

3. Using CLI bring up a windows server.

```
Your Cloud Shell session will be ephemeral so no files or system changes will persist beyond your current session.
mythilee [ ~ ]$ az account list
[
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "4f32d1a3-9d0d-45d6-8ec6-1b5c8991a03a",
    "id": "87d67179-ba15-4d91-81d4-f06832ca7714",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Azure Pass - Sponsorship",
    "state": "Enabled",
    "tenantId": "4f32d1a3-9d0d-45d6-8ec6-1b5c8991a03a",
    "user": {
      "cloudShellID": true,
      "name": "live.com@mike.madduri12@outlook.com",
      "type": "user"
    }
  },
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "4f32d1a3-9d0d-45d6-8ec6-1b5c8991a03a",
    "id": "ed6b7906-dc84-4509-8ca4-c0b255c363e5",
  }
]

mythilee [ ~ ]$ az group create --name training --location centralindia
{
  "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training",
  "location": "centralindia",
  "managedBy": null,
  "name": "training",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}

mythilee [ ~ ]$ az network vnet create --resource-group training --name training --subnet-name trainingsubnet
{
  "newVNet": {
    "addressSpace": {
      "addressPrefixes": [
        "10.0.0/16"
      ]
    },
    "enabledDdosProtection": false,
    "etag": "W/\"0fa86b3b-9342-42c4-b393-eb6cdb9df805\"",
    "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/virtualNetworks/training",
    "location": "centralindia",
    "name": "training",
    "provisioningState": "Succeeded",
    "resourceGroup": "training",
    "resourceGuid": "13e05a5c-1c58-431d-8048-e86890f78ca5",
    "subnets": [
      {
        "addressPrefix": "10.0.0/24",
        "delegations": [],
        "etag": "W/\"0fa86b3b-9342-42c4-b393-eb6cdb9df805\"",
      }
    ]
  }
}
```

```

mythilee [ ~ ]$ 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 is Standard and zone is not provided: For zonal regions, you will get a zone-redundant
ted by zones:["1","2","3"]; For non-zonal regions, you will get a non zone-redundant IP indicated by zones:null.
{
  "publicIp": {
    "ddosSettings": {
      "protectionMode": "VirtualNetworkInherited"
    },
    "etag": "W/\"12ea18e8-cb70-4af5-b8e5-369c26bd6c55\"",
    "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/publicIPAddresses/trainingpublicip",
    "idleTimeoutInMinutes": 4,
    "ipAddress": "13.71.31.61",
    "ipConfiguration": {
      "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/networkInterfaces/trainingnic/ipConfigurations/ipconfig1",
      "resourceGroup": "training"
    },
    "ipTags": [],
    "location": "centralindia",
    "name": "trainingpublicip",
    "provisioningState": "Succeeded",
    "publicIPAddressVersion": "IPv4",
    "publicIPAllocationMethod": "Static",
    "resourceGroup": "training",
    "resourceGuid": "f7db50fe-52df-45af-bc2d-e9cadd3c0316",
    "sku": "Standard"
  },
  "resourceGroup": "training"
}

mythilee [ ~ ]$ 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/\"d829dca3-e914-43b3-9853-48f7ef64d6ed\"",
        "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/networkSecurityGroups/trainingsecuritygroup/defaultSecurityRules/allowVnetInBound",
        "name": "AllowVnetInBound",
        "priority": 65000,
        "protocol": "*",
        "provisioningState": "Succeeded",
        "resourceGroup": "training",
        "sourceAddressPrefix": "VirtualNetwork",
        "sourceAddressPrefixes": [],
        "sourcePortRange": "*",
        "sourcePortRanges": []
      }
    ],
    "location": "centralindia",
    "name": "trainingsecuritygroup",
    "provisioningState": "Succeeded",
    "resourceGroup": "training",
    "sku": "Standard"
  },
  "resourceGroup": "training"
}

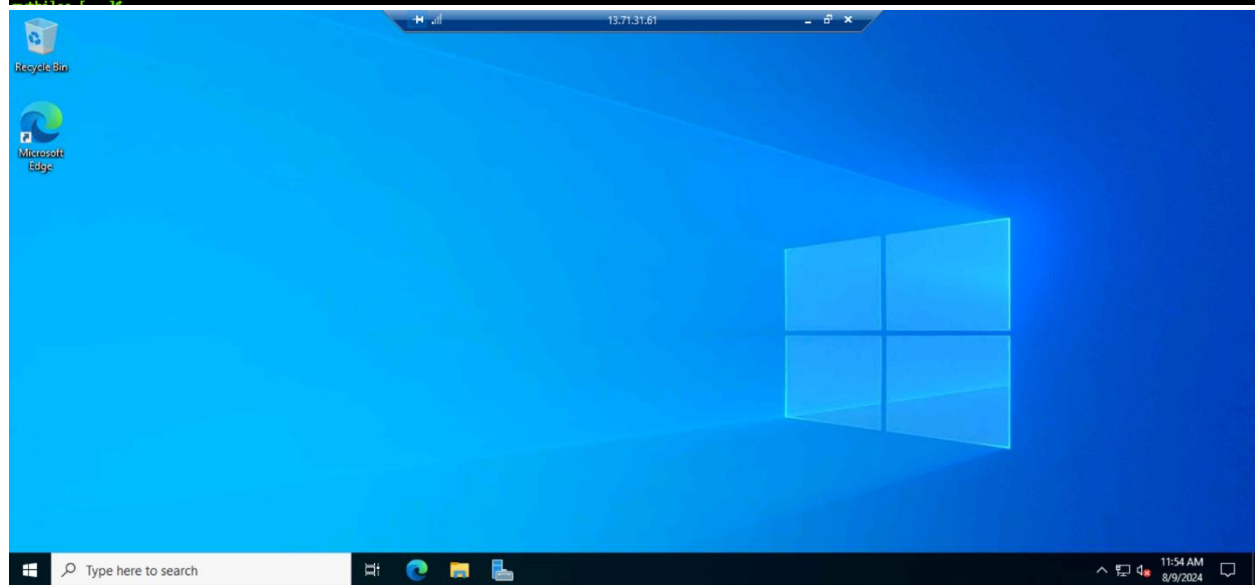
mythilee [ ~ ]$ az network nic create --resource-group training --name trainingnic --vnet-name training --subnet trainingsubnet --network-security-group trainingsecuritygroup --publicip trainingpublicip
{
  "NewNIC": {
    "auxiliaryMode": "None",
    "auxiliarySku": "None",
    "disableIcpStateTracking": false,
    "dnsSettings": {
      "appliedDnsServers": [],
      "dnsServers": [],
      "internalDomainNameSuffix": "1rnoae0ydgouhaci3bujb32muf.rx.internal.cloudapp.net"
    },
    "enableAcceleratedNetworking": false,
    "enableIPForwarding": false,
    "etag": "W/\"f785f94d-ac4e-4188-bf1a-0a1eb19c793e\"",
    "hostedWorkloads": [],
    "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/networkInterfaces/trainingnic",
    "ipConfigurations": [
      {
        "etag": "W/\"f785f94d-ac4e-4188-bf1a-0a1eb19c793e\"",
        "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/networkInterfaces/trainingnic/ipConfigurations/ipconfig1",
        "name": "ipconfig1",
        "provisioningState": "Succeeded",
        "resourceGroup": "training",
        "subnet": "trainingsubnet",
        "vnet": "training"
      }
    ],
    "location": "centralindia",
    "name": "trainingnic",
    "provisioningState": "Succeeded",
    "resourceGroup": "training",
    "sku": "Standard"
  },
  "resourceGroup": "training"
}

mythilee [ ~ ]$ az vm create --resource-group training --name trainingvm --nics trainingnic --image Win2022Datacenter --size Standard_DS1_v3 --admin-username azureuser --admin-password Training@123
{
  "fqdns": "",
  "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Compute/virtualMachines/trainingvm",
  "location": "centralindia",
  "macAddress": "60-45-00-72-29-DC",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "13.71.31.61",
  "resourceGroup": "training",
  "zones": ""
}

```

```
mythilee [ ~ ]$ 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/\"bc6be5f5-321a-4737-8514-f79c3a66256d\"",
      "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/networkSecurityGroups/trainingsecuritygroup/defaultSecurityRules/AllowVnetInBound",
      "name": "AllowVnetInBound",
      "priority": 65000,
      "protocol": "*",
      "provisioningState": "Succeeded",
      "resourceGroup": "training",
      "sourceAddressPrefix": "VirtualNetwork",
      "sourceAddressPrefixes": [],
      "sourcePortRange": "*",
      "sourcePortRanges": [],
    }
  ]
}
```

```
mythilee [ ~ ]$ az vm list-ip-addresses --resource-group training --name trainingvm
[
  {
    "virtualMachine": {
      "name": "trainingvm",
      "network": {
        "privateIpAddresses": [
          "10.0.0.4"
        ],
        "publicIpAddresses": [
          {
            "id": "/subscriptions/87d67179-ba15-4d91-81d4-f06832ca7714/resourceGroups/training/providers/Microsoft.Network/publicIPAddresses/trainingpublicip",
            "ipAddress": "13.71.31.61",
            "ipAllocationMethod": "Static",
            "name": "trainingpublicip",
            "resourceGroup": "training",
            "zone": null
          }
        ]
      },
      "resourceGroup": "training"
    }
  ]
}
```



4. Create a vmscaleset for windows os if the average cpu utilization is greater than 50 it should scale up.

>>create a new vmss and a resource group

>>availability zone - zone 1,2

>>scaling mode - autoscaling

>>image -windows server 2022 hotpatch

>>size - Standard_D2s_v3 - 2 cpu, 8 GiB memory

>>networking - training-vnet-nic01 > inbound port - http , rdp

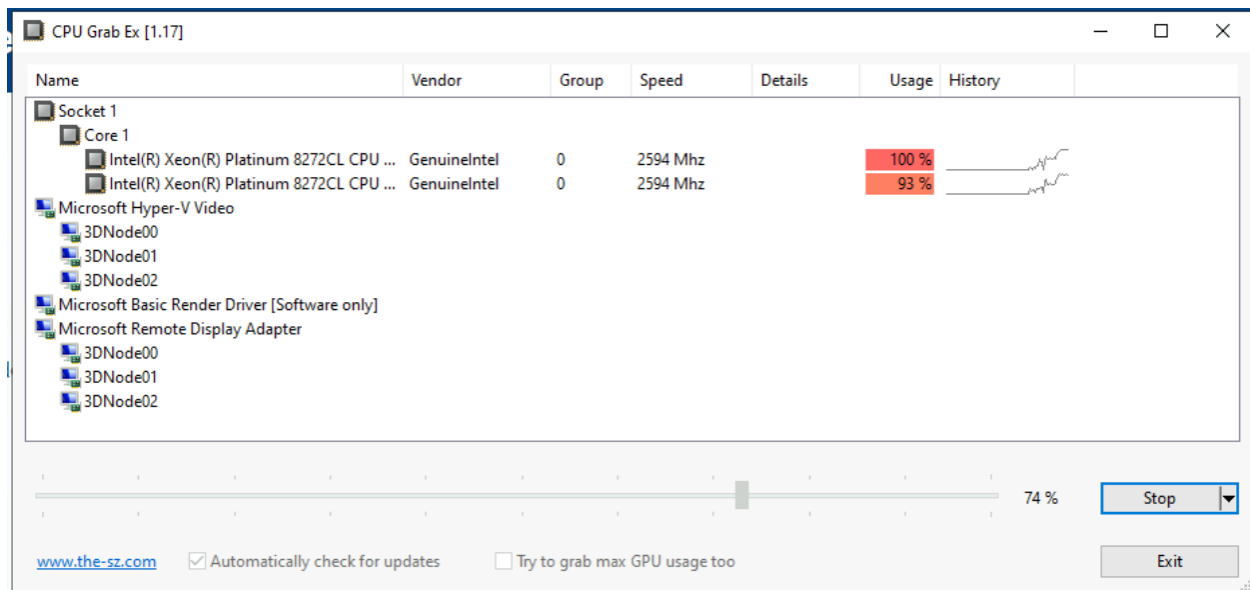
>> load balancing - azure load balancer > create a load balancer

















>>health - select automatic repairs > replace

>>advanced - force strictly even balance across zones

>>review and create

>>availability + scale – metric >50



<input type="checkbox"/> Name ↑↓	Computer name ↑↓	Status ↑↓	Type ↑↓	Provisioning state ↑↓	
<input type="checkbox"/>  training_4c120955		 Creating	VM	Creating	...
<input type="checkbox"/>  training_5c670704		 Creating	VM	Creating	...
<input type="checkbox"/>  training_79a9b7f6	trainingtXR99ME	 Running	VM	Succeeded	...
<input type="checkbox"/> Name ↑↓	Computer name ↑↓	Status ↑↓	Type ↑↓	Provisioning state ↑↓	
<input type="checkbox"/>  training_4c120955	trainingtL3UH5H	 Running	VM	Succeeded	...
<input type="checkbox"/>  training_5c670704	trainingtPMZD38	 Running	VM	Succeeded	...
<input type="checkbox"/>  training_79a9b7f6	trainingtXR99ME	 Running	VM	Succeeded	...
<input type="checkbox"/> Name ↑↓	Computer name ↑↓	Status ↑↓	Type ↑↓	Provisioning state ↑↓	
<input type="checkbox"/>  training_4c120955	trainingtL3UH5H	 Running	VM	Succeeded	...
<input type="checkbox"/>  training_d94c1750	trainingtAQLA5S	 Running	VM	Succeeded	...

5.Deploy spring pet clinic on azure app service

⌵

Browse

⏹

Stop

↔

Swap

↺

Restart

🗑

Delete

🔄

Refresh

⬇

Download publish profile

↺

Reset publish profile

📱

Share to mobile

📧

Send us your feedback

⌵

⌵

Essentials

JSON View

Resource group [\(move\)](#)

: [training1](#)

Status

: Running

Location [\(move\)](#)

: Central India

Subscription [\(move\)](#)

: [Azure Pass - Sponsorship](#)

Subscription ID

: 87d67179-ba15-4d91-81d4-f06832ca7714

Tags [\(edit\)](#)

: owner: Mythilee

Default domain

: [mythilee-dneqgfb4afckcgdk.centralindia-01.azurewebsites.net](#)

App Service Plan

: ASP-training1-a534 (B1: 1)

Operating System

: Linux

Health Check

: Not Configured

GitHub Project

: [https://github.com/Mythilee12/spring-petclinic](#)

Properties

Monitoring

Logs

Capabilities

Notifications

Recommendations

🌐

Web app

Name

Mythilee

Publishing model

Code

Runtime Stack

Java 21 SE

🏠

Deployment Center

Deployment logs

View logs

Last deployment

🔄 In Progress, building your application [Refresh](#)

Deployment provider

GitHubAction

☰

Mythilee12 / spring-petclinic

🔍 Type [/](#) to search

+

⌵

🔄

🔍

📧

🌐

<>

Code

🔍

Pull requests

🔄

Actions

📁

Projects

🛡

Security

📈

Insights

⚙

Settings

Actions

New workflow

All workflows

Build and deploy JAR app to Azure Web...

Java CI with Maven

Management

Caches

🔗

Deployments

🔗

Attestations

📁

Runners

All workflows

Showing runs from all workflows

🔍 Filter workflow runs

4 workflow runs

Event

Status

Branch

Actor

✅

Update maven-build.yml

Java CI with Maven #2: Commit [02aeb0a](#) pushed by Mythilee12

main

🕒 4 minutes ago

🕒 1m 34s

...

✅

Update maven-build.yml

Build and deploy JAR app to Azure Web App - Mythilee #2: Commit [02aeb0a](#) pushed by Mythilee12

main

🕒 4 minutes ago

🕒 3m 45s

...

✅

Add or update the Azure App Service build and deployment ...

Build and deploy JAR app to Azure Web App - Mythilee #1: Commit [7922473](#) pushed by Mythilee12

main

🕒 14 minutes ago

🕒 3m 23s

...

spring


🏠 HOME

🔍 FIND OWNERS

👤 VETERINARIANS

⚠ ERROR

Welcome



spring

by VMware Tanzu