

# IT4090 Cloud Computing 4<sup>th</sup> Year, 1<sup>st</sup> Semester

## Azure Lab 4

(Create a public load balancer to load balance VMs using the Azure portal)

## **Azure Lab Assignment**

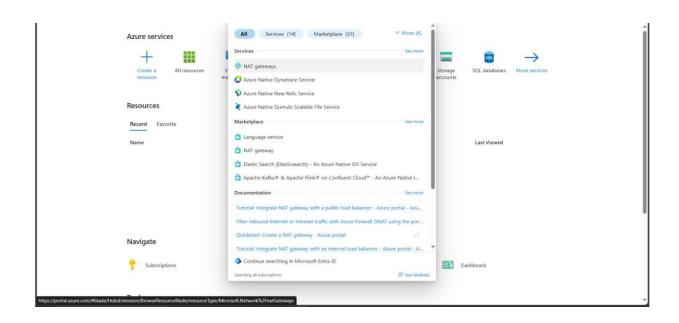
Submitted to

Sri Lanka Institute of Information Technology

## IT21228094

In partial fulfillment of the requirements for the Bachelor of Science Special Honors Degree in Information Technology

06.09.2024







### No NAT gateways to display

Use Azure NAT Gateway to provide highly resilient and secure outbound connectivity to the internet from private instances in your virtual network. NAT gateway is a fully managed network address translation service that dynamically scales outbound connectivity and helps avoid connectivity failure due to port exhaustion. You can use a single instance to scale across multiple VMs in your network with predictable outbound addresses.

Create NAT gateway



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Home > NAT gateways > Create network address translation (NAT) gateway Basics Outbound IP Subnet Tags Review + create Azure NAT gateway can be used to translate outbound flows from a virtual network to the public internet. Learn more about NAT gateways.  $\mathfrak{S}^{\circ}$ Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. Subscription \* Azure for Students 

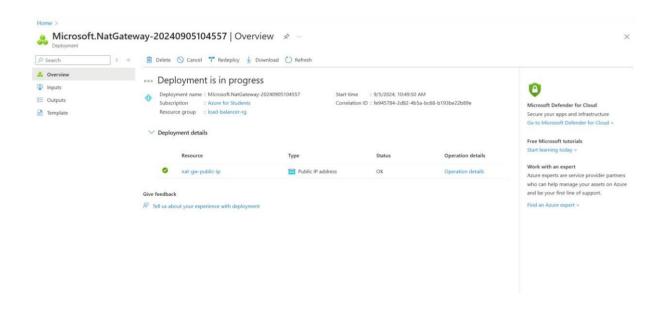
Resource group \* (New) load-balancer-rg 

Create new Instance details lb-nat-gateway NAT gateway name \* Korea Central No Zone TCP idle timeout (minutes) \* ① 15 Previous Next : Outbound IP > Download a template for automation Home > NAT gateways > Create network address translation (NAT) gateway Basics Outbound IP Subnet Tags Review + create Configure which public IP addresses and public IP prefixes to use. Each outbound IP address provides 64,000 SNAT ports for the NAT gateway resource to use. You can add up to 16 outbound IP addresses. Note: While you do not have to complete this step to create a NAT gateway, the NAT gateway will not be functional and any subnet with this NAT gateway will not have outbound connectivity until you have added at least one public IP address or public IP prefix. You can also add and reconfigure which IP addresses are included after creating the NAT gateway. (New) nat-gw-public-ip 
Create a new public IP address Public IP addresses 0 selected
Create a new public IP prefix Public IP Prefixes < Previous Next : Subnet > Download a template for automation













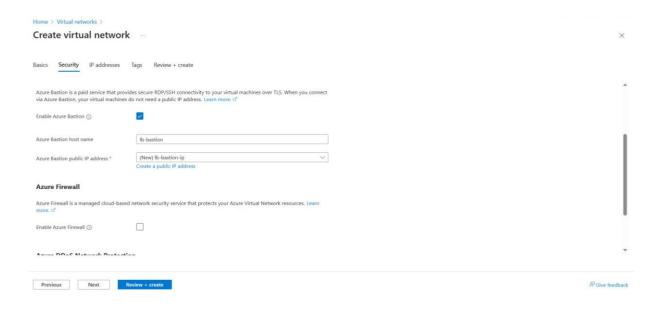
#### No virtual networks to display

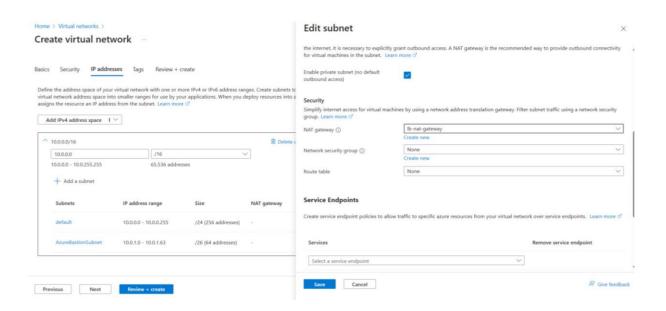
Create a virtual network to securely connect your Azure resources to each other. Connect your virtual network to your

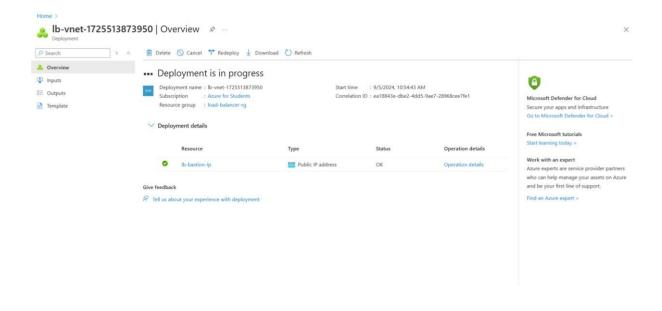
Create virtual network

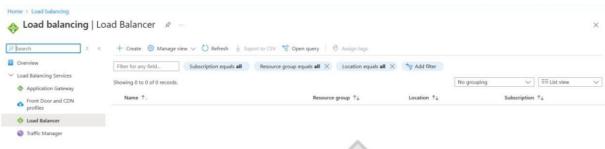
Learn more 13

Give feedback











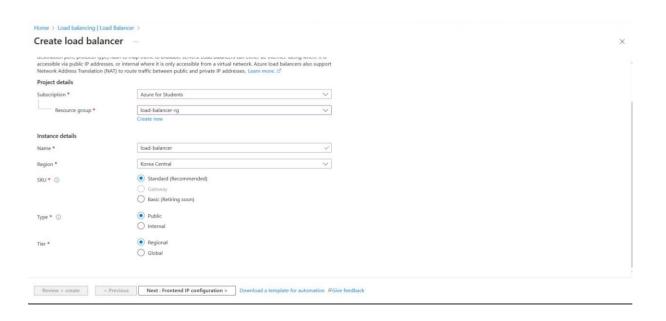
#### No load balancers to display

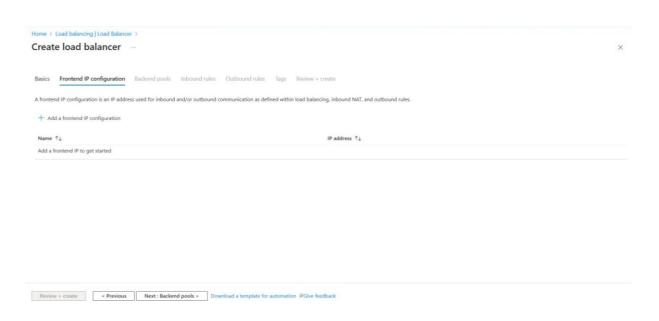
Azure Load Balancer enables your applications to be highly available and scalable. You can scale up and down based on your traffic patterns. Azure Load Balancer is best suited for network traffic requiring high performance and ultralow latency.

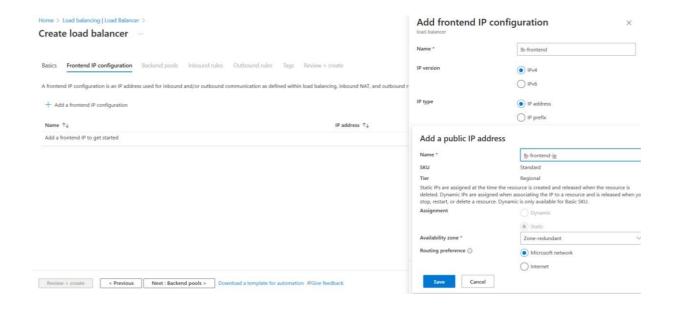
Create load balancer

Learn more about Load balancers of

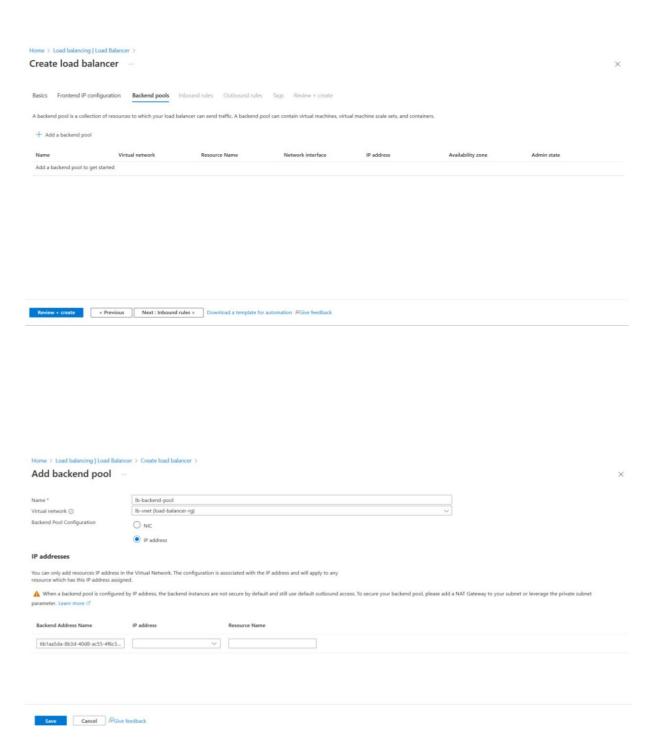
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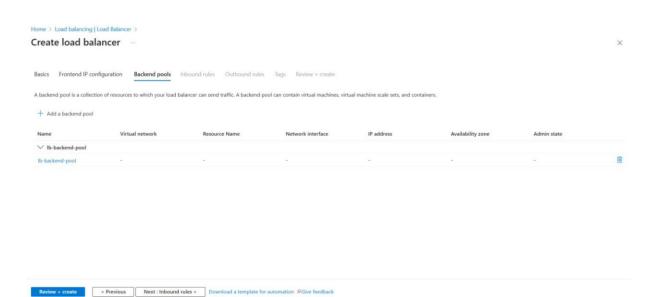


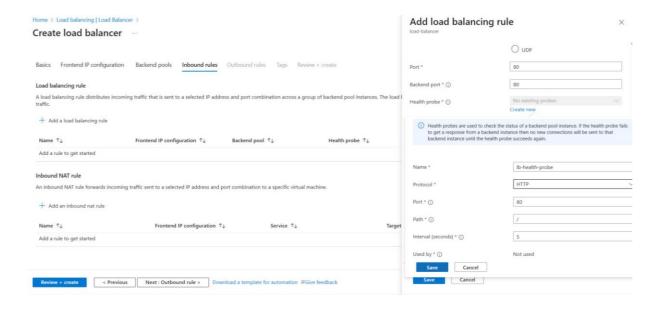


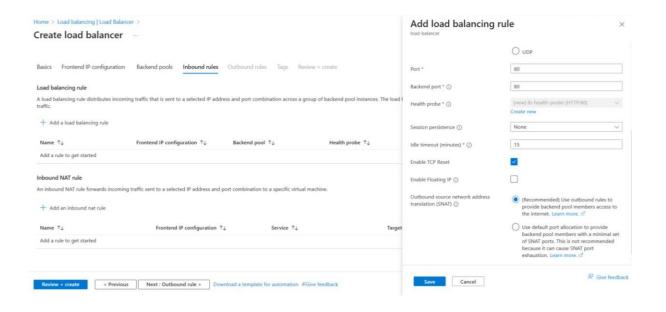


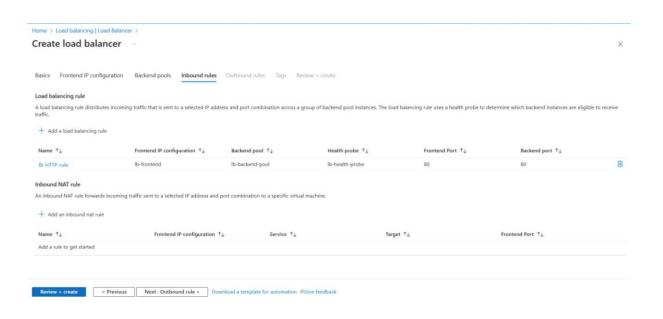




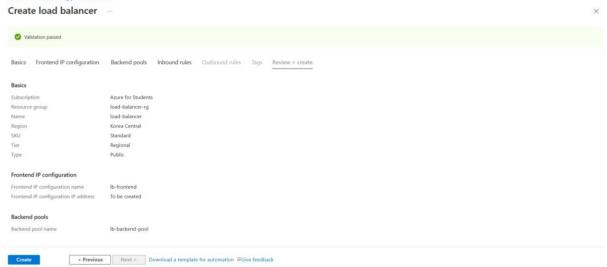


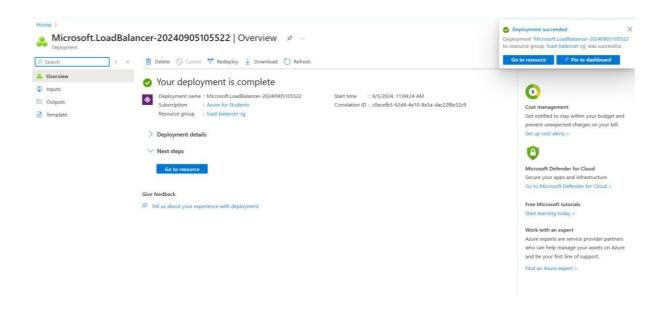


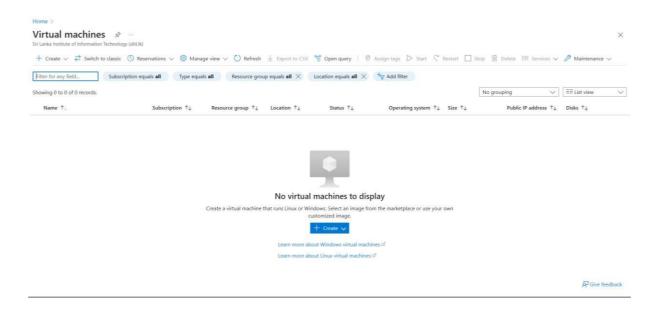


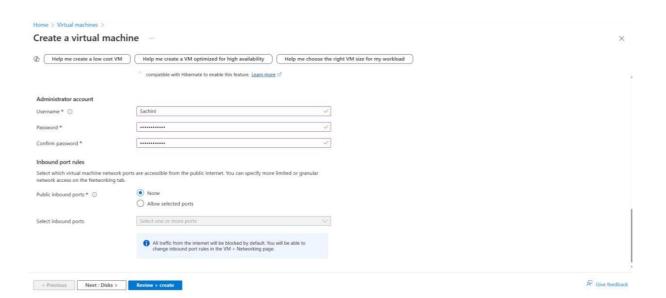


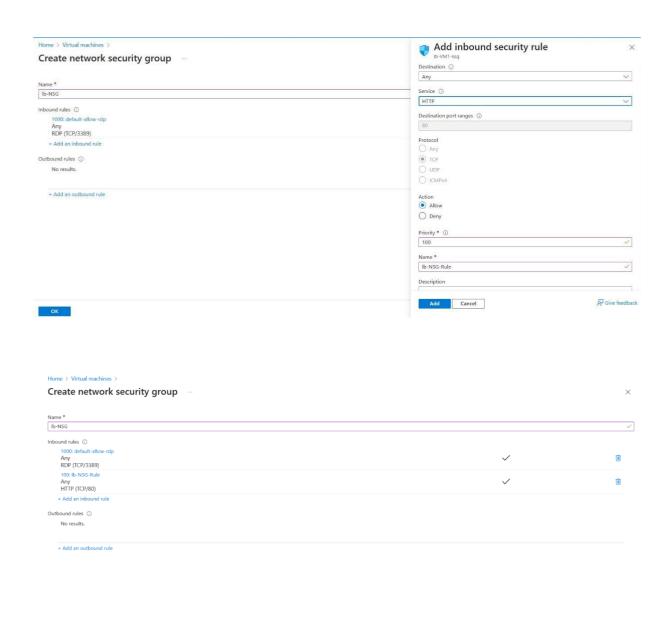


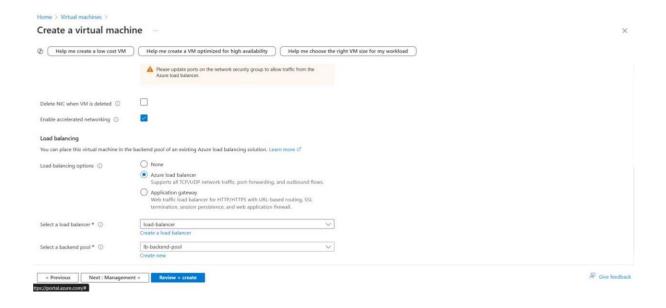


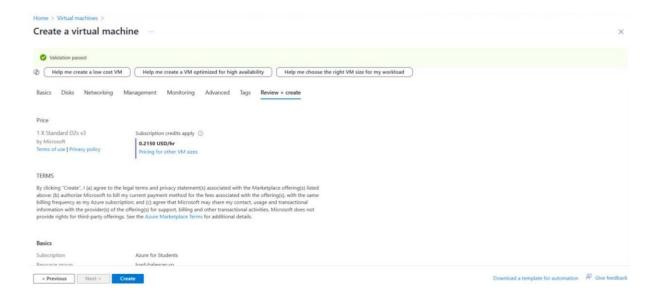


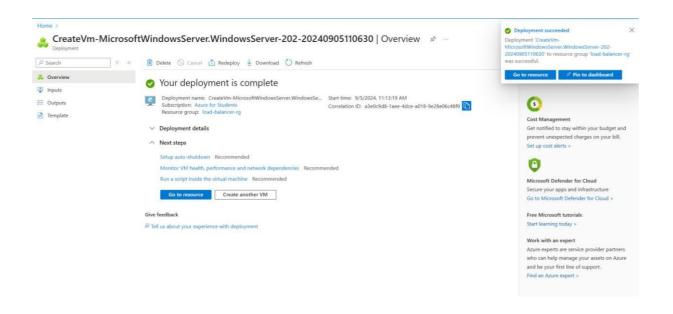


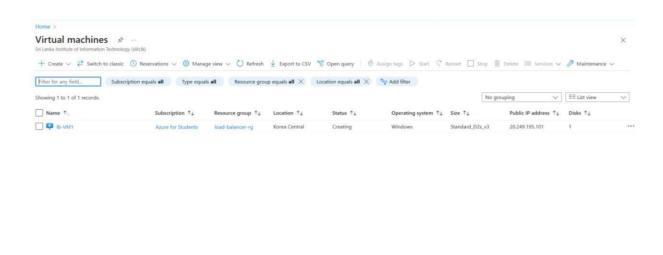












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