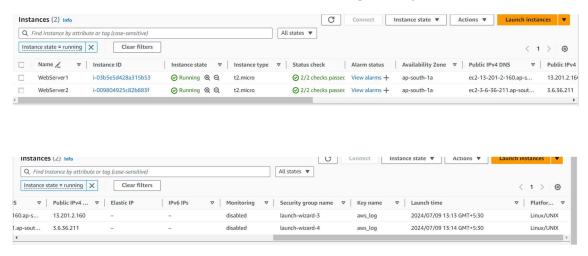
Task 1 1.Create 2 Linux Servers and configure Web Servers on each VM. Create a unique webpage for each VM other than the default index file.

Make Two EC2 instacne in Mumbai region ap-south-1



Login to 1 using ssh and public ip address with key

```
wbuntu@ip-172-31-39-204:-$ sudo apt update -y
Warning: The unit file, source configuration file or drop-ins of apt-news.service changed on disk. Run 'systemctl daemo r-reload' to reload units.
Warning: The unit file, source configuration file or drop-ins of esm-cache.service changed on disk. Run 'systemctl daemo n-reload' to reload units.
Warning: The unit file, source configuration file or drop-ins of esm-cache.service changed on disk. Run 'systemctl daemo n-reload' to reload units.
Warning: The unit file, source configuration file or drop-ins of esm-cache.service changed on disk. Run 'systemctl daemo n-reload' to reload units.
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Warning: The unit file, source configuration file or drop-ins of esm-cache.service changed on disk. Run 'systemctl daemo n-reload' to reload units.
Warning: The unit file, source configuration file or drop-ins of esm-cache.service changed to Reload Packages [15.0 MB]
Get: 10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [391 kB]
Get: 11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-multiverse amd64 C-n-f Metadata [3828 B]
Get: 13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [126 kB]
Get: 14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [118 kB]
Get: 15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [61.2 kB]
Get: 16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 C-n-f Metadata [3884 B]
Get: 17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 C-n-f
```

```
Last login: Tue Jul 9 07:51:22 2024 from 49.43.180.102

abunt@ip=172-31-39-204!:$ sudo apt update -y

dit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease

dit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease

dit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease

dit:4 http://security.ubuntu.com/ubuntu noble-security InRelease

Reading package lists... Done

Reading state information... Done

Reading state information... Done

Reading state information... Done

Reading package lists... Done

Reading state information... Sone

Reading state information... Sone

Reading state information... Done

Reading state information... Sone

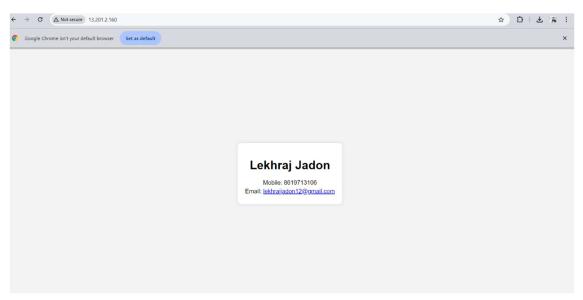
Reading st
```

Same for login in EC2 instanc

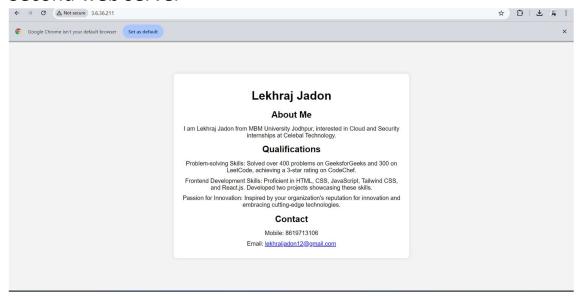
```
ubuntu@ip-172-31-41-42: ~
                                   ubuntu@ip-172-31-39-204: ~
                     Apache2 package with Ubuntu. However, check <a
                     href="https://bugs.launchpad.net/ubuntu/+source/apache2"
                     rel="nofollow">existing bug reports</a> before reporting a new bu
           >
                     Please report bugs specific to modules (such as PHP and others)
                     to their respective packages, not to the web server itself.
           </div>
     </div>
  </div>
  <div class="validator">
  </div>
 /body>
tml>
 ntu@ip-172-31-41-42:~$ sudo nano /etc/apache2/sites-available/000-default.conf
 ntu@ip-172-31-41-42:~$ y
command not found
 ntu@ip-172-31-41-42:~$ sudo systemctl restart apache2
ntu@ip-172-31-41-42:~$ sudo rm /var/www/html/index.html
 ntu@ip-172-31-41-42:~$ ls
ex.html
 ntu@ip-172-31-41-42:~$ ls
ex.html
 ntu@ip-172-31-41-42:~$ sudo mv ~/index.html /var/www/html/index.html
ntu@ip-172-31-41-42:~$ sudo chown www-data:www-data /var/www/html/index.html
ntu@ip-172-31-41-42:~$ sudo chmod 644 /var/www/html/index.html
ntu@ip-172-31-41-42:~$ sudo systemctl restart apache2
ntu@ip-172-31-41-42:~$
 _ast login: Tue Jul 9 07:51:22 2024 from 49.43.180.102
ubuntu@ip-172-31-39-204:~$ sudo apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
 packages can be upgraded. Run 'apt list --upgradable' to see them.
 ubuntu@ip-172-31-39-204:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.58-1ubuntu8.2).
9 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
ubuntu@ip-172-31-39-204:~$ sudo systemctl start apache2
ubuntu@ip-172-31-39-204:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sys
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
ubuntu@ip-172-31-39-204:~$ vim index.html
ubuntu@ip-172-31-39-204:~$ ubuntu@ip-172-31-39-204:~$ ^C
ubuntu@ip-172-31-39-204:~$ ^C
 .buntu@ip-172-31-39-204:~$ ls
ubuntu@ip-172-31-39-204:~$ sudo mv ~/index.html /var/www/html/index.html
ubuntu@ip-172-31-39-204:~$ sudo chown www-data:www-data /var/www/html/index.html
ubuntu@ip-172-31-39-204:~$ sudo chmod 644 /var/www/html/index.html
ubuntu@ip-172-31-39-204:~$ sudo systemctl restart apache2
ubuntu@ip-172-31-39-204:~$ |
```

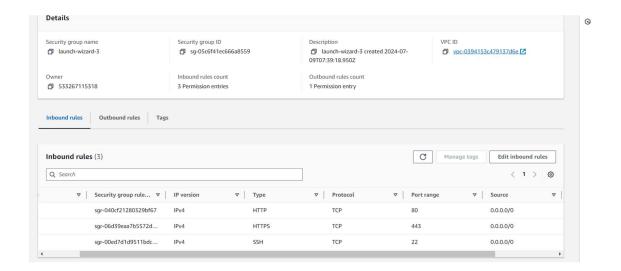
Shwo web side by using localhost http://public ip address

For both so I created the enable the Inbound rule in security group http on port 80

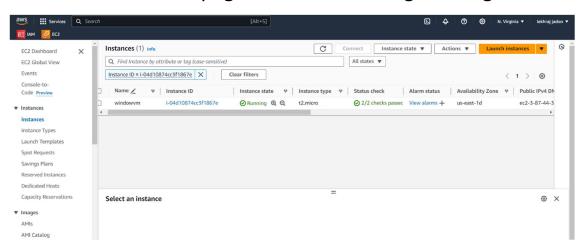


Second web server



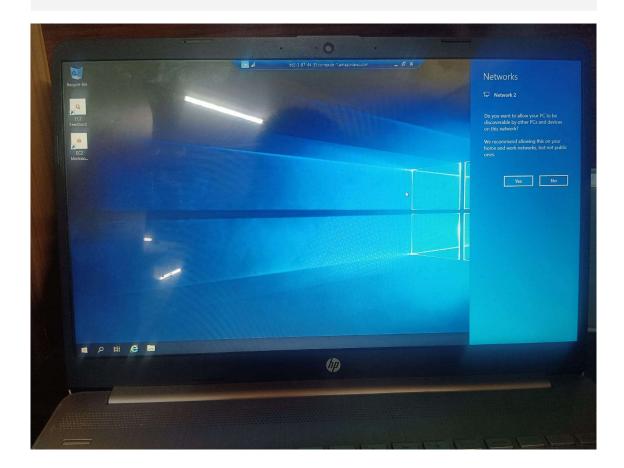


Taks 2 make VDP In the different region Create a Windows VM in a different region and assess the same webpage from this VM. Region verginia



Login to new virtual desktop

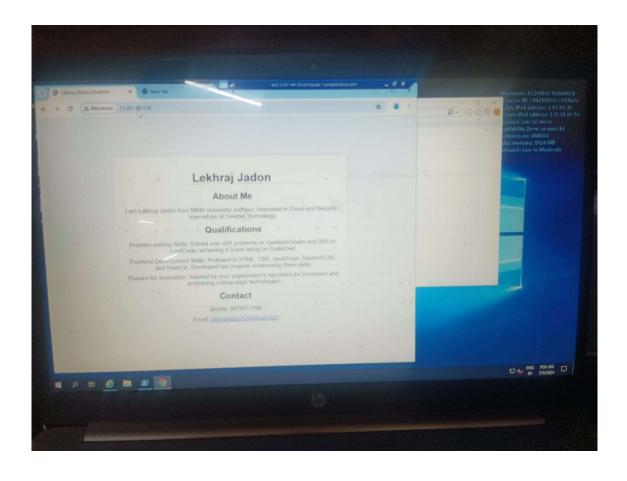




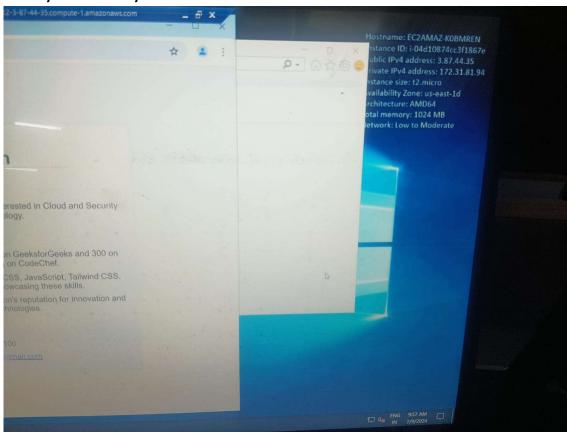


Download crome in the dektop and

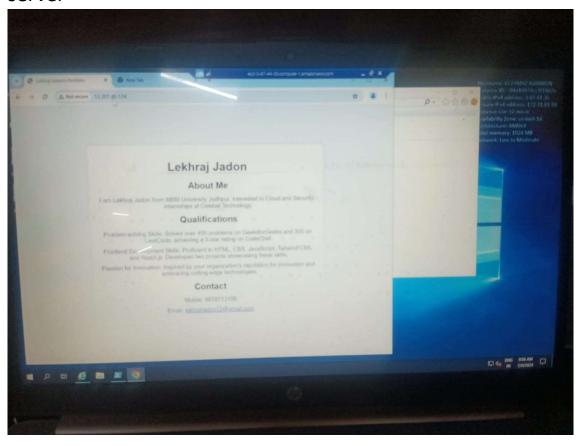
Navigate to localhost http://public ip addres of the appliaciton

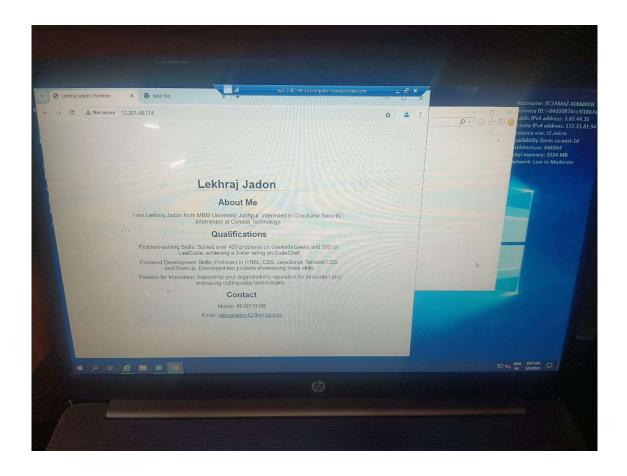


Easily acces my web



server

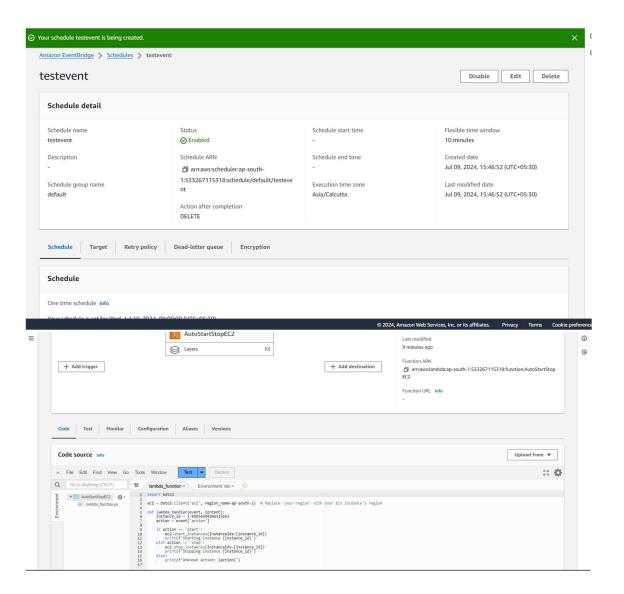




Third task

3.Create a Script to Auto on and Auto Off the Virtual Machine.

I create a role and a lambda function for event driven On and off the virtual macine



```
ec2 = boto3.client('ec2', region name=ap-south-1) # Replace
'your-region' with your EC2 instance's region
def lambda handler(event, context):
  instance_id = i-03b5e5d428a315b53
  action = event['action']
  if action == 'start':
    ec2.start_instances(InstanceIds=[instance_id])
    print(f'Starting instance {instance_id}')
  elif action == 'stop':
    ec2.stop_instances(InstanceIds=[instance_id])
    print(f'Stopping instance {instance id}')
  else:
    print(f'Unknown action: {action}')
```