



Azure 103 Module 5

Hands On - 1

Azure Certification Training

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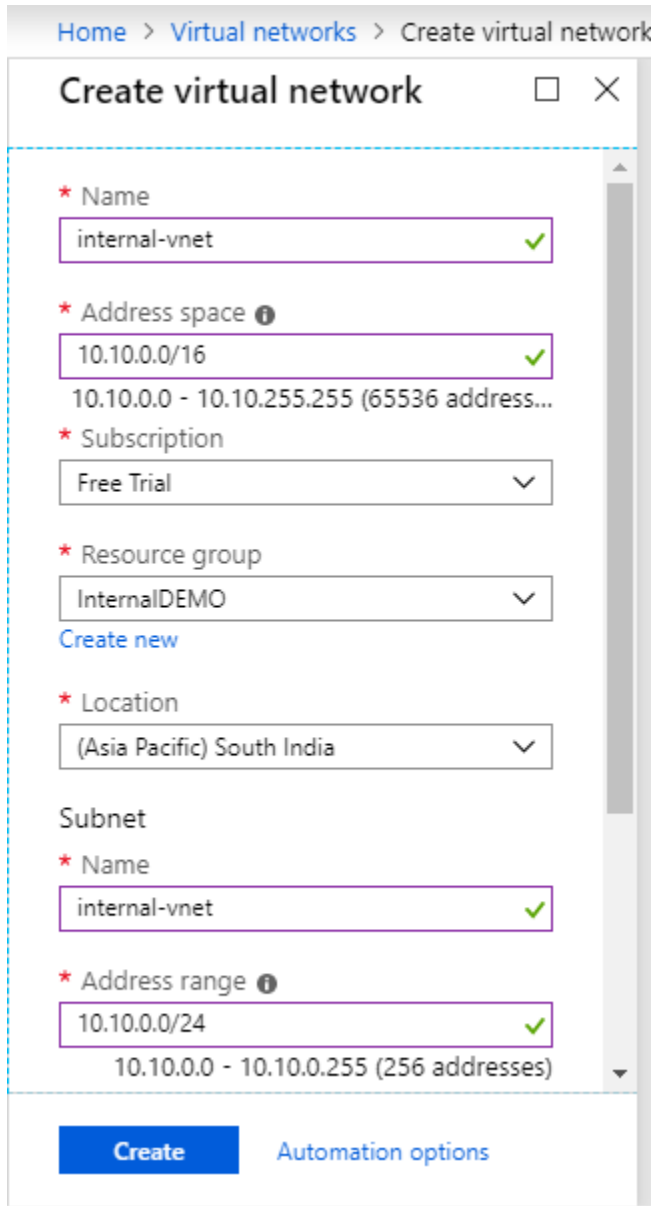
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Azure 103 Module 5 Hands On – 1

Create Internal Load Balancer

Step 1: Create three virtual machines within a single availability set and same virtual network and install IIS on two of these three VM using RDP.



Home > Virtual networks > Create virtual network

Create virtual network

* Name
internal-vnet ✓

* Address space ⓘ
10.10.0.0/16 ✓
10.10.0.0 - 10.10.255.255 (65536 address...)

* Subscription
Free Trial ▼

* Resource group
InternalDEMO ▼
[Create new](#)

* Location
(Asia Pacific) South India ▼

Subnet

* Name
internal-vnet ✓

* Address range ⓘ
10.10.0.0/24 ✓
10.10.0.0 - 10.10.0.255 (256 addresses)

[Create](#) [Automation options](#)

Step 2: Search load balancer and click on it.

Step 3: Click on '+ Add'.

Step 4: Add details and click 'Review + Create'.

Create load balancer

* Subscription: Free Trial

* Resource group: InternalDEMO [Create new](#)

Instance details

* Name: internal-load-balancer ✓

* Region: (Asia Pacific) South India

* Type: ☒ Internal ☐ Public

* SKU: ☒ Basic ☐ Standard

Configure virtual network.

* Virtual network: internal-vnet

* Subnet: internal-vnet (10.10.0.0/24) [Manage subnet configuration](#)

* IP address assignment: ☐ Static ☒ Dynamic

[Click Here](#) **Review + create** < Previous Next : Tags > [Download a template for automation](#)

Step 6: Click on 'Create'.

Create load balancer

✓ Validation passed

Basics Tags **Review + create**

Basics

Subscription	Free Trial
Resource group	InternalDEMO
Name	internal-load-balancer
Region	(Asia Pacific) South India
SKU	Basic
Type	Internal
Virtual network	internal-vnet
Subnet	internal-vnet (10.10.0.0/24)
IP address assignment	Dynamic

Tags

None

[Click Here](#) **Create** < Previous Next > [Download a template for automation](#)

Step 11: In load balancer click on backend pools and click on '+ Add'.

Home > Microsoft.LoadBalancer-20190830115823 - Overview > internal-load-balancer - Backend pools

internal-load-balancer - Backend pools

Load balancer

Search (Ctrl+/)

+ Add Refresh

Click Here

Search backend address pools

VIRTUAL MACHINE	VIRTUAL MACHINE ST...	NETWORK INTERFACE	PRIVAT
No results.			

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Frontend IP configuration

Backend pools

Health probes

Load balancing rules

Inbound NAT rules

Properties

Locks

Export template

Step 12: Enter the details (Availability Set, in target IP Configuration add both VM's and their IP) and click on OK.

Add backend pool

internal-load-balancer

* Name
internal-load-balancer-backend-pool ✓

IP version ⓘ
IPv4

Associated to ⓘ
Availability set

Availability set ⓘ
InternalAS
number of virtual machines: 2

Target network IP configurations
Only VMs within the current availability set can be chosen. Once a VM is chosen, you can select a network IP configuration related to it.

Virtual machine: InternalVM1
Network IP configuration: internalvm1934/ipconfig1 (10.10.0.4)

* Target virtual machine ⓘ
InternalVM2
size: Standard_DS1_v2, network interfaces: 1

* Network IP configuration ⓘ
ipconfig1 (10.10.0.5)

+ Add a target network IP configuration

OK

Click Here

Step 13: In load balancer click on health probes and click on '+ Add'.

Home > Microsoft.LoadBalancer-20190830115823 - Overview > internal-load-balancer - Health probes

internal-load-balancer - Health probes

Load balancer

Search (Ctrl+J)

+ Add Click Here

Search probes

NAME	PROTOCOL	PORT	USED BY
No results.			

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Frontend IP configuration

Backend pools

Health probes

Load balancing rules

Inbound NAT rules

Properties

Locks

Export template

Step 14: Enter details click on OK.

Home > Microsoft.LoadBalancer-20190830115823 - Overview > internal-load-balancer - Health probes > Add health probe

Add health probe

internal-load-balancer

* Name

internal-loadbalancer-healthprobe

IP version

IPv4

Protocol

TCP

* Port

80

* Interval

5

seconds

* Unhealthy threshold

2

consecutive failures

OK Click Here

Step 15: In load balancer click on Load Balancing Rule and click on '+ Add'.

Home > internal-load-balancer - Load balancing rules

internal-load-balancer - Load balancing rules

Load balancer

Search (Ctrl+/)

+ Add Click here

Search load balancing rules

NAME	LOAD BALANCING RULE	BACKEND POOL	HEALTH I
No results.			

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Frontend IP configuration

Backend pools

Health probes

Load balancing rules

Inbound NAT rules

Properties

Locks

Export template

Support + troubleshooting

Step 16: Enter details click on OK.

Home > internal-load-balancer - Load balancing rules > Add load balancing rule

Add load balancing rule

internal-load-balancer

* Name

internal-loadbalancer-rule

* IP Version

☒ IPv4 ☐ IPv6

* Frontend IP address

10.10.0.6 (LoadBalancerFrontEnd)

Protocol

☒ TCP ☐ UDP

* Port

80

* Backend port

80

Backend pool

internal-load-balancer-backend-pool (2 virtual machines)

Health probe

internal-loadbalancer-healthprobe (TCP:80)

OK Click here

Step 17: Open load balancer's Front End IP Configuration and copy the IP Address.

+ Add		
<input type="text" value="Search frontend IP configurations"/>		
NAME	IP ADDRESS	RULES COUNT
LoadBalancerFrontEnd	10.10.0.6	1
		...

Step 18: Open that IP Address in the Third VM you added.

