

## Assignment -2

Q3. Create windows virtual machine using command line interface?

A: Output screens:

```
(requesting a Cloud Shell).Succeeded.  
Connecting terminal...  
  
Your Cloud Shell session will be ephemeral so no files or system changes  
shanmukhi [ ~ ]$ az account list  
[  
  {  
    "cloudName": "AzureCloud",  
    "homeTenantId": "caf21ffb-5993-4eed-a2ad-43b158bb14c7",  
    "id": "eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5",  
    "isDefault": true,  
    "managedByTenants": [],  
    "name": "Azure Pass - Sponsorship",  
    "state": "Enabled",  
    "tenantId": "caf21ffb-5993-4eed-a2ad-43b158bb14c7",  
    "user": {  
      "cloudShellID": true,  
      "name": "live.com#shanmukhi_micron@outlook.com",  
      "type": "user"  
    }  
  }  
]
```

```
shanmukhi [ ~ ]$ az group create --name training --location centralindia  
  
"id": "/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training",  
"location": "centralindia",  
"managedBy": null,  
"name": "training",  
"properties": {  
  "provisioningState": "Succeeded"  
},  
"tags": null,  
"type": "Microsoft.Resources/resourceGroups"
```

```

hanmukhi [ ~ ]$ az network vnet create --resource-group training --name training --subnet-name trainingsubnet

{
  "newVNet": {
    "addressSpace": {
      "addressPrefixes": [
        "10.0.0.0/16"
      ]
    },
    "enableDdosProtection": false,
    "etag": "W/\"1b7e0301-0cbc-49be-ad41-df0210efd2f2\"",
    "id": "/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Networks/virtualNetworks/training",
    "location": "centralindia",
    "name": "training",
    "provisioningState": "Succeeded",
    "resourceGroup": "training",
    "resourceGuid": "a8940107-7ba6-4b1e-88df-4742a574d686",
    "subnets": [
      {
        "addressPrefix": "10.0.0.0/24",
        "delegations": [],
        "etag": "W/\"1b7e0301-0cbc-49be-ad41-df0210efd2f2\"",

```

```

hanmukhi [ ~ ]$ az network public-ip create --resource-group training --name trainingpublicip

[Coming breaking change] In the coming release, the default behavior will be changed as follows when sku
and zone is not provided: For zonal regions, you will get a zone-redundant IP indicated by zones:["1","2"]
on non-zonal regions, you will get a non zone-redundant IP indicated by zones:null.

{
  "publicIp": {
    "ddosSettings": {
      "protectionMode": "VirtualNetworkInherited"
    },
    "etag": "W/\"e191c8ab-63c5-426f-af1a-ccf821dab94f\"",
    "id": "/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Networks/publicIPAddresses/trainingpublicip",
    "idleTimeoutInMinutes": 4,
    "ipAddress": "74.225.195.77",
    "ipTags": [],
    "location": "centralindia",
    "name": "trainingpublicip",
    "provisioningState": "Succeeded",
    "publicIPAddressVersion": "IPv4",
    "publicIPAllocationMethod": "Static",
    "resourceGroup": "training",
    "resourceGuid": "80fc047a-45cb-463e-b332-64d23160a019",

```

```

shankmukhi [ ~ ]$ az network nsg create --resource-group training --name trainingsecuritygroup
{
  "NewNSG": {
    "defaultSecurityRules": [
      {
        "access": "Allow",
        "description": "Allow inbound traffic from all VMs in VNET",
        "destinationAddressPrefix": "VirtualNetwork",
        "destinationAddressPrefixes": [],
        "destinationPortRange": "*",
        "destinationPortRanges": [],
        "direction": "Inbound",
        "etag": "W/\"3a3aae82-f66c-48ad-87dc-50cc2c0481d3\"",
        "id": "/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Network/networkSecurityGroups/trainingsecuritygroup/defaultSecurityRules/AllowVnetInBound",
        "name": "AllowVnetInBound",
        "priority": 65000,
        "protocol": "*",
        "provisioningState": "Succeeded",

```

```

shankmukhi [ ~ ]$ az network nic create --resource-group training --name trainingnic --vnet-name training --subnet trainingsubnet --network-security-group trainingsecuritygroup --public-ip-address trainingpublicip
{
  "NewNIC": {
    "auxiliaryMode": "None",
    "auxiliarySku": "None",
    "disableTcpStateTracking": false,
    "dnsSettings": {
      "appliedDnsServers": [],
      "dnsServers": [],
      "internalDomainNameSuffix": "a2azjkfgmpexcg5i3bkk3gwqg.rx.internal.cloudapp.net"
    },
    "enableAcceleratedNetworking": false,
    "enableIPForwarding": false,
    "etag": "W/\"ea2dd082-cc58-41b0-8308-e44c724e6ab9\"",
    "hostedWorkloads": [],
    "id": "/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Network/networkInterfaces/trainingnic"
  }
}

```

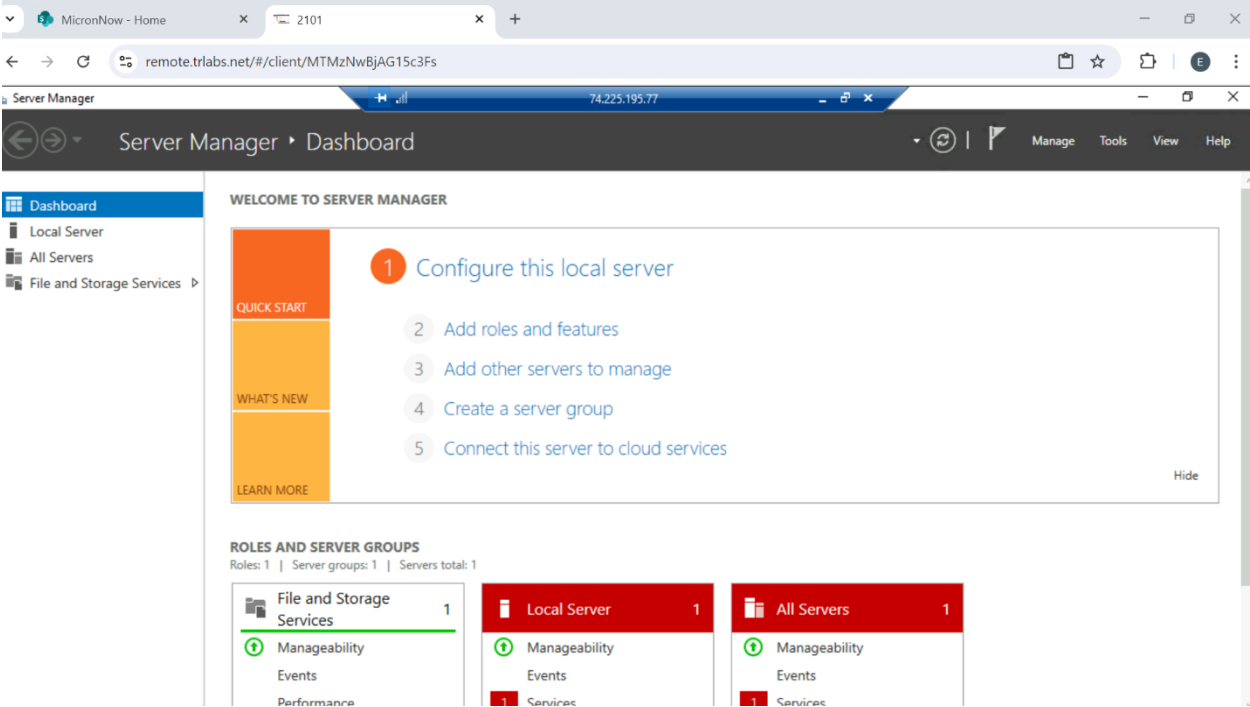
```

shankmukhi [ ~ ]$ az vm create --resource-group training --name trainingvm --nics trainingnic --image Win2022Datacenter --size Standard_D2s_v3 --admin-username shankmukhi
Admin Password:
Confirm Admin Password:
{
  "fqdns": "",
  "id": "/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Compute/virtualMachines/trainingvm",
  "location": "centralindia",
  "macAddress": "60-45-BD-AA-A7-AB",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "74.225.195.77",
  "resourceGroup": "training",
  "zones": ""
}

```

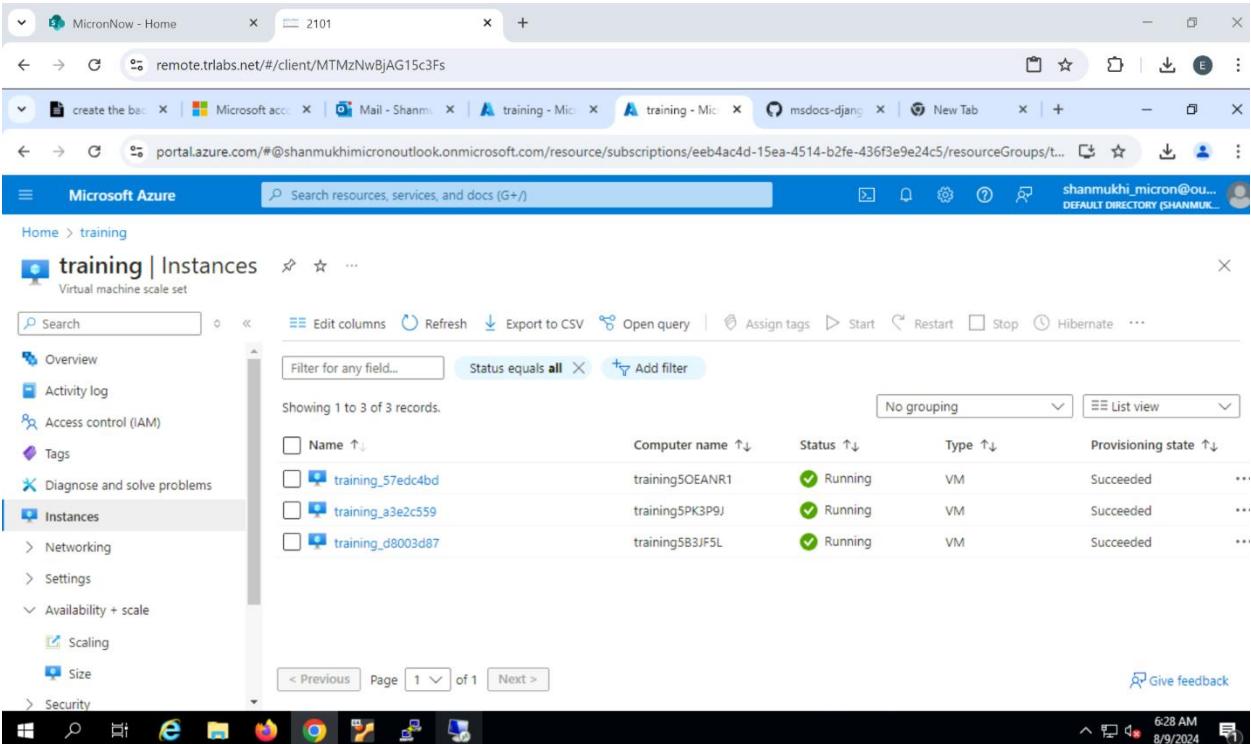
```
hanmukhi [ ~ ]$ az vm open-port --port 3389 --resource-group training --name trainingvm

{"defaultSecurityRules": [{"access": "Allow", "description": "Allow inbound traffic from all VMs in VNET", "destinationAddressPrefix": "VirtualNetwork", "destinationAddressPrefixes": [], "destinationPortRange": "*", "destinationPortRanges": [], "direction": "Inbound", "etag": "W/\"4b2f8069-5a6c-4452-a20b-24985070082c\"", "id": "/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Network/networkSecurityGroups/trainingsecuritygroup/defaultSecurityRules/AllowVnetInBound", "name": "AllowVnetInBound", "priority": 65000, "protocol": "*", "provisioningState": "Succeeded", "resourceGroup": "training", "sourceAddressPrefix": "VirtualNetwork", "sourceAddressPrefixes": [], "sourcePortRange": "*"}]}
```



**Q4. Create a virtual machine scale-set for windows operating system if the average c.p.u utilization is greater than 50 it should scale up and scale down ?**

**A: output screens:**



MicronNow - Home

2101

remote.trlabs.net/#/client/MTMzNwBjAG15c3Fs

create the ba...

Microsoft acc...

Mail - Shanm...

training - Mic...

training - Mic...

msdocs-djang...

New Tab

portal.azure.com/#@shanmukhimicronoutlook.onmicrosoft.com/resource/subscriptions/eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/t...

Microsoft Azure

Search resources, services, and docs (G+)

shanmukhi\_micron@ou...  
DEFAULT DIRECTORY (SHANMUK...

Home > training

training | Instances

Virtual machine scale set

Search

Edit columns Refresh Export to CSV Open query Assign tags Start Restart Stop Hibernate

Filter for any field... Status equals all Add filter

Showing 1 to 4 of 4 records.

No grouping List view

Name	Computer name	Status	Type	Provisioning state
training_1c0c51d9	training57S5XP5	Running	VM	Succeeded
training_57edc4bd	training5OEANR1	Running	VM	Succeeded
training_a3e2c559	training5PK3P9J	Running	VM	Succeeded
training_d8003d87	training5B3JF5L	Running	VM	Succeeded

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Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Instances

Networking

Settings

Availability + scale

Scaling

Size

Security

6:26 AM

8/9/2024

MicronNow - Home

2101

remote.trlabs.net/#/client/MTMzNwBjAG15c3Fs

Server Manager

4:24:09.11

Server Manager > Dashboard

Manage Tools View Help

Dashboard

Local Server

All Servers

File and Storage Services

CPU Grab Ex [1.17]

Name	Vendor	Group	Speed	Details	Usage	History
Socket 1						
Core 1						
Intel(R) Xeon(R) Platinum 8272CL CPU ...	GenuineIntel	0	2594 Mhz		91 %	
Intel(R) Xeon(R) Platinum 8272CL CPU ...	GenuineIntel	0	2594 Mhz		91 %	
Microsoft Hyper-V Video						
3DNode00						
3DNode01						
3DNode02						
Microsoft Basic Render Driver [Software only]						
Microsoft Remote Display Adapter						
3DNode00						
3DNode01						
3DNode02						

93 % Stop

[www.the-sz.com](http://www.the-sz.com) ☒ Automatically check for updates ☐ Try to grab max GPU usage too

Exit

Services

Manageability

Events

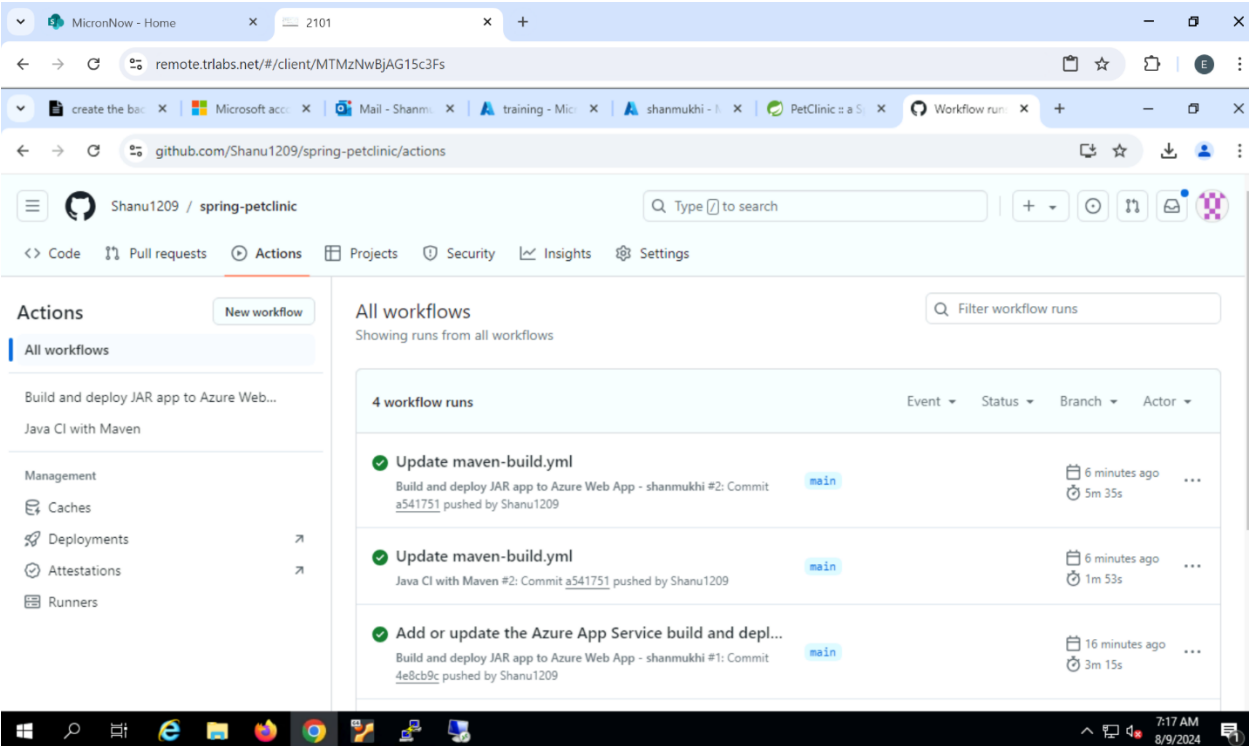
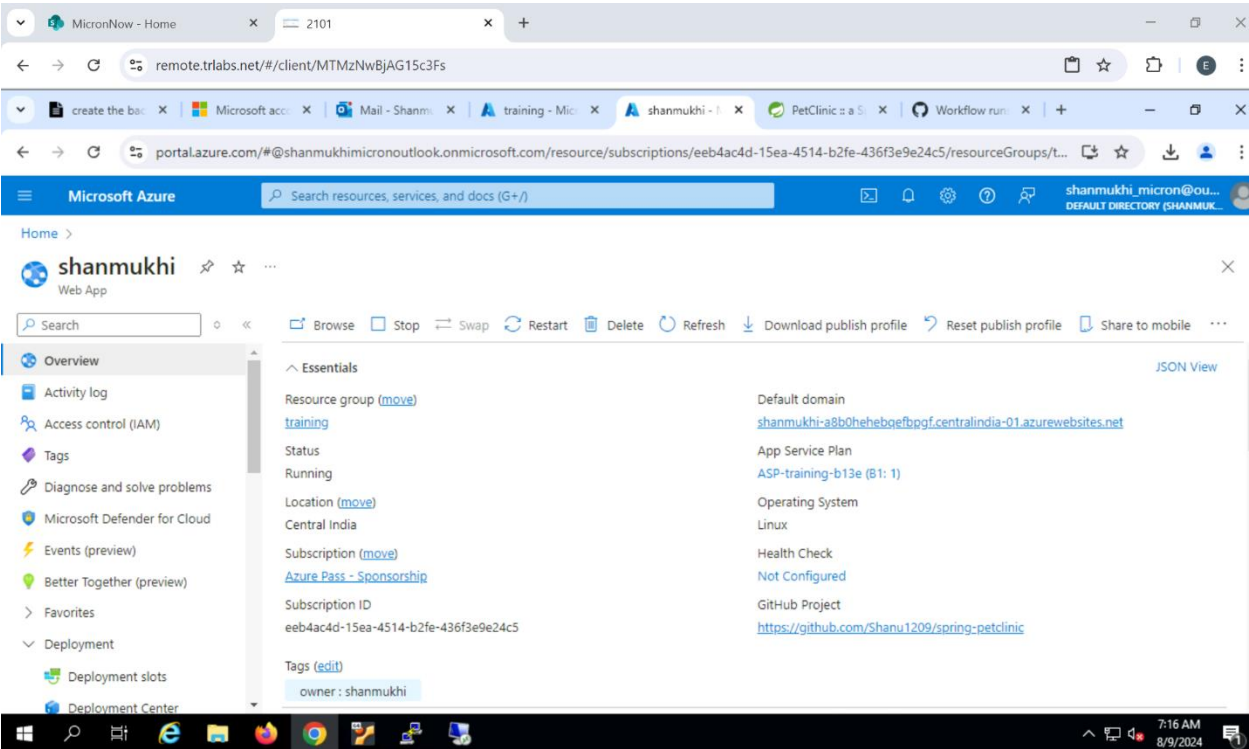
Performance

1:06 PM

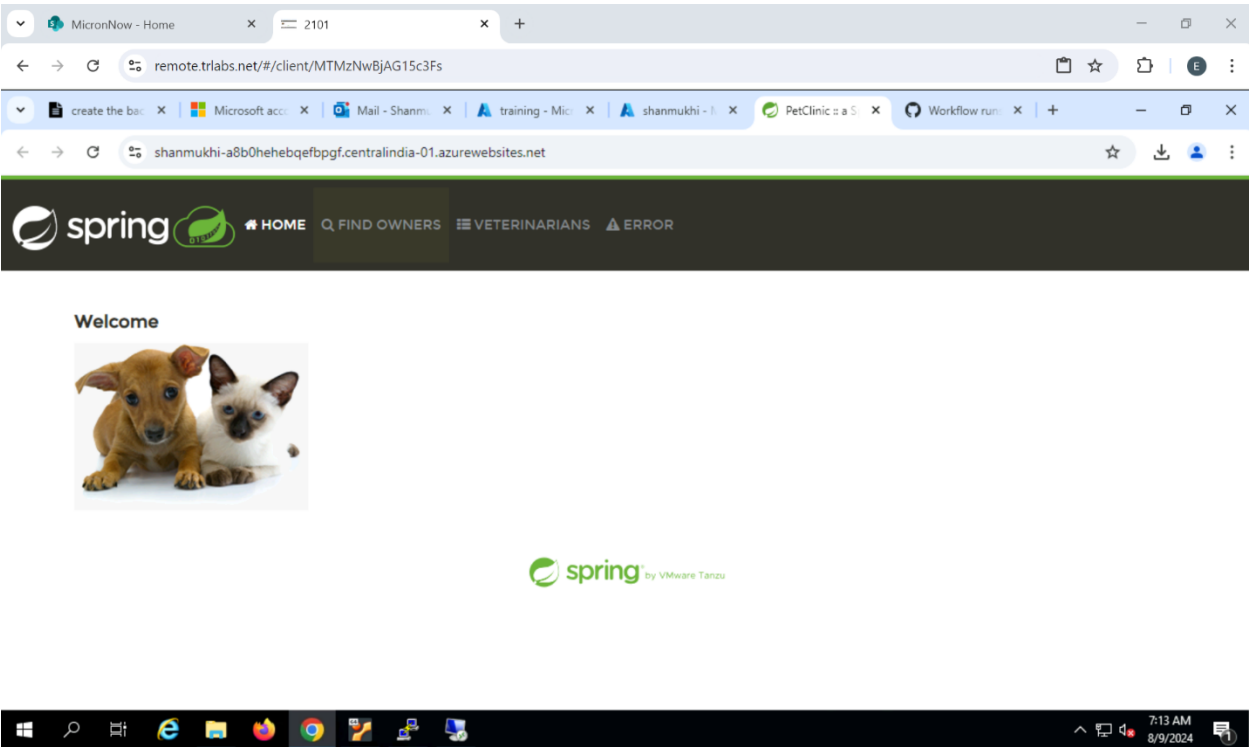
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Q5. Deploy spring pet clinic on azure app service?

A: output screens:

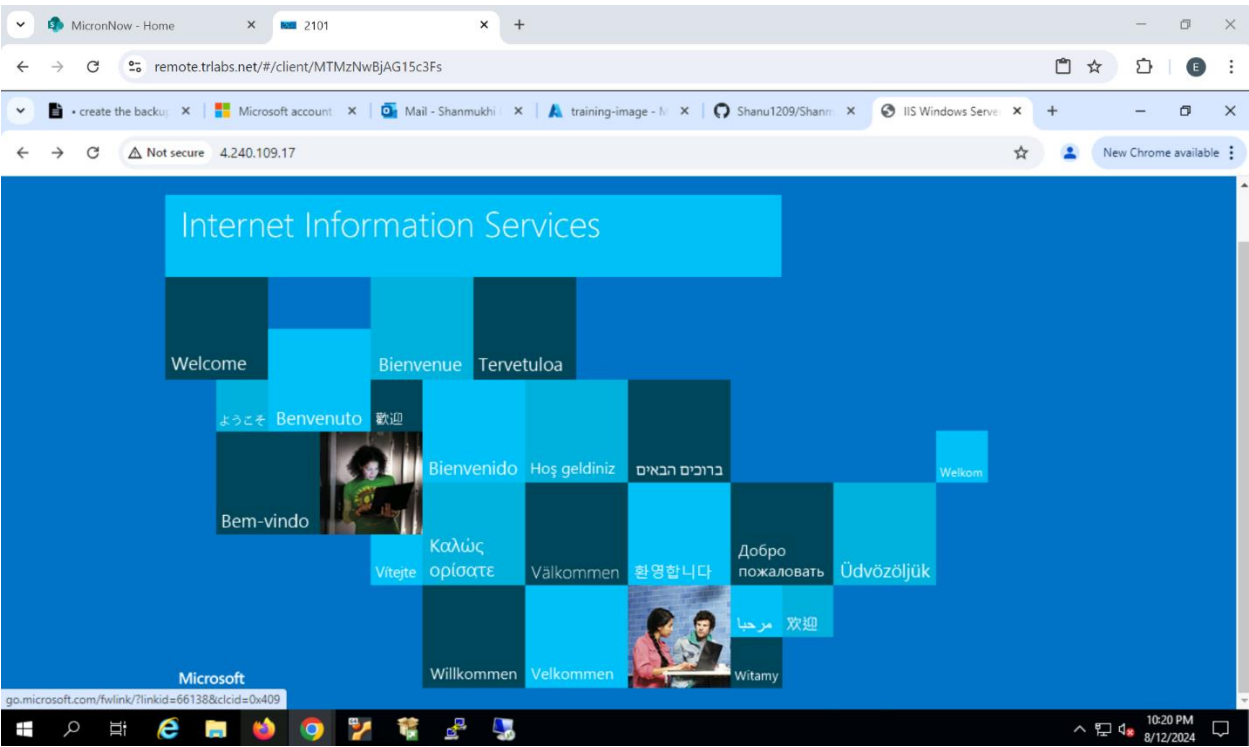




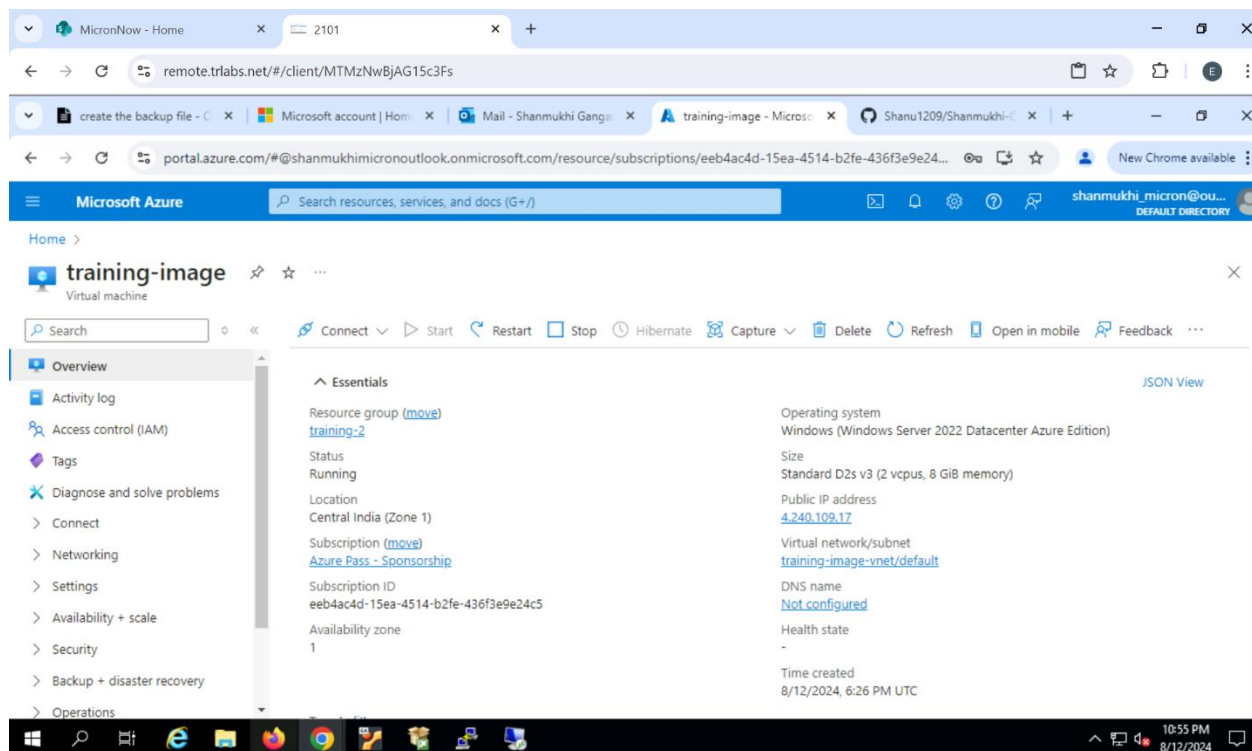


Q2. Create a windows image with IAS pre-installed?

A: output screens:







**Q1. Host a simple node.js application using custom data in linux?**

**A: output screens:**

