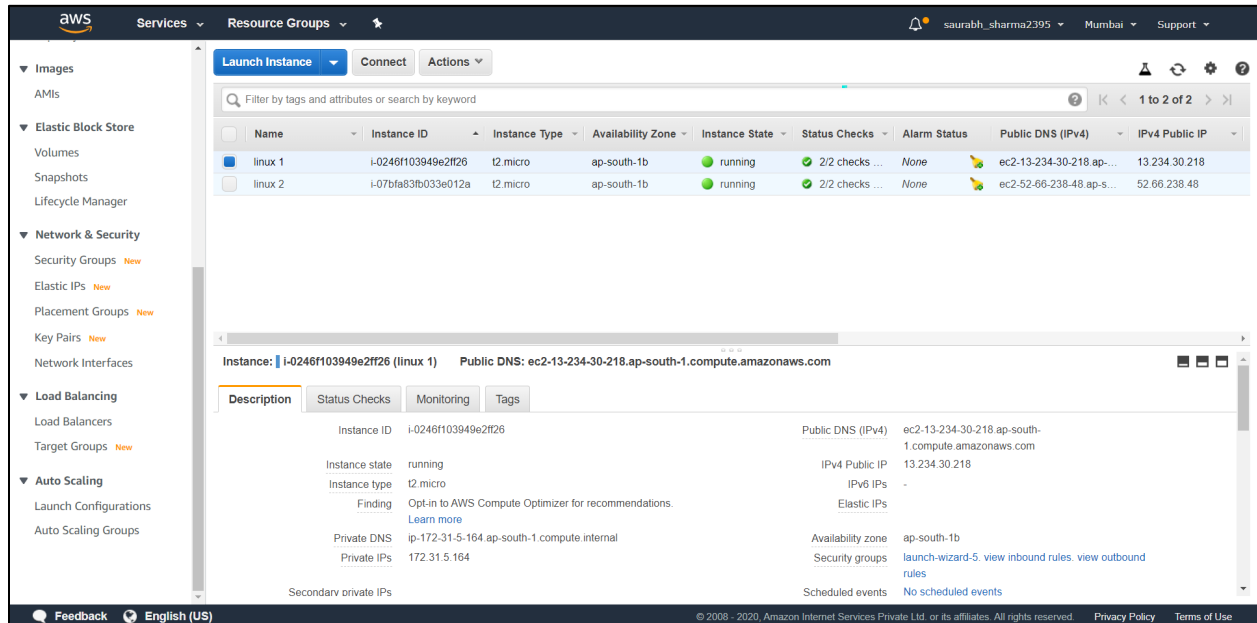
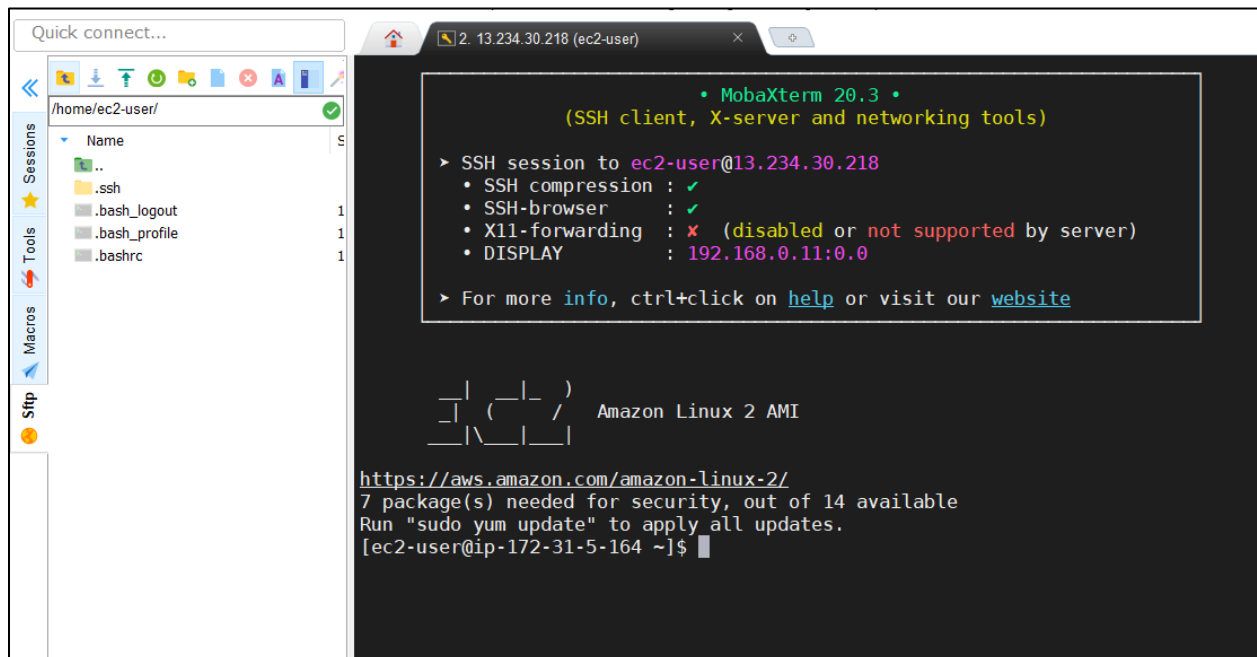


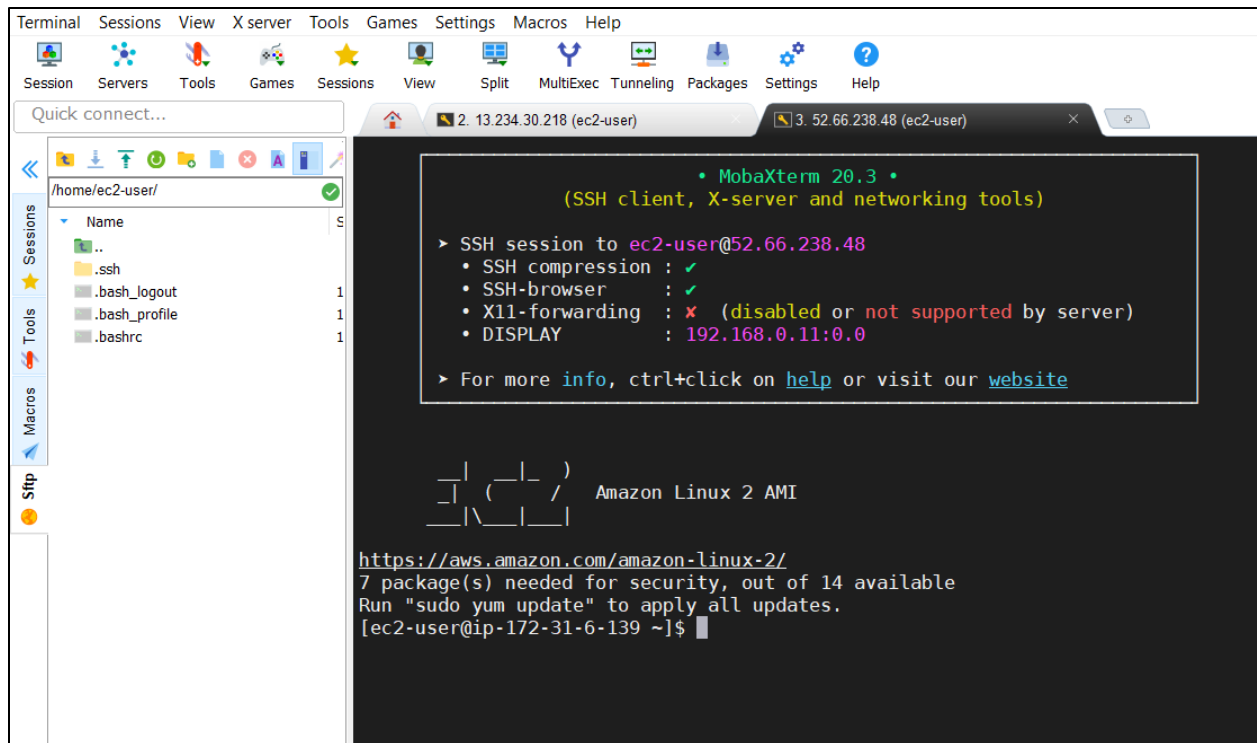
Project 3

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

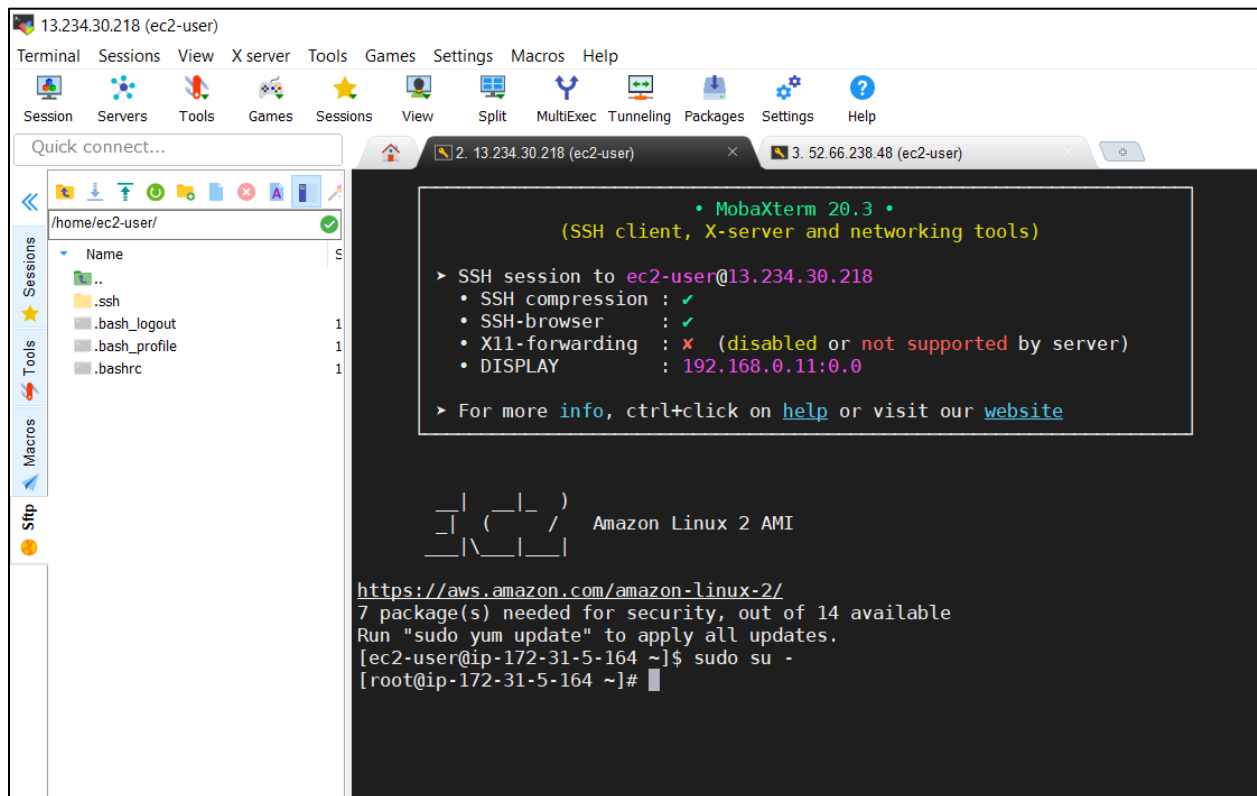


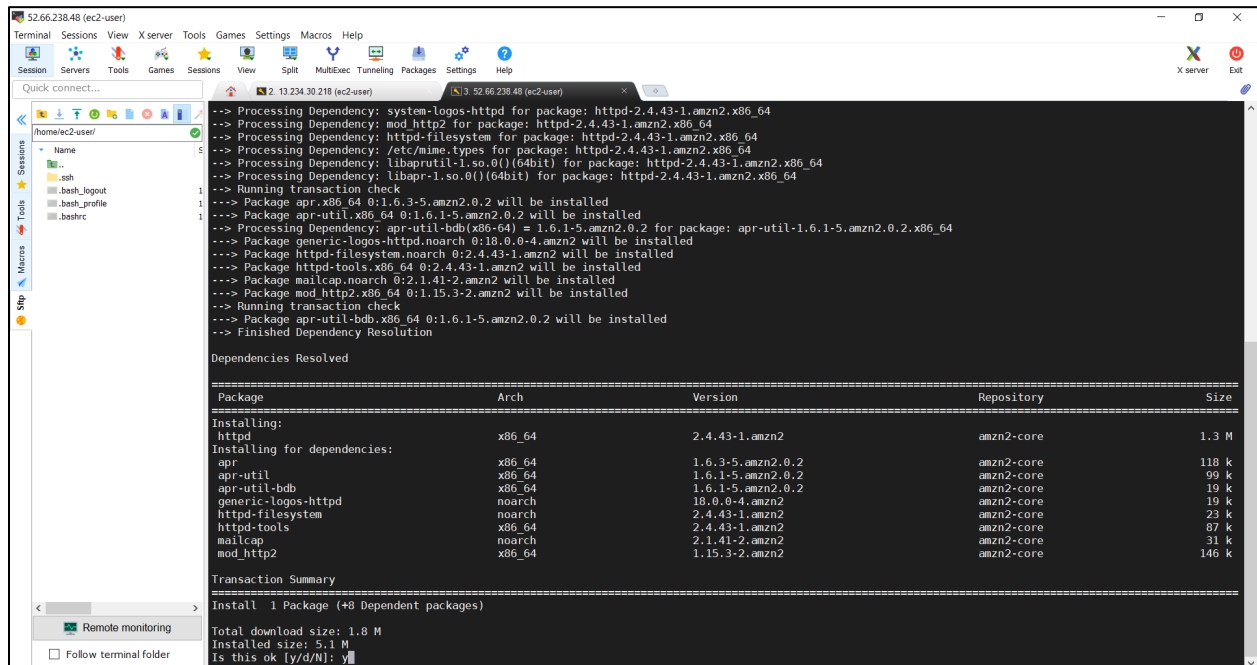
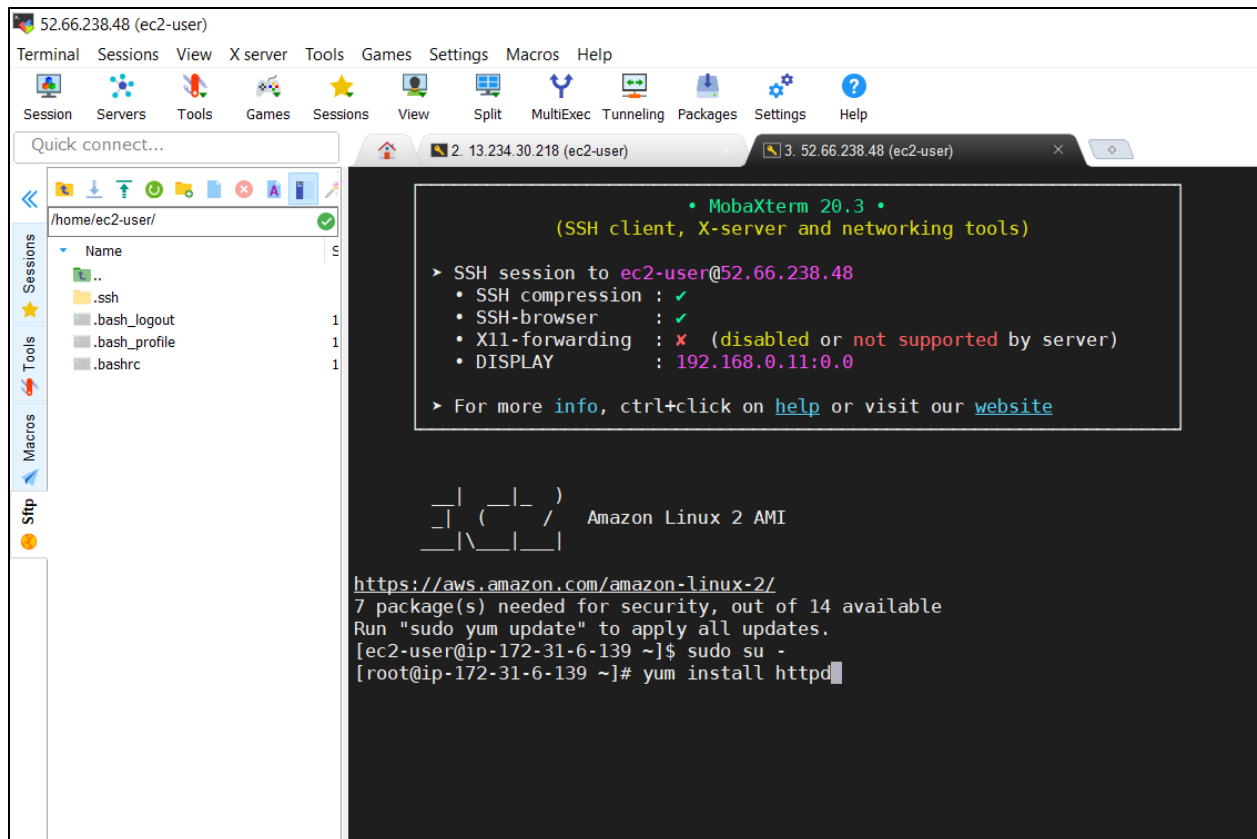
Step2: Launch both instances using MobaXterm.

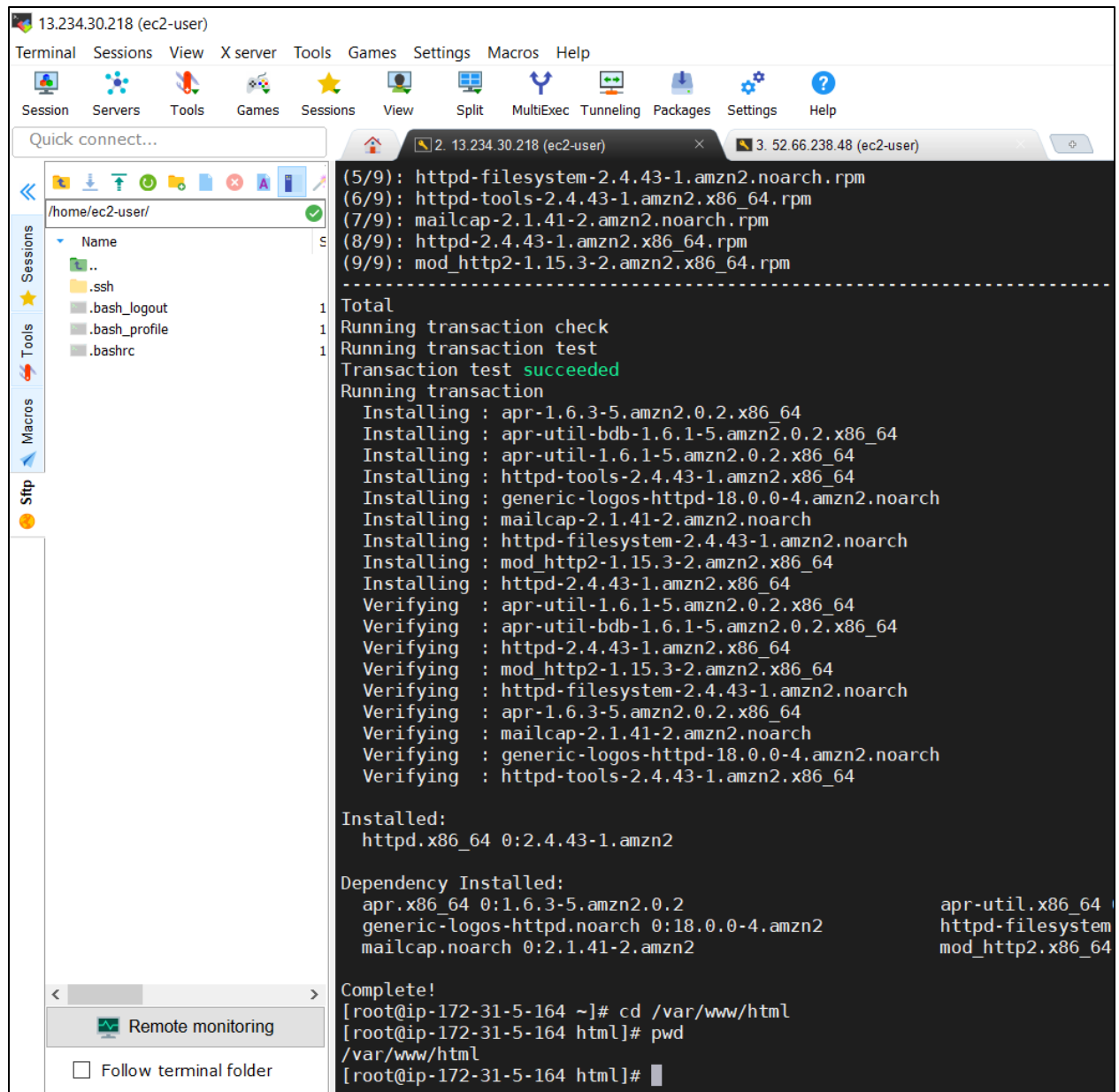




Step3: Host html login webpage on both Linux instances.







1st Machine:

13.234.30.218 (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

Stp

Remote monitoring

Follow terminal folder

```
Verifying : mailcap-2.1.41-2.amzn2.noarch
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
generic-logos-httpd.noarch 0:18.0.0-4.amzn2  httpd filesystem.noar
mailcap.noarch 0:2.1.41-2.amzn2          mod_http2.x86_64 0:1.

Complete!
[root@ip-172-31-5-164 ~]# cd /var/www/html
[root@ip-172-31-5-164 html]# pwd
/var/www/html
[root@ip-172-31-5-164 html]# vi index.htm
-bash: vi: command not found
[root@ip-172-31-5-164 html]# vi index.html
-bash: vi: command not found
[root@ip-172-31-5-164 html]# vi index.html
[root@ip-172-31-5-164 html]# vi index.html
[root@ip-172-31-5-164 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>
<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>
[root@ip-172-31-5-164 html]# service httpd start
```

2nd Machine

52.66.238.48 (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

Stp

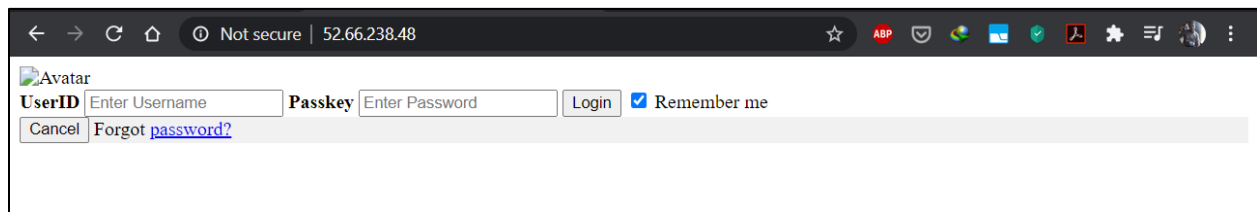
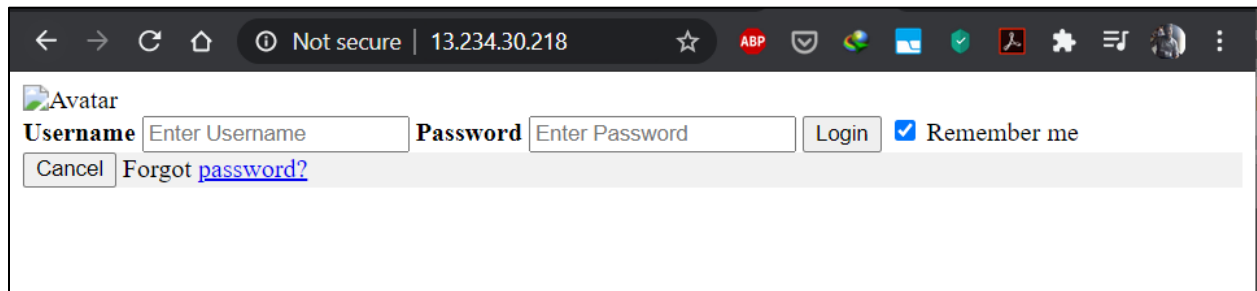
Remote monitoring

Follow terminal folder

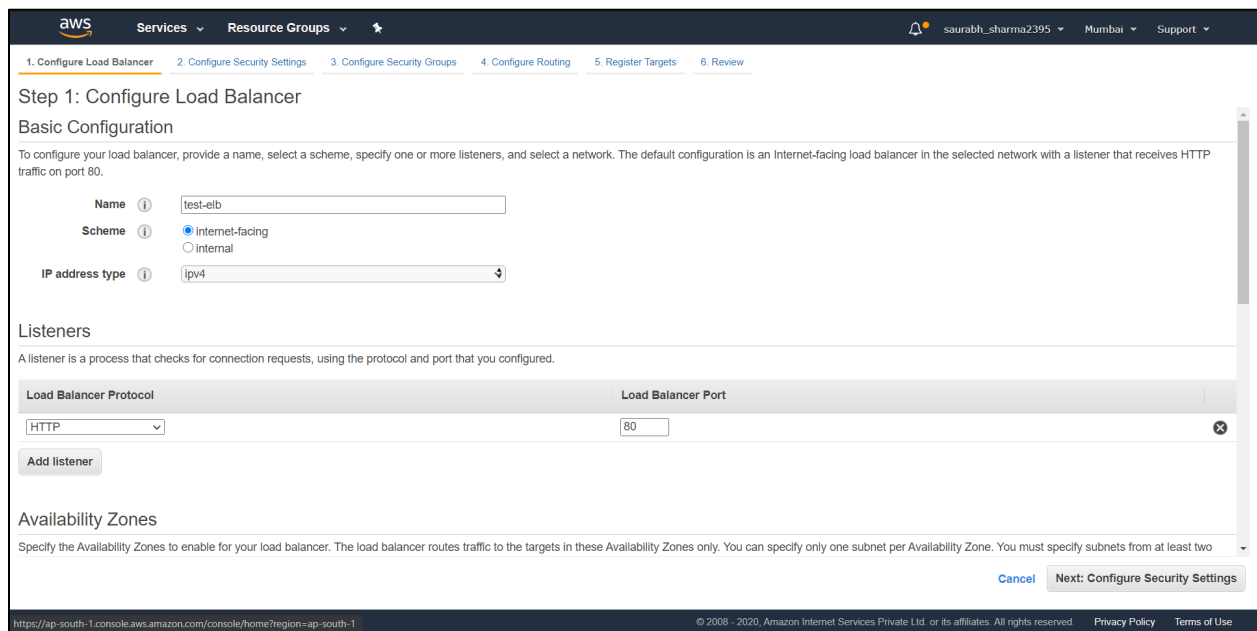
```
[root@ip-172-31-6-139 ~]# cd /var/www/html
[root@ip-172-31-6-139 html]# pwd
/var/www/html
[root@ip-172-31-6-139 html]# vi index.html
[root@ip-172-31-6-139 html]# more index.html
<form action="action_page.php" method="post">
<div class="imgcontainer">

</div>
<div class="container">
<label for="uname"><b>UserID</b></label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw"><b>Passkey</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>
[root@ip-172-31-6-139 html]# service httpd start
```

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



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



aws

ServicesResource Groups

sa^{urabh_sharma2395}MumbaiSupport

1. Configure Load Balancer2. Configure Security Settings3. Configure Security Groups4. Configure Routing5. Register Targets6. Review

Step 4: Configure Routing

Your load balancer routes requests to the targets in this target group using the protocol and port that you specify, and performs health checks on the targets using these health check settings. Note that each target group can be associated with only one load balancer.

Target group

Target group ⓘ

New target group

Name ⓘ

test-newtarget-elb

Target type ⓘ

☒ Instance☐ IP☐ Lambda function

Protocol ⓘ

HTTP

Port ⓘ

80

Health checks

Protocol ⓘ

HTTP

Path ⓘ

/

Advanced health check settings

Port ⓘ

☒ traffic port☐ override

Cancel

Previous

Next: Register Targets

aws

ServicesResource Groups

sa^{urabh_sharma2395}MumbaiSupport

1. Configure Load Balancer2. Configure Security Settings3. Configure Security Groups4. Configure Routing5. Register Targets6. Review

Step 5: Register Targets

Register targets with your target group. If you register a target in an enabled Availability Zone, the load balancer starts routing requests to the targets as soon as the registration process completes and the target passes the initial health checks.

Registered targets

To deregister instances, select one or more registered instances and then click Remove.

Remove

	Instance	Name	Port	State	Security groups	Zone
<input type="checkbox"/>	i-0246f103949e2ff26	linux 1	80	● running	launch-wizard-5	ap-south-1b
<input type="checkbox"/>	i-07bfa83fb033e012a	linux 2	80	● running	launch-wizard-5	ap-south-1b

Instances

To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

Add to registered

on port 80

Q Search Instances

X

	Instance	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
<input type="checkbox"/>	i-0246f103949e2ff26	linux 1	● running	launch-wizard-5	ap-south-1b	subnet-bfc5b6f3	172.31.0.0/20
<input type="checkbox"/>	i-07bfa83fb033e012a	linux 2	● running	launch-wizard-5	ap-south-1b	subnet-bfc5b6f3	172.31.0.0/20

Cancel

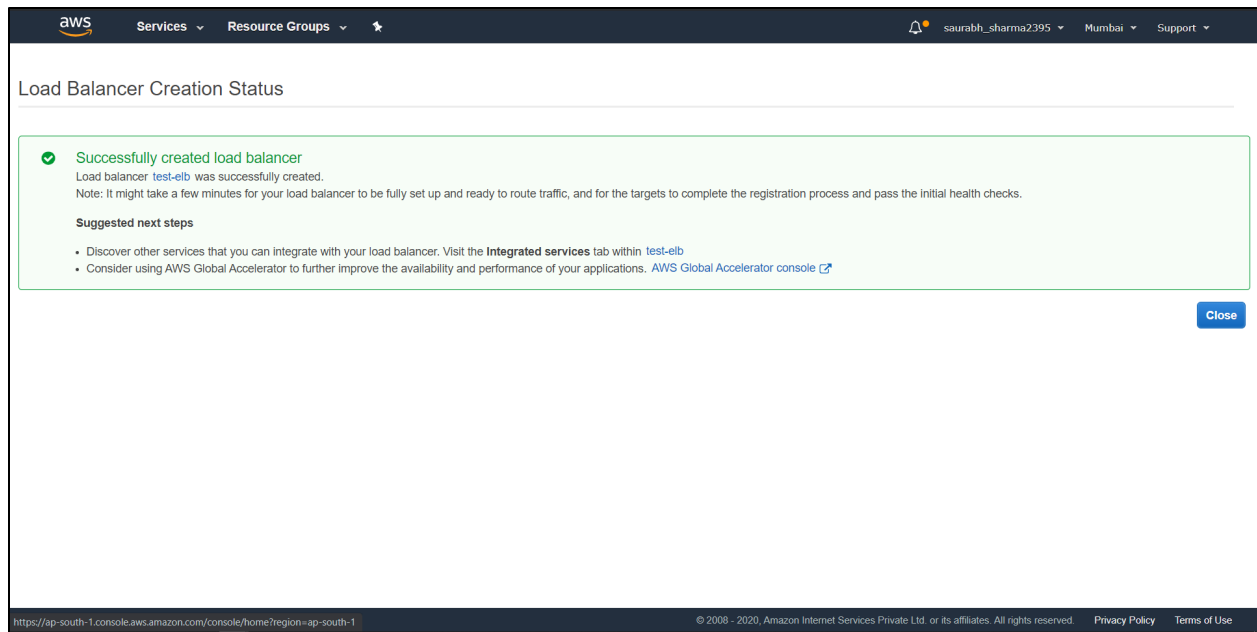
Previous

Next: Review

Feedback

English (US)

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Step 6: Check the functioning of ELB

