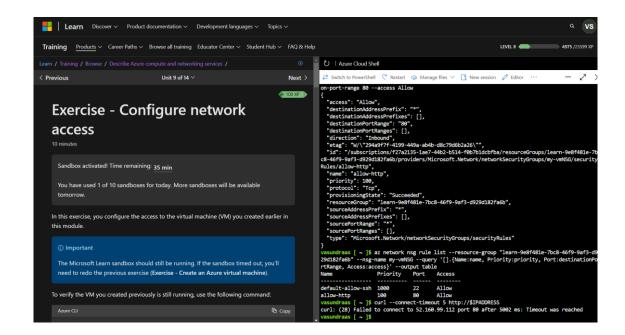
# REPORT ON MICROSOFT AZURE FUNDAMENTALS

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DEPARTMENT	COMPUTER SCIENCE & ENGINEERING

## I. CREATING AN AZURE VIRTUAL MACHINE

```
Requesting a Cloud Shell.Succeeded.
Connecting terminal...
Welcome to Azure Cloud Shell
Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell
vasundraas [ ~ ]$ az vm create --resource-group "learn-9e8f481e-7bc8-46f9-9af3-d929d182fa6b"
--name my-vm --public-ip-sku Standard --image Ubuntu2204 --admin-username azureuser --generat
SSH key files '/home/vasundraas/.ssh/id_rsa' and '/home/vasundraas/.ssh/id_rsa.pub' have been
 generated under ~/.ssh to allow SSH access to the VM. If using machines without permanent st
orage, back up your keys to a safe location.
  "id": "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-9e8f481e-7b
c8-46f9-9af3-d929d182fa6b/providers/Microsoft.Compute/virtualMachines/my-vm",
  "location": "westus",
"macAddress": "00-0D-3A-35-48-EE",
"powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
   'publicIpAddress": "52.160.99.112",
'resourceGroup": "learn-9e8f481e-7bc8-46f9-9af3-d929d182fa6b",
  "zones": ""
vasundraas [ ~ ]$ az vm extension set --resource-group "learn-9e8f481e-7bc8-46f9-9af3-d929d18
2fa6b" --vm-name my-vm --name customScript --publisher Microsoft.Azure.Extensions --version 2
.1 --settings '{"fileUris":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '{"commandToExecute": "./configure
e-nginx.sh"}'
  "autoUpgradeMinorVersion": true,
  "enableAutomaticUpgrade": null,
 "forceUpdateTag": null,
"id": "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-9e8f481e-7b
c8-46f9-9af3-d929d182fa6b/providers/Microsoft.Compute/virtualMachines/my-vm/extensions/custom
Script",
  "instanceView": null,
  "location": "westus"
  "name": "customScript",
  "protectedSettings": null,
  "protectedSettingsFromKeyVault": null,
  "provisionAfterExtensions": null,
   'provisioningState": "Succeeded",
  "publisher": "Microsoft.Azure.Extensions",
  "resourceGroup": "learn-9e8f481e-7bc8-46f9-9af3-d929d182fa6b",
  "settings": {
     "fileUris":
      "https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/config
ure-nginx.sh"
 },
"suppressFailures": null,
  "tags": null,
  "type": "Microsoft.Compute/virtualMachines/extensions",
  "typeHandlerVersion": "2.1",
"typePropertiesType": "customScript"
 asundraas [ ~ 1$
```

## II. CONFIGURING NETWORK ACCESS

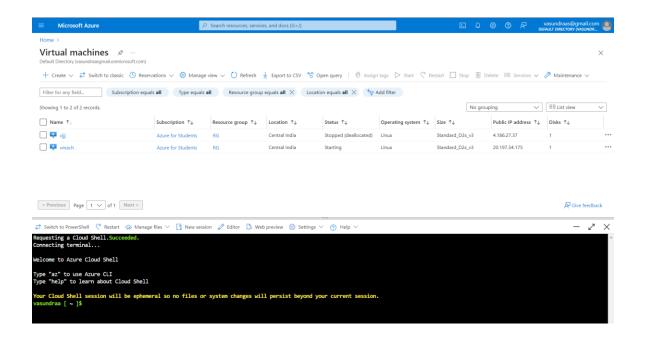


# Output:

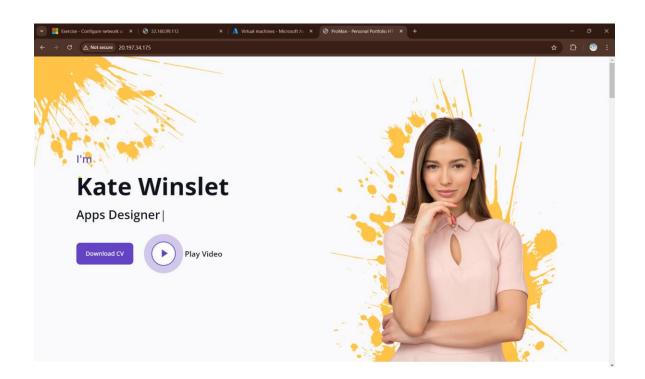


Welcome to Azure! My name is my-vm.

## III. VIRTUAL MACHINE

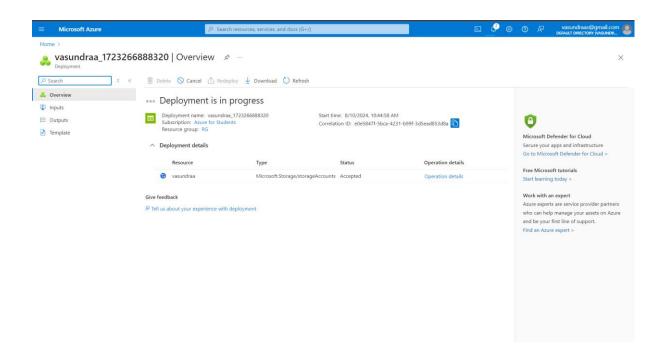


# Output:

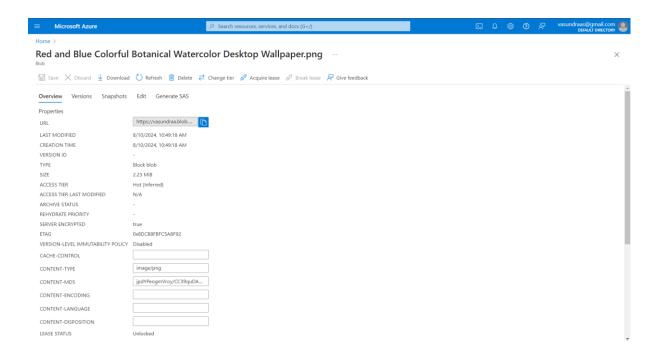


Github link: https://github.com/Vasundraa/pine.git

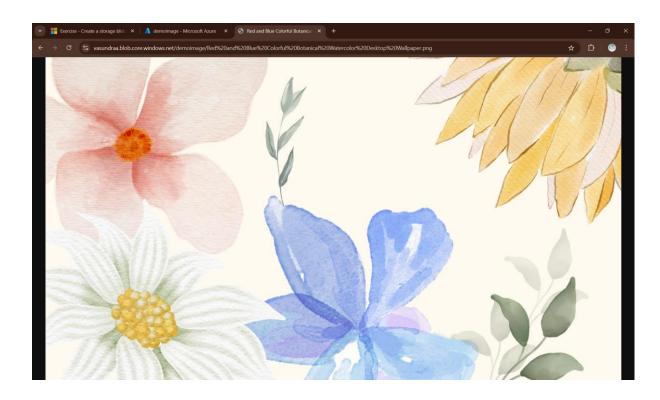
# IV. CREATING STORAGE ACCOUNT



## V. BLOB



# Output:



# VI. ESTIMATING WORKLOAD COSTS USING PRICING CALCULATOR

Your Estimate						
Service category	Service type	Custom name	Region	Description	Estimated monthly cost	Estimated upfront cost
Compute	Virtual Machines		South India	2 D2 v3 (2 vCPUs, 8 GB RAM) x 730 Hours (Pay as you	\$346.02	\$0.00
				go), Windows (License included), OS Only; 0 managed		
				disks – S4; Inter Region transfer type, 5 GB outbound		
				data transfer from South India to East Asia		
Databases	Azure SQL Database		South India	Single Database, vCore, General Purpose, Provisioned,	\$1,665.41	\$0.00
				Standard-series (Gen 5), Primary or Geo replica Disaster		
				Recovery, Locally Redundant, 1 - 8 vCore Database(s) x		
				730 Hours, 32 GB Storage, SQL License (Pay as you go),		
				RA-GRS Backup Storage Redundancy, 0 GB Point-In-		
				Time Restore, 0 x 5 GB Long Term Retention		
Networking	Application Gateway		East US	Basic tier, Small Instance size: 0 Gateway hours	\$0.00	\$0.00
				instance(s) x 730 Hours, 0 GB Data processed unit(s), 5		
				GB Zone unit(s)		
Support			Support		\$0.00	\$0.00
			Licensing Program	Microsoft Customer Agreement (MCA)		
			Billing Account			
			Billing Profile			
			Total		\$2,011.43	\$0.00
Disclaimer						

## VII. COMPARING WORKLOAD COSTS USING TCO CALCULATOR

#### Total Cost of Ownership (TCO) Calculator

Estimate the cost savings you can realize by migrating your workloads to Azure



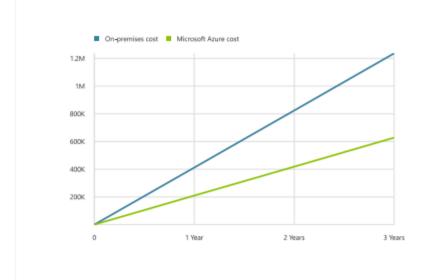


Over 3 year(s) with Microsoft Azure, your estimated cost savings

could be as much as \$608,414

Total on-premises vs. Azure cost over time

Savings from running workloads in Azure accrue over time. The following shows how those savings add up over years.



#### Total on-premises over 3 year(s)

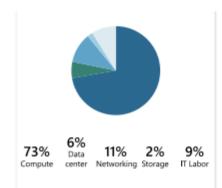
TCO of on-premises environments tends to be driven by compute and data center costs.

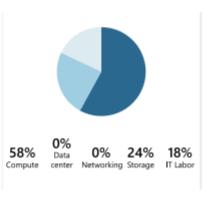
## Total Azure cost over 3 year(s)

In Azure, certain cost categories decrease or go away completely.

**\$1,236,573** Tota**l** cost

**\$628,159** Tota**l** cost





# **MICROSOFT BADGES:**

