

# MICROSOFT AZURE

**NAME : DHARANISANKARAN T S**

**DEPARTMENT: B.tech COMPUTER SCIENCE AND BUSINESS SYSTEMS**

**GITHUB LINK: <https://github.com/DHARANI-3108/AZURE.git>**

**REQUESTING A CLOUD SHELL SUCCEEDED.**

**CONNECTING TERMINAL...**

**Welcome to Azure Cloud Shell**

## **SANDBOX:**

- `az vm create --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --name my-vm --public-ip-sku Standard --image Ubuntu2204 --admin-username azureuser --generate-ssh-keys`
- `az vm extension set --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --vm-name my-vm --name customScript --publisher Microsoft.Azure.Extensions --version 2.1 --settings '{"fileUri":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '{"commandToExecute": "./configure-nginx.sh"}'`
- `sudo apt-get update`
- `ssh azureuser@13.87.187.132`
- `echo "sudo apt-get update -y`
- `sudo apt-get install nginx -y`
- `sudo systemctl start nginx`
- `sudo systemctl enable nginx" > setup_nginx.sh`
- `chmod +x setup_nginx.sh`
- `./setup_nginx.sh`

- `echo "<html><body><h2>Welcome to Azure! My name is $(hostname).</h2></body></html>" | sudo tee -a /var/www/html/index.html`
- 
- `sudo systemctl status nginx`
- `az vm open-port --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --name my-vm --port 80`
- `az vm list-ip-addresses --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --name my-vm --output table`
- `ssh azureuser@98.70.112.108`
- `sudo apt-get update`
- `git clone https://github.com/DHARANI-3108/AZURE.git`
- `sudo cp -r html/* /var/www/html/`
- `sudo chown -R www-data:www-data /var/www/html`
- `sudo chmod -R 755 /var/www/html`
- `sudo systemctl restart nginx\`

## EXECUTING COMMANDS IN SAND BOX

The screenshot shows the Azure Cloud Shell interface. At the top, there's a header with 'FAQ & Help', 'LEVEL 1', and '400 / 1799 XP'. Below the header, the shell title is 'Azure Cloud Shell'. The interface includes a toolbar with 'Switch to PowerShell', 'Restart', 'Manage files', 'New session', and other icons. The main terminal area shows the following commands and output:

```

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

dharanisivaperumal2004 [ ~ ]$ az vm create --resource-group "learn-68a2cc40-f265-4769-9378-2bf056adf588" --name my-vm --public-ip-sku Standard --image Ubuntu2204 --admin-username azureuser --generate-ssh-keys
{
  "fqdns": "",
  "id": "/subscriptions/081f341e-de8f-4bcd-8946-3fa44b5188e0/resourceGroups/learn-68a2cc40-f265-4769-9378-2bf056adf588/providers/Microsoft.Compute/virtualMachines/my-vm",
  "location": "westus",
  "macAddress": "00-0D-3A-5B-92-49",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "13.87.187.132",
  "resourceGroup": "learn-68a2cc40-f265-4769-9378-2bf056adf588",
  "zones": ""
}
dharanisivaperumal2004 [ ~ ]$ az vm extension set --resource-group "learn-68a2cc40-f265-4769-9378-2bf056adf588" --vm-name my-vm --name customScript --publisher Microsoft.Azure.Extensions --version 2.1 --settings '{"file

```

At the bottom of the terminal, there's a status bar showing '26°C Partly sunny', '09:36', and '09-08-2024'.

```
Azure Cloud Shell

Switch to PowerShell Restart Manage files New session

}
dharanisivaperumal2004 [ ~ ]$ az vm list-ip-addresses --resource-group "learn-68a2cc40-f265-4769-9378-2bf056adf588" --name my-vm --output table
VirtualMachine      PublicIPAddresses      PrivateIPAddresses
-----
my-vm               13.87.187.132          10.0.0.4
dharanisivaperumal2004 [ ~ ]$ ssh azureuser@13.87.187.132
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1025-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Aug  9 04:32:49 UTC 2024

System load:  0.0          Processes:            116
Usage of /:   7.8% of 28.89GB Users logged in:      0
Memory usage: 17%         IPv4 address for eth0: 10.0.0.4
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.
10 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Wrestling 10:07 09-08-2024
```

## RUNNING HTML IN BROWSER WITH PUBLIC IP ADDRESS

```
Azure Cloud Shell

Switch to PowerShell Restart Manage files New session

dharanisivaperumal2004 [ ~ ]$ ssh azureuser@13.87.187.132
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1025-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Aug  9 04:32:49 UTC 2024

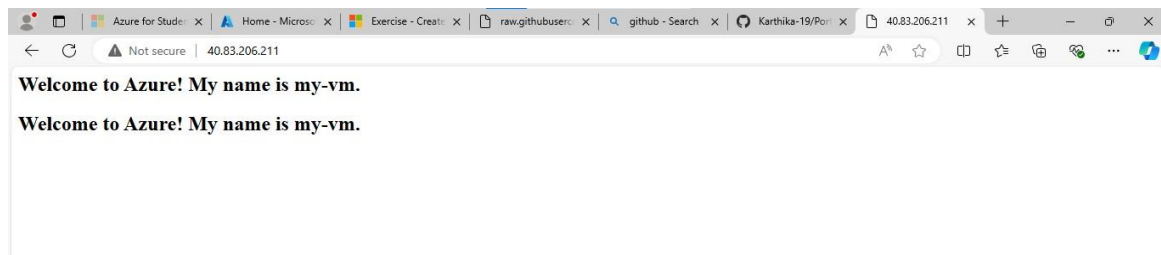
System load:  0.0          Processes:            116
Usage of /:   7.8% of 28.89GB Users logged in:      0
Memory usage: 17%         IPv4 address for eth0: 10.0.0.4
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.
10 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Fri Aug  9 04:05:30 2024 from 4.144.154.61
azureuser@my-vm:~$
```



## DISPLAYING VIRTUAL MACHINE, PUBLIC IP AND PRIVATE IP

```
dharanisivaperumal2004 [ ~ ]$ az vm list-ip-addresses --resource-group "1  
earn-68a2cc40-f265-4769-9378-2bf056adf588" --name my-vm --output table  
VirtualMachine      PublicIPAddresses      PrivateIPAddresses  
-----  
my-vm               13.87.187.132          10.0.0.4  
dharanisivaperumal2004 [ ~ ]$ ssh azureuser@13.87.187.132  
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1025-azure x86_64)
```

## RUNNING PORTFOLIO FROM GIT HUB IN THE BROWSER

```
azureuser@my-vm:~$ git clone https://github.com/GNiruthian/Login-Page-using-html-c  
ss.git  
Cloning into 'Login-Page-using-html-css'...  
remote: Enumerating objects: 5, done.  
remote: Counting objects: 100% (5/5), done.  
remote: Compressing objects: 100% (5/5), done.  
remote: Total 5 (delta 0), reused 1 (delta 0), pack-reused 0  
Receiving objects: 100% (5/5), done.  
azureuser@my-vm:~$ sudo cp -r Login-Page-using-html-css/* /var/www/html/  
azureuser@my-vm:~$  
azureuser@my-vm:~$ sudo chown -R www-data:www-data /var/www/html  
sudo chmod -R 755 /var/www/html  
azureuser@my-vm:~$
```

