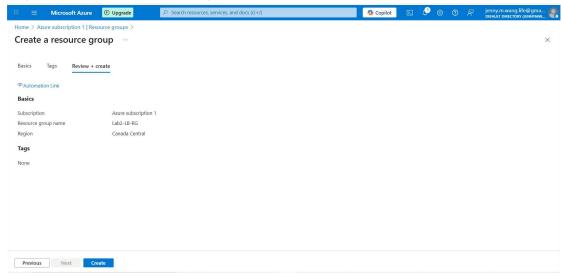
Lab 2 Azure Load Balancer

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.

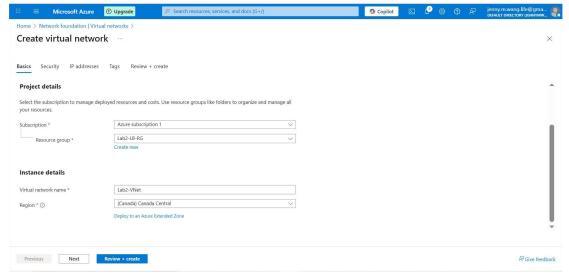
Step 1 - Create a Resource Group



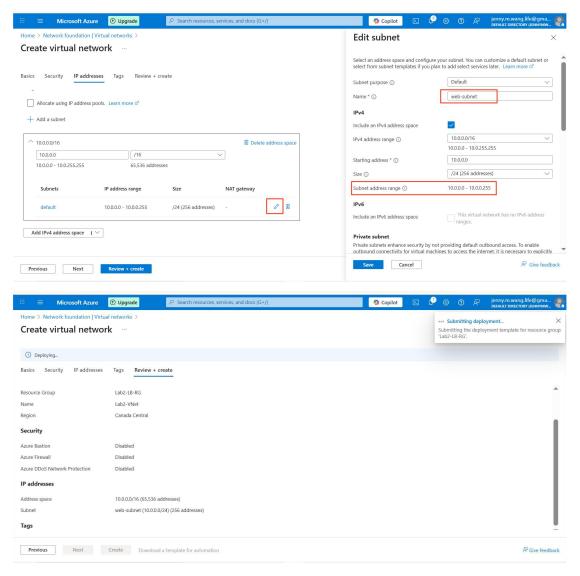
Created a dedicated resource group: Lab2-LB-RG in Canada Central to organize all lab resources.

Step 2 - Create a Virtual Network

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

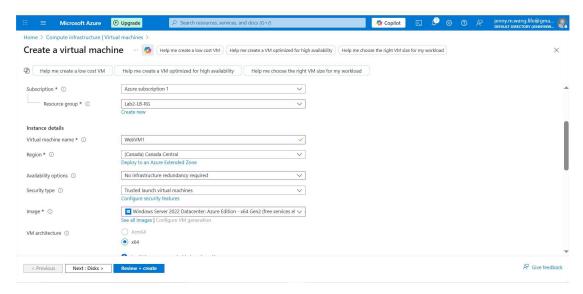


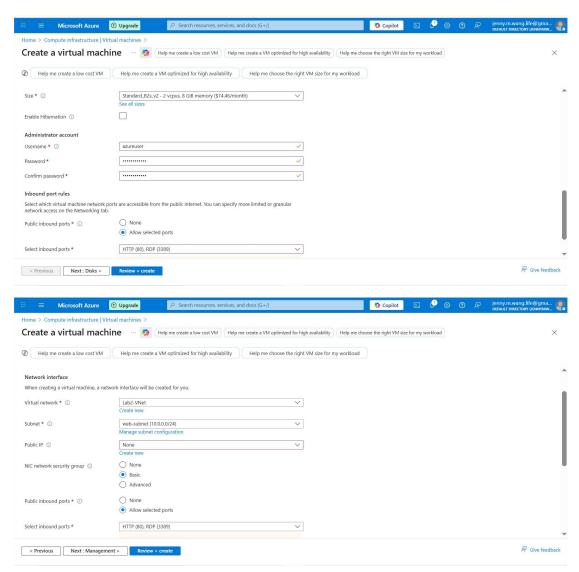
Edit subnet:



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

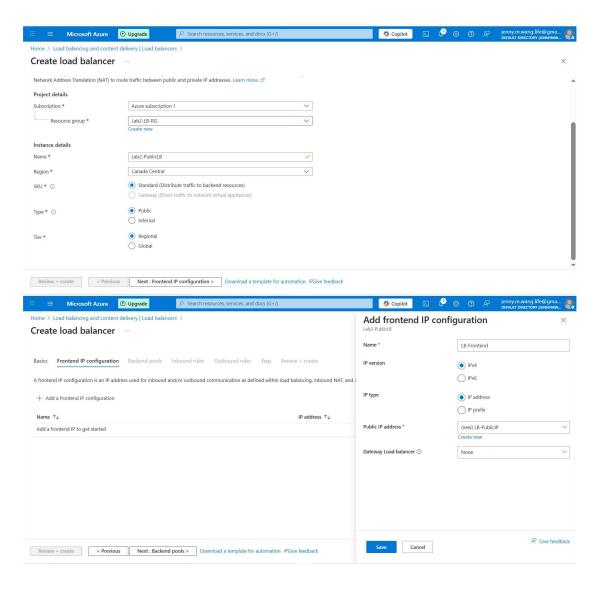




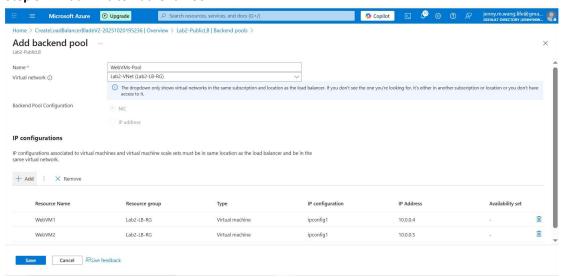
Next, create VM 2, which will be almost identical — this ensures the Load Balancer can distribute traffic evenly.

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.

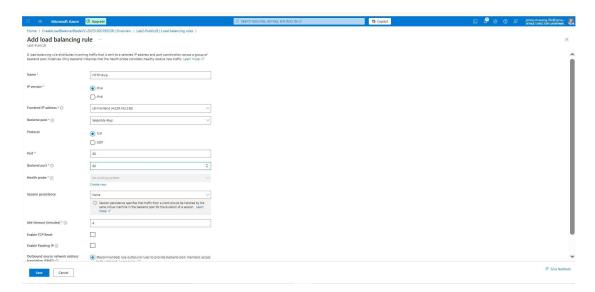
Step 4 – Create the Public Load Balancer



Step 5 — Add VMs to Backend Pool



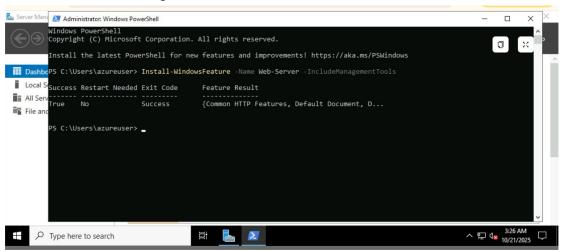
Step 6 — Create Load Balancing Rule



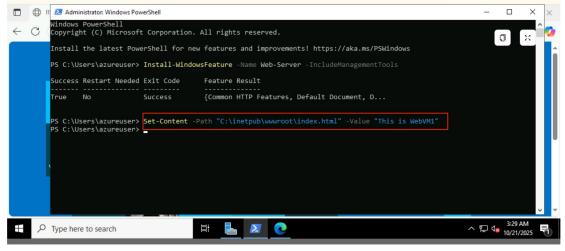
Create a Health Probe HTTP-Probe and click Save.

Step 7 — Test the Load Balancer

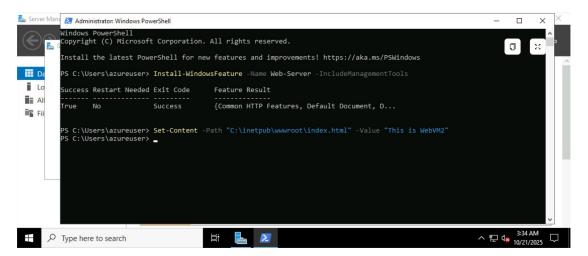
Install IIS on WebVM1, using Azure Bastion to connect:



Add a custom page for testing Load Balancer:



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

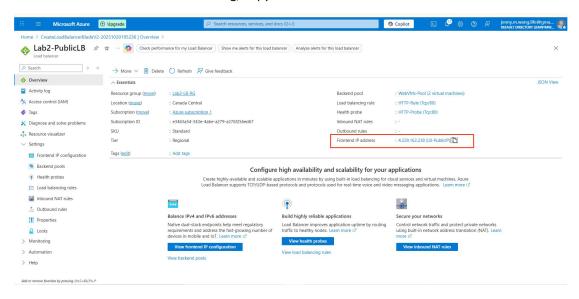


Summary: Created custom index pages on each VM to verify load balancing:

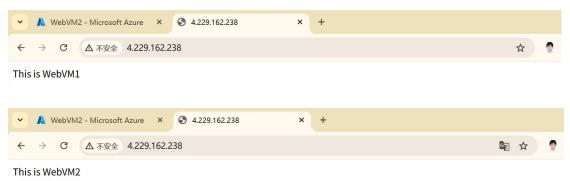
WebVM1 → "This is WebVM1"

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:



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.