☐ Redirection

Backend target \*

us-app-gateway-backend-pool

Add new

Backend settings \*

Add new

The value must not be empty.

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. ⚙

Path based rules

Path	Target name	Backend setting name	Backend pool
------	-------------	----------------------	--------------

Add

Cancel

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Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second

Frontends

+ Add a frontend IP

Public (new) us-app-gateway-public-ip

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Add Backend setting

[← Discard changes and go back to routing rules](#)

Backend settings name \*

backend-1

Backend protocol

☒ HTTP ☐ HTTPS

Backend port \*

80

Additional settings

Cookie-based affinity

☐ Enable ☒ Disable

Connection draining

☐ Enable ☒ Disable

Request time-out (seconds) \*

20

Override backend path

Host name

By default, the Application Gateway sends the same HTTP host header to the backend as it receives from the client. If your backend application/service requires a specific host value, you can override it using this setting.

Yes

No

Override with new host name

Yes

No

Create custom probes

Yes

No

Add

Cancel

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Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second

Frontends

+ Add a frontend IP

Public (new) us-app-gateway-public-ip

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Create application gateway

Basics Frontends Backends Configuration Tags Review + create

Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second

Frontends

+ Add a frontend IP

Public (new) us-app-gateway-public-ip

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.

Rule name \* rule-1

Priority \* 100

\* 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. ⚙

Target type ☒ Backend pool ☐ Redirection

us-app-gateway-backend-pool

Backend target \* ⚙ us-app-gateway-backend-pool

Backend settings \* ⚙ backend-1

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. ⚙

Path based rules

Path	Target name	Backend setting name	Backend pool
No additional rules to display.			

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Add Cancel

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