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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.

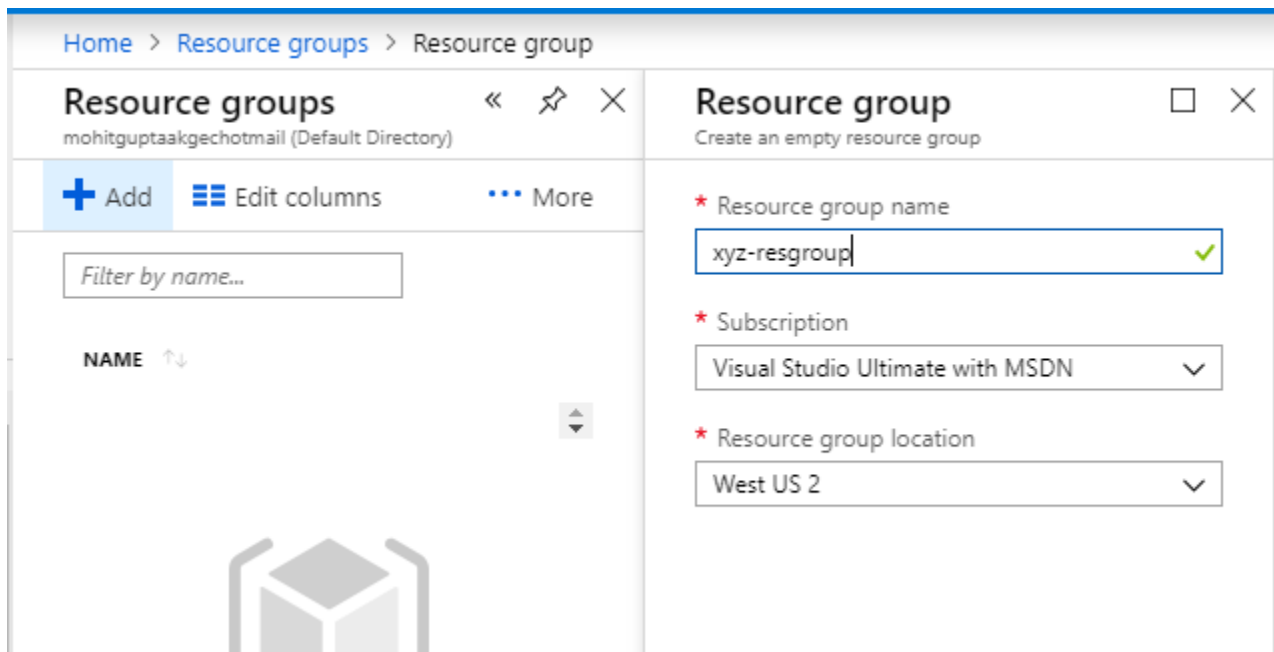Then we will test that load balancer through a common IP

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

Create a new Virtual network

Create a Virtual Machine

Create a Availability Set

Select appropriate VM compute resources

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

Select

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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

Subscription credits apply

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Pricing for other VM size

TERMS

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Azure Marketplace Terms for additional details.

BASICS

Subscription   Visual Studio Ultimate with

Resource group   xyz-resgroup

Virtual machine name   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 ⓘ

     * Resource group ⓘ

Visual Studio Ultimate with MSDN

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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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 □ ✕
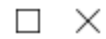
* Name

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

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

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

Windows Server

Internet Information Services

Welcome   Bienvenue   Tervetuloa

ようこそ Benvenuto 歡迎

Bienvenido   Hoş geldiniz

Bem-vindo

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Microsoft   Willkommen   Velkommen