Project 3

Step1:Create two linux instances,Use the first free linux AMI

Step2:Launch both instances using Mobaxterm

Step3:Host html login webpage on both servers (Refer video for steps) NOTE:Make change in the label of the second sever html configuration

HTML code for login page:

```
<form action="action_page.php" method="post">

<div class="imgcontainer">

<img src="img_avatar2.png" alt="Avatar" class="avatar">  </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>

 <label>

 <input type="checkbox" checked="checked" name="remember"> Remember me
</label>

 </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>
```

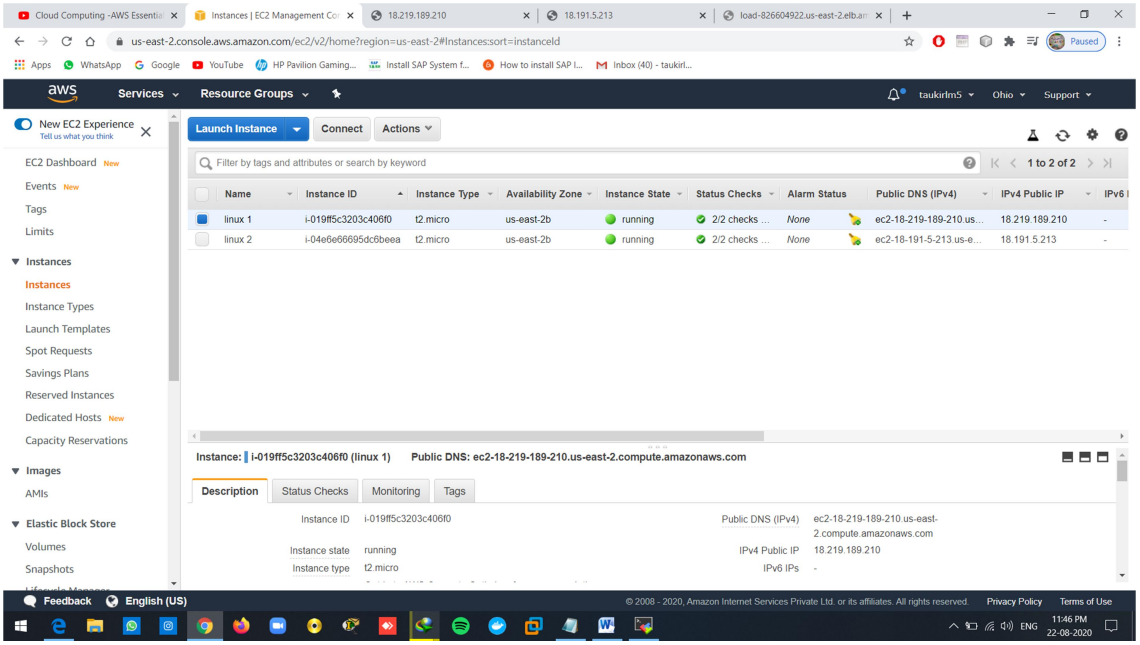
Step4: Check is application is deployed on both servers by copy pasting the public ip of the servers into the browser.

Step5: Create a application Load balancer with the above two instances as targets

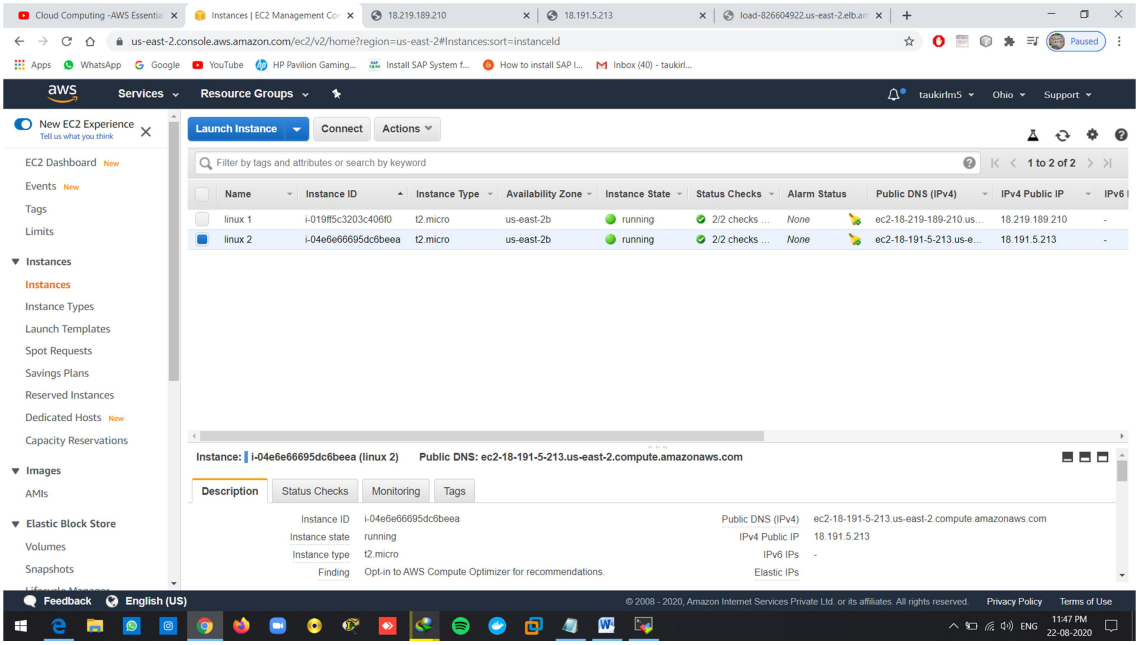
Step6: Check the functioning of ELB

Step 1:

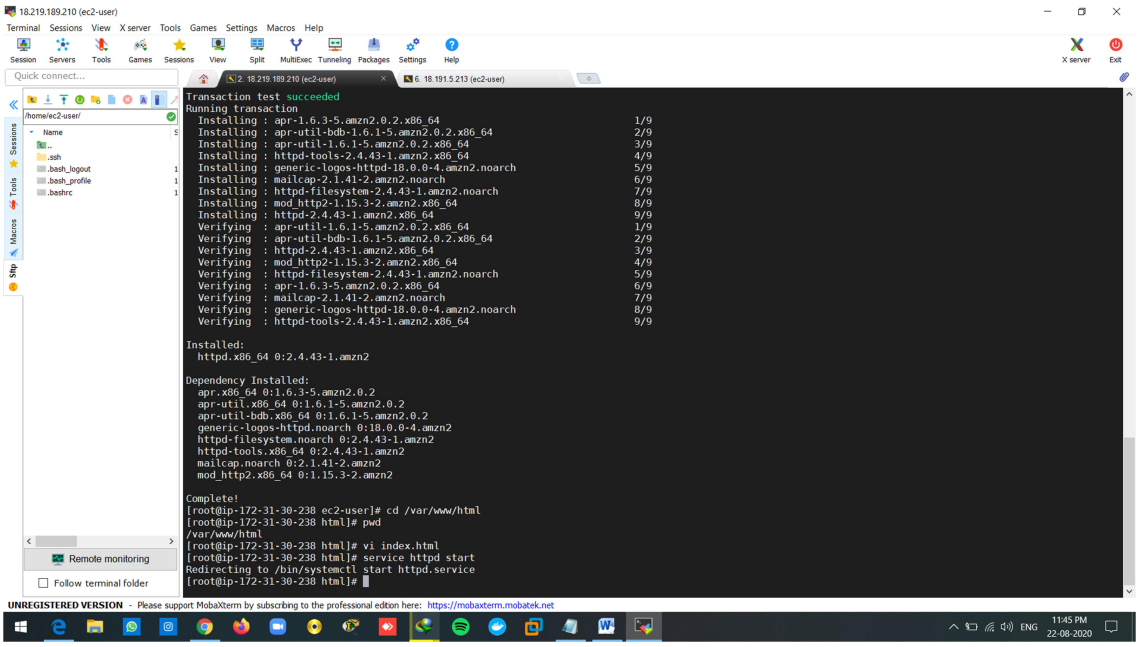
Instance 1 (Linux 1)

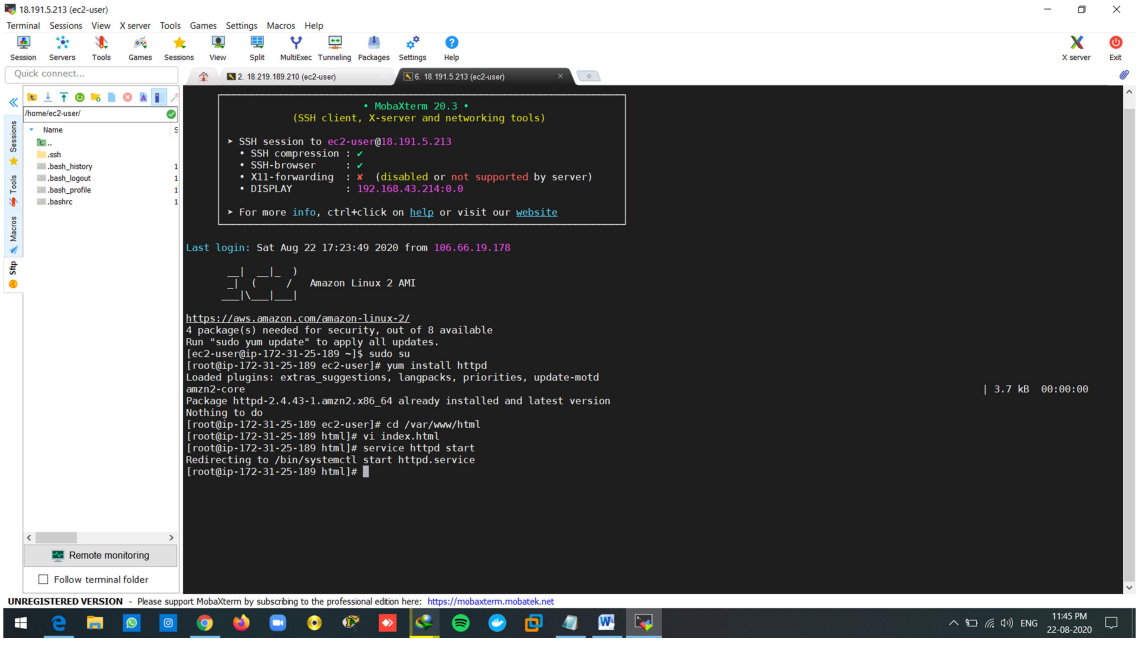


Instance 2(Linux 2)

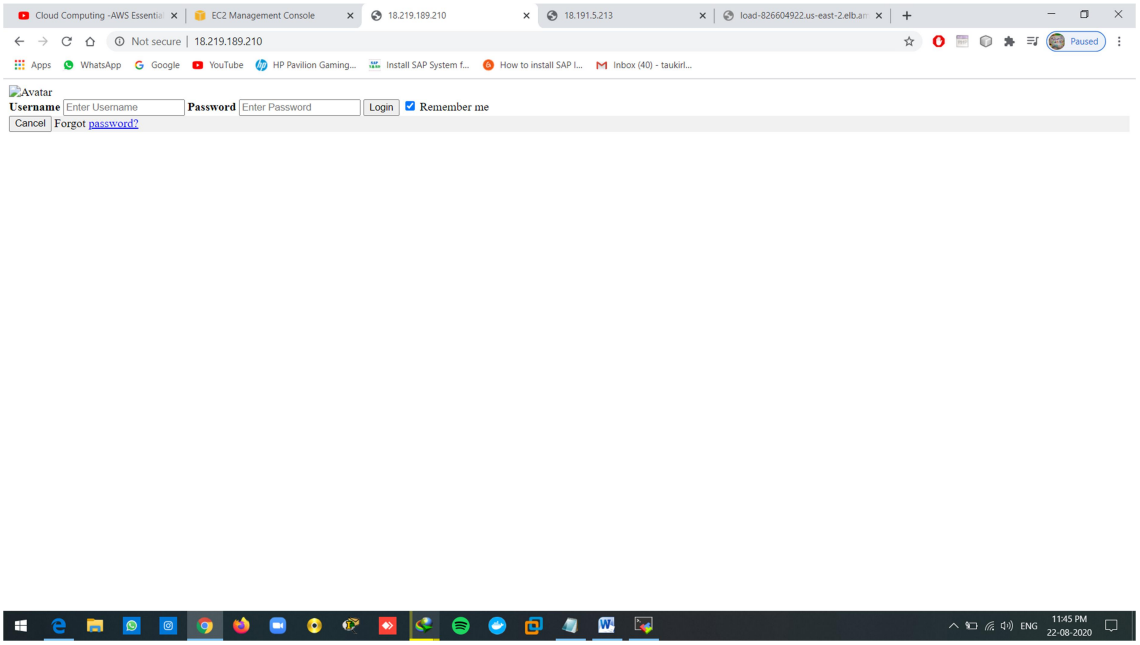


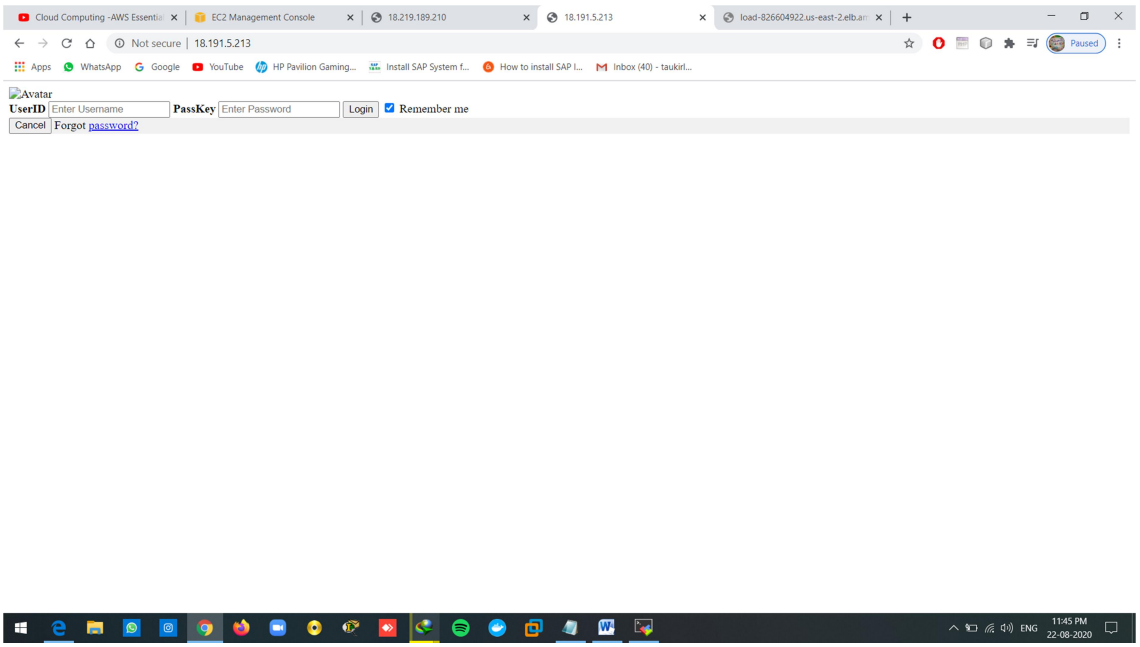
Step 2:


18.219.189.210 (ec2-user)
Transaction test succeeded
Running transaction
Installing : apr-1.6.3-5.amzn2.0.2.x86_64 1/9
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9
Installing : httpd-tools-2.4.43-1.amzn2.x86_64 4/9
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9
Installing : httpd-filesystem-2.4.43-1.amzn2.noarch 7/9
Installing : mod_http2-1.15.3-2.amzn2.x86_64 8/9
Installing : httpd-2.4.43-1.amzn2.x86_64 9/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : httpd-2.4.43-1.amzn2.x86_64 3/9
Verifying : mod_http2-1.15.3-2.amzn2.x86_64 4/9
Verifying : httpd-filesystem-2.4.43-1.amzn2.noarch 5/9
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64 6/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 8/9
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64 9/9
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-172-31-30-238 ec2-user]# cd /var/www/html
[root@ip-172-31-30-238 html]# pwd
/var/www/html
[root@ip-172-31-30-238 html]# vi index.html
[root@ip-172-31-30-238 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-30-238 html]#
Remote monitoring
Follow terminal folder
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net

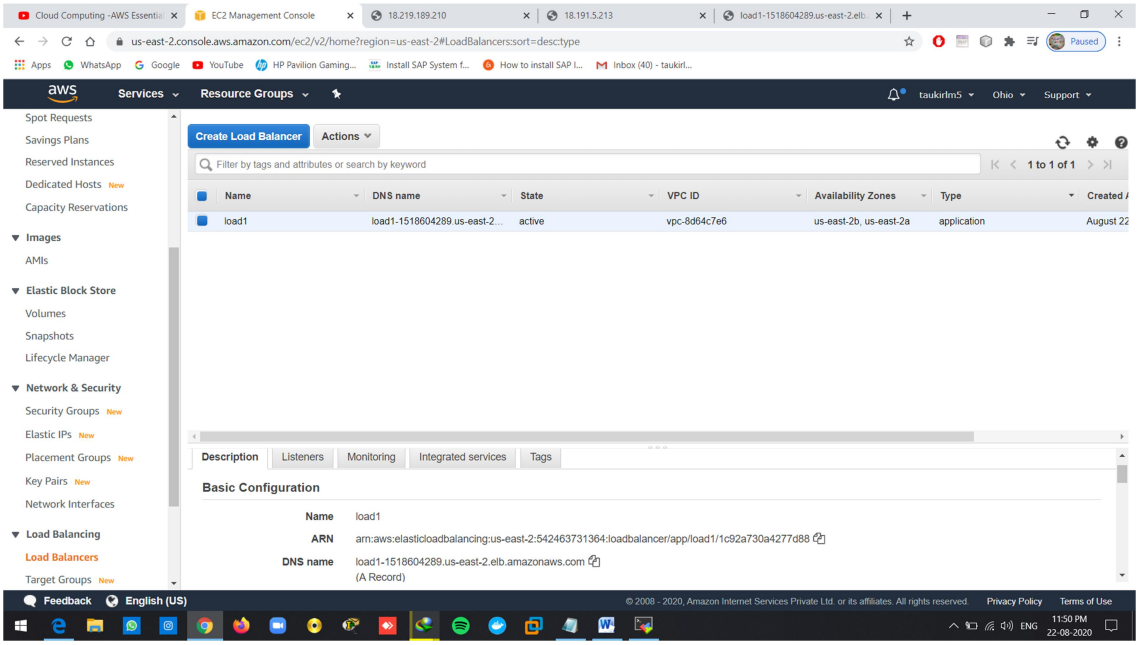

18.191.5.213 (ec2-user)
• MobaXterm 20.3 •
(SSH client, X-server and networking tools)
➤ SSH session to ec2-user@18.191.5.213
• SSH compression : ✓
• SSH-browser : ✓
• X11-forwarding : ✗ (disabled or not supported by server)
• DISPLAY : 192.168.43.214:0.0
➤ For more info, ctrl+click on help or visit our website
Last login: Sat Aug 22 17:23:49 2020 from 106.66.19.178
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-25-189 ~]$ sudo su
[root@ip-172-31-25-189 ec2-user]# yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
Package httpd-2.4.43-1.amzn2.x86_64 already installed and latest version
Nothing to do
[root@ip-172-31-25-189 ec2-user]# cd /var/www/html
[root@ip-172-31-25-189 html]# vi index.html
[root@ip-172-31-25-189 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-25-189 html]#
Remote monitoring
Follow terminal folder
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net

Step 3 & 4:

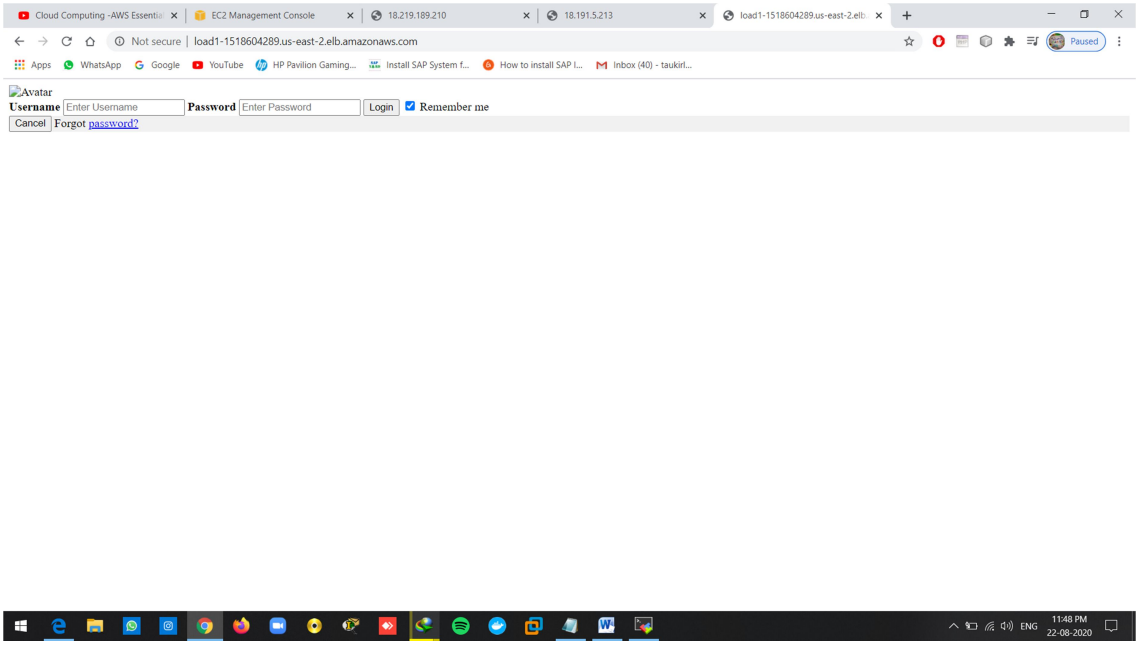

Cloud Computing -AWS Essentia
EC2 Management Console
18.219.189.210
18.191.5.213
load-826604922.us-east-2.elb.am
Not secure | 18.219.189.210
Paused
Apps
WhatsApp
Google
YouTube
HP Pavilion Gaming...
Install SAP System f...
How to install SAP I...
Inbox (40) - taukirl...
Avatar
Username
Enter Username
Password
Enter Password
Login
Remember me
Cancel
Forgot password?
ENG
11:45 PM
22-08-2020

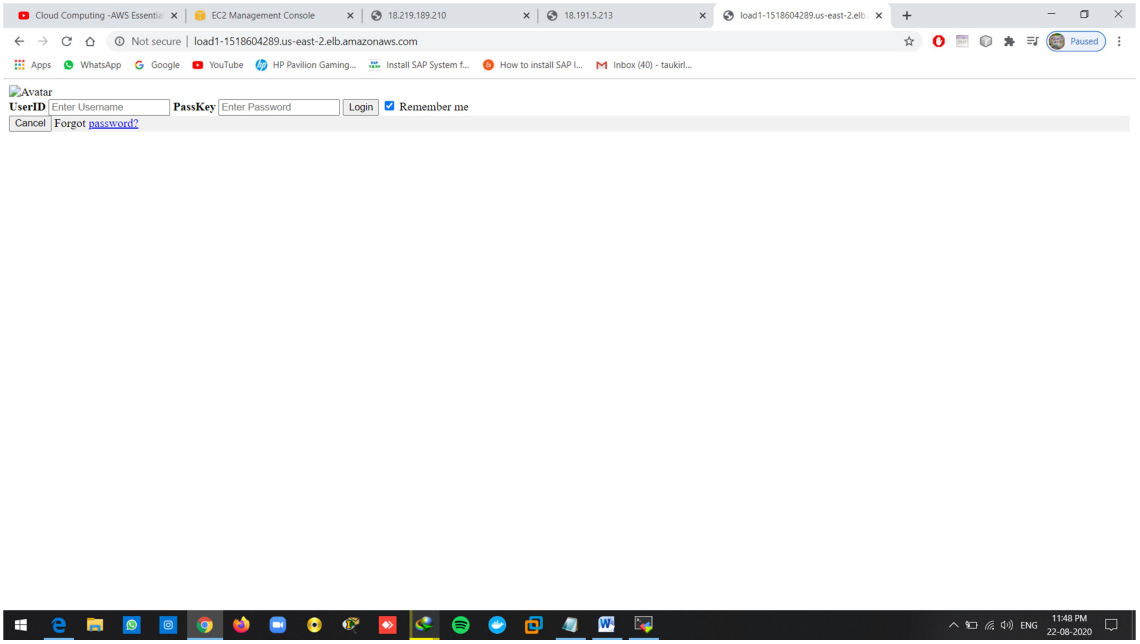

Cloud Computing -AWS Essentia
EC2 Management Console
18.219.189.210
18.191.5.213
load-826604922.us-east-2.elb.am
Not secure | 18.191.5.213
Paused
Apps
WhatsApp
Google
YouTube
HP Pavilion Gaming...
Install SAP System f...
How to install SAP I...
Inbox (40) - taukirl...
Avatar
UserID
Enter Username
PassKey
Enter Password
Login
Remember me
Cancel
Forgot password?
ENG
11:45 PM
22-08-2020

Step 5:


Create Load Balancer
Actions
Name
DNS name
State
VPC ID
Availability Zones
Type
load1
load1-1518604289.us-east-2...
active
vpc-8d64c7e6
us-east-2b, us-east-2a
application
Description
Listeners
Monitoring
Integrated services
Tags
Basic Configuration
Name load1
ARN arn:aws:elasticloadbalancing:us-east-2:542463731364:loadbalancer/app/load1/1c92a730a4277d88
DNS name load1-1518604289.us-east-2.elb.amazonaws.com
(A Record)

Step 6:


Not secure | load1-1518604289.us-east-2.elb.amazonaws.com
Avatar
Username Enter Username Password Enter Password Login Remember me
Cancel Forgot password?



Submitted By : Taokeer Alam