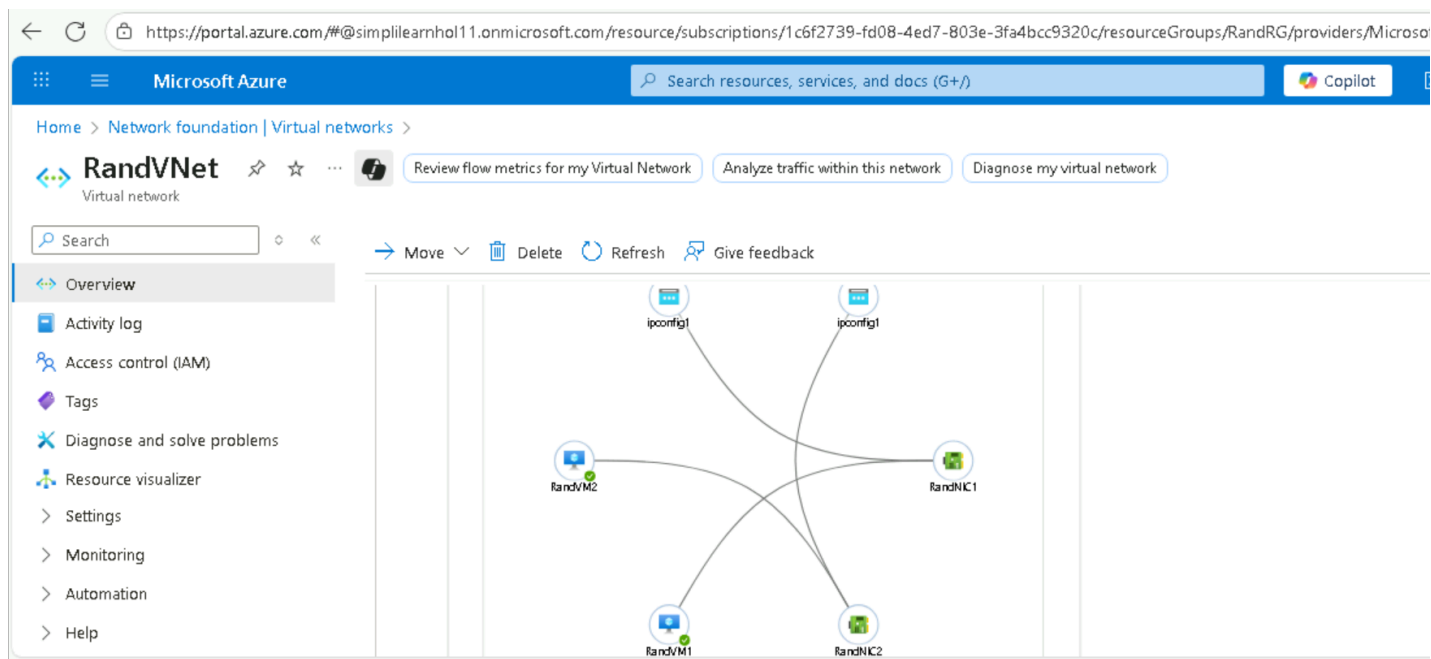
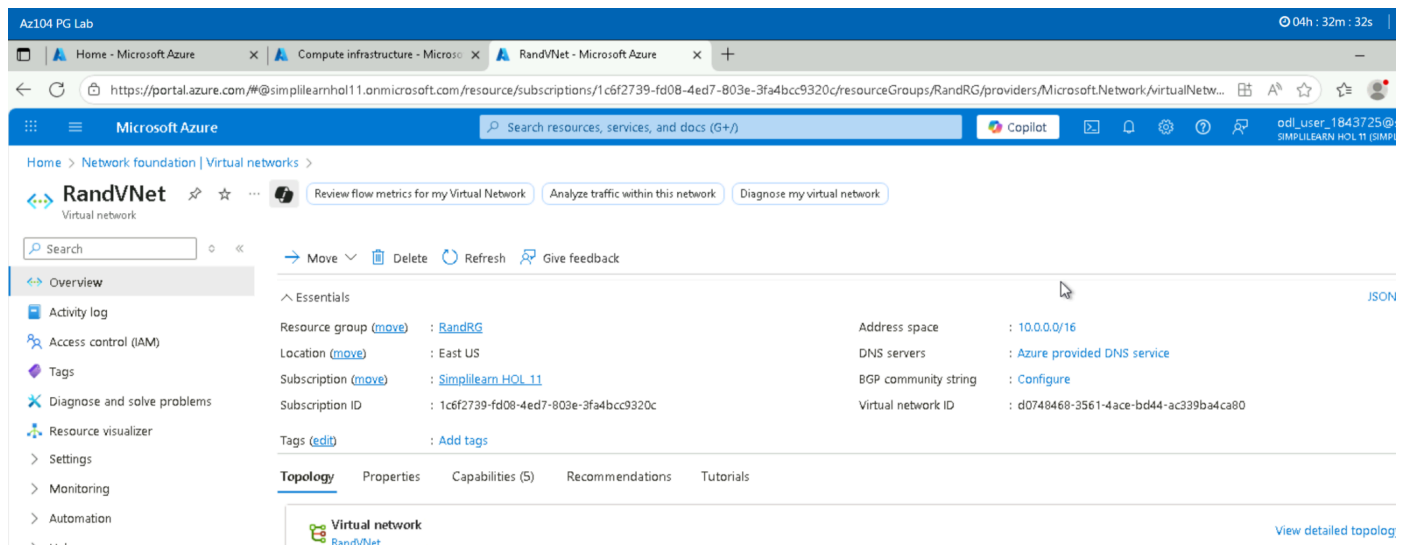


All the below resources are created by using CLI commands mentioned in the file
“deploy-loadbalancer.sh”

Here are the screenshots captured from azure portal.

Virtual Network



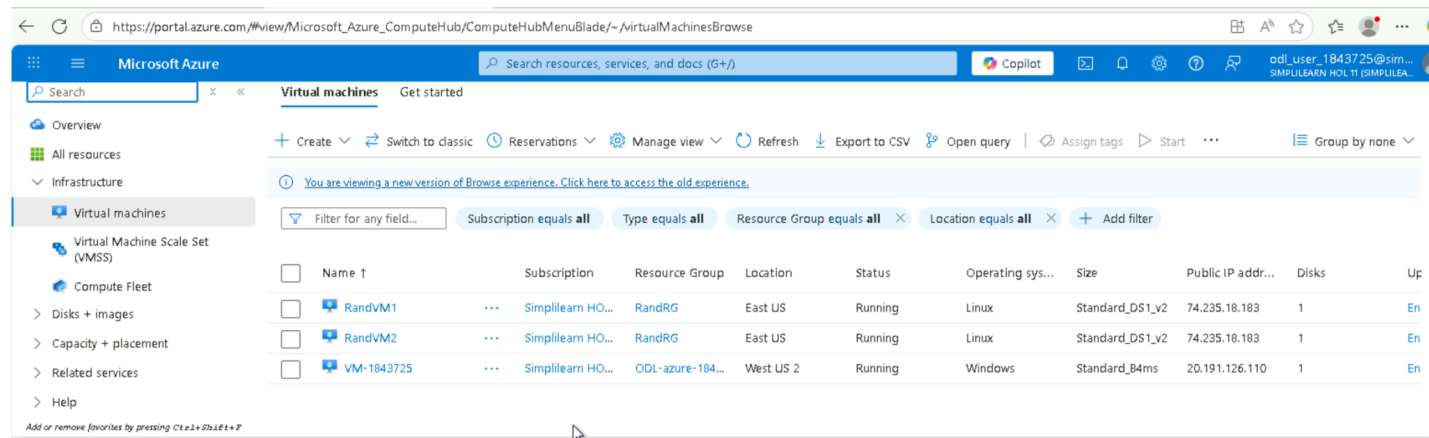
Subnet :

```
odl_user [ ~ ]$ az network vnet subnet list \
> --resource-group RandRG \
> --vnet-name RandVNet \
> --output table
```

AddressPrefix	Name	PrivateEndpointNetworkPolicies	PrivateLinkServiceNetworkPolicies	ProvisioningState	ResourceGroup
10.0.0.0/24	RandSubnet	Disabled	Enabled	Succeeded	RandRG

```
odl_user [ ~ ]$
odl_user [ ~ ]$
```

Virtual Machines :



Microsoft Azure portal interface showing Virtual Machines. The page displays a list of VMs with columns: Name, Subscription, Resource Group, Location, Status, Operating system, Size, Public IP address, Disks, and Up. The VMs listed are RandVM1, RandVM2, and VM-1843725.

Name	Subscription	Resource Group	Location	Status	Operating sys...	Size	Public IP addr...	Disks	Up
RandVM1	Simplilearn HO...	RandRG	East US	Running	Linux	Standard_DS1_v2	74.235.18.183	1	En
RandVM2	Simplilearn HO...	RandRG	East US	Running	Linux	Standard_DS1_v2	74.235.18.183	1	En
VM-1843725	Simplilearn HO...	ODL-azure-184...	West US 2	Running	Windows	Standard_B4ms	20.191.126.110	1	En

Public IP for the Load Balancer :

Home > Load balancing and content delivery | Load balancers > RandLB

RandLB | Frontend IP configuration

Search

+ Add Refresh

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Frontend IP configuration

Backend pools

Health probes

The frontend IP address configuration of a load balancer serves as the entry point for incoming traffic to the load balancer, and the load balancer then distributes the traffic to the backend pool of virtual machines or services. [Learn more](#)

Type to start filtering ...

Showing all 1 items

Name	IP address	Rules count
RandFrontend	74.235.18.183 (RandPublicIP)	1

https://portal.azure.com/#view/Microsoft_Azure_Network/FrontendIPManage.ReactView/loadBalancerId/%2Fsubscriptions%2F1c6f2739-fd08-4ed7-803e-3fa4bcc9320c%2Fresoi

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

Home > Load balancing and content delivery | Load balancers > RandLB | Frontend IP configuration

RandFrontend

RandLB

Name *	RandFrontend
Type ⓘ	Public
IP type	<input checked="" type="radio"/> IP address <input type="radio"/> IP prefix
Public IP address *	RandPublicIP (74.235.18.183) Create new
Gateway Load balancer ⓘ	None

Used by

Load Balancer:

Home - Microsoft Azure | RandLB - Microsoft Azure | Compute infrastructure - Microsoft Azure | vnet - Microsoft Azure

https://portal.azure.com/#@simplearnhol11.onmicrosoft.com/resource/subscriptions/1c6f2739-fd08-4ed7-803e-3fa4bcc9320c/resourceGroups/RandRG/providers/Microsoft.Network/loadBalancer...

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

odl_user_1843725@sim...
SIMPLELEARN HOL 11 (SIMPLELEARN HOL 11)

Home > Load balancing and content delivery | Load balancers >

RandLB
Load balancer

How can I improve the reliability of this load balancer setup? How do I add backend servers to this load balancer?

Search

Move Delete Refresh Give feedback

Overview

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Diagnose and solve problems

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Settings

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Health probes

Essentials

Resource group (move) : [RandRG](#)

Location : East US

Subscription (move) : [Simplelearn HOL 11](#)

Subscription ID : 1c6f2739-fd08-4ed7-803e-3fa4bcc9320c

SKU : Standard

Tags (edit) : [Add tags](#)

[See more](#)

Backend pool : [RandBackendPool \(2 virtual machines\)](#)

Load balancing rule : [RandRule \(Tcp/80\)](#)

Health probe : [RandProbe \(Http/80\)](#)

Inbound NAT rules : [None](#)

Outbound rules : [None](#)

Configure high availability and scalability for your applications

Health Probe :

Az104 PG Lab

Home - Microsoft Azure | RandLB - Microsoft Azure | Health probes - Microsoft Azure | Load balancing rules - Microsoft Azure | Backend pools - Microsoft Azure | Compute infrastructure - Microsoft Azure | vnet - Microsoft Azure

https://portal.azure.com/#view/Microsoft_Azure_Network/HealthProbeSummary.ReactView/loadBalancerId/%2F1c6f2739-fd08-4ed7-803e-3fa4bcc9320c%2FresourceGroup...

Microsoft Azure

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Copilot

odl_user_1843725@sim...
SIMPLELEARN HOL 11 (SIMPLELEARN HOL 11)

Home >

Health probes

+ Add Refresh Give feedback

Type to start filtering ...

To check the health status of your instances, navigate to the Load Balancing Rules page

Name	Protocol	Port	Path	Used By
RandProbe	Http	80	/	RandRule

Load Balancing Rule :

Home >

Load balancing rules

+ Add Refresh Export to CSV Delete

A load balancer rule is used to define how incoming traffic is distributed to 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...

<input type="checkbox"/>	Name ↕	Protocol ↕	Backend pool ↕	Health probe ↕	H.
<input type="checkbox"/>	RandRule	TCP/80	RandBackendPool	RandProbe	View

Backend Pool :

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Home - Microsoft Azure x RandLB - Microsoft Azure x Health probes - Microsoft Azure x Load balancing rules - Microsoft Azure x Backend pools - Microsoft Azure x Compute infrastructure - Microsoft Azure

Home >

Backend pools

+ Add Refresh

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.](#)

Filter Add filter

Backend pool	Resource...	IP address	Networ...	Availability zone	Rules c...	Resource Status	Admin ...	
▼ RandBackendPool (2)								
	RandBackendPool	RandVM1	10.0.0.4	RandNIC1	-	1	Running	None
	RandBackendPool	RandVM2	10.0.0.5	RandNIC2	-	1	Running	None

Association of Network Security Group with subnets

Microsoft Azure portal showing the configuration of a Network Security Group (RandNSG).

Essentials

- Resource group (move): [RandRG](#)
- Location: East US
- Subscription (move): [Simplilearn_HOL_11](#)
- Subscription ID: 1c6f2739-fd08-4ed7-803e-3fa4bcc9320c
- Tags (edit): [Add tags](#)

Custom security rules: 1 inbound, 0 outbound
Associated with: 1 subnets, 0 network interfaces

Inbound Security Rules

Priority	Name	Port	Protocol	Source	Destination	Action
100	AllowHTTP	80	Tcp	Any	Any	Allow

Step 8: Test the Application by using public IP Address of LoadBalancer

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03h : 38m : 37s

Home - Microsoft Azure x RandLB - Microsoft Azure x RandNSG - Microsoft Azure x Health probes - Microsoft Azure x Welcome to nginx!

Not secure 74.235.18.183

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.