

Try it out Objective

Use this hands-on to create an Azure VM scale set and use it to deploy a custom application

The goal

The following are the goals of this hands-on

1. Create a resource group.
2. Understand the process of creating a virtual machine scale set
3. Deploy a custom application using a bootstrap script
4. Create firewall rules to allow port 22 and 80
5. Access the custom application using a web browser

A. Hands-On: Create resource group

1. Open the Azure management console at <https://portal.azure.com/?quickstart=True#home> (you will be required to sign in using your free account)
2. In the Azure search bar paste the value as mentioned below and press enter.

Resource groups

3. Click on Create
 - a. Select Subscription as **Free Trial/Pay-As-You-Go**
 - b. Resource group: paste the value as mentioned below

GL-VMSS-RG

- c. Region leave the default value
- d. Click **Review + Create**
- e. Click **Create**

portal.azure.com/#create/Microsoft.ResourceGroup

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Create a resource group ...

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription * ⓘ pay-as-you-go ✓

Resource group * ⓘ GL-VMSS-RG ✓

Resource details

Region * ⓘ (US) East US ✓

Review + create < Previous Next: Tags >

B. Hands-On: Create Virtual Machine Scale Set : Basics

1. In the Azure search bar paste the value as mentioned below and press enter.

Virtual Machine Scale Sets

2. Click on **Create**
 - a. Select Subscription as **Free Trial**
 - b. Resource group as **GL-VMSS-RG** (should be already by default)
 - c. Virtual Machine Scale Set Name : Provide a name of your choice
 - d. Region : Select East US
 - e. Availability Zone : Select All zones available in the drop down
 - f. Image : Select Ubuntu 20.04
 - g. Authentication type : SSH public key
 - h. Username : azureuser
 - i. SSH source : Generate New Key Pair
 - j. Key Pair Name : Enter a name of your choice

portal.azure.com/#create/microsoft.vms

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Create a virtual machine scale set

Basics Disks Networking Scaling Management Health Advanced Tags Review + create

Azure virtual machine scale sets let you create and manage a group of load balanced VMs. The number of VM instances can automatically increase or decrease in response to demand or a defined schedule. Scale sets provide high availability to your applications, and allow you to centrally manage, configure, and update a large number of VMs.
[Learn more about virtual machine scale sets](#)

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

Subscription * pay-as-you-go

Resource group * GL-VMSS-RG
[Create new](#)

Scale set details

Virtual machine scale set name * VirtualMachineScaleSet

Region * (US) East US

Availability zone ① Zones 1, 2, 3

[Review + create](#) < Previous Next : Disks >

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Instance details

Image *  

[See all images](#) | [Configure VM generation](#)



VM architecture  Arm64
 x64



Run with Azure Spot discount 

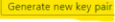

Size *  



[See all sizes](#)

Administrator account

Authentication type  Password
 SSH public key

Username *  

SSH public key source  

Key pair name *  

[Review + create](#) [< Previous](#) [Next : Disks >](#)

C. Hands-On: Create Virtual Machine Scale Set : Networking

1. Use the following options in the networking tab
 - a. Virtual Network : New (should be selected by default)
 - b. Select the interface available under the Network Interface section using the checkbox
 - c. Check the option : Use a Load Balancer
 - d. Load Balancing options : Load Balancer
 - e. Select a Load Balancer : New (should be selected by default)
 - f. Select a BackEnd Pool : New (should be selected by default)
 - g. Click **Next : Scaling**

portal.azure.com/#create/microsoft.vms

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Basics Disks **Networking** Scaling Management Health Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more about VMSS networking](#)

Virtual network configuration

Azure Virtual Network (VNet) enables many types of Azure resources to securely communicate with each other, the internet, and on-premises networks. [Learn more about VNets](#)

Virtual network *

(New) GL-VMSS-RG-vnet (recommended)
Create virtual network

Network interface

A network interface enables an Azure virtual machine to communicate with internet, Azure, and on-premises resources. A VM can have one or more network interfaces.

+ Create new nic Delete

<input checked="" type="checkbox"/>	NAME	CREATE PUBL...	SUBNET	NETWORK SECUR...	ACCELERATED N...
<input checked="" type="checkbox"/>	GL-VMSS-RG-vnet-nic01	No	default (10.0.0.0/20)	Basic	On

Load balancing

Review + create

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+ Create new nic Delete

<input checked="" type="checkbox"/>	NAME	CREATE PUBL...	SUBNET	NETWORK SECUR...	ACCELERATED N...
<input checked="" type="checkbox"/>	GL-VMSS-RG-vnet-nic01	No	default (10.0.0.0/20)	Basic	On

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Load balancing options

☐ None

☒ Azure load balancer
Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.

☐ Application gateway
Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

Select a load balancer *

(new) LoadBalancer
Create a load balancer

To allow traffic from your load balancing product, please update the appropriate port configuration on your network security group associated with your network interface.

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Next : Scaling >

D. Hands-On: Create Virtual Machine Scale Set : Scaling

1. Use the following options in the Scaling tab
 - a. Initial Instance Count : 2
 - b. Scaling Policy : Custom
 - c. Minimum instances : 2
 - d. Maximum instances : 5
 - e. Rest of the options can be left to their default values
2. Click on **Next : Management.**
3. Use the default options and click on **Next : Health**

The screenshot shows the 'Create a virtual machine scale set' page in the Azure portal. The 'Scaling' tab is selected, showing options for initial instance count, scaling policy, and scaling with Spot VMs.

Initial instance count *

Scale with VMs and discounted Spot VMs (preview)

Get significant workload savings when you scale with continuous uninterruptible VMs and discounted interruptible Azure Spot VMs that take advantage of unused compute capacity. Azure Spot is ideal for workloads that can experience interruptions or infrastructure loss like risk modeling or advanced data analytics. [Learn more](#)

Scale with VMs and Spot VMs ☐

Scaling

Scaling policy ☐ Manual ☒ Custom

[Review + create](#) [< Previous](#) [Next: Management >](#)

portal.azure.com/#create/microsoft.vms

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Create a virtual machine scale set

Scaling

Scaling policy ☐ Manual ☒ Custom

Minimum number of instances * ✓

Maximum number of instances * ✓

Scale out

CPU threshold (%) *

Duration in minutes *

Number of instances to increase by * ✓

Scale in

CPU threshold (%) *

Number of instances to decrease by * ✓

Diagnostic logs

[Review + create](#) [< Previous](#) [Next : Management >](#)

E. Hands-On: Create Virtual Machine Scale Set : Health

- Check the box “ Enable application health monitoring”
- Protocol : HTTP
- Port number : 80
- Path : /health.html
- Click on **Next : Advanced**

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Create a virtual machine scale set

Basics Disks Networking Scaling Management **Health** Advanced Tags Review + create

You can configure health monitoring on an application endpoint to update the status of the application on that instance. This instance status is required to enable platform managed upgrades like automatic OS updates and virtual machine instance upgrades. [Learn more about application health monitoring](#)

Health

Enable application health monitoring ☒

Application health monitor *

Protocol *

Port number *

Path *

i The Application Health extension will probe the application health endpoint and update the status of the application. When the health endpoint is not set up correctly the status of the application will be reported as unhealthy. [Learn more](#)

Automatic repair policy

Before enabling the automatic repairs policy, review the requirements for opting in [here](#)

[Review + create](#) < Previous Next : Advanced >

F. Hands-On: Create Virtual Machine Scale Set : Advanced

- Under the field Custom Data, enter the following script (As always, please be careful while copying the script)

```
#!/bin/bash
APP_NAME=LiftShift-Application
apt update -y && apt -y install python3-pip zip
cd /opt
wget https://d6opu47qoi4ee.cloudfront.net/loadbalancer/simuapp-v1.zip
unzip simuapp-v1.zip
rm -f simuapp-v1.zip
sed -i "s=MOD_APPLICATION_NAME=$APP_NAME=g" templates/index.html
pip3 install -r requirements.txt
nohup python3 simu_app.py >> application.log 2>&1 &
```

- The rest of the options can be left to their default values

portal.azure.com/#create/microsoft.vms

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Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Allocation policy

Enable scaling beyond 100 instances ☒

Force strictly even balance across zones ☐

Spreading algorithm ☒ Max spreading
☐ Fixed spreading (not recommended with zones)

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. [Learn more](#)

Select a VM application to install

Custom data and cloud init

Pass a cloud-init script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. [Learn more about custom data for VMSS](#)

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Custom data and cloud init

Pass a cloud-init script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. [Learn more about custom data for VMSS](#)

Custom data

```
apt-get update && apt-get install python3-pip -y
cd /opt
wget https://d60pu47qoi4ee.cloudfront.net/loadbalancer/simuaapp-v1.zip
unzip simuaapp-v1.zip
rm -f simuaapp-v1.zip
sed -i 's=MOD_APPLICATION_NAME=$APP_NAME=g' templates/index.html
pip3 install -r requirements.txt
nohup python3 simu_app.py >> application.log 2>&1 &
```

i Custom data on the selected image will be processed by cloud-init. [Learn more about custom data for VMSS](#)

User data

Pass a script, configuration file, or other data that will be accessible to your applications **throughout the lifetime of the virtual machine**. Don't use user data for storing your secrets or passwords. [Learn more about user data for VMSS](#)

Enable user data ☐

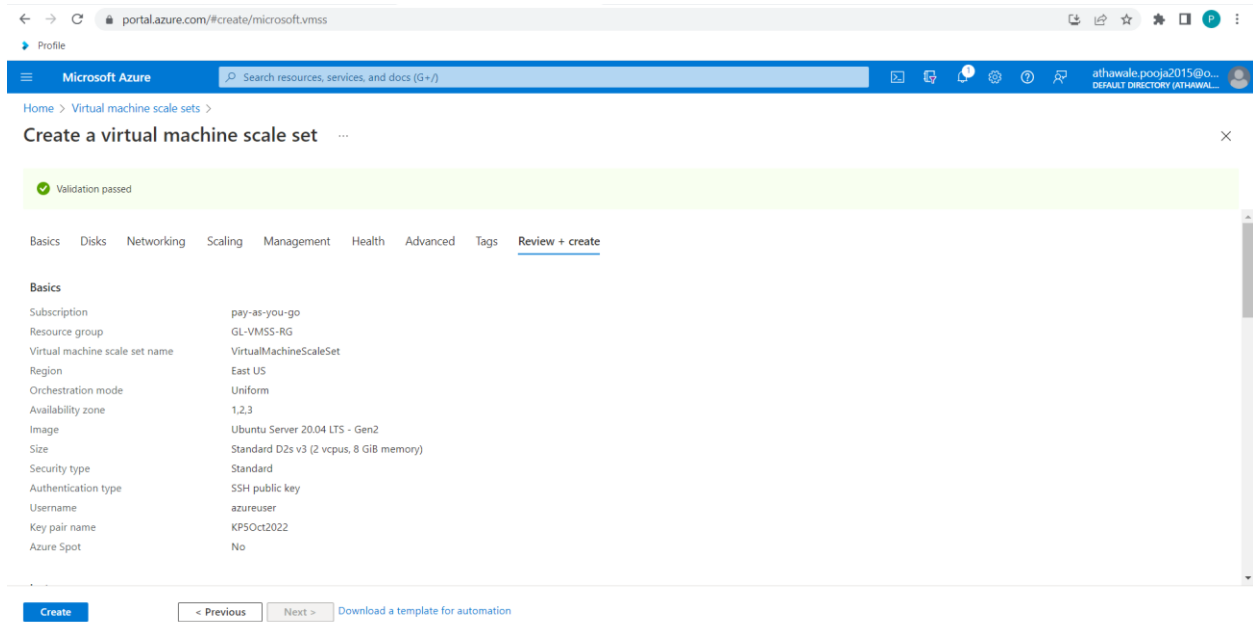
Performance (NVMe)

Enable capabilities to enhance the performance of your resources.

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- c. Click on **Next : Tags**
- d. Click on **Next : Review+Create**
- e. Click on **Create**
- f. You will be presented with a dialog box “Generate New Key Pair”. Select “Download private key and create resource”. Then select “Return to create virtual machine” after the pem file is downloaded.
- g. Deployment of the resource will take a few minutes.

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F6a9aa09c-59e5-4806-803e-cdbde4257b2f%2FresourceGroups%2FGL-VMSS-RG%2F...
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Home >
CreateVmss-canonical.0001-com-ubuntu-server-focal-20221005101551 | Overview
Deployment
Search « Delete Cancel Redeploy Download Refresh
Overview
Inputs
Outputs
Template
Your deployment is complete
Deployment name: CreateVmss-canonical.0001-com-ubuntu-server-focal-20221005101551 Start time: 10/5/2022, 10:38:08 AM
Subscription: pay-as-you-go Correlation ID: 7787ddc8-7bd9-4504-a9be-38be1d20f366
Resource group: GL-VMSS-RG
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure
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G. Hands-On: Configure Networking rules

1. Once the resource is created ,navigate to it using the “Go to Resource” button presented.
2. Navigate to “Networking ” using the left sidebar
3. Click on **Add Inbound Port Rule**
4. Fill up the options as given below
 - a. Source : Any
 - b. Source Port Ranges : *
 - c. Destination : Any
 - d. Service : HTTP
 - e. Action : Allow
 - f. Priority : 100
 - g. Name : Port_80
 - h. Click on Add

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/6a9aa09c-59e5-4806-803e-cdbde4257b2f/resourcegroups/GL-VMSS-RG/providers/Microsoft.C...

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Home > CreateVmss-canonical.0001-com-ubuntu-server-focal-20221005101551 | Overview > VirtualMachineScaleSet

VirtualMachineScaleSet | **Networking** ☆ ...

Virtual machine scale set

Search

« Add network interface Remove network interface

GL-VMSS-RG-vnet-nic01

IP configuration GL-VMSS-RG-vnet-nic01-defaultipCo...

Network interface: GL-VMSS-RG-vnet-nic01 Topology Virtual network/subnet: GL-VMSS-RG-vnet/default Accelerated networking: **Enabled**

Inbound port rules Outbound port rules Load balancing

Network security group basicNsgGL-VMSS-RG-vnet-nic01 (attached to network interface: GL-VMSS-RG-vnet-nic01) Impacts 0 subnets, 2 network interfaces

Priority	Name	Port	Protocol
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerInBound	Any	Any
65500	DenyAllInBound	Any	Any

Need help?

Add inbound security rule basicNsgGL-VMSS-RG-vnet-nic01

Source Any

Source port ranges +

Destination Any

Service HTTP

Destination port ranges 80

Protocol Any TCP UDP ICMP

Action Add Cancel

Show all

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/6a9aa09c-59e5-4806-803e-cdbde4257b2f/resourcegroups/GL-VMSS-RG/providers/Microsoft.C...

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Priority	Name	Port	Protocol
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerInBound	Any	Any
65500	DenyAllInBound	Any	Any

Need help?

Add inbound security rule basicNsgGL-VMSS-RG-vnet-nic01

Protocol Any TCP UDP ICMP

Action Allow Deny

Priority * 100

Name * Port_80 ✓

Description

Add Cancel

Show all

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/6a9aa09c-59e5-4806-803e-cdbde4257b2f/resourcegroups/GL-VMSS-RG/providers/Microsoft.C...

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VirtualMachineScaleSet | Networking

Virtual machine scale set

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GL-VMSS-RG-vnet-nic01

IP configuration GL-VMSS-RG-vnet-nic01-defaultipCo...

Network interface: GL-VMSS-RG-vnet-nic01 Topology
Virtual network/subnet: GL-VMSS-RG-vnet/default Accelerated networking: **Enabled**

Inbound port rules Outbound port rules Load balancing

Network security group **basicNsgGL-VMSS-RG-vnet-nic01** (attached to network interface: GL-VMSS-RG-vnet-nic01)
Impacts 0 subnets, 2 network interfaces

Add inbound port rule

Priority	Name	Port	Protocol	Source	Destination	Action
100	Port_80	80	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Show all

5. Select **Add Inbound Port Rule** Again

6. Fill up the options as given below

- Source : Any
- Source Port Ranges : *
- Destination : Any
- Service : SSH
- Action : Allow
- Priority : 110
- Name : Port_22
- Click on Add

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GL-VMSS-RG-vnet-nic01

IP configuration

GL-VMSS-RG-vnet-nic01-defaultipCo...

Network Interface: GL-VMSS-RG-vnet-nic01 Topology

Virtual network/subnet: GL-VMSS-RG-vnet/default Accelerated networking: Enabled

Inbound port rules Outbound port rules Load balancing

Network security group basicNsgGL-VMSS-RG-vnet-nic01 (attached to network interface: GL-VMSS-RG-vnet-nic01)
Impacts 0 subnets, 2 network interfaces

Priority	Name	Port	Protocol
100	Port_80	80	TCP
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerInBound	Any	Any
65500	DenyAllInBound	Any	Any

Add inbound security rule

basicNsgGL-VMSS-RG-vnet-nic01

Source

Any

Source port ranges

+

Destination

Any

Service

SSH

Destination port ranges

22

Protocol

Any
TCP
UDP
ICMP

Action

Add Cancel

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GL-VMSS-RG-vnet-nic01

IP configuration

GL-VMSS-RG-vnet-nic01-defaultipCo...

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Virtual network/subnet: GL-VMSS-RG-vnet/default Accelerated networking: Enabled

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Impacts 0 subnets, 2 network interfaces

Priority	Name	Port	Protocol
100	Port_80	80	TCP
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerInBound	Any	Any
65500	DenyAllInBound	Any	Any

Add inbound security rule

basicNsgGL-VMSS-RG-vnet-nic01

Protocol

Any
TCP
UDP
ICMP

Action

Allow
Deny

Priority

110

Name

Port_22

Description

Add Cancel

Show all

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/6a9aa09c-59e5-4806-803e-cdbde4257b2f/resourceGroups/GL-VMSS-RG/providers/Microsoft.C...

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GL-VMSS-RG-vnet-nic01

IP configuration GL-VMSS-RG-vnet-nic01-defaultipCo...

Network interface: GL-VMSS-RG-vnet-nic01 Topology Virtual network/subnet: GL-VMSS-RG-vnet/default Accelerated networking: Enabled

Inbound port rules Outbound port rules Load balancing

Network security group basicNsgGL-VMSS-RG-vnet-nic01 (attached to network interface: GL-VMSS-RG-vnet-nic01)
Impacts 0 subnets, 2 network interfaces

Add inbound port rule

Priority	Name	Port	Protocol	Source	Destination	Action
100	Port_80	80	TCP	Any	Any	Allow
110	Port_22	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Show all

H. Access the application

- Search for **Load Balancers** using the Search Box at the top of the screen and navigate to it
- Select the created resource
- Under the Overview section, copy the public IP address. You may have to click on the “See More button”
- Paste the IP address into the web browser to access the custom application

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/6a9aa09c-59e5-4806-803e-cdbde4257b2f/resourceGroups/GL-VMSS-RG/providers/Microsoft.C...

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Home > Load balancing | Load Balancer > GL-VMSS-RG

LoadBalancer-publicip

Public IP address

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« Associate Dissociate Move Delete Refresh

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Essentials

Resource group (move): GL-VMSS-RG
Location: East US (Zone 1, 2, 3)
Subscription (move): pay-as-you-go
Subscription ID: 6a9aa09c-59e5-4806-803e-cdbde4257b2f

SKU: Standard
Tier: Regional
IP address: 20.232.234.41
DNS name: -
Associated to: LoadBalancer

Tags (edit): Click here to add tags
See more

JSON View

Show all