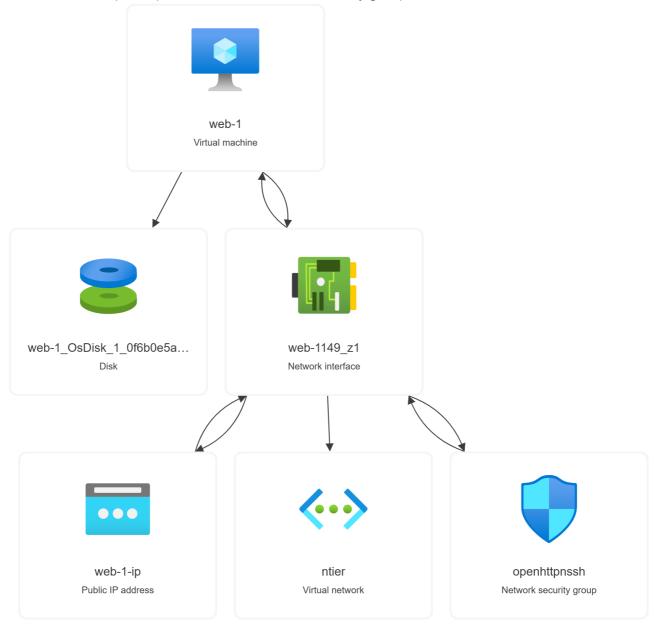
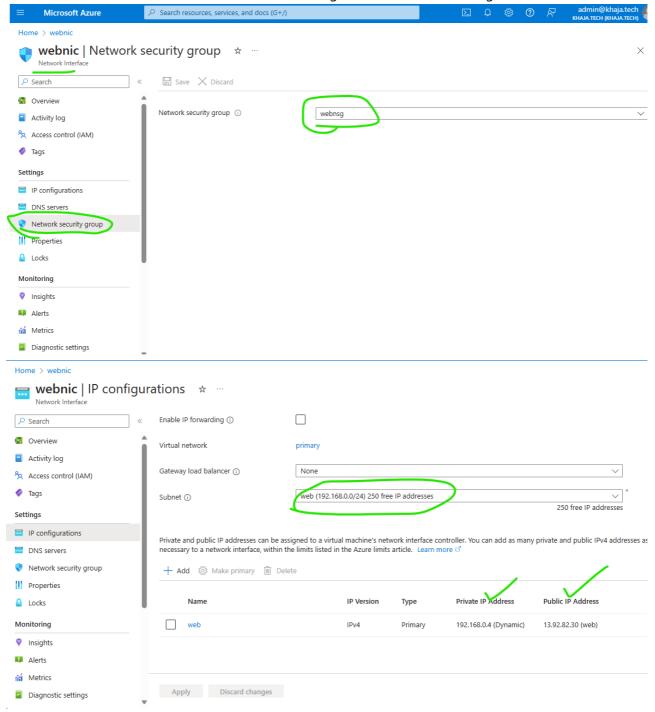
Terraform contd..

Azure virtual machine in the virtual network

• We have created publicip, network and network securituty group



• Lets create a network interface and associate with nsg Refer Here for the changes done



Finding Azure VM Image

- To find the virtual machine in Azure we use
 - publisher: Generally organization publishing images
 - o offer: specification of offering
 - o sku: variant
 - version: version of the image

The image id/urn is publisher:offer:sku:version

```
Windows PowerShell
You are viewing an offline list of images, use --all to retrieve an up-to-date list
   "architecture": "x64",
   "offer": "CentOS",
    "publisher": "OpenLogic",
    "sku": "8_5-gen2",
   "urn": "OpenLogic:CentOS:8_5-gen2:latest",
    "urnAlias": "CentOS85Gen2",
    "version": "latest"
 },
    "architecture": "x64",
    "offer": "debian-11"
    "publisher": "Debian",
    "sku": "11-backports-gen2"
    "urn": "Debian:debian-11:11-backports-gen2:latest",
    "urnAlias": "Debian11",
    "version": "latest"
 },
{
    "architecture": "x64",
    "offer": "flatcar-container-linux-free",
    "publisher": "kinvolk",
   "sku": "stable-gen2",
"urn": "kinvolk:flatcar-container-linux-free:stable-gen2:latest",
    "urnAlias": "FlatcarLinuxFreeGen2", "version": "latest"
  },
    "architecture": "x64",
    "offer": "openSUSE-leap-15-4",
    "publisher": "SUSE",
   "sku": "gen2",
"urn": "SUSE:openSUSE-leap-15-4:gen2:latest",
    "urnAlias": "OpenSuseLeap154Gen2",
    "version": "latest"
```

- Refer Here for the changes done to create a virtual machine.
- Exercise: Try creating a linux vm with username and password
- Now i want to install some website in virtual machine, lets do it manually

```
sudo apt update
sudo apt install nginx unzip -y
cd /tmp && wget https://www.free-css.com/assets/files/free-css-
templates/download/page295/kider.zip
unzip /tmp/kider.zip
sudo mv /tmp/preschool-website-template /var/www/html/preschool
```

- To execute the above commands post linux vm creation we have two options
 - Terraform provisioning: Refer Here
 - Custom data or userdata in virtual machine
- The problem with custom data or user data is they are executed only once post creation. The user data option cannot be used if the script changes.

Terraform taint

• Taint if applied to a resource, will be recreated (deleted and created) during next terraform apply.

PS C:\khajaclassroom\devops\terraform\May24\azure\multi-region-ntier> terraform taint azurerm_li nux_virtual_machine.web
Resource instance azurerm_linux_virtual_machine.web has been marked as tainted.
PS C:\khajaclassroom\devops\terraform\May24\azure\multi-region-ntier>

- Next steps:
 - We would need outputs
 - We will do the same in AWS.