

Microsoft Azure: Implementing Internet Facing Load Balancers using Azure Resource Manager

In this Video, I will show you How to create an External Load balancer using Azure Resource Manager. We will create two load balanced web-servers publicly accessible through a common IP address.

Then we will test that load balancer through a common IP

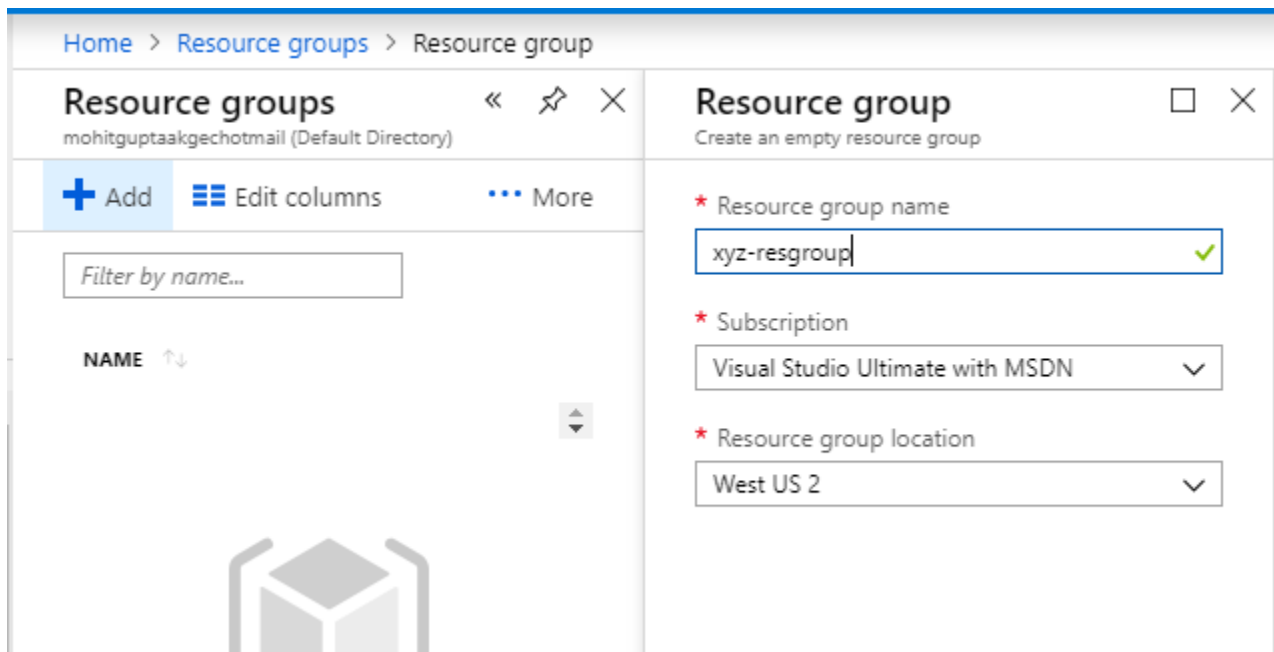
Step 1: Create a VM in one region

Step 2: Create another VM in that region

Step 3: Create a Load Balancer

Step 4: Test Load Balancer

[Create a new resource group](#)



The screenshot displays the Azure portal interface. On the left, the 'Resource groups' page is visible, showing a list of resource groups with a search bar and a table header 'NAME'. On the right, a modal window titled 'Resource group' is open, showing the 'Create an empty resource group' form. The form includes three required fields: 'Resource group name' (filled with 'xyz-resgroup'), 'Subscription' (set to 'Visual Studio Ultimate with MSDN'), and 'Resource group location' (set to 'West US 2').

Home > Resource groups > Resource group

Resource groups mohitguptaakgechotmail (Default Directory)

+ Add Edit columns More

Filter by name...

NAME

Resource group Create an empty resource group

* Resource group name xyz-resgroup ✓

* Subscription Visual Studio Ultimate with MSDN

* Resource group location West US 2

Create a new Virtual network

Home > Virtual networks > Create virtual network

Virtual networks

mohitguptaakgechotmail (Default Directory)

+ Add

Edit columns

More

Filter by name...

NAME

↑↓

No virtual networks to display

Create a virtual network to securely connect your Azure resources to each other. Connect your virtual network to your on-premises network using an Azure VPN Gateway or ExpressRoute. [Learn more](#)

Create virtual network

Create virtual network

* Name

xyz-vnet

* Address space

10.0.0.0/16

10.0.0.0 - 10.0.255.255 (65536 addresses)

* Subscription

Visual Studio Ultimate with MSDN

* Resource group

xyz-resgroup

Create new

* Location

West US 2

Subnet

* Name

default

* Address range

10.0.0.0/24

10.0.0.0 - 10.0.0.255 (256 addresses)

DDoS protection

CreateAutomation options

Create a Virtual Machine

Create a Availability Set

Select appropriate VM compute resources

- Recent
- App Services
- SQL databases
- Virtual machines (classic)
- Virtual machines
- Cloud services (classic)
- Subscriptions
- App Service plans
- Azure Active Directory
- Monitor
- Security Center

D2s_v3	Standard	General purpose	2	8	4
D4s_v3	Standard	General purpose	4	16	8
DS1_v2	Standard	General purpose	1	3.5	4
DS2_v2	Standard	General purpose	2	7	8
DS2_v2	Promo	General purpose	2	7	8
DS3_v2	Standard	General purpose	4	14	1
DS3_v2	Promo	General purpose	4	14	1

Select

Prices presented are estimates in your local currency that include only applicable software costs. Final charges will appear in your local currency.

Virtual machines

mohitguptaakgechotmail (Default Directory)


+ Add

🕒 Reservations

⋮ More

Filter by name...

NAME ↑↓



No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

[Learn more about Windows virtual machines](#) [🔗](#)

[Learn more about Linux virtual machines](#) [🔗](#)

Create virtual machine

Create a virtual machine

✓ Validation passed

Basics

Disks

Networking

Management

Guest config

PRODUCT DETAILS

Standard DS3 v2 Promo

by Microsoft

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Subscription credits apply

15.1360 INR/hr

[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) authorize Microsoft to bill my current payment method for the fees associated with my Azure subscription; and (c) agree that Microsoft may share my contact information with third parties for the offering(s) for support, billing and other transactional activities. Microsoft's privacy statement is available at [Microsoft Privacy Statement](#). For additional details, see [Azure Marketplace Terms](#).

BASICS

Subscription

Resource group

Virtual machine name

Visual Studio Ultimate with Windows 10 Enterprise

xyz-resgroup

xyz-vm-dev01

Create

Previous

Next

Create another VM and add in same region and availability set

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Guest config](#) [Tags](#) [Review + create](#)

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization.

Looking for classic VMs? [Create VM from Azure Marketplace](#)

PROJECT DETAILS

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

* Subscription ⓘ

Visual Studio Ultimate with MSDN

└─ * Resource group ⓘ

xyz-resgroup

[Create new](#)

INSTANCE DETAILS

* Virtual machine name ⓘ

xyz-vm-dev02

* Region ⓘ

West US 2

Availability options ⓘ

Availability set

Create a virtual machine



Validation passed

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Guest config](#) [Tags](#) [Review + create](#)

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By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed, authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. [Azure Marketplace Terms](#) for additional details.

BASICS

Subscription	Visual Studio Ultimate with MSDN
Resource group	xyz-resgroup
Virtual machine name	xyz-vm-dev02

Create

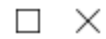
Previous

Next

[Download a template for automation](#)

Create a Load Balancer for both VM

Create load balancer



* Name

xyz-lb-dev



* Type ⓘ



Internal



Public

* SKU ⓘ



Basic



Standard

* Public IP address ⓘ



Create new



Use existing

xyz-lb-dev-ip



^ Configure public IP address

SKU

Basic

* Assignment



Dynamic



Static



Add a public IPv6 address ⓘ

Create

[Automation options](#)

Create a new Probe

[Home](#) > [All resources](#) > [xyz-lb-dev - Health probes](#) > Add health probe

Add health probe



xyz-lb-dev

* Name ⓘ

Probe



IP version

IPv4

Protocol ⓘ

HTTP



* Port ⓘ

80

* Path ⓘ

/

* Interval ⓘ

5

seconds

* Unhealthy threshold ⓘ

2

consecutive failures

OK

Add rule to redirect load balancer port

[Home](#) > [All resources](#) > [xyz-lb-dev - Load balancing rules](#) > [xyz-lb-rule01](#)

xyz-lb-rule01

xyz-lb-dev

Save

Discard

Delete

Name

xyz-lb-rule01

IP Version

IPv4

IPv6

Frontend IP address ⓘ

52.175.203.31 (LoadBalancerFrontEnd)

Protocol

TCP

UDP

Port

80

Backend port ⓘ

80

Backend pool ⓘ

xyz-lb-pool (2 virtual machines)

Health probe ⓘ

Probe (HTTP:80)


Session persistence ⓘ

None

Test Load Balancer:

Test the LB by turnoff one VM



 <http://52.175.203.31/>



 IIS Windows Server

 Windows Server

Internet Information Services

Welcome

Bienvenue

Tervetuloa

ようこそ

Benvenuto

歓迎

Bem-vindo



Bienvenido

Hoş geldiniz

מִלֵּוּ

Vítejte

Καλώς
ορίσαστε

Välkommen

환영

Microsoft

Willkommen

Velkommen

