Platform Engineering Assignment -2

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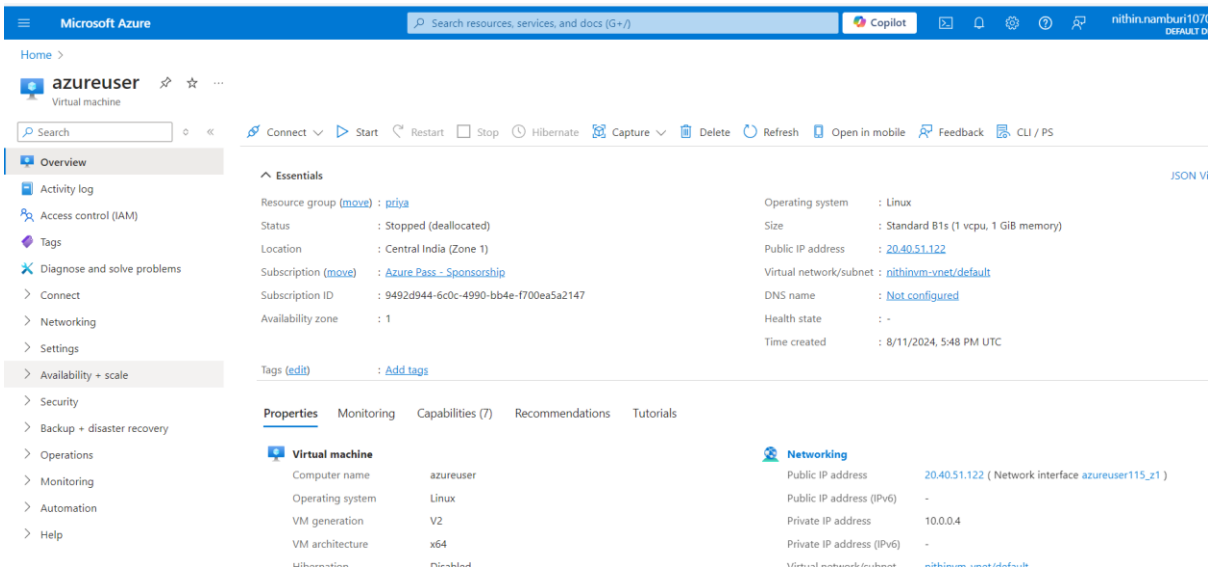
1)

i)We have to create a VM for Windows by adding the custom data in the advanced section for Node.js file.



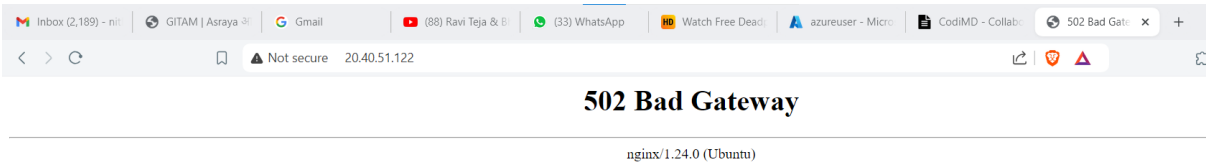
ii) Now conect this virtual machine to the putty and switch the user to the root.

iii)now open the bash script and put the below code and run the command “nohup nodejs index.js &”

Code:

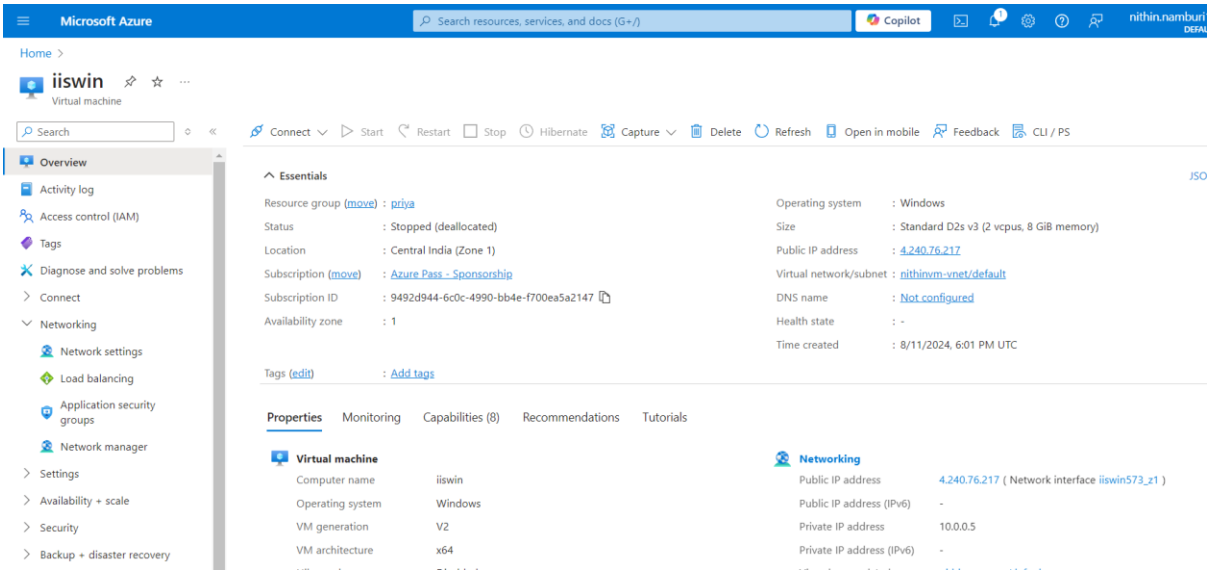
```
var express = require('express')
    var app = express()
    var os = require('os');
    app.get('/', function (req, res) {
      res.send('Hello World from host ' + os.hostname() + '!')
    })
    app.listen(3000, function () {
      console.log('Hello world app listening on port 3000!')
    })
```

iv)Now copy the IP Address of the VM and paste it on the browser .



2)

i)Firstly we have to create a resource group and create a VM for windows(iiswin).

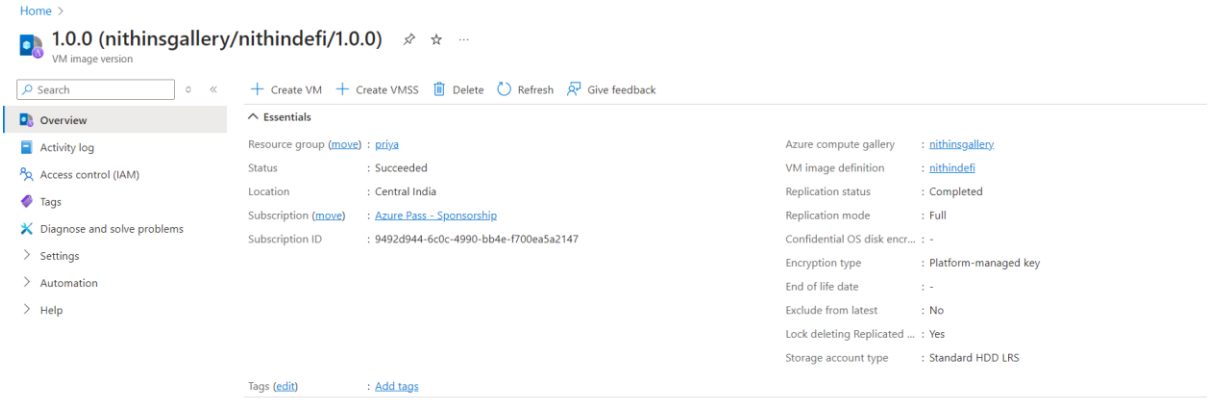


ii)Make sure RDP port is on.

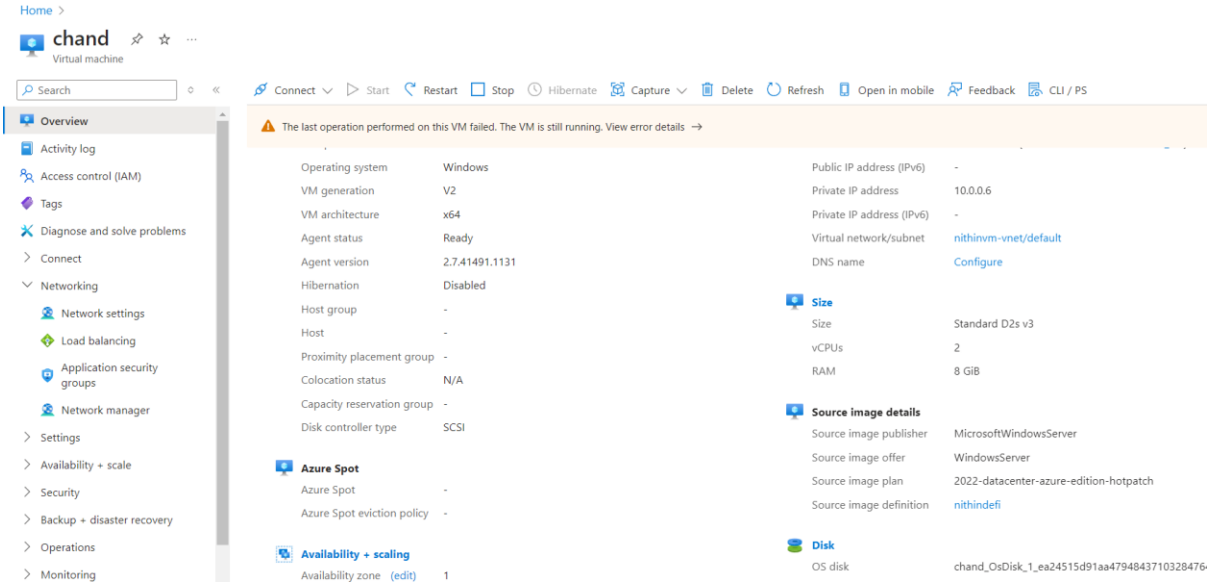
iii)Now copy the IP address of the VM and connect to the RDP.

iv)Go the search panel and type server manager and go to add roles and features and check the box of web server IIS.

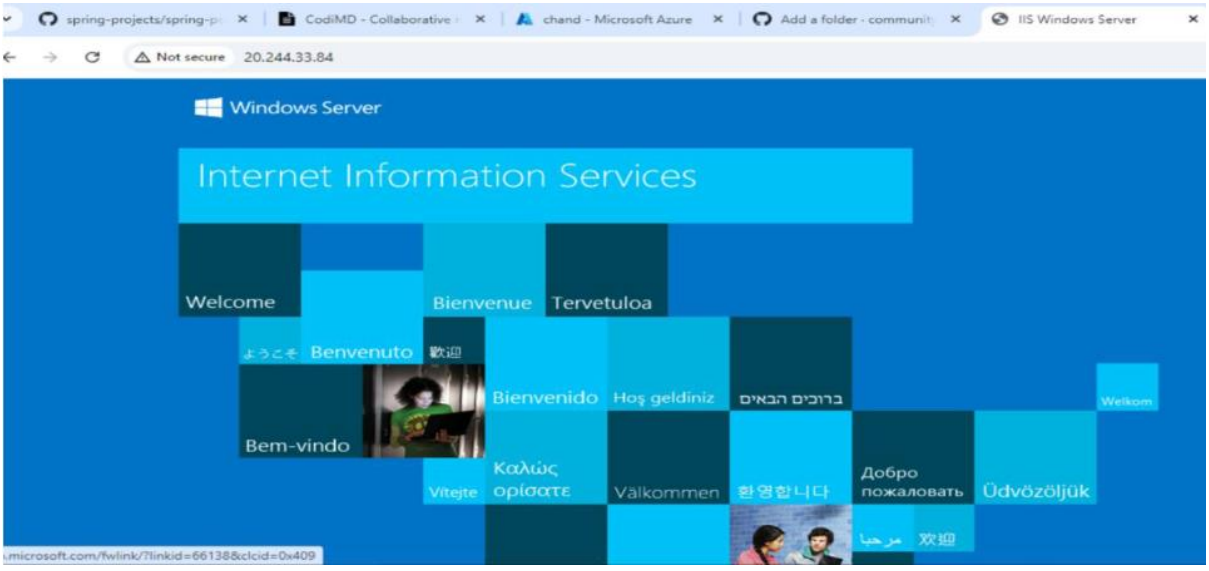
v)In azure click the capture option available and create a new Image with the below specifications.



vi)Now click on the create VM option to create another vm.



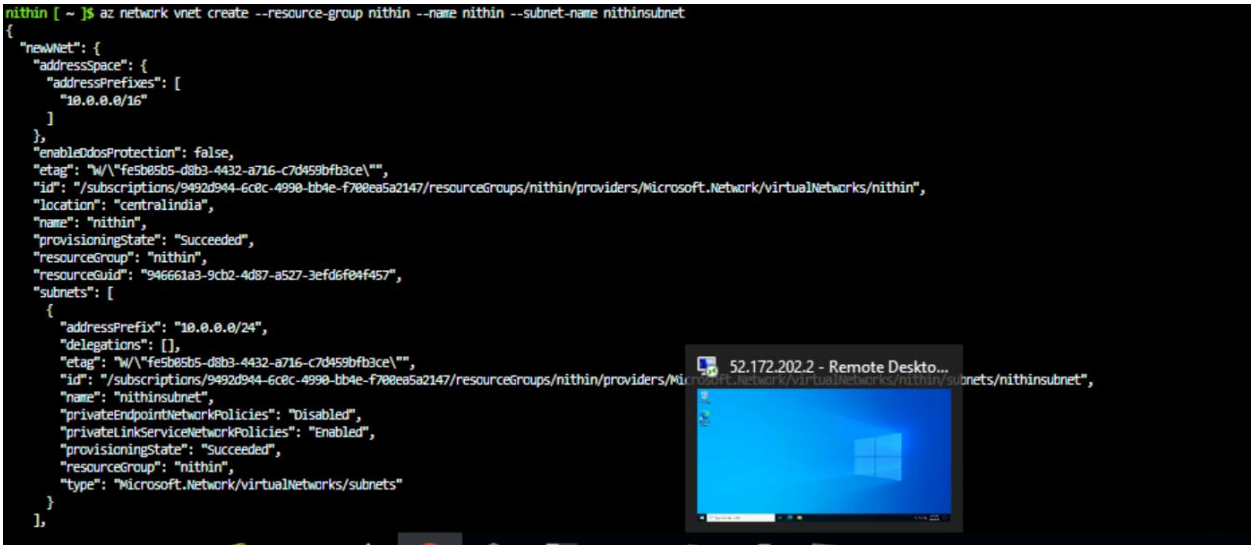
vii)Now connect this IP to RDP and check whether IIs is connected or not.



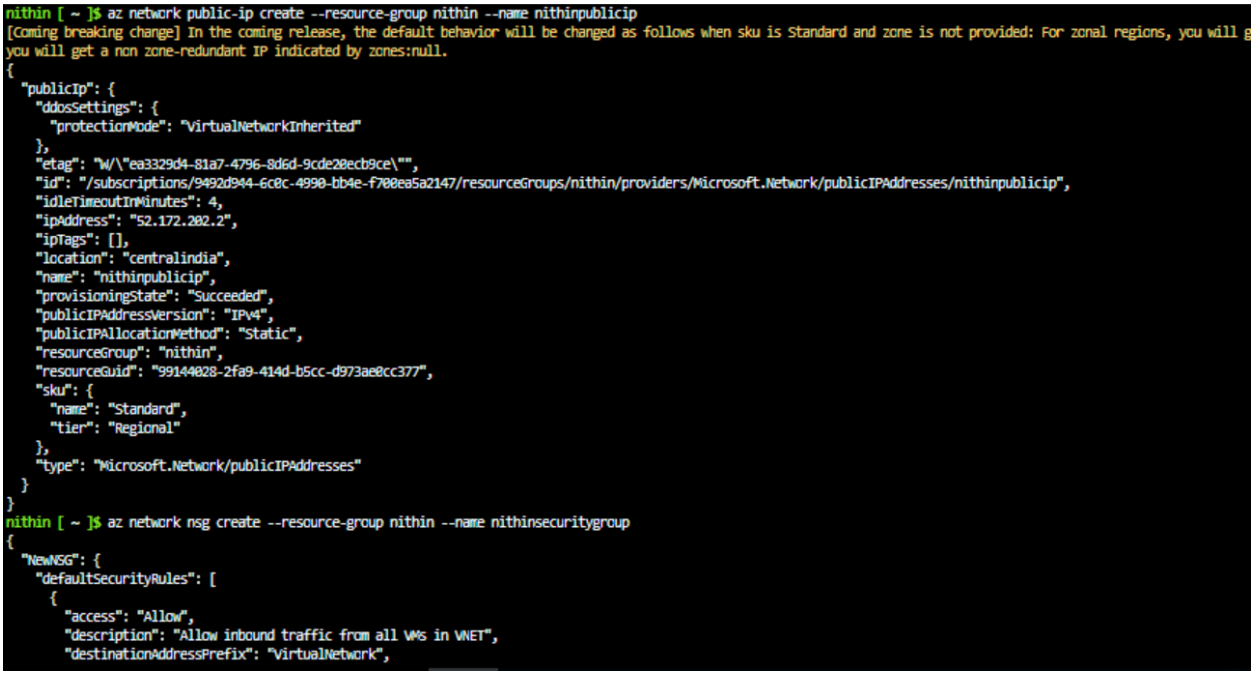
3) Create a windows vm using CLI.

account list and resource group creation

Creating subnet

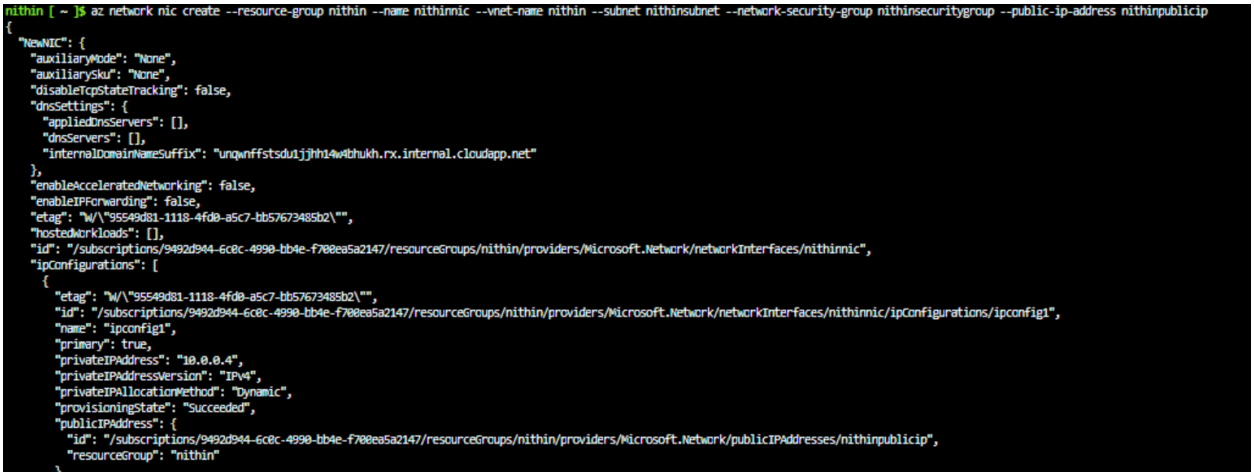


Creating Public IP for the VM

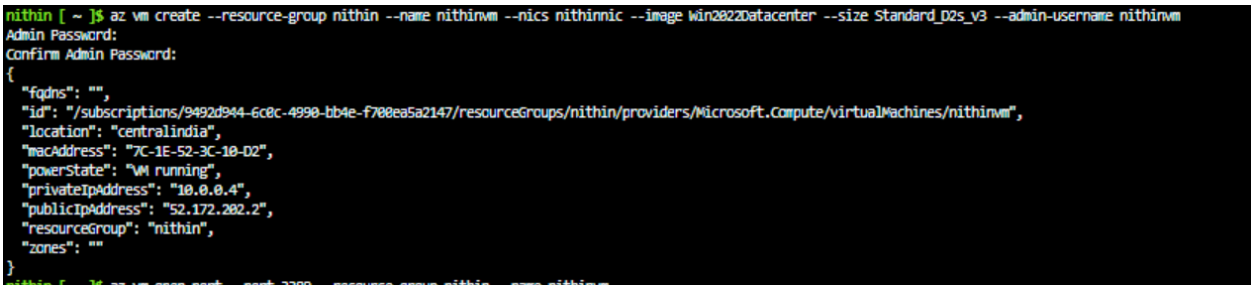


Creating the network security group

Creating the Nic card

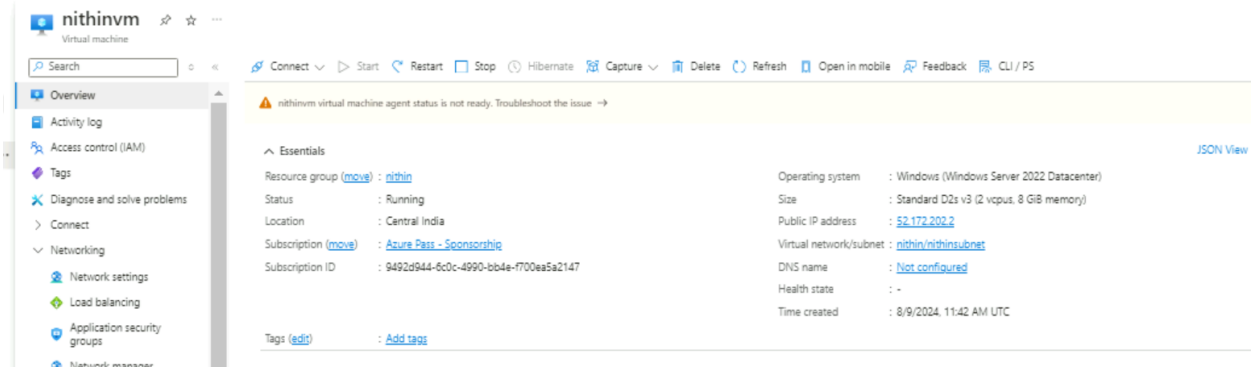


VM creation

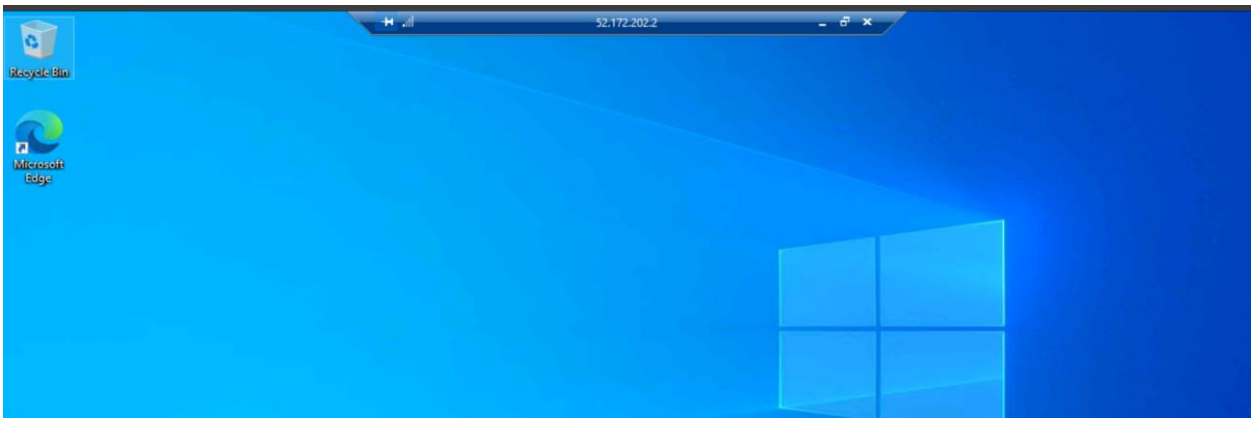


Opening the port for connecting the virtual machine

Overview of the VM created in the Azure

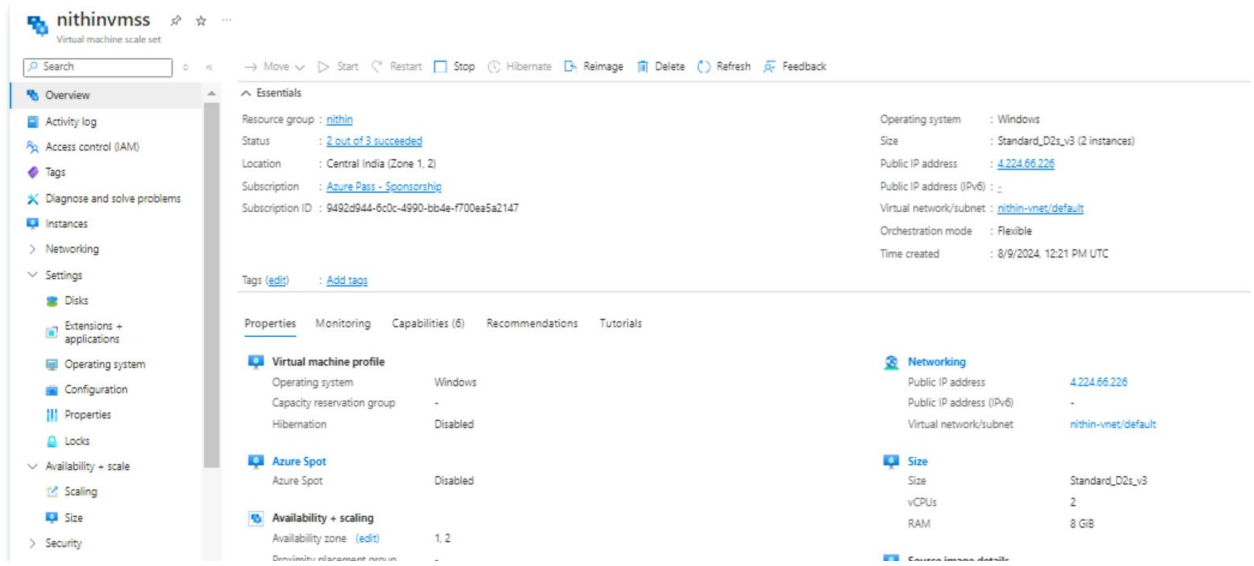


Created Virtual desktop Interface

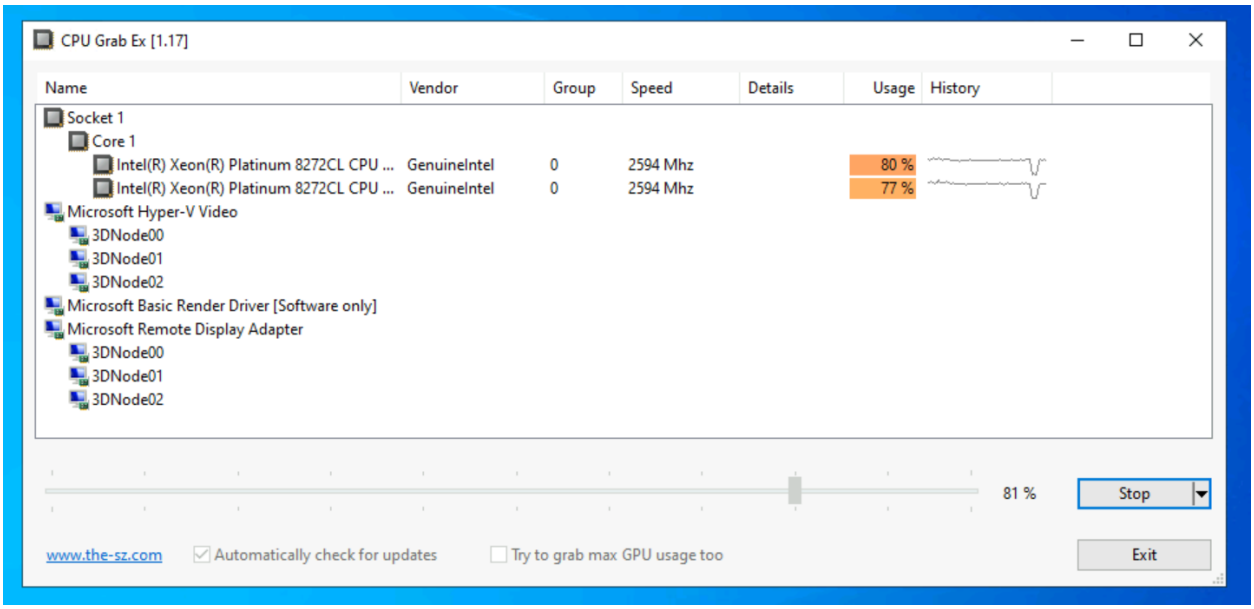


4) Create a VM scale set for window OS where average CPU utilization is > 50 regarding that its should scale up and scale down.

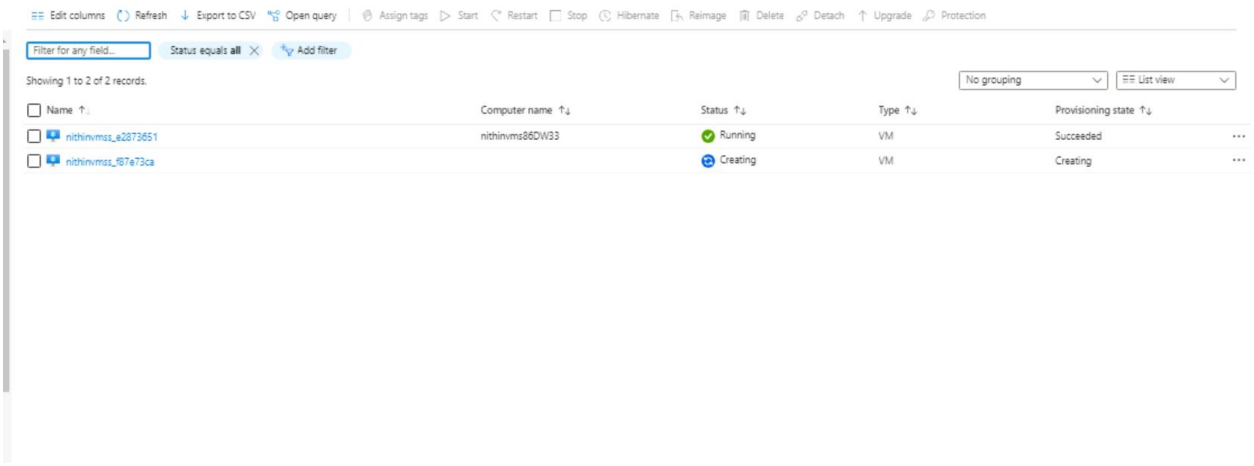
i)First we have to create a VMSS to scale the VM based on the CPU load.



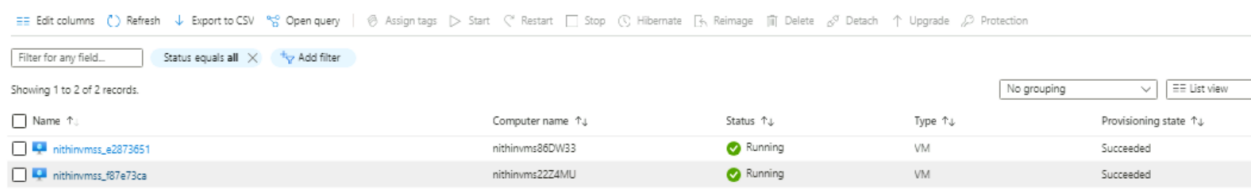
ii)we increased the load of CPU using an app.



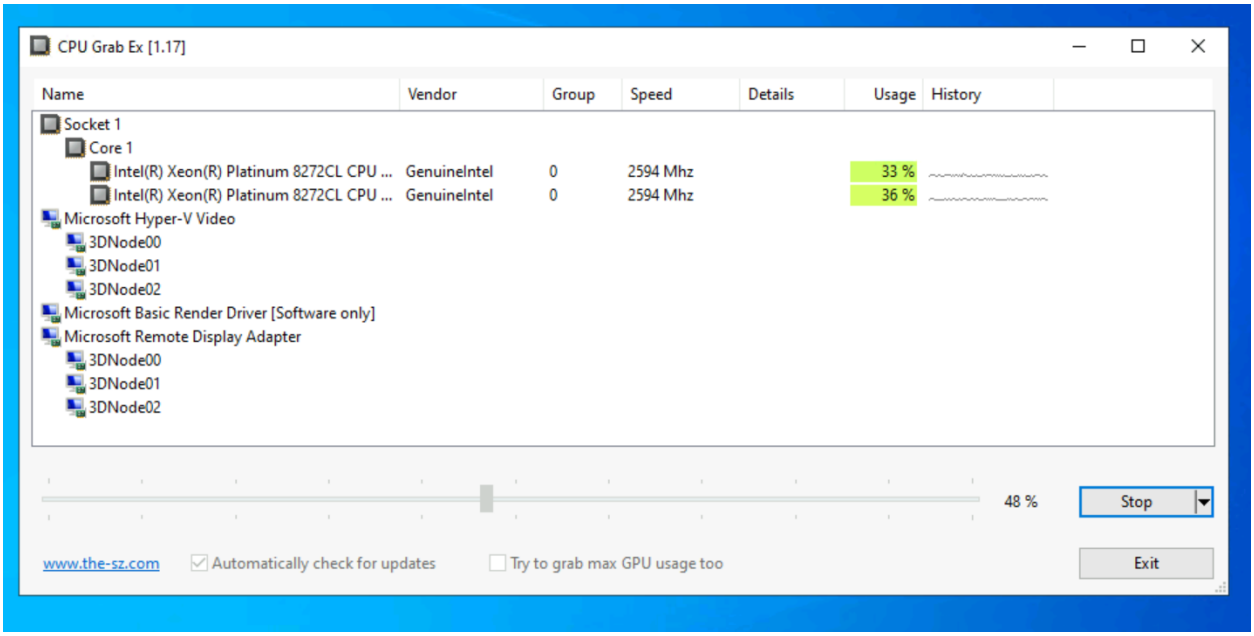
iii)Because the CPU load is more than 50% , so it is creating a instance to balance the load.



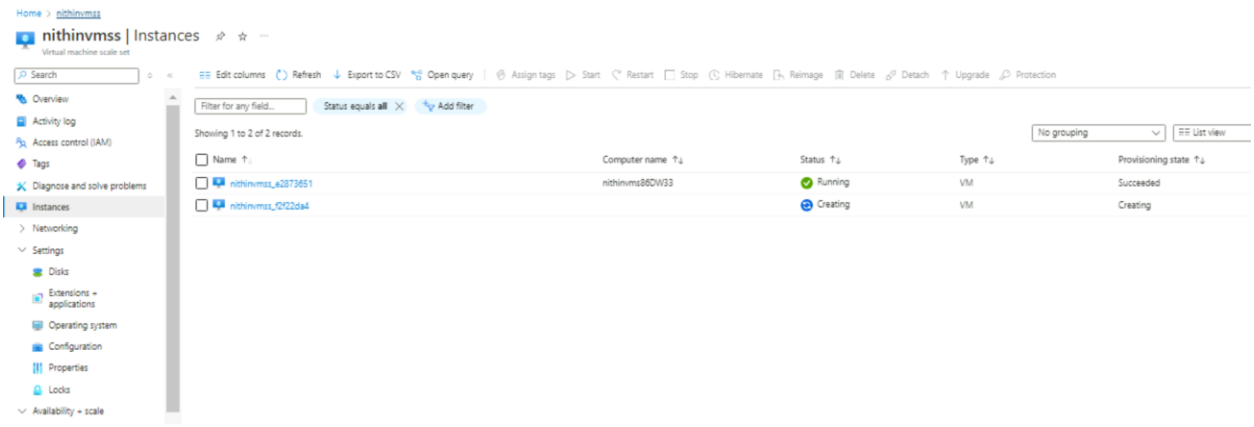
iv)creation of new instance is completed.



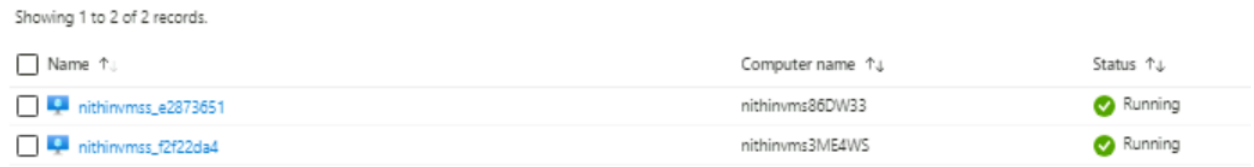
v)we reduce the load of the CPU to less than 50%, for checking the lower loads



vi)It is creating the new instance for the reduced load.

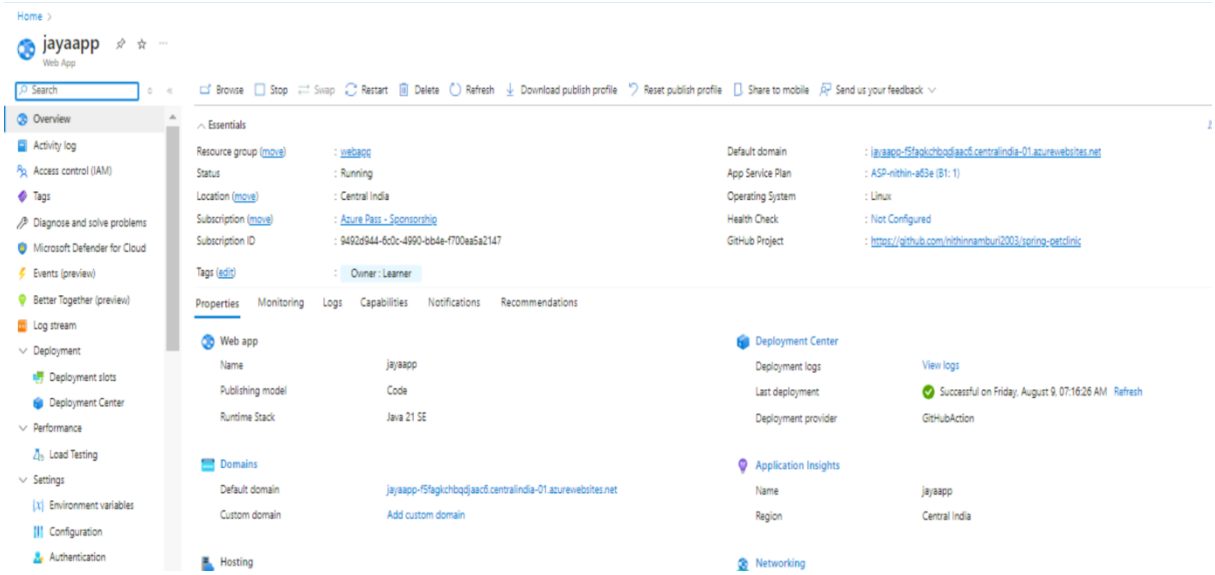


vii)New Instance was created for the decreased load of CPU.



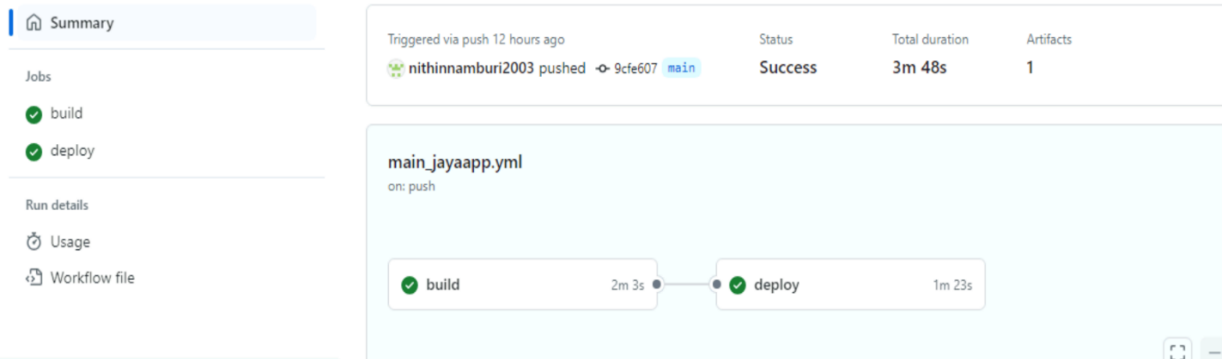
5) Deploy the spring pet clininc on azure app services.

i)Deploying the web app for the spring pet clinic with the name called Jayaapp.



ii)first we have to fork the respective spring pet clinic repository to our github repository and while deploying the web app we have to link our repository in web app deployment part.

iii)After that, we have to deploy the web app services and after the completion of deployment we have to check the actions in github to check whether the service is successfully deployed or not.



iv)Click the browse option available in the Azure app services to check the web app launched successfully or not.