











Lab 06 - Implement Traffic Management

- Task 1: Use a template to provision an infrastructure
- Task 2: Configure an Azure Load Balancer
- Task 3: Configure an Azure Application Gateway

Task 1: Use a template to provision an infrastructure


 **Microsoft.Template-20241023140829** | Overview  

Deployment


Search    Delete  Cancel  Redeploy  Download  Refresh

Overview

Inputs























Outputs 

Template

 **Your deployment is complete**

Deployment name : Microsoft.Template-20241023140829 Start time : 10/23/2024, 2:08:38 PM
Subscription : P9-Real Hands-On Labs Correlation ID : 01733493-6648-4373-82e4-9f8affdf4132
Resource group : 1-2032f5de-playground-sandbox

Deployment details

Resource	Type	Status	Operation details
 az104-06-vm1/cust	 Microsoft.Compute/virtualMach	OK	Operation details
 az104-06-vm0/cust	 Microsoft.Compute/virtualMach	OK	Operation details
 az104-06-vm2/cust	 Microsoft.Compute/virtualMach	OK	Operation details
 az104-06-vm0	 Virtual machine	OK	Operation details
 az104-06-vm2	 Virtual machine	OK	Operation details
 az104-06-vm1	 Virtual machine	OK	Operation details
 az104-06-nic0	 Microsoft.Network/networkInter	OK	Operation details
 az104-06-nic1	 Microsoft.Network/networkInter	OK	Operation details
 az104-06-nic2	 Microsoft.Network/networkInter	OK	Operation details
 az104-06-vnet1	 Virtual network	Created	Operation details
 az104-06-nsg1	 Network security group	OK	Operation details

Next steps

[Go to resource group](#)

Used a template to provision an infrastructure

Task 2: Configure an Azure Load Balancer

Home > Microsoft.LoadBalancer-20241023141534 | Overview >

az104-lb
Load balancer

Search

Move Delete Refresh Give feedback

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
- Monitoring
- Automation
- Help

Essentials

Resource group (move) : [1-2032f5de-playground-sandbox](#)

Location : West US

Subscription (move) : [P9-Real Hands-On Labs](#)

Subscription ID : 28e1e42a-4438-4c30-9a5f-7d7b488fd883

SKU : Standard

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

[See more](#)

Backend pool : az104-be (2 virtual machines)

Load balancing rule : -

Health probe : -

NAT rules : 0 inbound

Tier : Regional

[JSON View](#)

Configure high availability and scalability for your applications

I have configured a load balancer, backend pools and public IP addresses and also added rules to determine how incoming traffic should be distributed.

Hello World from az104-06-vm1

Hello World from az104-06-vm0

After all configuration I copied and entered public IP in browser and saw messages and they were changing what demonstrates that the load balancer is rotating through VMs.

Task 3: Configure an Azure Application Gateway

Home >

Microsoft.ApplicationGateway-20241023143031 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

- Inputs
- Outputs
- Template

✓ Your deployment is complete

Deployment name : Microsoft.ApplicationGateway-20241023... Start time : 10/23/2024, 2:38:21 PM

Subscription : [P9-Real Hands-On Labs](#) Correlation ID : 78f9cf85-c4b8-44bc-afcb-9c9a2e8a9d1f

Resource group : [1-2032f5de-playground-sandbox](#)

> Deployment details

< Next steps

[Go to resource group](#)

Give feedback

[Tell us about your experience with deployment](#)

Deployment success
Deployment 'Microsoft... 20241023143031' to res playground-sandbox' w

[Pin to dashbo...](#)

Cost manager
Get notified to prevent unexp
[Set up cost al](#)


Microsoft Def
Secure your aj
[Go to Microsc](#)

Free Microsof
[Start learning](#)


Work with an

I used a preconfigured network and create an additional subnet. After that I went to **Application Gateways** and started configuring it. In the **Backends** I created different pools for apps, images and videos. I also configured **path-based routing** by adding two rules for routing to images and videos backend.

Backend health
By default, Azure Application Gateway probes backend servers to check their health and whether they're ready to serve requests. You can also create custom [Health Probes](#) to mention : specific hostname and path to be probed or a response code to be accepted as Healthy.


 The Backend health report is updated based on the respective probe's refresh interval and doesn't depend on the page refresh.

All

 4

out of 4

Healthy

 4

out of 4

Search backend health								
Server (backend pool)	↕	Status	↕	Port (Backend se...↕	Protocol	↕	Details	Action
10.60.2.4 (az104-appgwbe)		✔ Healthy		80 (az104-http)	Http		Success. Received 200 status code	
10.60.1.4 (az104-appgwbe)		✔ Healthy		80 (az104-http)	Http		Success. Received 200 status code	
10.60.2.4 (az104-videobe)		✔ Healthy		80 (az104-http)	Http		Success. Received 200 status code	
10.60.1.4 (az104-imagebe)		✔ Healthy		80 (az104-http)	Http		Success. Received 200 status code	

All servers are healthy as expected.

Video from: az104-06-vm2

Image from: az104-06-vm1

Verifying that I am being directed to image and video servers.