

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 will be saved.  
shannmukhi [ ~ ]$ az account list  
[  
  {  
    "cloudName": "AzureCloud",  
    "homeTenantId": "caf21fffb-5993-4eed-a2ad-43b158bb14c7",  
    "id": "eeb4ac4d-15ea-4514-b2fe-436f3e9e24c5",  
    "isDefault": true,  
    "managedByTenants": [],  
    "name": "Azure Pass - Sponsorship",  
    "state": "Enabled",  
    "tenantId": "caf21fffb-5993-4eed-a2ad-43b158bb14c7",  
    "user": {  
      "cloudShellID": true,  
      "name": "live.com#shannmukhi_micron@outlook.com",  
      "type": "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"
```

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```
nanmukhi [ ~ ]$ 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/ebe4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Network/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""
      }
    ]
  }
}
```



DELL

```
resourceGuid": "a8940107-7bab-4b1e-88df-4742a574d686",
"subnets": [
{
  "addressPrefix": "10.0.0.0/24",
  "delegations": [],
  "etag": "W/\"1b7e0301-0cbc-49be-ad41-df0210efd2f2\""
},
```



```
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 sk
nd zone is not provided: For zonal regions, you will get a zone-redundant IP indicated by zones:["1", "n
-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
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/ebe4ac4d-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/ebe4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Network/networkInterfaces/trainingnic"
}
```

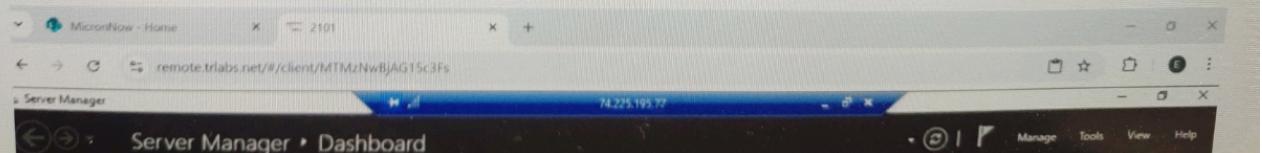
```
shankmukhi [ ~ ]$ az vm create --resource-group training --name trainingvm --nics trainingnic --image Win2022Datacenter
```

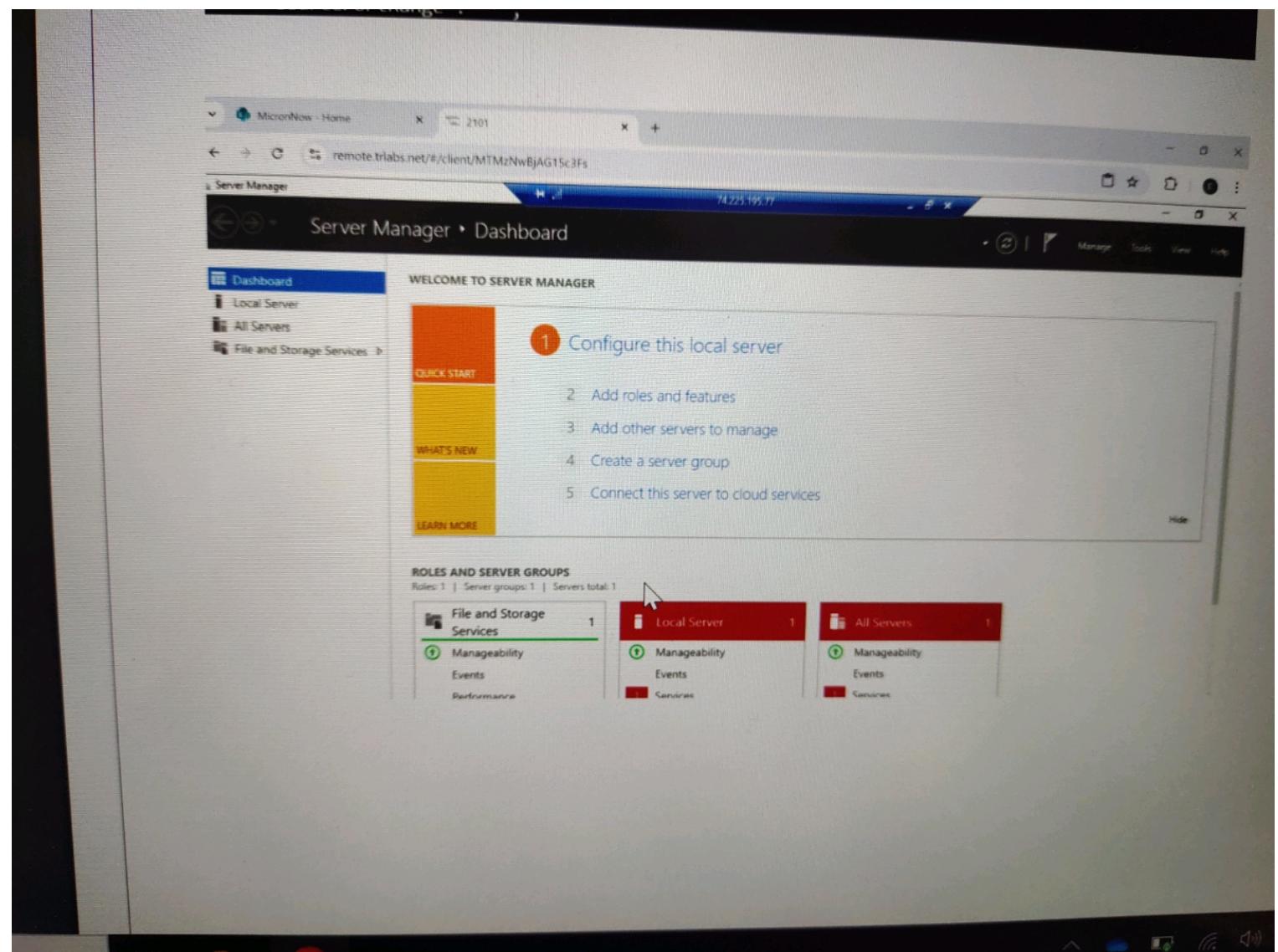
```
    "virtualNetworkCards": [],
    "internalDomainNameSuffix": "a2azjkfgpmpexcg5i3blk3gwqg.rx.internal.cloudapp.net",
},
"enableAcceleratedNetworking": false,
"enableIPForwarding": false,
"etag": "W/\"ea2dd082-cc58-41b0-8308-e44c724e6ab9\"",
"hostedWorkloads": [],
"id": "/subscriptions/ebe4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/Microsoft.Network/workInterfaces/trainingnic"
```

```
shanmukhi [ ~ ]$ az vm create --resource-group training --name trainingvm --nics trainingnic --image Win2022Data
r --size Standard_D2s_v3 --admin-username shanmukhi
Admin Password:
Confirm Admin Password:
{
  "fqdns": "",
  "id": "/subscriptions/ebe4ac4d-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": ""
}
```

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```
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/ebe4ac4d-15ea-4514-b2fe-436f3e9e24c5/resourceGroups/training/providers/networkSecurityGroups/trainingsecuritygroup/defaultSecurityRules/AllowVnetInBound",
    "name": "AllowVnetInBound",
    "priority": 65000,
    "protocol": "*",
    "provisioningState": "Succeeded",
    "resourceGroup": "training",
    "sourceAddressPrefix": "VirtualNetwork",
    "sourceAddressPrefixes": [],
    "sourcePortRange": "*",
}
```





MicronNow - Home 2101

remote.trilabs.net/#/client/MTMzNwBjAG15c3Fs

create the ba... Microsoft acc... Mail - Shan... 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

Home > training

training | Instances

Virtual machine scale set

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Instances

> Networking

> Settings

> Availability + scale

Scaling

Size

> Security

Edit columns Refresh Export to CSV Open query

Assign tags Start Restart Stop Hibernate

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

No grouping List view

Showing 1 to 3 of 3 records.

Name	Computer name	Status	Type	Provisioning state
training_57edc4bd	trainingSOEANR1	Running	VM	Succeeded
training_a3e2c559	training5PKGP9J	Running	VM	Succeeded
training_d8003d87	training583F5L	Running	VM	Succeeded

< Previous Page 1 of 1 Next >

Give feedback

6:18 AM 8/8/2024

Name	Computer name	Status	Type	Provisioning state
training_57edc4bd	trainingSOEANR1	Running	VM	Succeeded
training_a3e2c559	training5PKGP9J	Running	VM	Succeeded
training_d8003d87	training583F5L	Running	VM	Succeeded

Microsoft Azure - training | Instances

Virtual machine scale set

Search

Overview

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Scaling

Size

Security

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

No grouping List view

Name	Computer name	Status	Type	Provisioning state
training_1c0c51d9	training57SSXPS	Running	VM	Succeeded
training_57edc4bd	trainingSOEANR1	Running	VM	Succeeded
training_a3e2c559	training5PK3P9J	Running	VM	Succeeded
training_d8003d87	training5B3JF5L	Running	VM	Succeeded

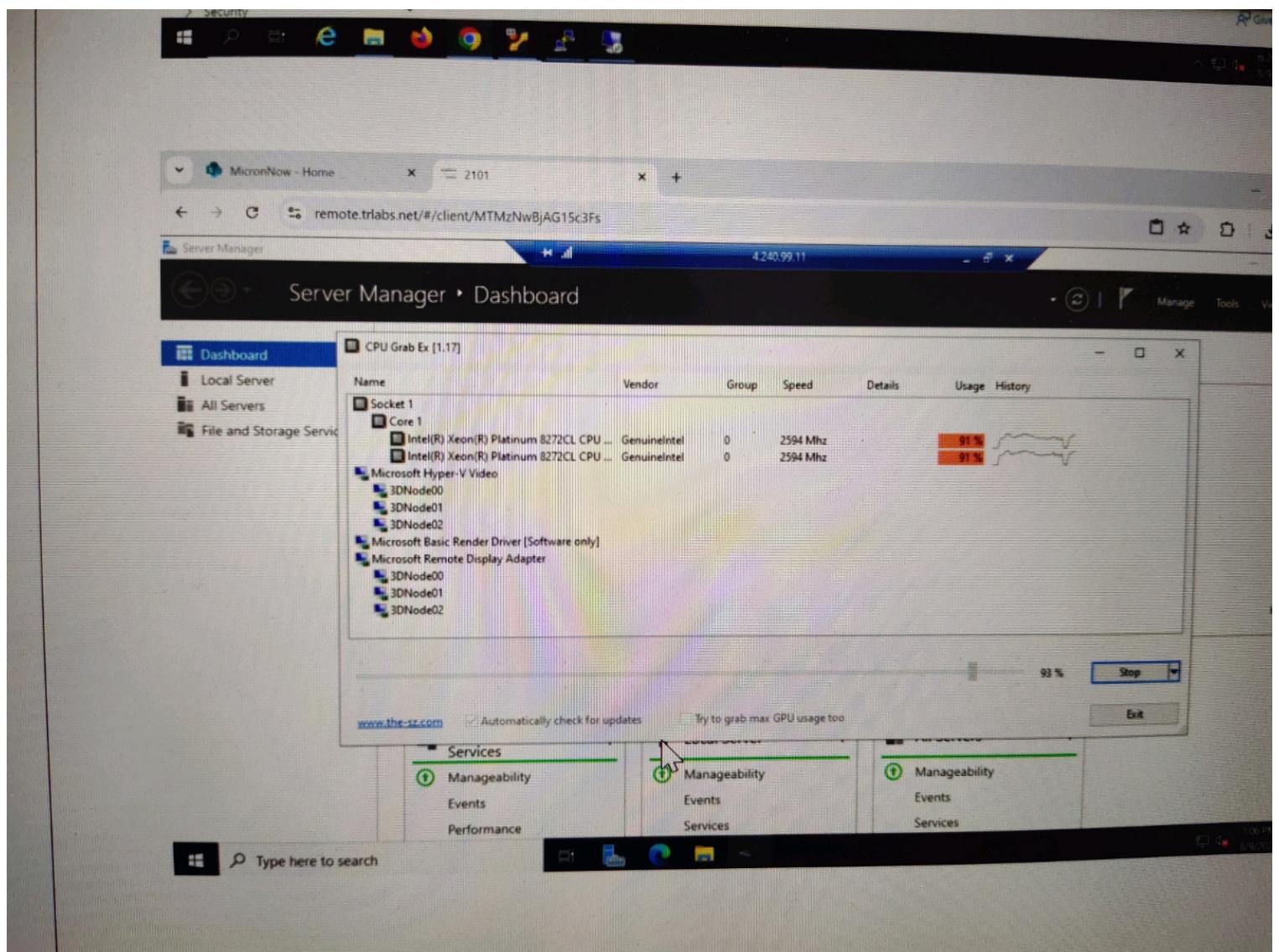
Give feedback

6:29 AM 8/4/2024

MicronNow - Home

remote.trlabs.net/#/client/MTMzNwBjAG15c3Fs

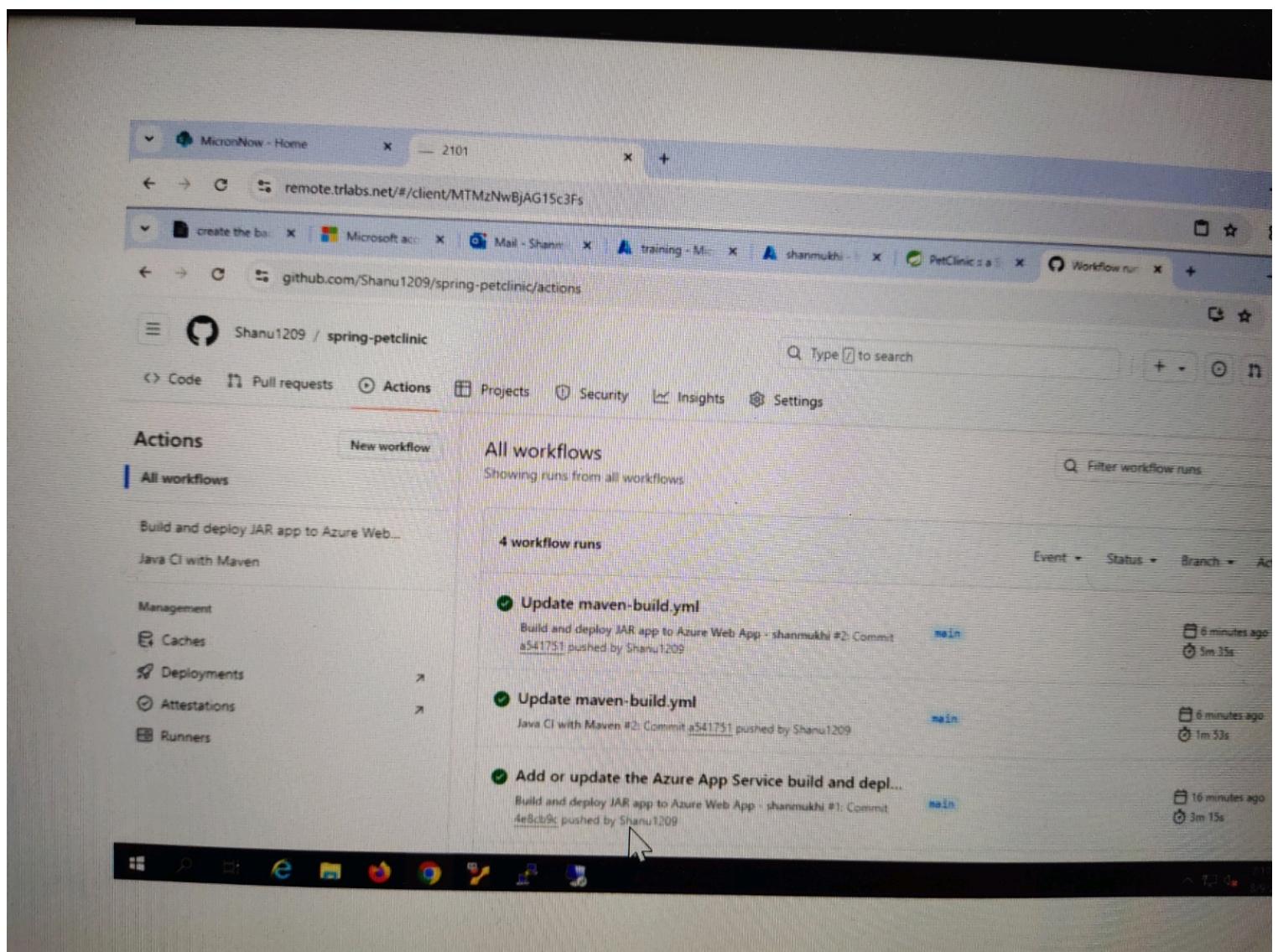
create the ba... Microsoft acc... Mail - Shan... training - Mi... training - Mi... msdocs-djan... New Tab shanmukhi.micron@ou... DEFAULT DIRECTORY (SHANMUKHI)

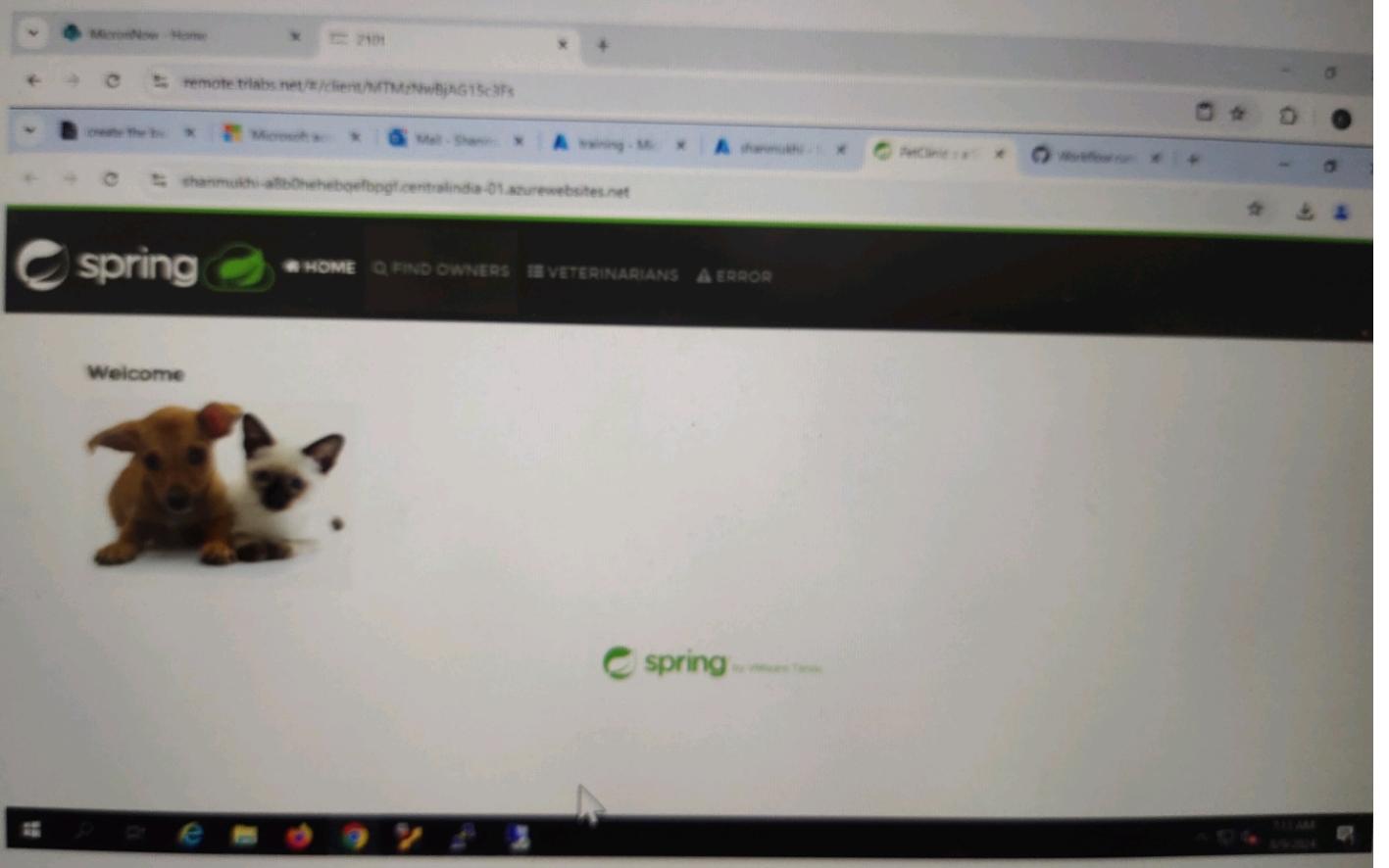


Q5. Deploy spring pet clinic on azure app service?

A: output screens:

The screenshot shows the Microsoft Azure portal interface. The left sidebar navigation bar includes Home, Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Better Together (preview), Favorites, Deployment (Deployment slots, Deployment Center), and Support + feedback. The main content area displays the 'Overview' page for a web app named 'shanmukhi'. The 'Essentials' section provides details such as Resource group (training), Status (Running), Location (Central India), Subscription (Azure Pass - Sponsorship), Subscription ID (eab4ac4d-15ea-4514-b2fe-436f3e9e24c5), and Tags (owner: shanmukhi). The top of the screen shows multiple browser tabs open, including MicronFlow - Home, 2101, remote.trlabs.net, portal.azure.com, and several Microsoft-related tabs.

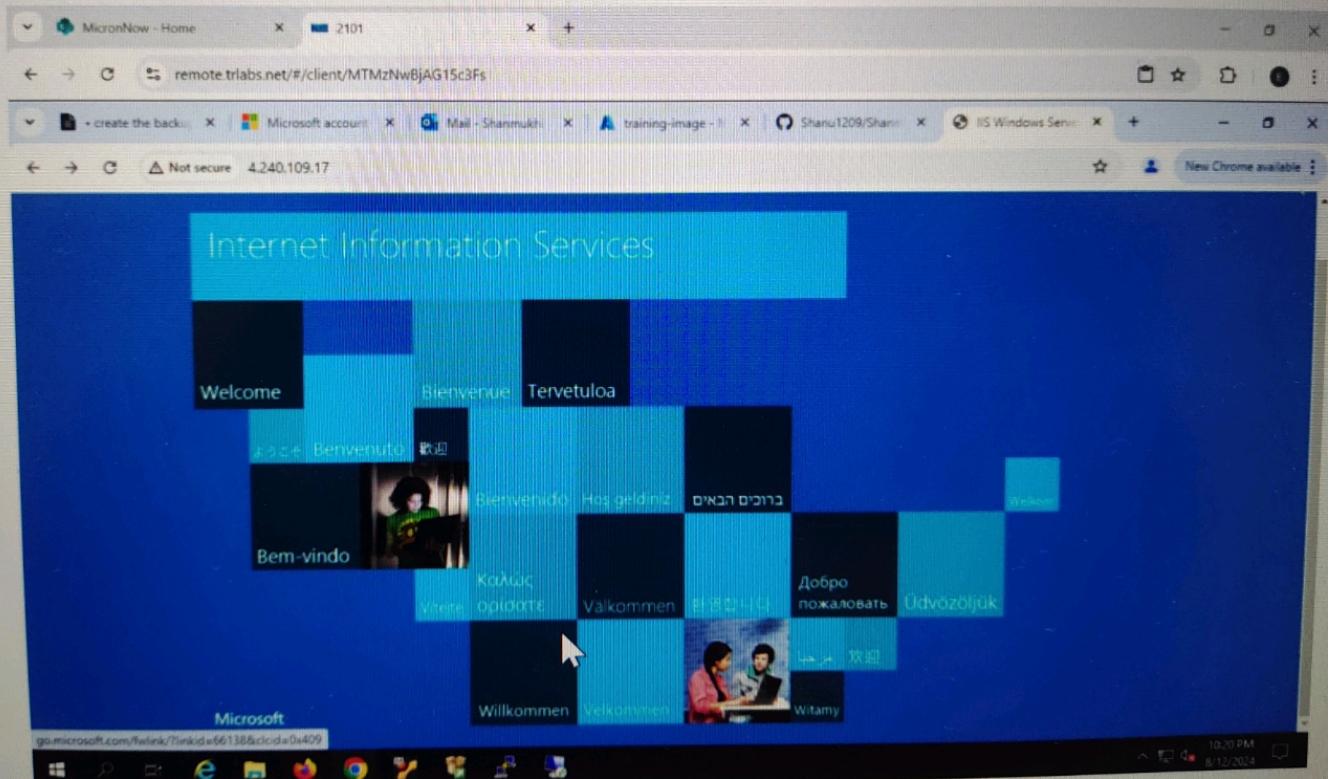




O2. Create a windows image with IAS pre-installed?

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

A: output screens:



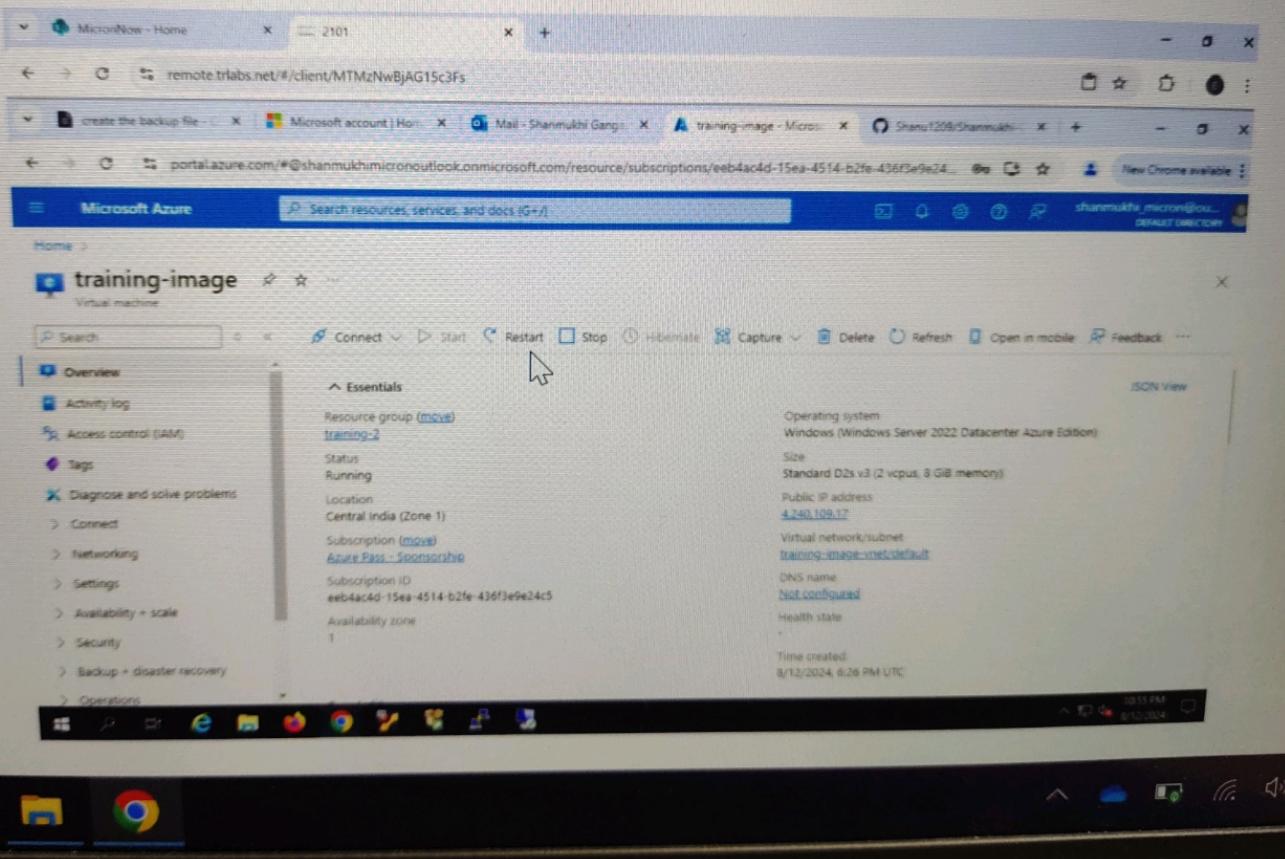
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The screenshot shows a Microsoft Azure Virtual Machine overview page titled "training-image". The page includes a toolbar with actions like Connect, Start, Stop, Hibernate, Capture, Delete, Refresh, and Open in mobile. The left sidebar lists navigation options such as Overview, Activity log, Access-control (IAM), Tags, Diagnose and solve problems, Connect, Networking, Settings, Availability + scale, Security, Backup + disaster recovery, and Operations. The main content area displays the "Essentials" section with details about the VM's configuration. The VM is running in the "training-2" resource group, located in Central India (Zone 1), using the "Standard D2s v3" size (2 vcpus, 8 GB memory). It has a public IP address of 4.240.109.17 and is connected to the "training-image-vnet/default" virtual network/subnet. The DNS name is not configured, and the health state is green. The VM was created on 8/12/2024 at 6:29 PM UTC.

Setting	Value
Resource group	training-2
Status	Running
Location	Central India (Zone 1)
Subscription	Azure Pass - Sponsorship
Subscription ID	e6b4ac4d-15ea-4514-b2fe-436f3e9e24c5
Availability zone	1
Operating system	Windows (Windows Server 2022 Datacenter Azure Edition)
Size	Standard D2s v3 (2 vcpus, 8 GB memory)
Public IP address	4.240.109.17
Virtual network/subnet	training-image-vnet/default
DNS name	Not configured
Health state	Green
Time created	8/12/2024, 6:29 PM UTC

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

A: output screens:



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