1

created a resource group swatweb

created a virtual network swatweb-vnet 10.20.0.0/20
with 2 subnets *public 10.20.1.0/24
and webapp 10.20.5.0./24

created a two network security groups
NSG public conditional access inbound rule as SSH port with
single IP address
and
NSG web - just create with no inbound rule
created 3 virtual machines

1st--- vmweb1
user vmwebuser1
networking - linked to public(swatweb-vnet)

2nd-----vmwebserver1
user-vmwebserver1
and install apache
sudo apt-get update &&
sudo apt-get install apache2 -y
networking- linked to webapp(swatweb-vnet)

3nd-----vmwebserver2
user-vmwebserver2
and install apache
sudo apt-get update &&
sudo apt-get install apache2 -y
networking- linked to webapp(swatweb-vnet)

in this both vmservers we cannot connect from public IP address
Data should be uploaded through vmweb1

copying local file to vmweb1
syntax:
scp -r /d/filelocation vmwebuser1@10.20.0.0

copying vmweb1 to vmwebserver1
scp -r /home/vmuser/file vmwebserver1@10.20.5.7

copying vmweb1 to vmwebserver2
scp -r /home/vmuser/file vmwebserver2@10.20.5.6

2

now we are having our website in alll the Vmservers

inorder to give access to anyone

we have to create load balancer

- create name

-frontend IP configuration

- ...name
- ip version
- public address
- availability zone -- zone-reduntant

backend pool

- name
- virtual network--- add swatweb-vnet
- backend pool config- NIC
- IP version
- adding VIrtual machines

1. add vmwebserver1
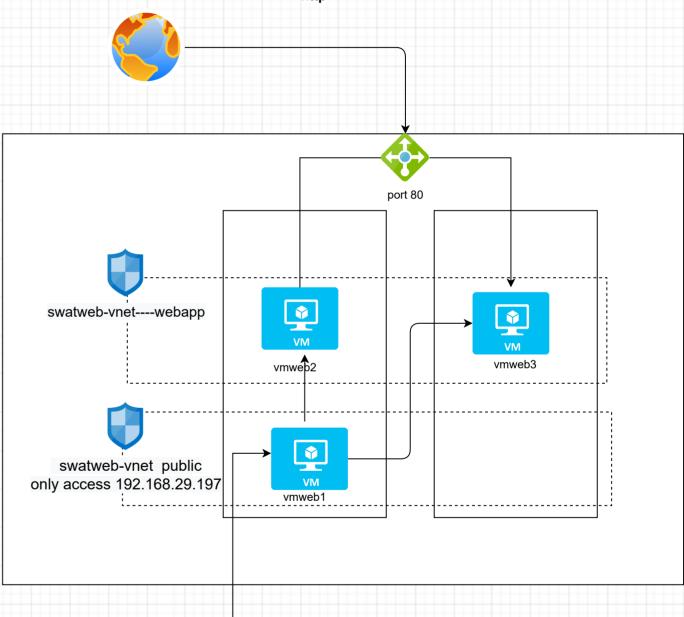2. add vmwebserver2
3.

Inbound rules
**** load balancing rule

- name
- IPv4
- add frontend IP configuration which is created above
- add backend pool which is created above
- protocol **TCP**
- **port** -80(for loadbalancer)
- backend port---80(for http)
-
- add healthprobe(which check the health and feedback of VM
- create name
- protocol-http
- port-80
- path-"/"
- interval --- 5secounds
- unhealth threshold- 2 consecutive failure

3

now the load balancer takes the traffic and direxts to virtual machine but
vmservers cannot fullfill the request since their is no inbound rule

and inbound rule to NSG web with any source and destination with service as
http

port 80

swatweb-vnet----webapp

swatweb-vnet public
only access 192.168.29.197

vmweb2

vmweb3

vmweb1

192.168.29.197