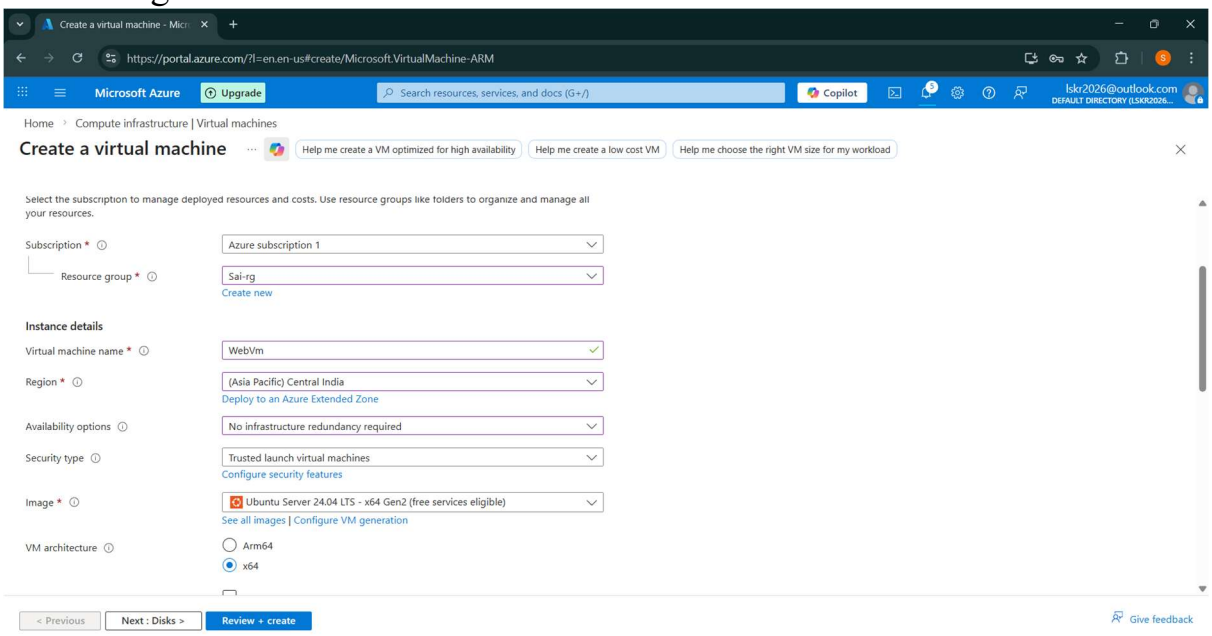
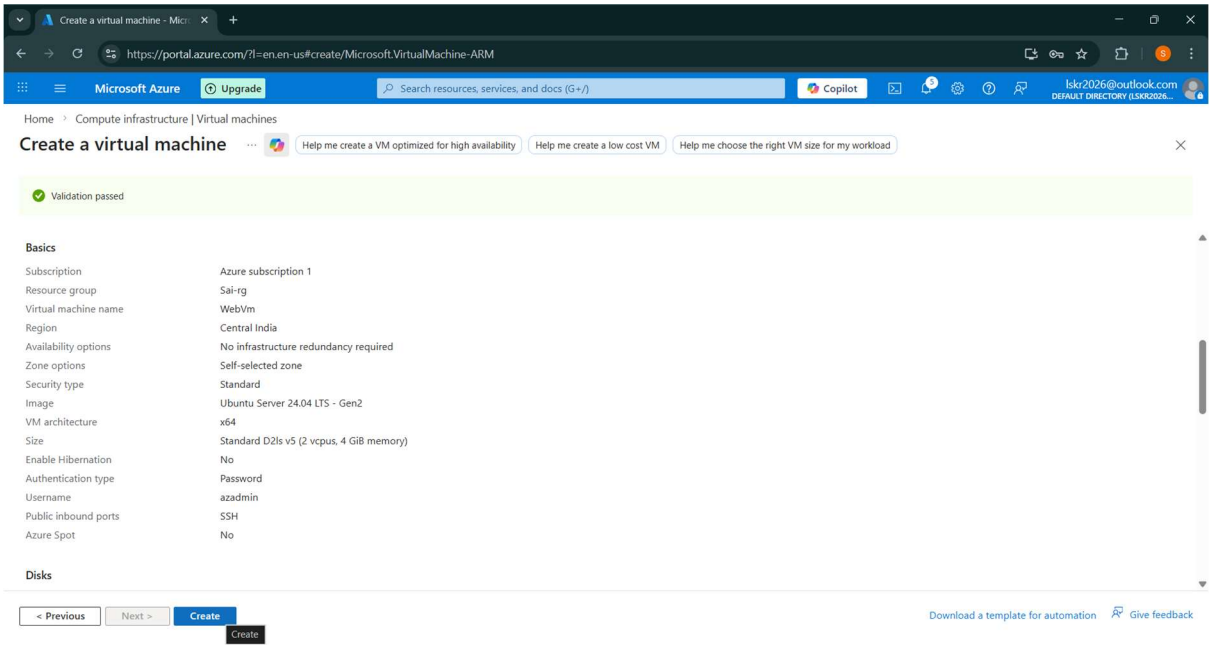
NSG in Subnet Level

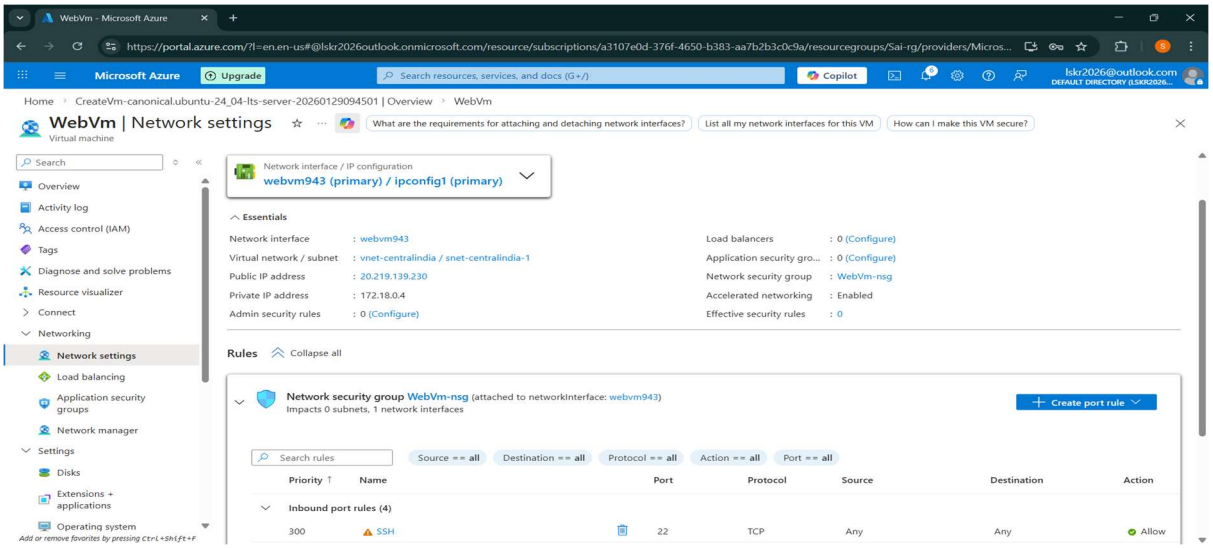
→Creating a virtual machine



→Creation of Virtual machine

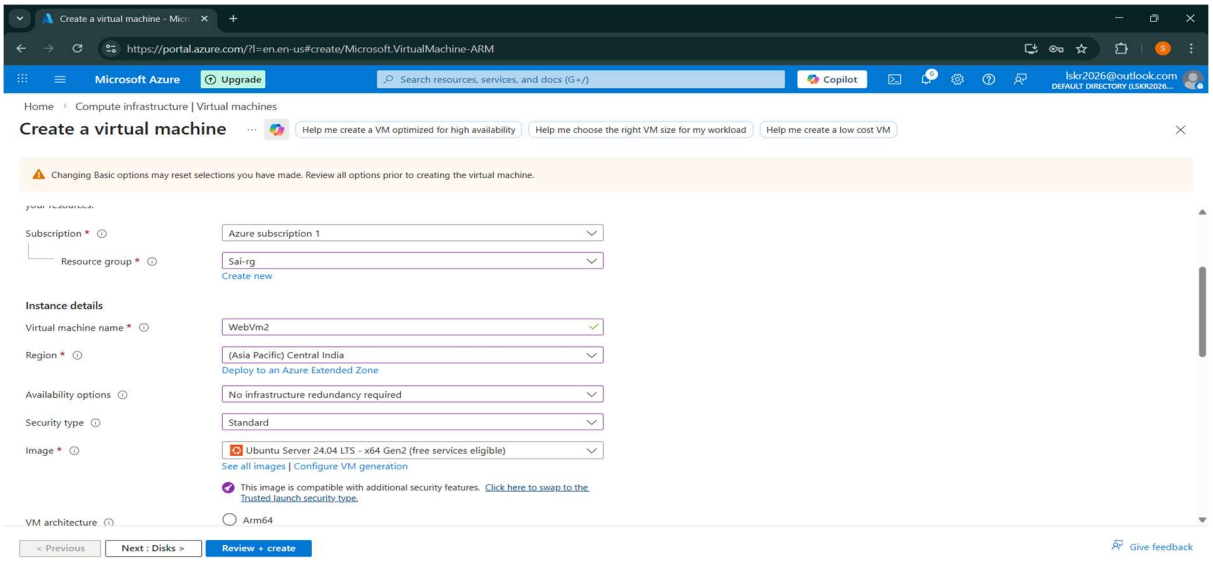


→Nsg while creating the Virtual machine

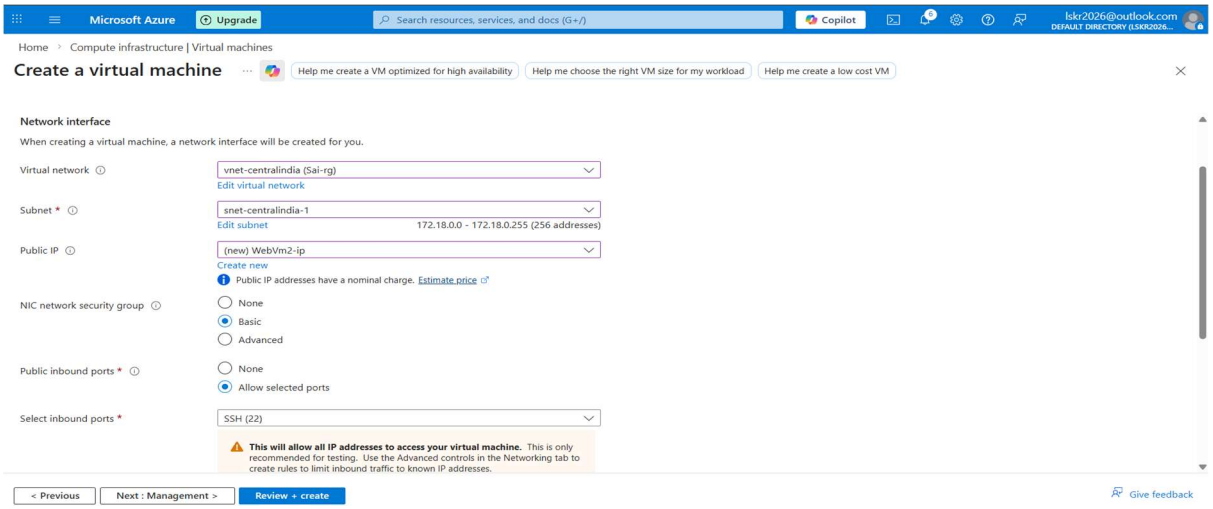


→It has only one rule allow ssh from any source

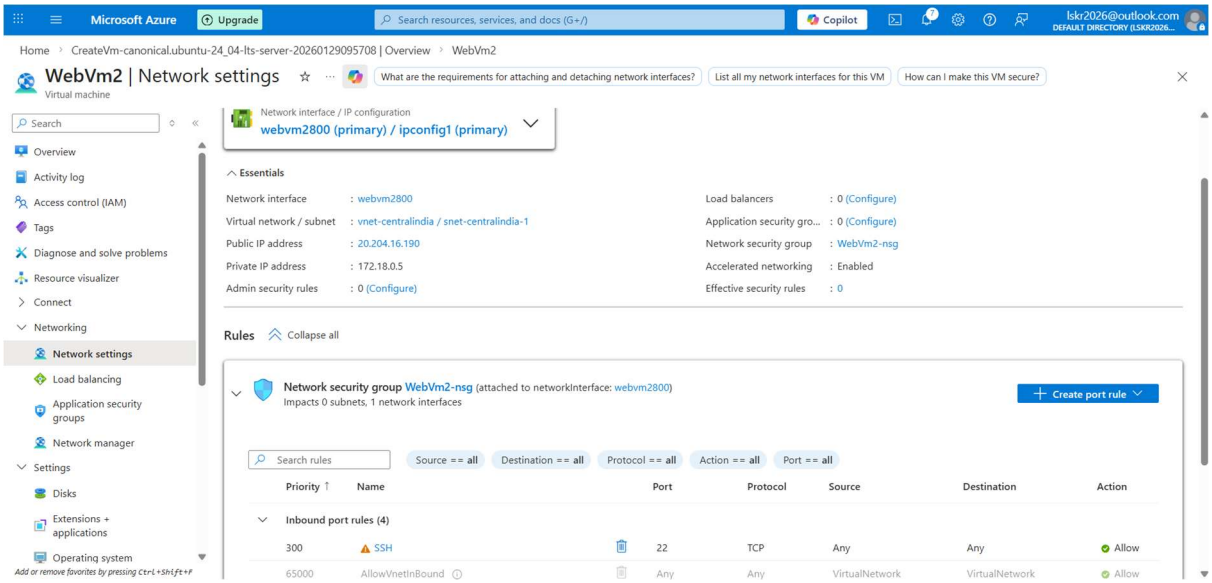
→Creating Web Vm2 with in the same region



→With in the Same Vnet and subnet



→Network Security group for WebVm2



→In the both Nsg doesn't have the inbound http rule

→Here I can create a Network Security group and add it to the subnet level

→Install Nginx on two Vms

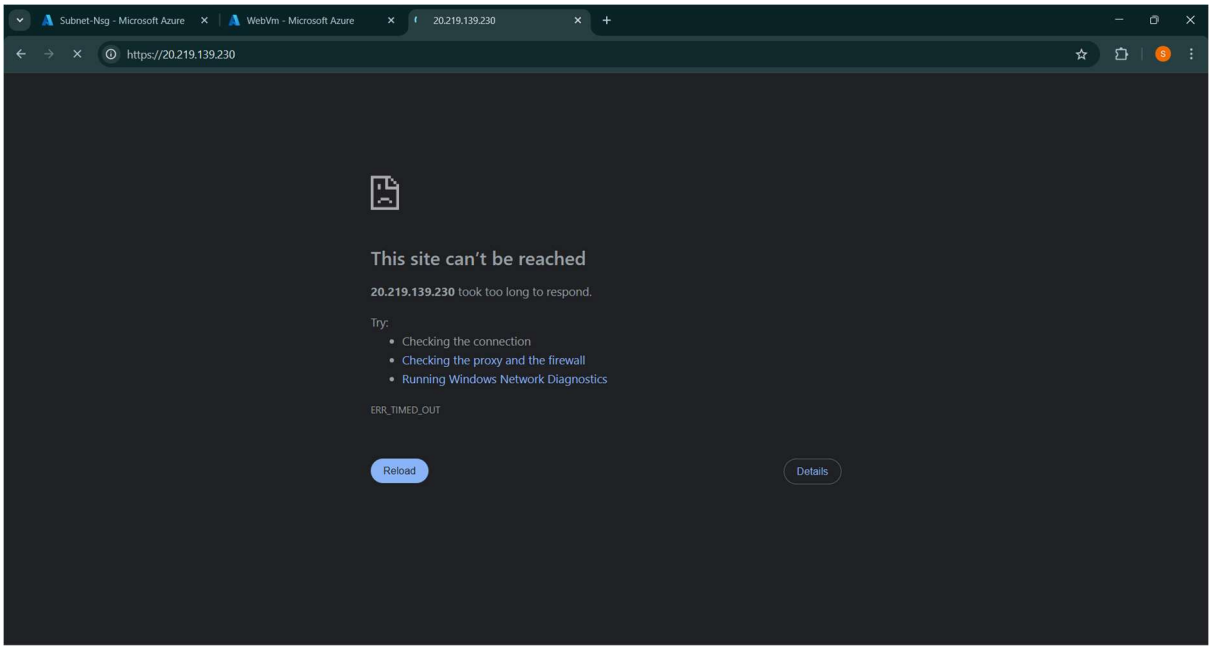
→WebVm

```
root@WebVm:/home/azadmin# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
     Active: active (running) since Thu 2026-01-29 04:42:40 UTC; 46s ago
       Docs: man:nginx(8)
    Process: 2688 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
    Process: 2689 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Main PID: 2720 (nginx)
      Tasks: 3 (limit: 4662)
     Memory: 2.4M (peak: 5.3M)
        CPU: 19ms
     CGroup: /system.slice/nginx.service
             ├─2720 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             ├─2722 "nginx: worker process"
             └─2723 "nginx: worker process"

Jan 29 04:42:40 WebVm systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Jan 29 04:42:40 WebVm systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
root@WebVm:/home/azadmin#
```

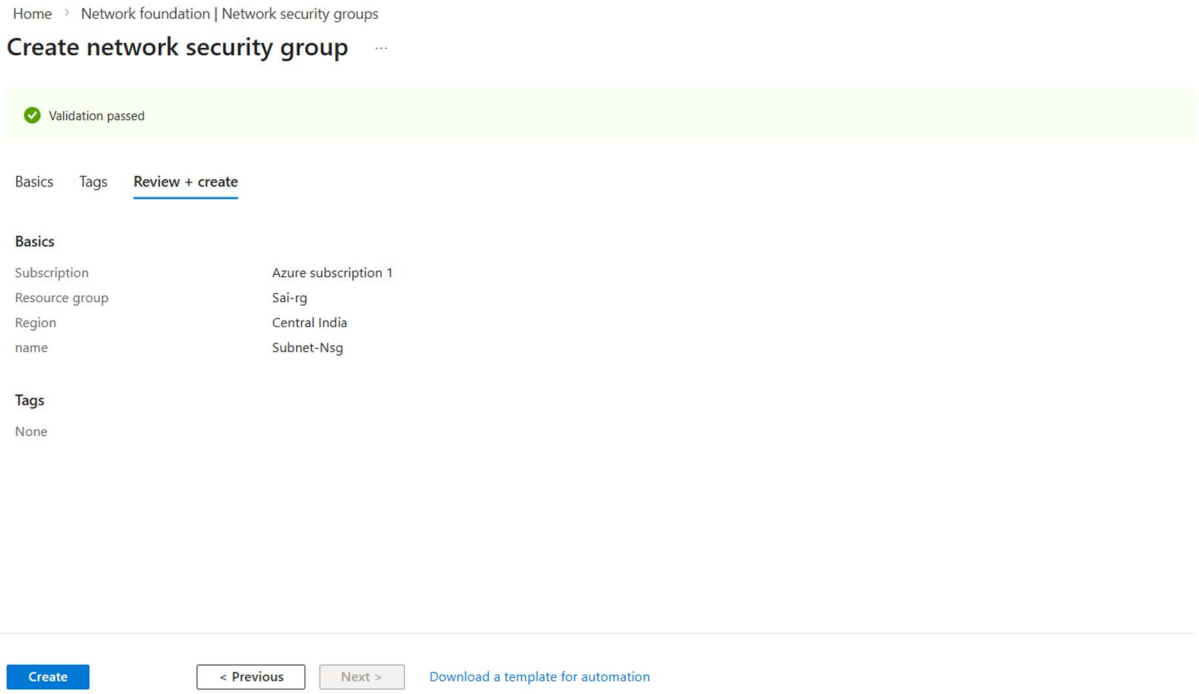
→WebVm2

```
root@WebVm2:/home/azadmin# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
     Active: active (running) since Thu 2026-01-29 04:47:09 UTC; 1min 27s ago
       Docs: man:nginx(8)
    Process: 2301 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
    Process: 2303 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Main PID: 2333 (nginx)
      Tasks: 3 (limit: 4662)
     Memory: 2.4M (peak: 5.3M)
        CPU: 19ms
     CGroup: /system.slice/nginx.service
             ├─2333 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             ├─2335 "nginx: worker process"
             └─2336 "nginx: worker process"

Jan 29 04:47:09 WebVm2 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Jan 29 04:47:09 WebVm2 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
```

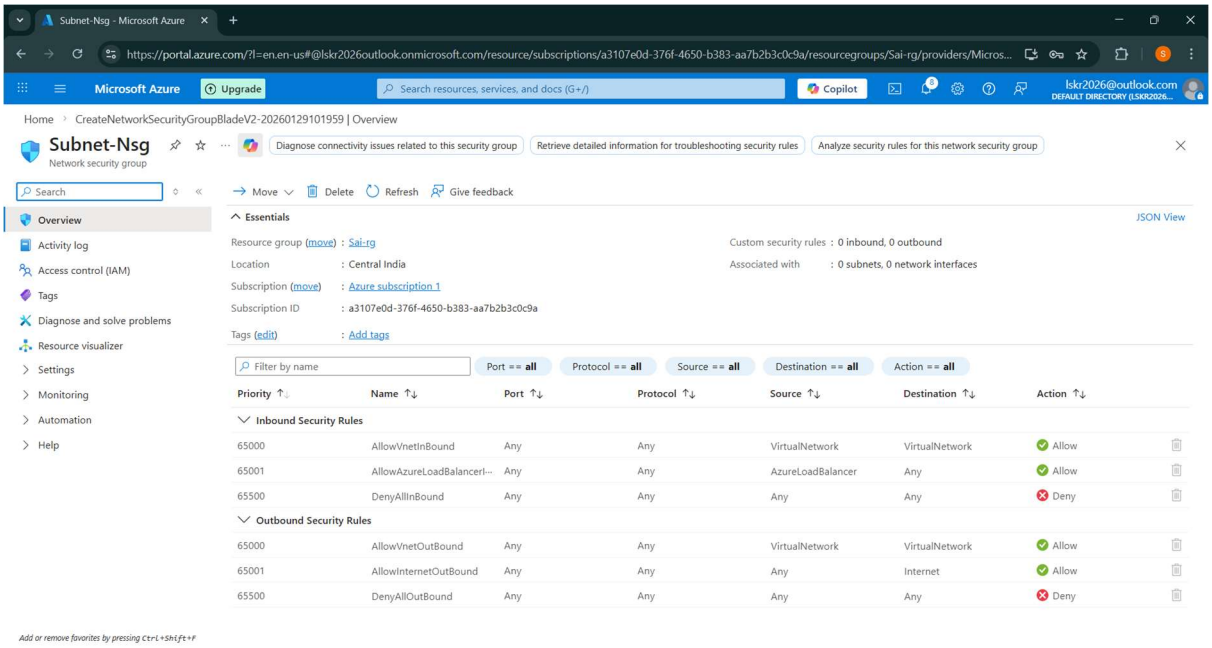
→Browsing WebVm public IP



→Creating a new Security Group



→Nsg with default rules

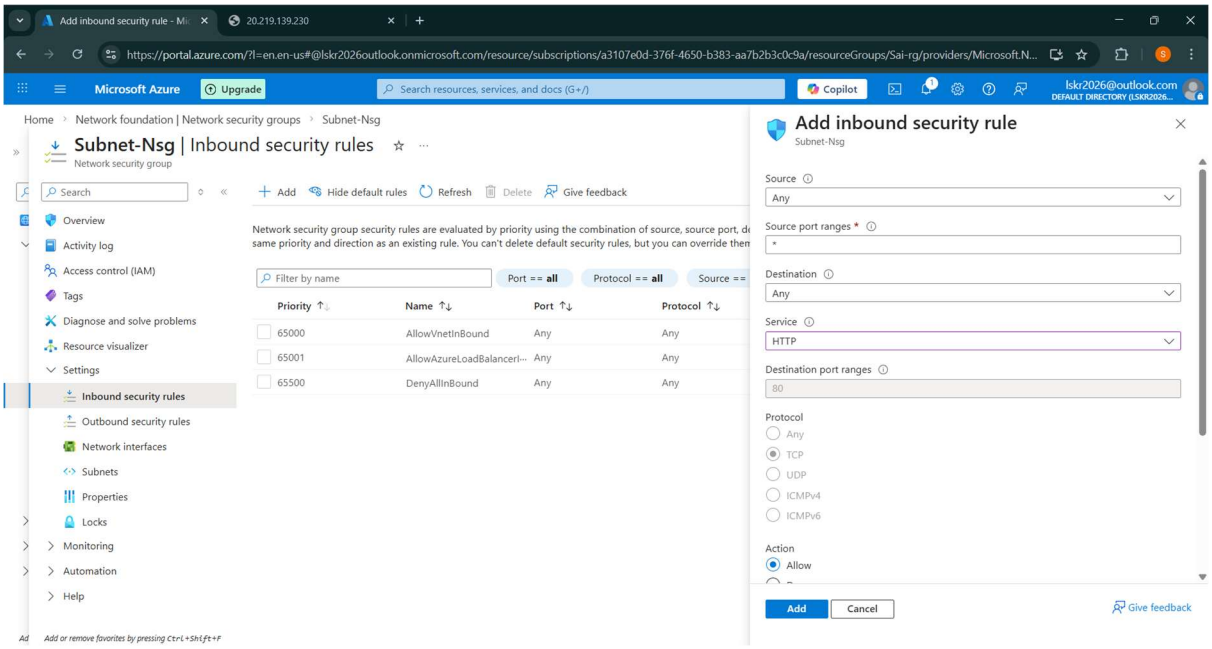


→Click on Settings

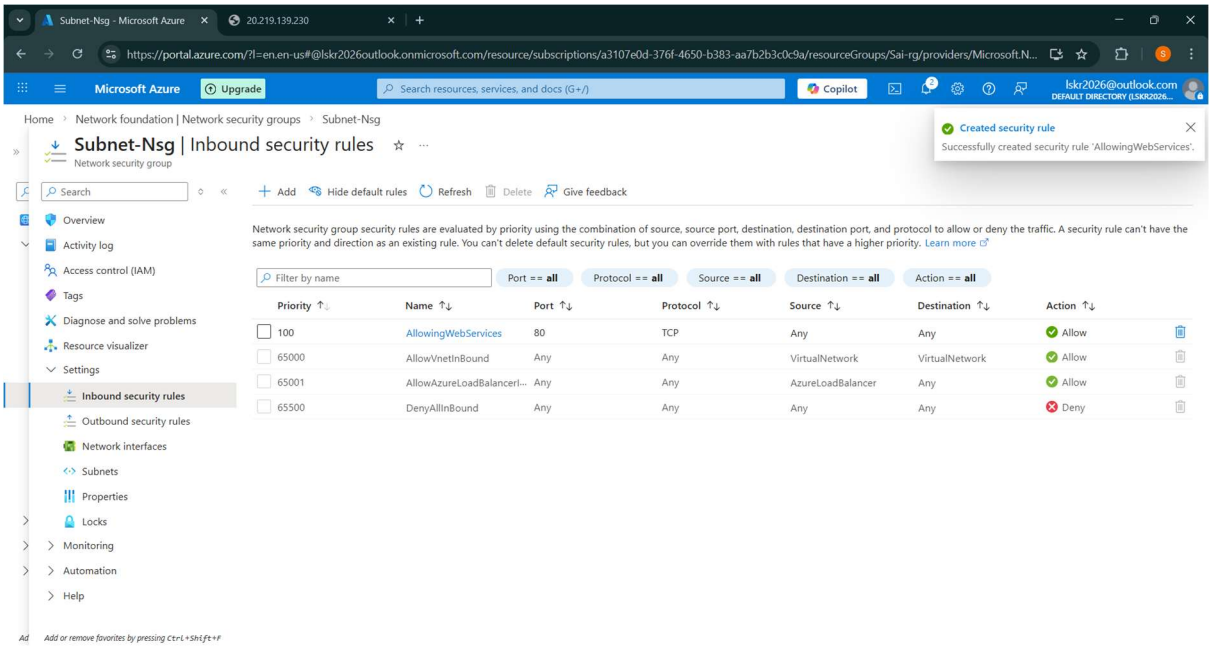
→Then click on Inbound Security rules

→Click on add

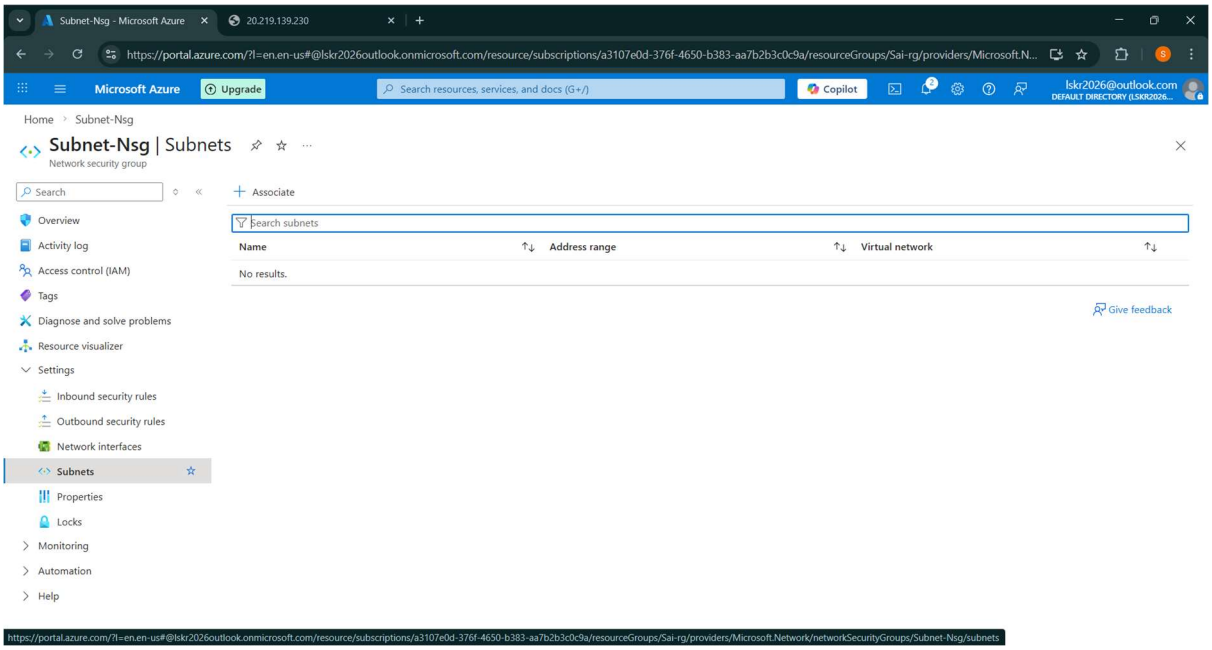
→Enter the rule allowing http



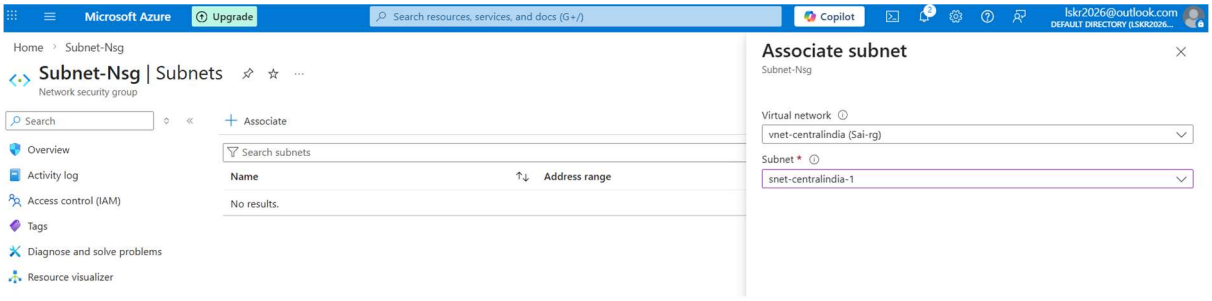
→Rule Created allowing http to any

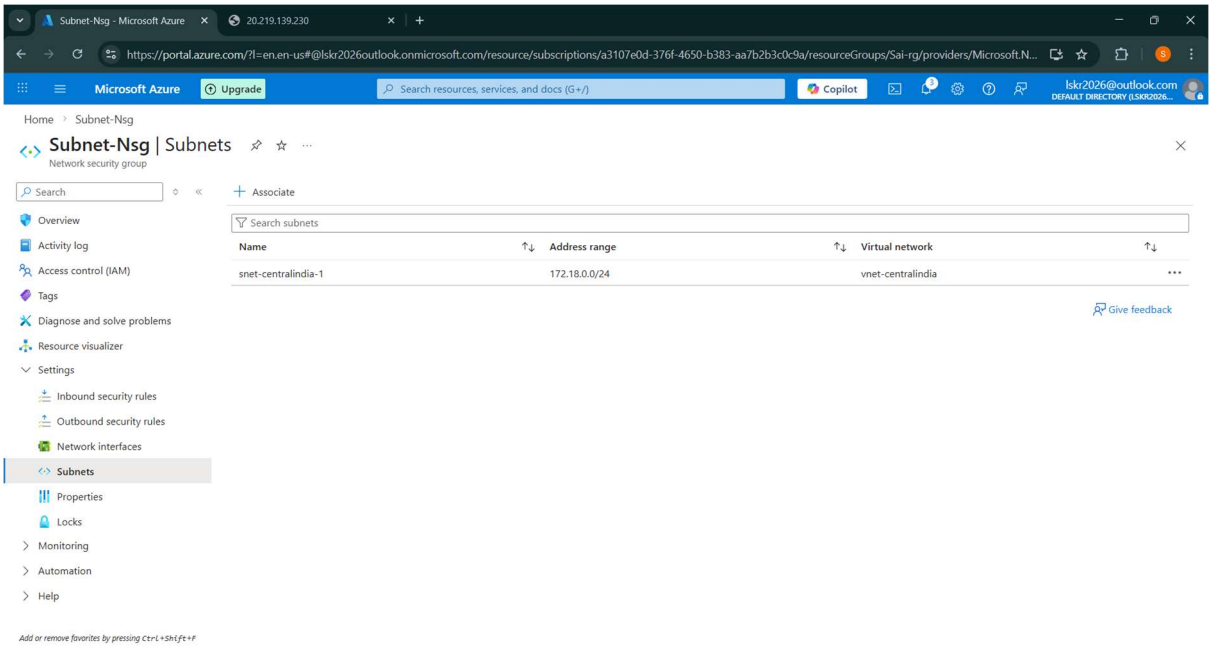


→Select Subnets and click on Associate

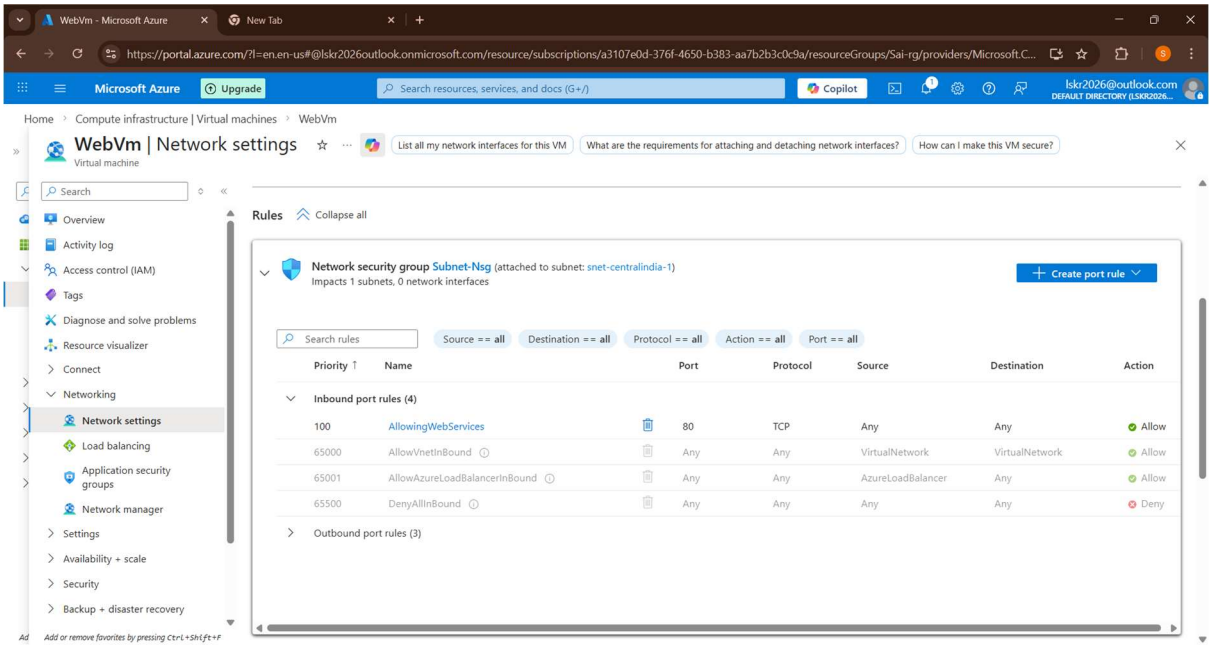


→Select Vnet and Subnet



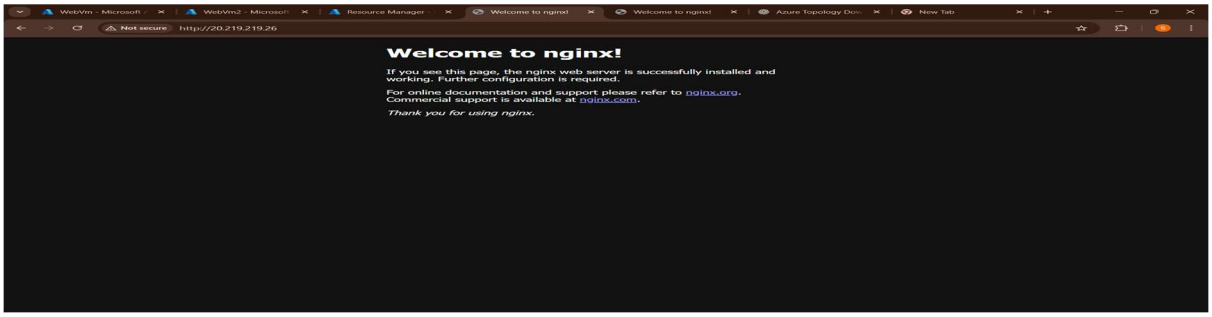


→Here the Subnet Nsg is attached with WebVm



→Now we can browse the public ip of two WebVm's it will work

→WebVm's



Note: If we want to enable two security groups the rules must be in the both nic level nsg and Subnet level nsg

→Here in the Network Settings there two Nsg's one is Nic level and another one is subnet level.

→In Subnet level ssh will allow it works for both nic level and subnet level

→In the nic level http works only for this machine.

Is there any rules in nic level it must be in subnet level

→First it checks in nic level if it is available then check in subnet level and it works. There is no rule in subnet it will not connect

→Main purpose

Use **Subnet NSG** for common rules

Use **NIC NSG** only for special cases