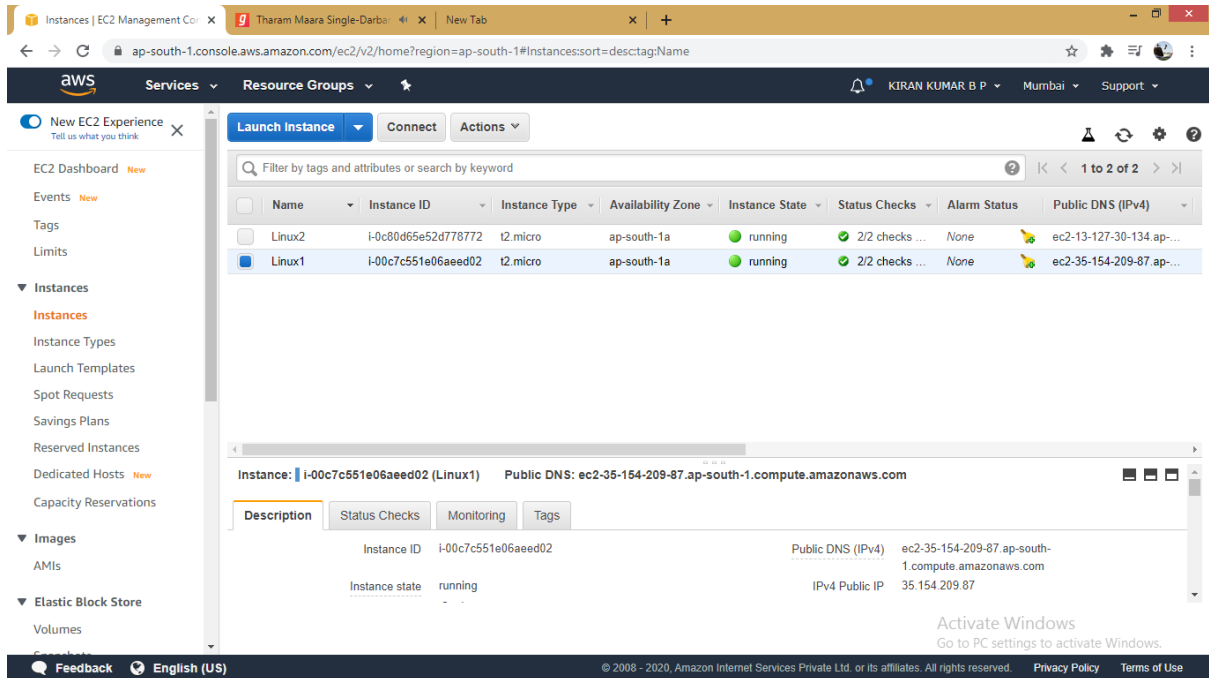


ASSIGNMENT 2

Project-3

Step 1: To create two linux instances using first free linux AMI



The screenshot shows the AWS Management Console interface for the 'ap-south-1' region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area displays a table of EC2 instances. Two instances are listed: 'Linux2' (Instance ID: i-0c80d65e52d778772) and 'Linux1' (Instance ID: i-00c7c551e06aee02). Both instances are of type 't2.micro' and are in the 'running' state. The table also shows the Availability Zone as 'ap-south-1a', Status Checks as '2/2 checks passed', Alarm Status as 'None', and Public DNS (IPv4) addresses. Below the table, the details for instance 'Linux1' are expanded, showing its Description, Status Checks, Monitoring, and Tags. The instance is running on the 'Linux2' AMI. The console footer shows the AWS logo, navigation links, and copyright information.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Linux2	i-0c80d65e52d778772	t2.micro	ap-south-1a	running	2/2 checks passed	None	ec2-13-127-30-134.ap-south-1.compute.amazonaws.com
Linux1	i-00c7c551e06aee02	t2.micro	ap-south-1a	running	2/2 checks passed	None	ec2-35-154-209-87.ap-south-1.compute.amazonaws.com

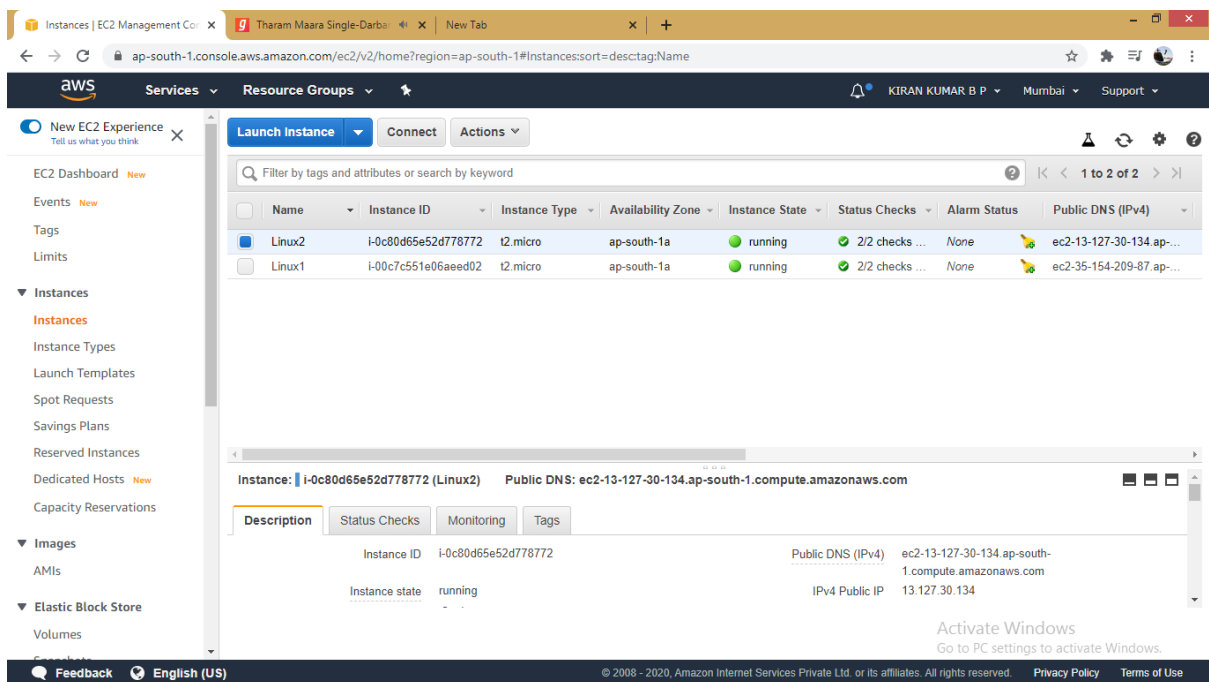
Instance: i-00c7c551e06aee02 (Linux1) Public DNS: ec2-35-154-209-87.ap-south-1.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID: i-00c7c551e06aee02 Public DNS (IPv4): ec2-35-154-209-87.ap-south-1.compute.amazonaws.com

Instance state: running IPv4 Public IP: 35.154.209.87

Activate Windows
Go to PC settings to activate Windows.



The screenshot shows the AWS Management Console interface for the 'ap-south-1' region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area displays a table of EC2 instances. Two instances are listed: 'Linux2' (Instance ID: i-0c80d65e52d778772) and 'Linux1' (Instance ID: i-00c7c551e06aee02). Both instances are of type 't2.micro' and are in the 'running' state. The table also shows the Availability Zone as 'ap-south-1a', Status Checks as '2/2 checks passed', Alarm Status as 'None', and Public DNS (IPv4) addresses. Below the table, the details for instance 'Linux2' are expanded, showing its Description, Status Checks, Monitoring, and Tags. The instance is running on the 'Linux2' AMI. The console footer shows the AWS logo, navigation links, and copyright information.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Linux2	i-0c80d65e52d778772	t2.micro	ap-south-1a	running	2/2 checks passed	None	ec2-13-127-30-134.ap-south-1.compute.amazonaws.com
Linux1	i-00c7c551e06aee02	t2.micro	ap-south-1a	running	2/2 checks passed	None	ec2-35-154-209-87.ap-south-1.compute.amazonaws.com

Instance: i-0c80d65e52d778772 (Linux2) Public DNS: ec2-13-127-30-134.ap-south-1.compute.amazonaws.com

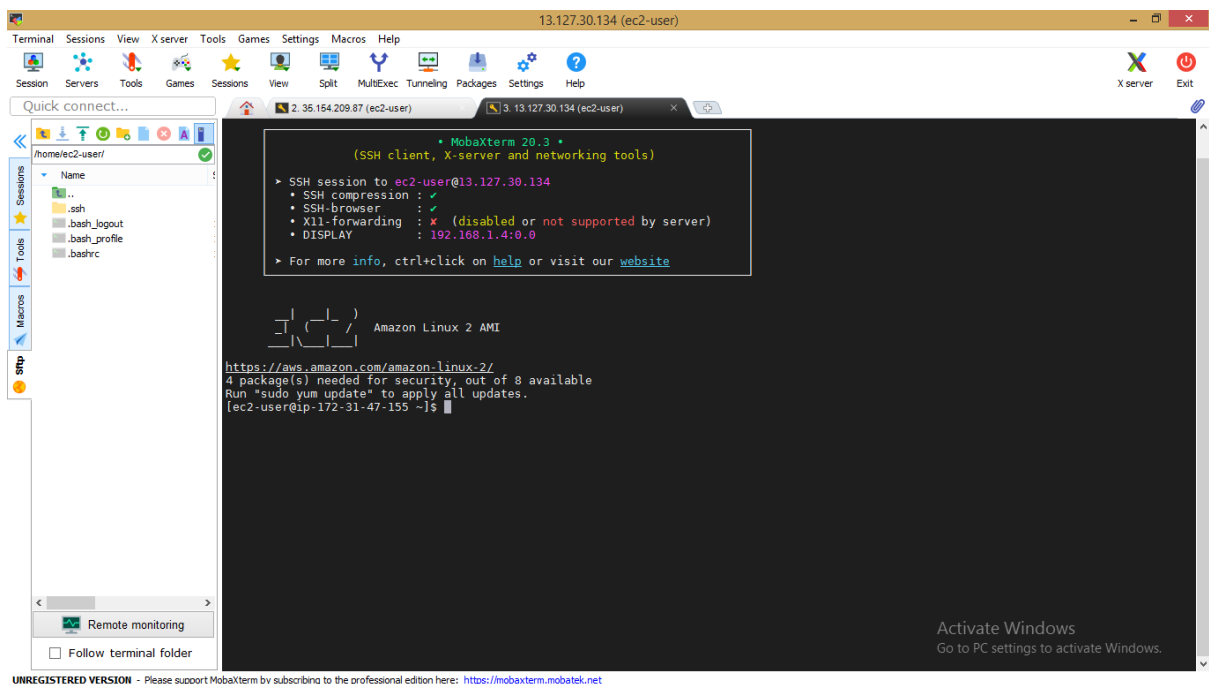
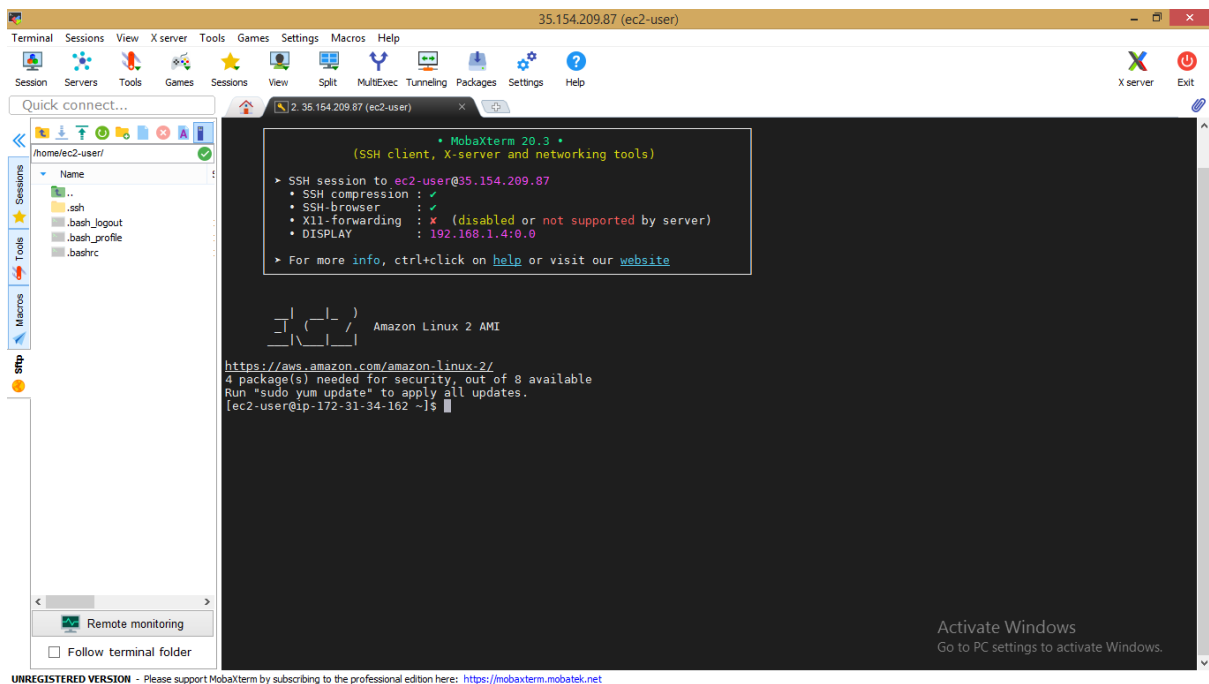
Description Status Checks Monitoring Tags

Instance ID: i-0c80d65e52d778772 Public DNS (IPv4): ec2-13-127-30-134.ap-south-1.compute.amazonaws.com

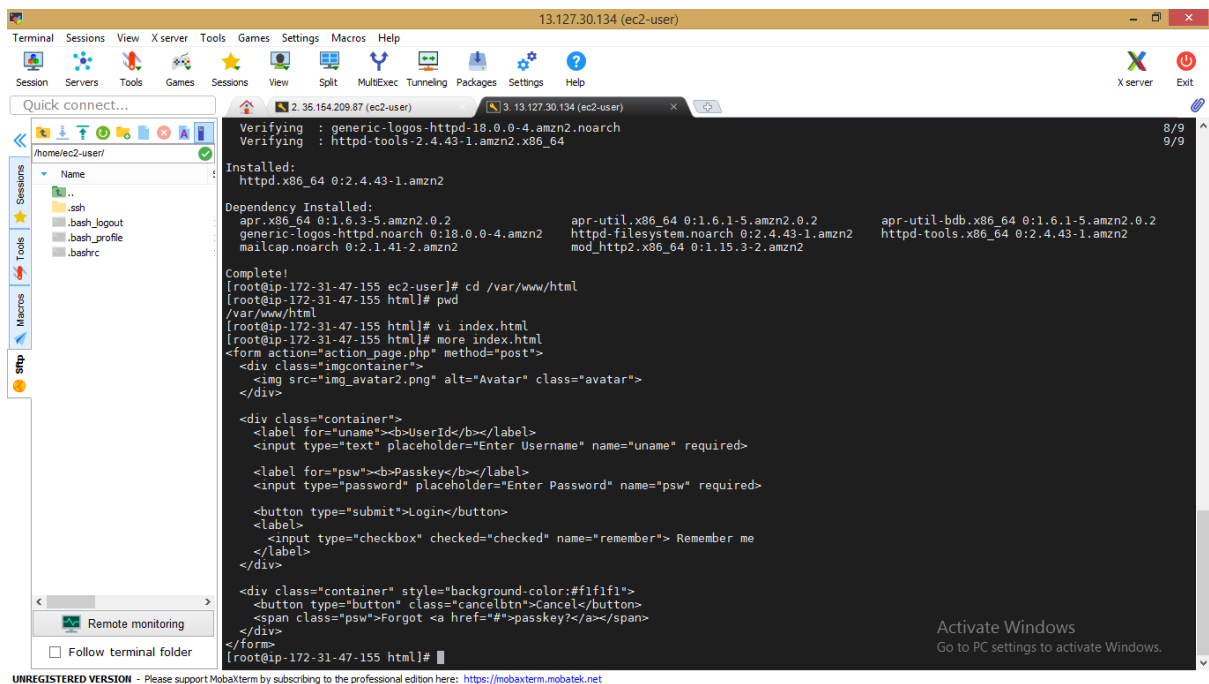
Instance state: running IPv4 Public IP: 13.127.30.134

Activate Windows
Go to PC settings to activate Windows.

Step 2: To launch both instances using mobaxterm



Step 3: To host HTML login webpages on both servers



```
13.127.30.134 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
/home/ec2-user/
Sessions
  Name
  .ssh
  .bash_logout
  .bash_profile
  .bashrc
Tools
Macros
SFTP
Remote monitoring
Follow terminal folder

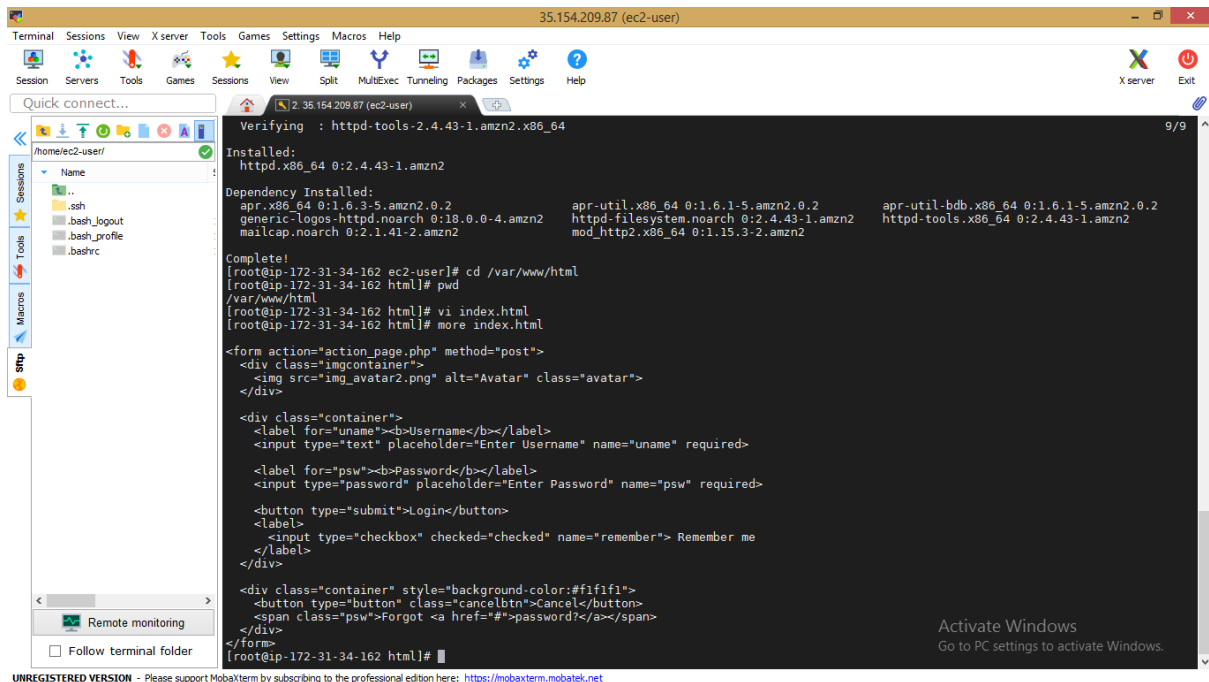
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64
Installed:
httpd.x86_64 0:2.4.43-1.amzn2
Dependency Installed:
apr.x86_64 0:1.6.3-5.amzn2.0.2      apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
generic-logos-httpd.noarch 0:18.0.0-4.amzn2      httpd-filesystem.noarch 0:2.4.43-1.amzn2      httpd-tools.x86_64 0:2.4.43-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2      mod_http2.x86_64 0:1.15.3-2.amzn2
Complete!
[root@ip-172-31-47-155 ec2-user]# cd /var/www/html
[root@ip-172-31-47-155 html]# pwd
/var/www/html
[root@ip-172-31-47-155 html]# vi index.html
[root@ip-172-31-47-155 html]# more index.html
<form action="action_page.php" method="post">
  <div class="imgcontainer">
    
  </div>

  <div class="container">
    <label for="uname"><b>Username</b></label>
    <input type="text" placeholder="Enter Username" name="uname" required>

    <label for="psw"><b>Password</b></label>
    <input type="password" placeholder="Enter Password" name="psw" required>

    <button type="submit">Login</button>
    <input type="checkbox" checked="checked" name="remember"> Remember me
  </div>

  <div class="container" style="background-color:#f1f1f1">
    <button type="button" class="cancelbtn">Cancel</button>
    <span class="psw">Forgot <a href="#">password?</a></span>
  </div>
</form>
[root@ip-172-31-47-155 html]#
```



```
35.154.209.87 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
/home/ec2-user/
Sessions
  Name
  .ssh
  .bash_logout
  .bash_profile
  .bashrc
Tools
Macros
SFTP
Remote monitoring
Follow terminal folder

Verifying : httpd-tools-2.4.43-1.amzn2.x86_64
Installed:
httpd.x86_64 0:2.4.43-1.amzn2
Dependency Installed:
apr.x86_64 0:1.6.3-5.amzn2.0.2      apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
generic-logos-httpd.noarch 0:18.0.0-4.amzn2      httpd-filesystem.noarch 0:2.4.43-1.amzn2      httpd-tools.x86_64 0:2.4.43-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2      mod_http2.x86_64 0:1.15.3-2.amzn2
Complete!
[root@ip-172-31-34-162 ec2-user]# cd /var/www/html
[root@ip-172-31-34-162 html]# pwd
/var/www/html
[root@ip-172-31-34-162 html]# vi index.html
[root@ip-172-31-34-162 html]# more index.html
<form action="action_page.php" method="post">
  <div class="imgcontainer">
    
  </div>

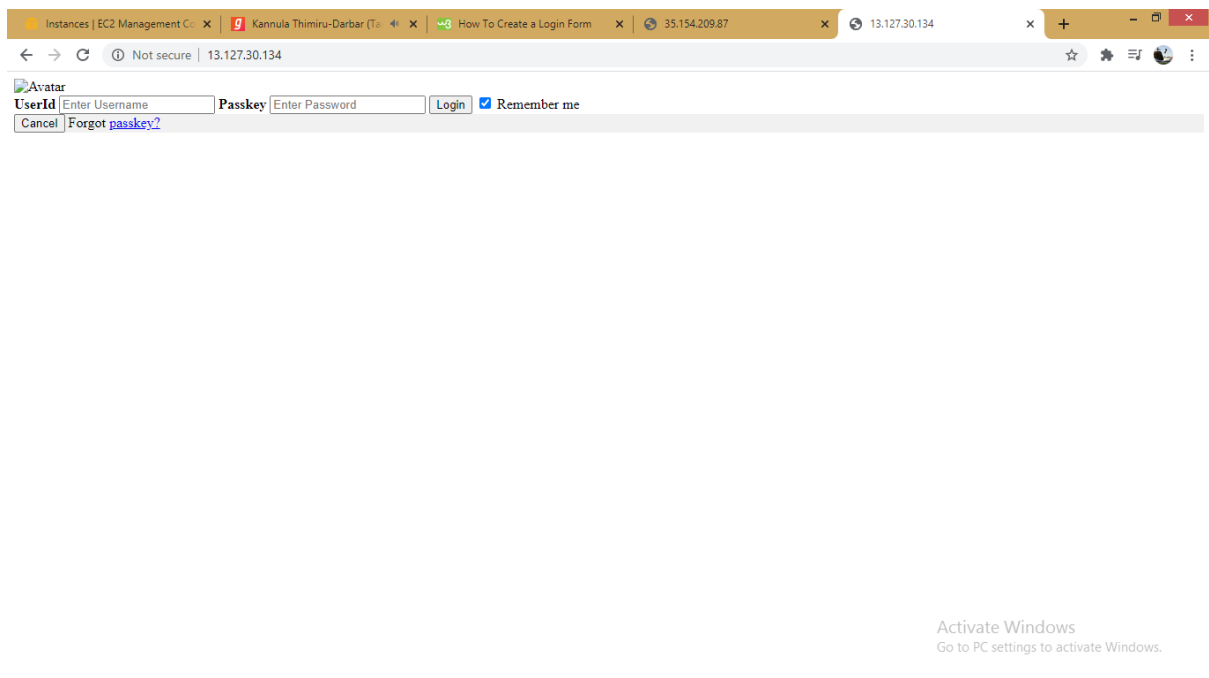
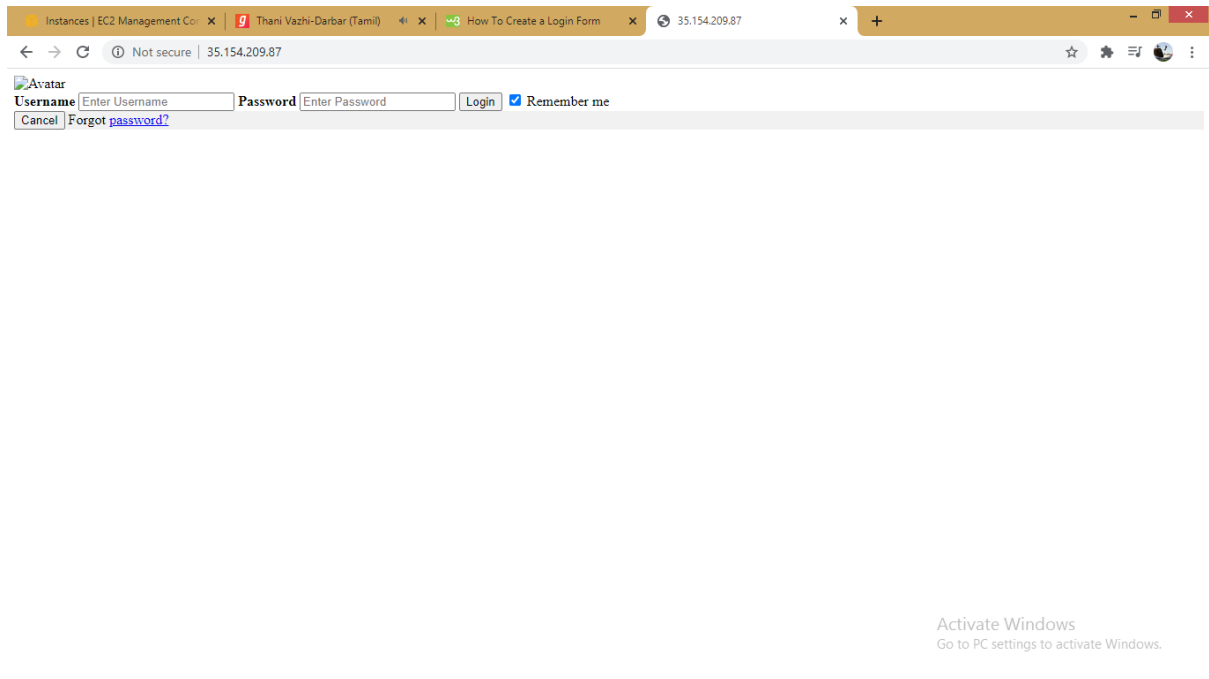
  <div class="container">
    <label for="uname"><b>Username</b></label>
    <input type="text" placeholder="Enter Username" name="uname" required>

    <label for="psw"><b>Password</b></label>
    <input type="password" placeholder="Enter Password" name="psw" required>

    <button type="submit">Login</button>
    <input type="checkbox" checked="checked" name="remember"> Remember me
  </div>

  <div class="container" style="background-color:#f1f1f1">
    <button type="button" class="cancelbtn">Cancel</button>
    <span class="psw">Forgot <a href="#">password?</a></span>
  </div>
</form>
[root@ip-172-31-34-162 html]#
```

Step 4: To verify whether the application is deployed on both servers by copy pasting the public ip of servers into the browser



Step 5: To create Application Load Balancer With above two instances as target

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Load Balancers' page is displayed, showing a table with one load balancer named 'assign'. The 'Basic Configuration' tab is selected, showing the following details:

Property	Value
Name	assign
ARN	arn:aws:elasticloadbalancing:ap-south-1:604676920782:loadbalancer/app/assign/641cd74ecf0b8b98
DNS name	assign-850247024.ap-south-1.elb.amazonaws.com (A Record)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Target Groups' page is displayed, showing a table with one target group named 'groupassign'. The details are as follows:

Property	Value
Name	groupassign
ARN	arn:aws:elasticloadbalancing:ap-south-1:604676920782:targetgroup/groupassign/641cd74ecf0b8b98
Port	80
Protocol	HTTP
Target type	Instance
Load balancer	assign
VPC ID	vpc-f9da3d92

Target groups | EC2 Manager | x 35.154.209.87 x 13.127.30.134 x assign-850247024.ap-south-1.elb x +

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#TargetGroup:targetGroupArn=arn:aws:elasticloadbalancing:ap-south-1:604676920782:targetgroup/...

aws Services Resource Groups KIRAN KUMAR B P Mumbai Support

groupassign Delete

arn:aws:elasticloadbalancing:ap-south-1:604676920782:targetgroup/groupassign/56882c2a79774b87

Basic configuration

Target type instance	Protocol : Port HTTP : 80	VPC vpc-f9da3d92	Load balancer assign
-------------------------	------------------------------	---------------------	-------------------------

Group details Targets Monitoring Tags

Registered targets (2) Deregister Register targets

Filter resources by property or value

<input type="checkbox"/>	Instance ID	Name	Port	Zone	Status	Status details
<input type="checkbox"/>	i-00c7c551e06aeed02	Linux1	80	ap-south-1a	healthy	
<input type="checkbox"/>	i-0c80d65e52d778772	Linux2	80	ap-south-1a	healthy	

Activate Windows
Go to PC settings to activate Windows.

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Step 6: Verification of ELB

Target groups | EC2 Manager | x 35.154.209.87 x 13.127.30.134 x assign-850247024.ap-south-1.elb x +

Not secure assign-850247024.ap-south-1.elb.amazonaws.com

Avatar

User Id Enter Username Passkey Enter Password Login Remember me

Cancel Forgot passkey?

Activate Windows
Go to PC settings to activate Windows.