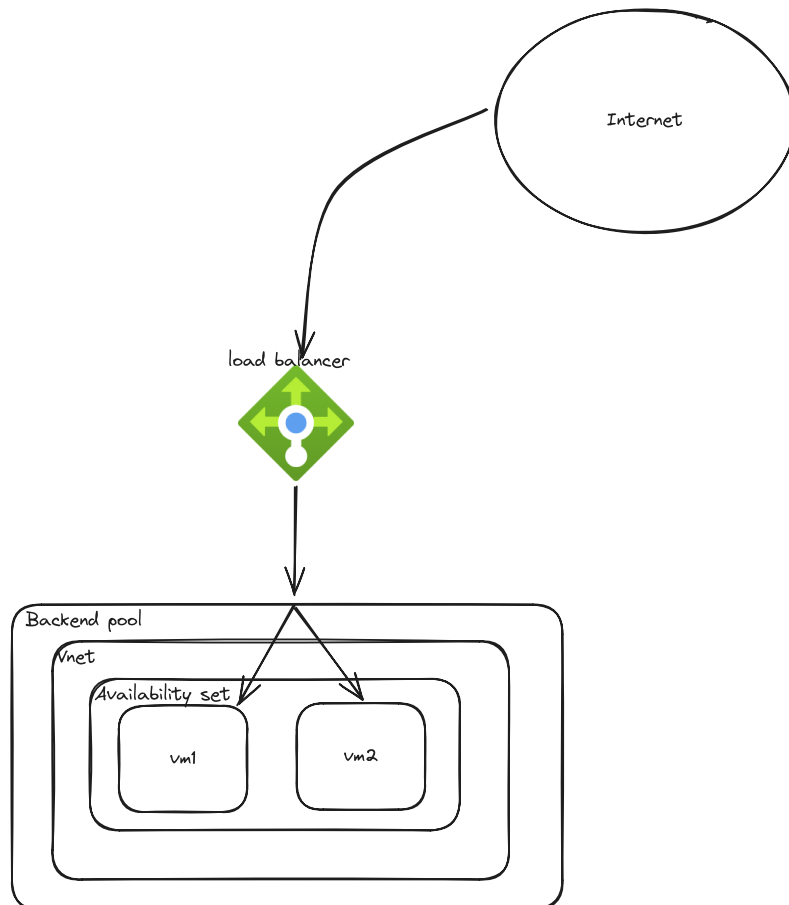


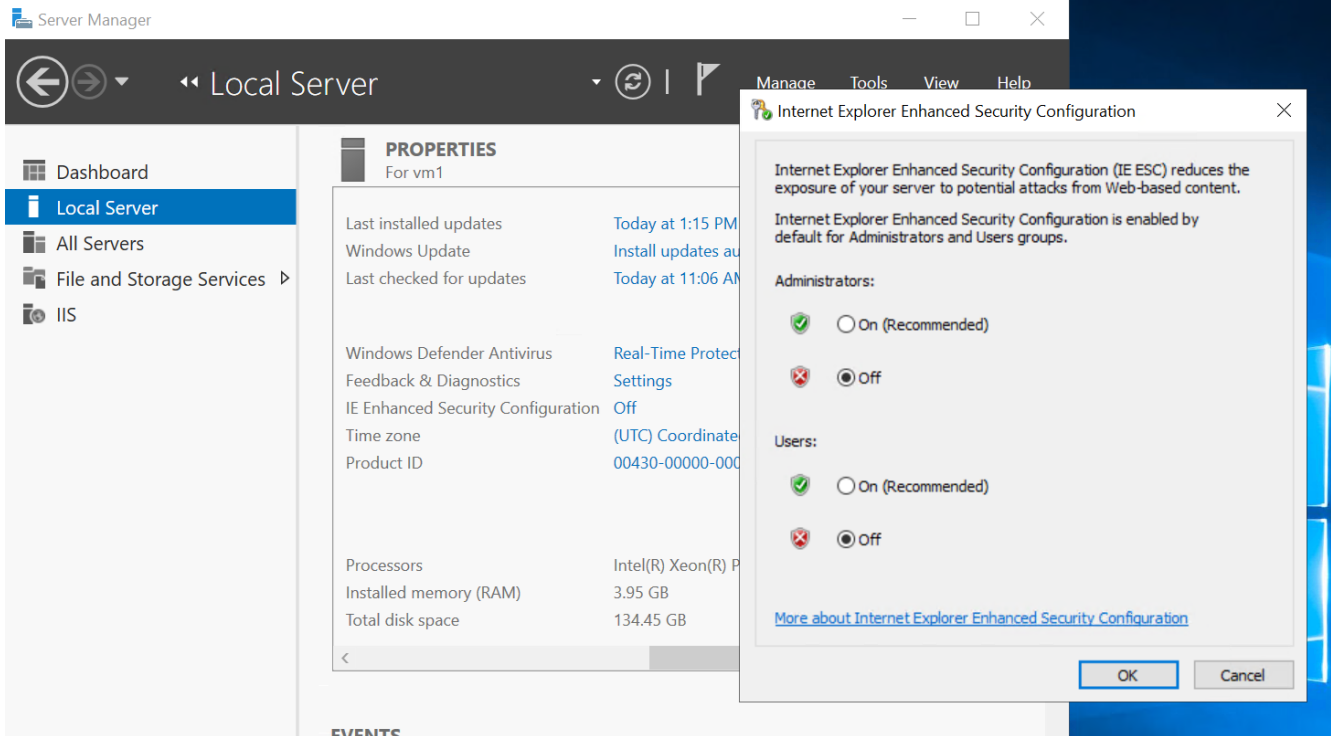
public-Load-balancers

Architecture



pre requisites

1. created a *virtual network*
2. 3 VM's in one *Availability set*
3. inside VM



1.

2. Go to **manage** > **Add roles and Features** > Next > **Install web server (IIS)** > next > install

3. Go to **Tools** > **Internet Information Service Manager**

4. modified HTML page.

4. Created a **public Load balancer**

5. Created a backend pool

6. Add the vm's to the **backend-pool**

7. created a Health probe

8. In the health probe, the **interval** is used as a wait time in seconds for sending a **message** to the VM for the health acknowledgement.

9. The **Un-healthy threshold** is the number of times the **message** to be sent if any unexpected occurs to the VM.

10. configure the load balancer to connect the backend pool to the frontend configuration.

11. As the load balancer is used to route **HTTP** traffic. configure the port number 80 in load balancer rule.

- The public ip address of VM will be the same as public ip of Load balancer. It doesn't mean the public ip of vms are de-allocated.

load-balancer

Add front-end configuration

create a back-end pool and attach the VM's to it.

Add a health probe

Add load-balancer rules

rule1 ...

lb

A load balancing rule distributes incoming traffic that is sent to a selected IP address and port combination across a group of backend pool instances. Only backend instances that the health probe considers healthy receive new traffic.

Name *	<input type="text" value="rule1"/>
IP Version *	<div><input checked="" type="radio"/> IPv4</div> <div><input type="radio"/> IPv6</div>
Frontend IP address * ⓘ	<input type="text" value="lb-frontend (20.253.55.74)"/>
Backend pool * ⓘ	<input type="text" value="backend-pool"/>
Protocol	<div><input checked="" type="radio"/> TCP</div> <div><input type="radio"/> UDP</div>
Port *	<input type="text" value="80"/>
Backend port * ⓘ	<input type="text" value="80"/>
Health probe * ⓘ	<div><input type="text" value="hr (TCP:80)"/></div> <div>Create new</div>
Session persistence ⓘ	<input type="text" value="None"/>
Idle timeout (minutes) * ⓘ	<input type="text" value="4"/>
Enable TCP Reset	<input type="checkbox"/>
Enable Floating IP ⓘ	<input type="checkbox"/>
Outbound source network address translation (SNAT) ⓘ	<div><div><input checked="" type="radio"/> (Recommended) Use outbound rules to provide backend pool members access to the internet. Learn more.</div><div><input type="radio"/> Use default port allocation to provide backend pool members with a minimal set of SNAT ports. This is not recommended because it can cause SNAT port exhaustion. Learn more.</div></div>