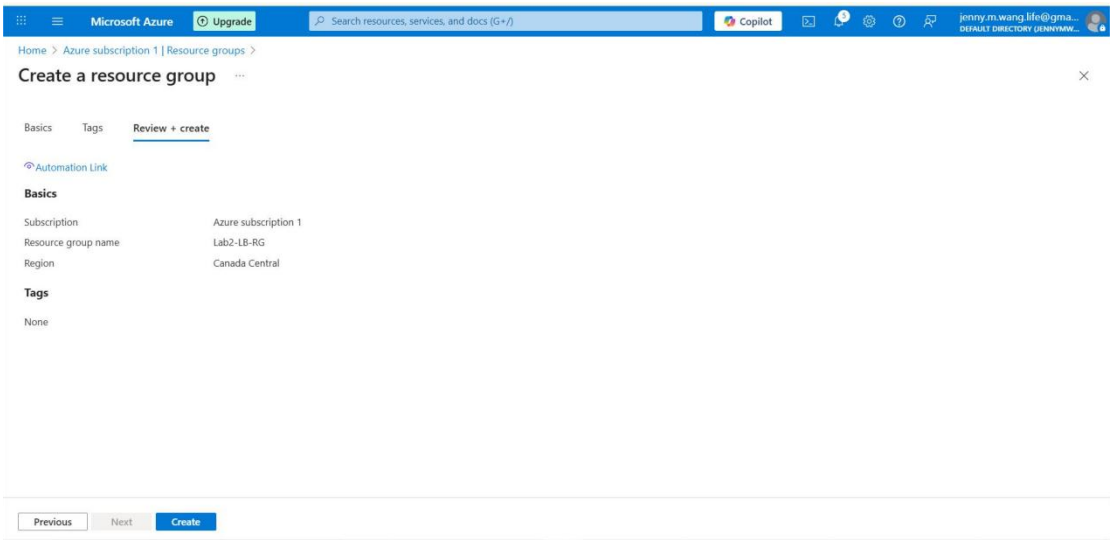
Lab　Deploy Azure Load Balancer

Lab Objective: Deploy a high-availability web application using two Windows Virtual Machines behind a Standard Azure Public Load Balancer, demonstrating load balancing, backend pool configuration, and health monitoring.

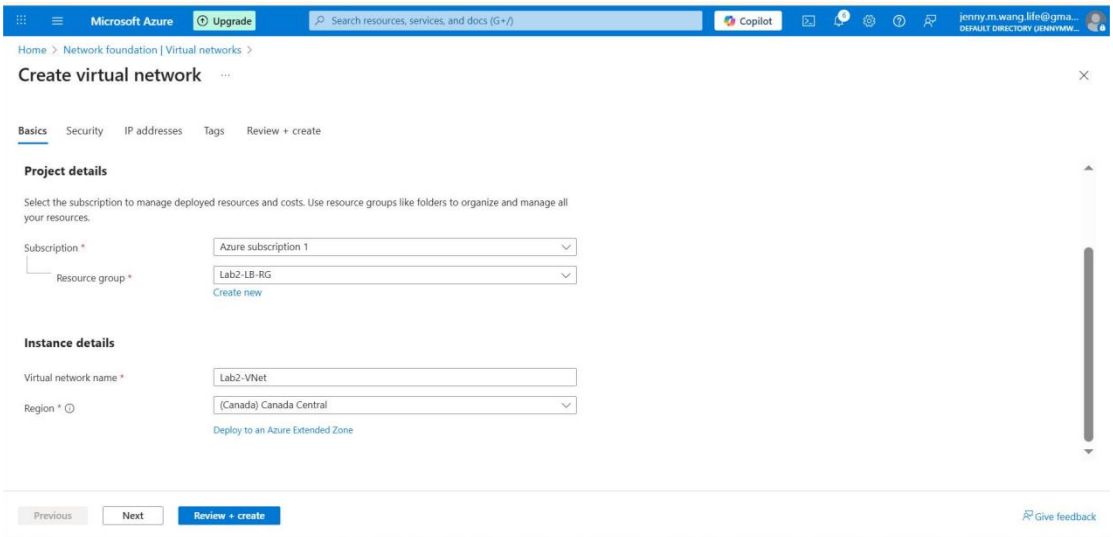
Step 1 – Create a Resource Group



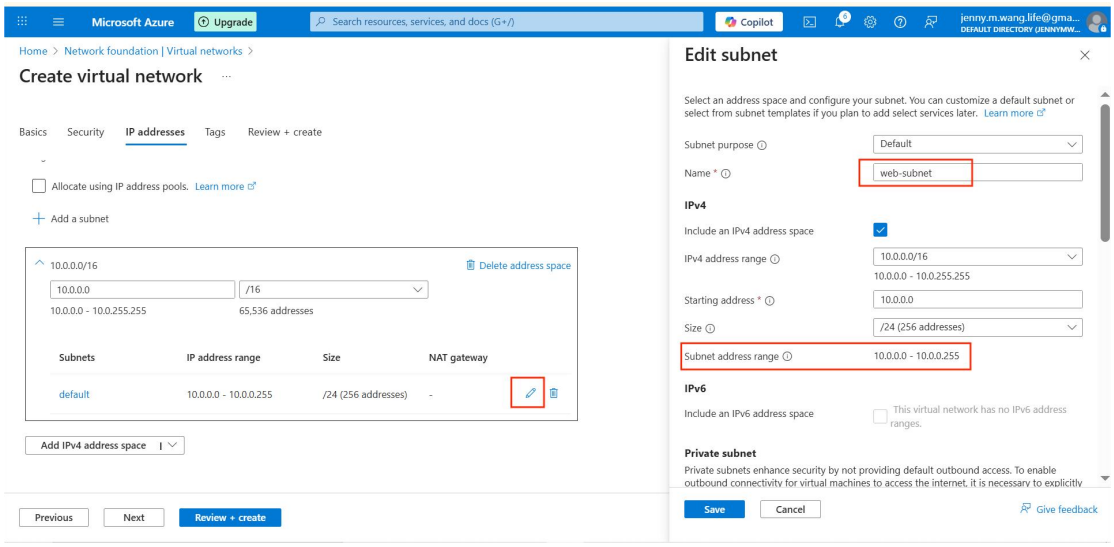
Created a dedicated resource group: Lab2-LB-RG in Canada Central to organize all lab resources.

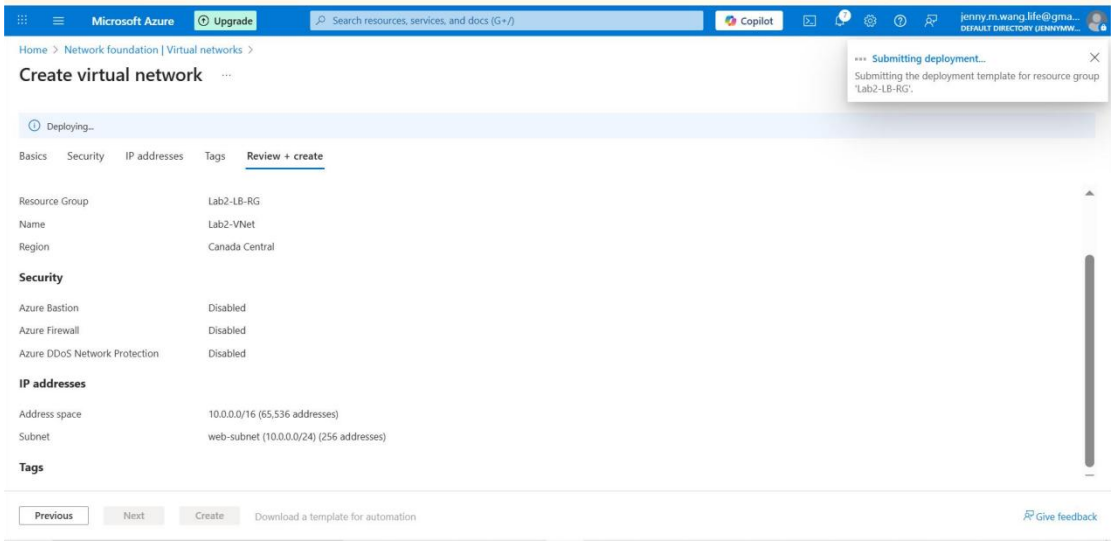
Step 2 – Create a Virtual Network

Build a network that both VMs and the load balancer will use：



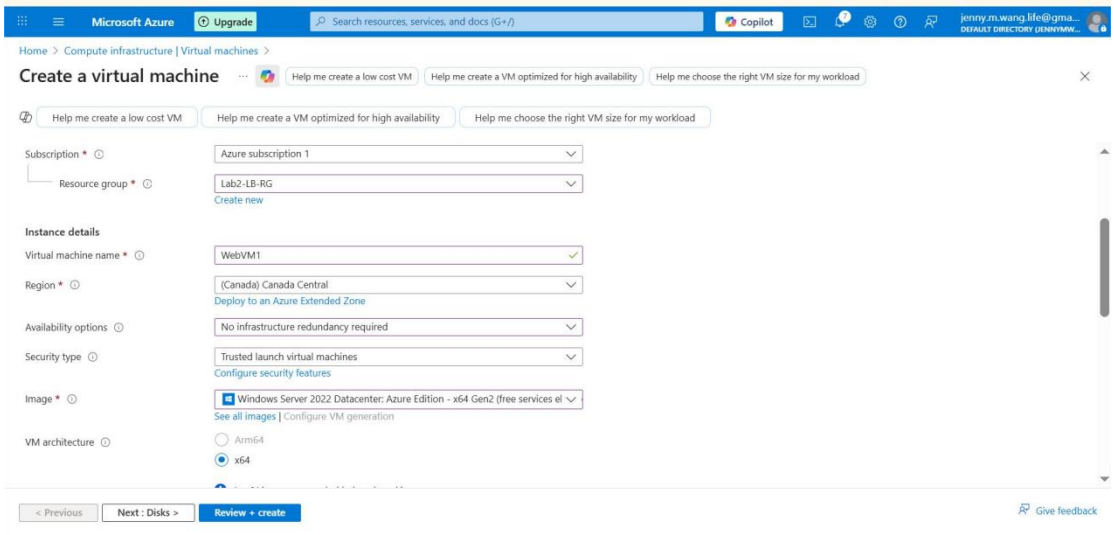
Edit subnet:

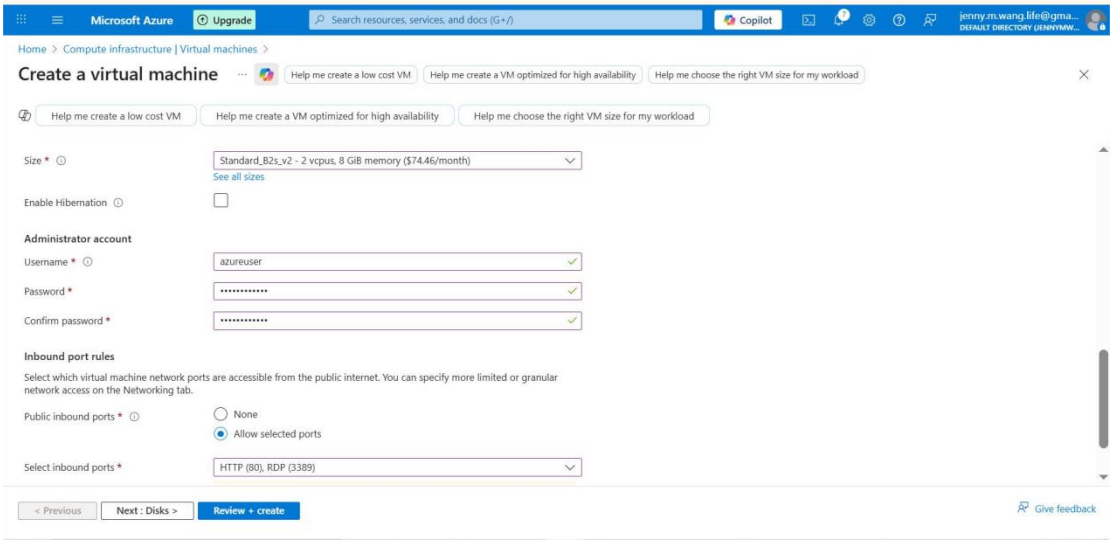


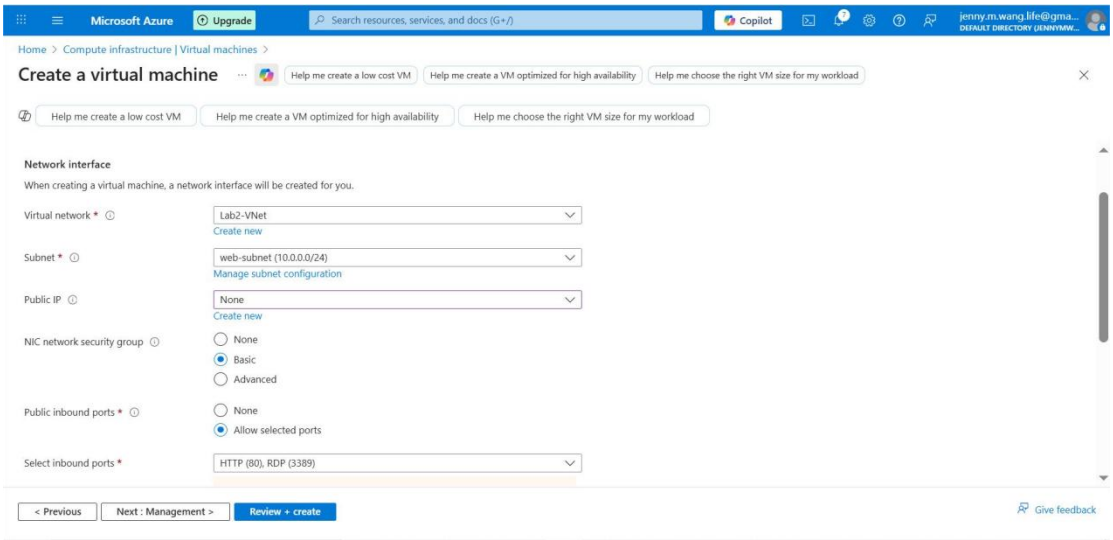


Created a virtual network: Lab2-VNet with a single subnet web-subnet (10.0.0.0/24) to host the VMs and Load Balancer.

Step 3 – Create VMs



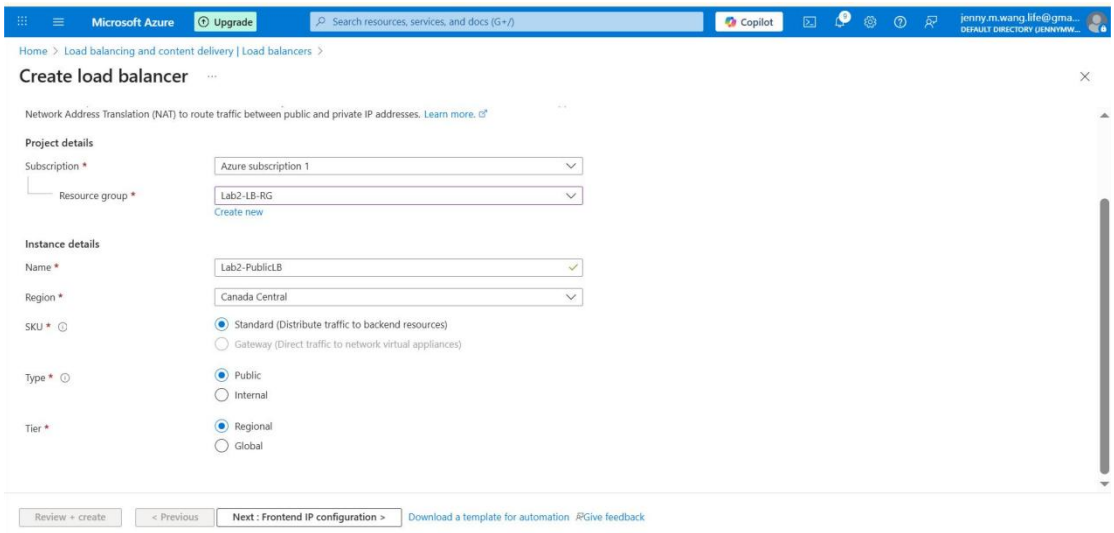


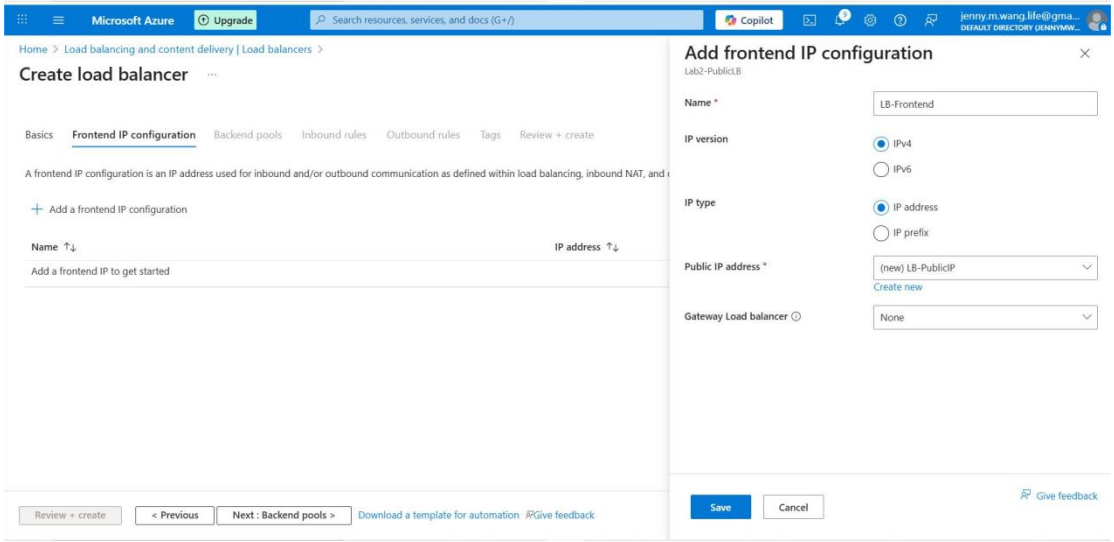


Next, create VM 2, which will be almost identical — this ensures the Load Balancer can distribute traffic evenly.

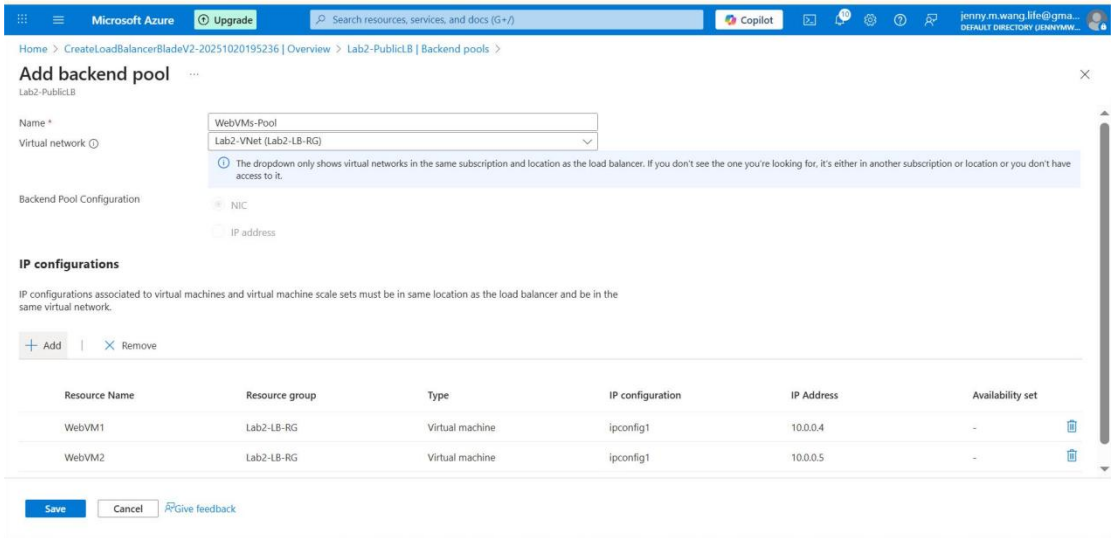
Summary: Deployed WebVM1 and WebVM2 (Windows Server 2022 Datacenter) in the web-subnet; Configured inbound rules to allow RDP (3389) and HTTP (80); Will use Azure Bastion for secure RDP connections without assigning public IPs.

Step 4 – Create the Public Load Balancer

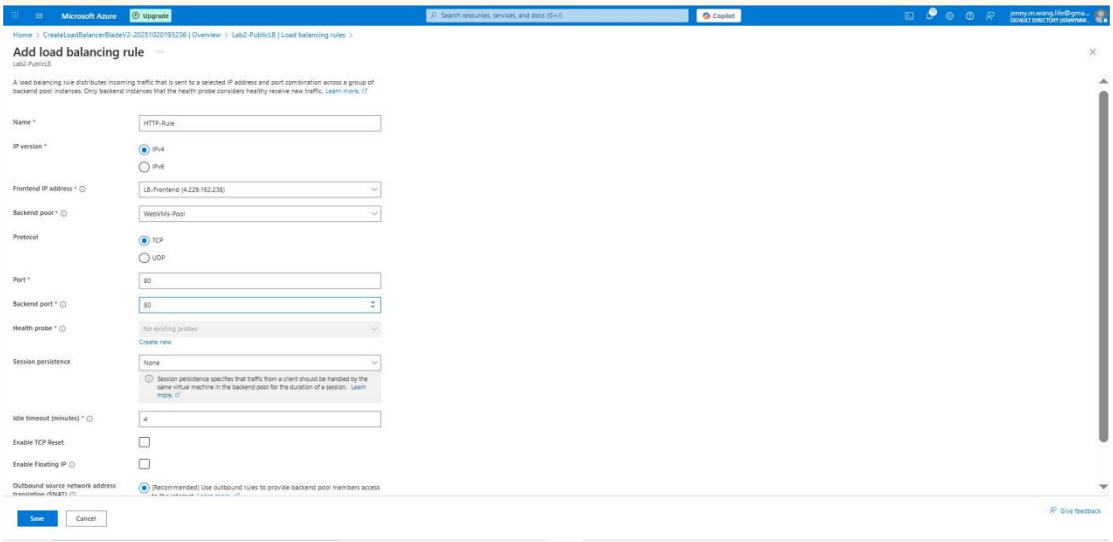




Step 5 — Add VMs to Backend Pool



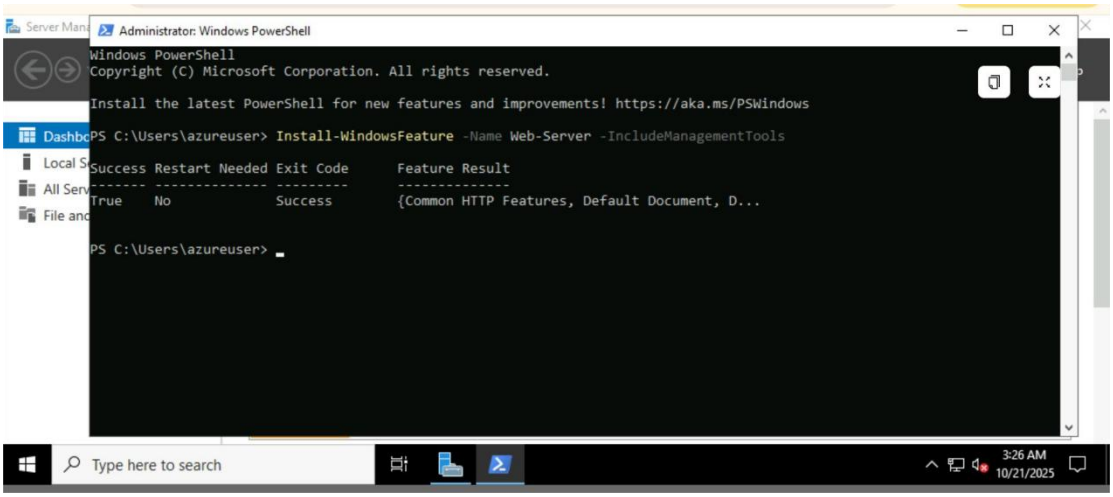
Step 6 — Create Load Balancing Rule



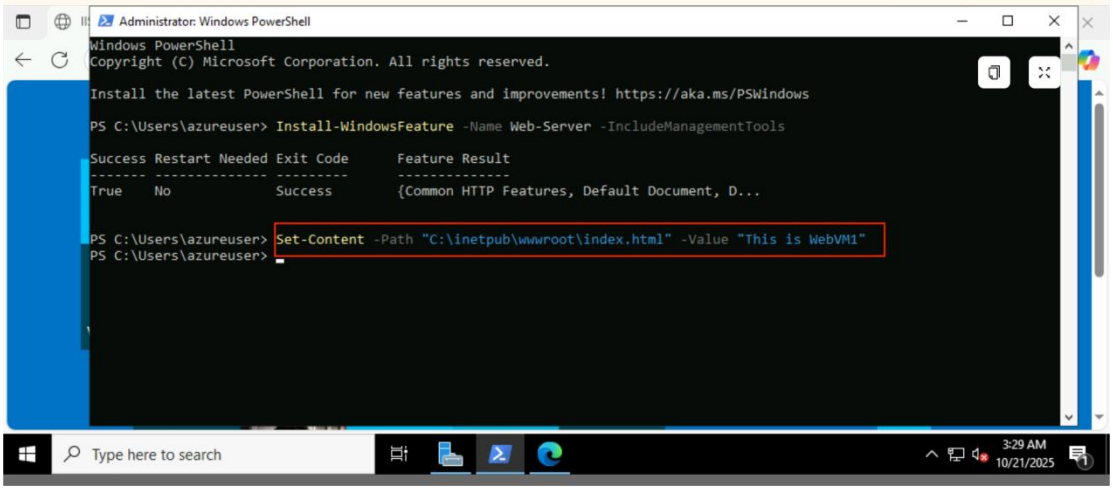
Create a Health Probe HTTP-Probe and click Save.

Step 7 — Test the Load Balancer

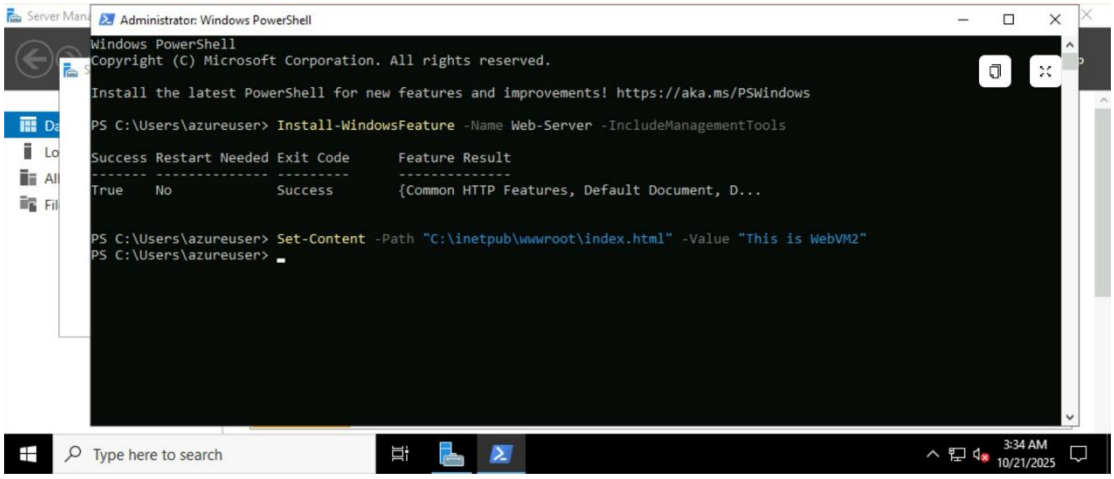
Install IIS on WebVM1, using Azure Bastion to connect:



Add a custom page for testing Load Balancer:



Now WebVM1 has IIS installed and is serving a page. Repeat the process for WebVM2:

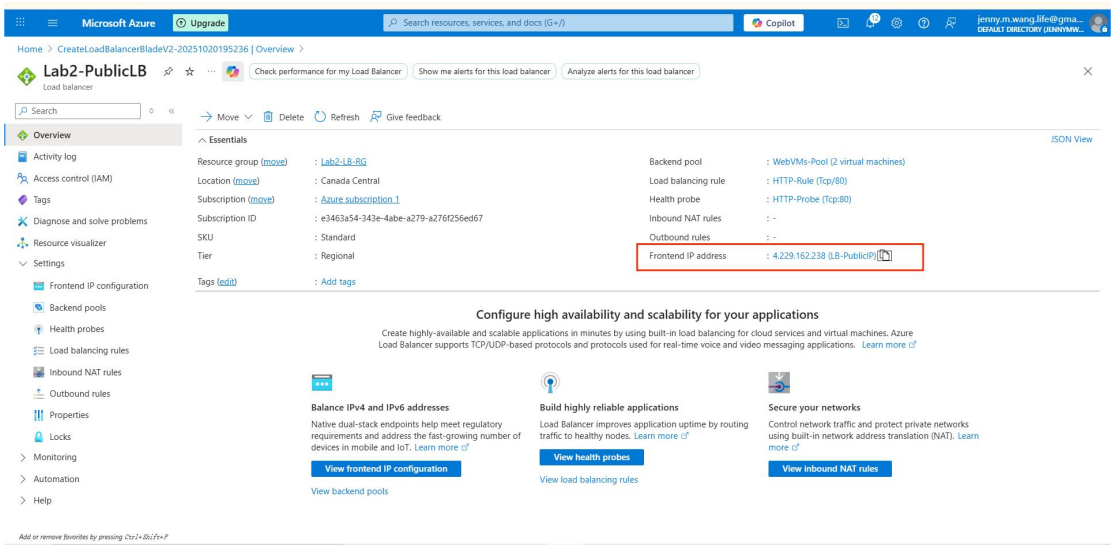


Summary: Created custom index pages on each VM to verify load balancing:

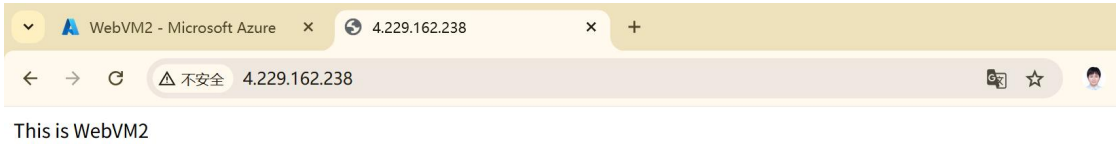
WebVM1 → "This is WebVM1"

WebVM2 → "This is WebVM2"

To confirm the Load Balancer's working, copy the frontend IP address:



Open a browser → paste the public IP and refresh several times:

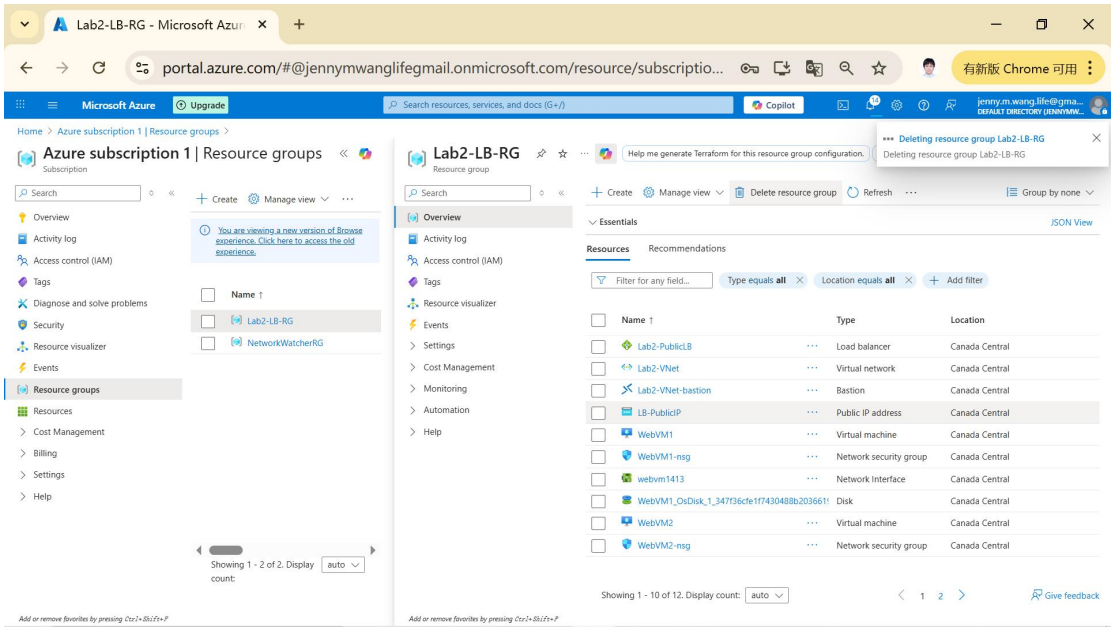


This is WebVM2

So, the Load Balancer is forwarding HTTP traffic; The Backend Pool is working; IIS on both VMs is serving content.

My Load Balancer is distributing traffic between two IIS VMs.

Deleting the Resource Group:


Lab2-LB-RG - Microsoft Azure
portal.azure.com/#@jennymwanglifegmail.onmicrosoft.com/resource/subscriptio...
有新版 Chrome 可用
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Copilot
Home > Azure subscription 1 | Resource groups
Azure subscription 1 | Resource groups
Subscription
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Security
Resource visualizer
Events
Resource groups
Resources
Cost Management
Billing
Settings
Help
Create
Manage view
You are viewing a new version of Browse experience. Click here to access the old experience.
Name
Lab2-LB-RG
NetworkWatcherRG
Showing 1 - 2 of 2. Display count: auto
Lab2-LB-RG
Resource group
Help me generate Terraform for this resource group configuration.
Deleting resource group Lab2-LB-RG
Deleting resource group Lab2-LB-RG
Overview
Activity log
Access control (IAM)
Tags
Resource visualizer
Events
Settings
Cost Management
Monitoring
Automation
Help
Create
Manage view
Delete resource group
Refresh
Group by none
Essentials
JSON View
Resources
Recommendations
Filter for any field...
Type equals all
Location equals all
Add filter
Name
Type
Location
Lab2-PublicLB
Load balancer
Canada Central
Lab2-VNet
Virtual network
Canada Central
Lab2-VNet-bastion
Bastion
Canada Central
LB-PublicIP
Public IP address
Canada Central
WebVM1
Virtual machine
Canada Central
WebVM1-nsg
Network security group
Canada Central
webvm1413
Network Interface
Canada Central
WebVM1_OsDisk_1_347f36cfe1f7430488b203661
Disk
Canada Central
WebVM2
Virtual machine
Canada Central
WebVM2-nsg
Network security group
Canada Central
Showing 1 - 10 of 12. Display count: auto
1
2
Give feedback