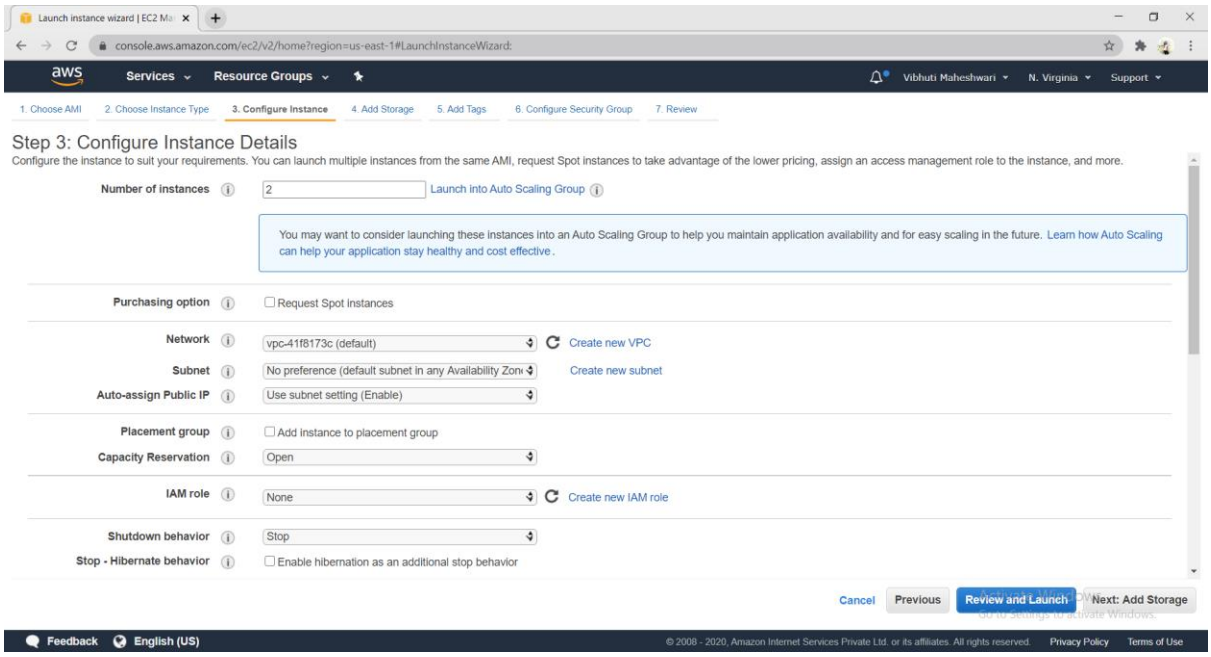
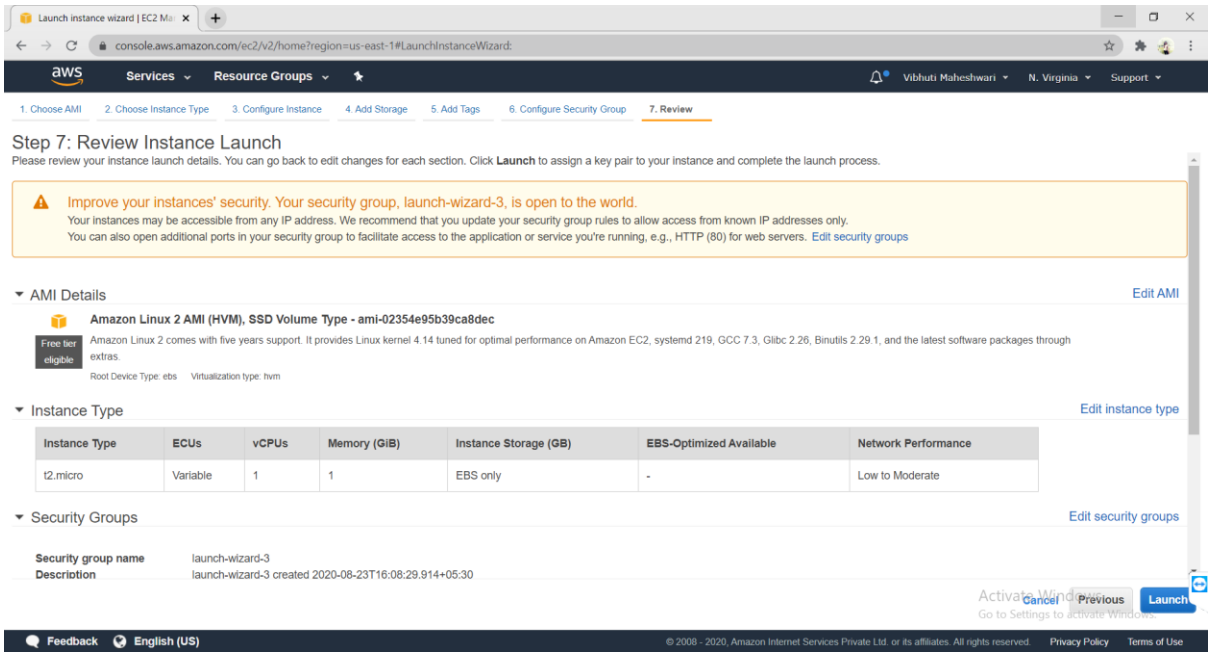
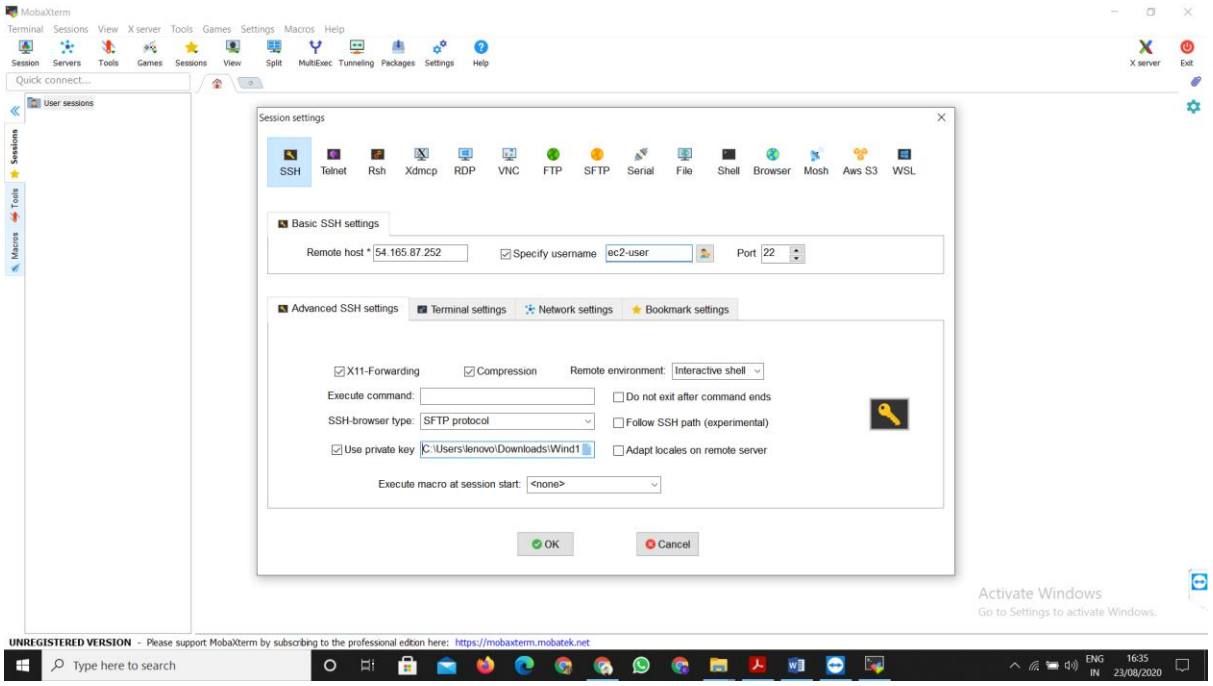
Project 3

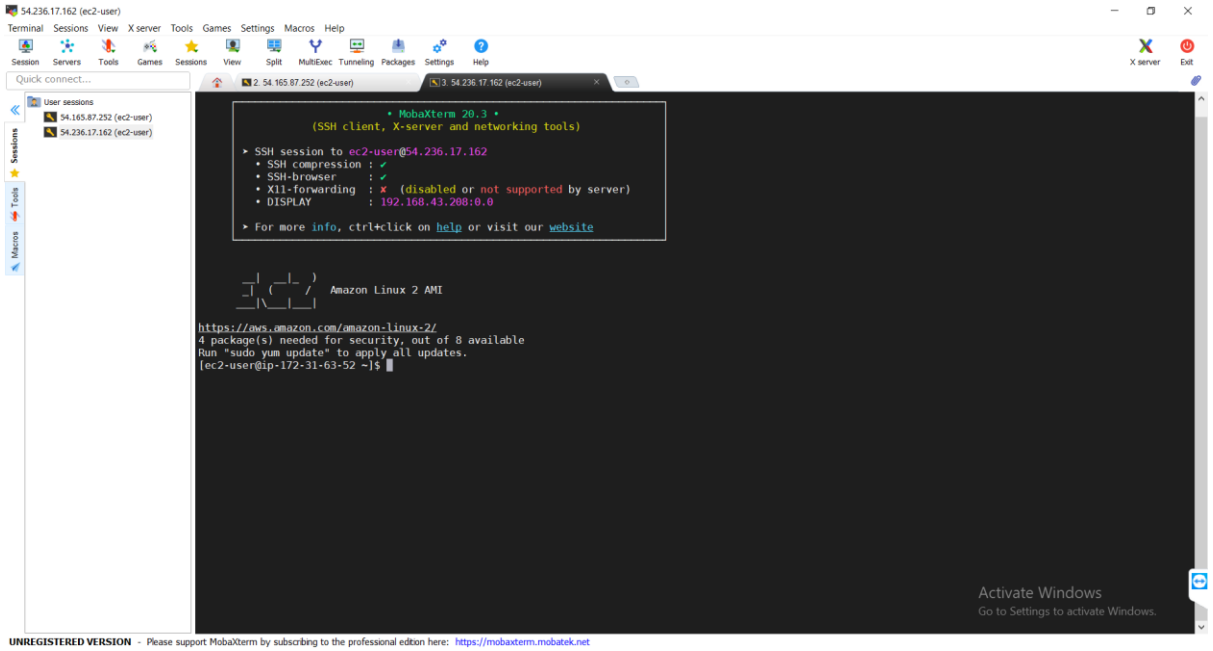
Step1:Create two linux instances,Use the first free linux AMI



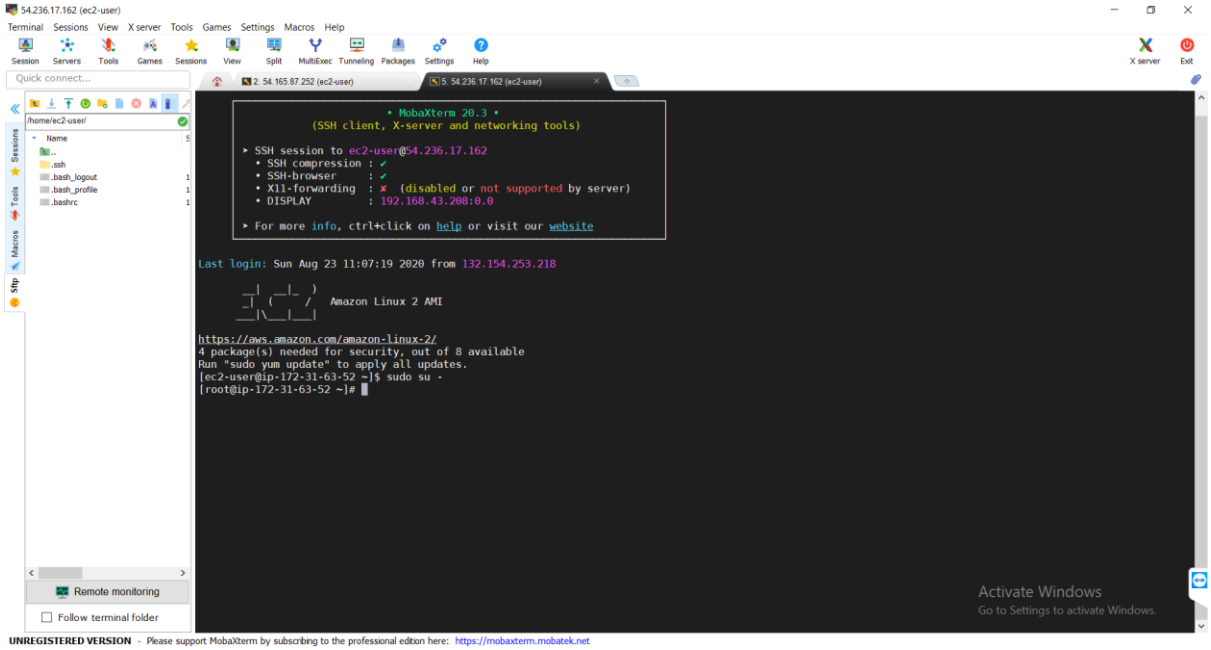


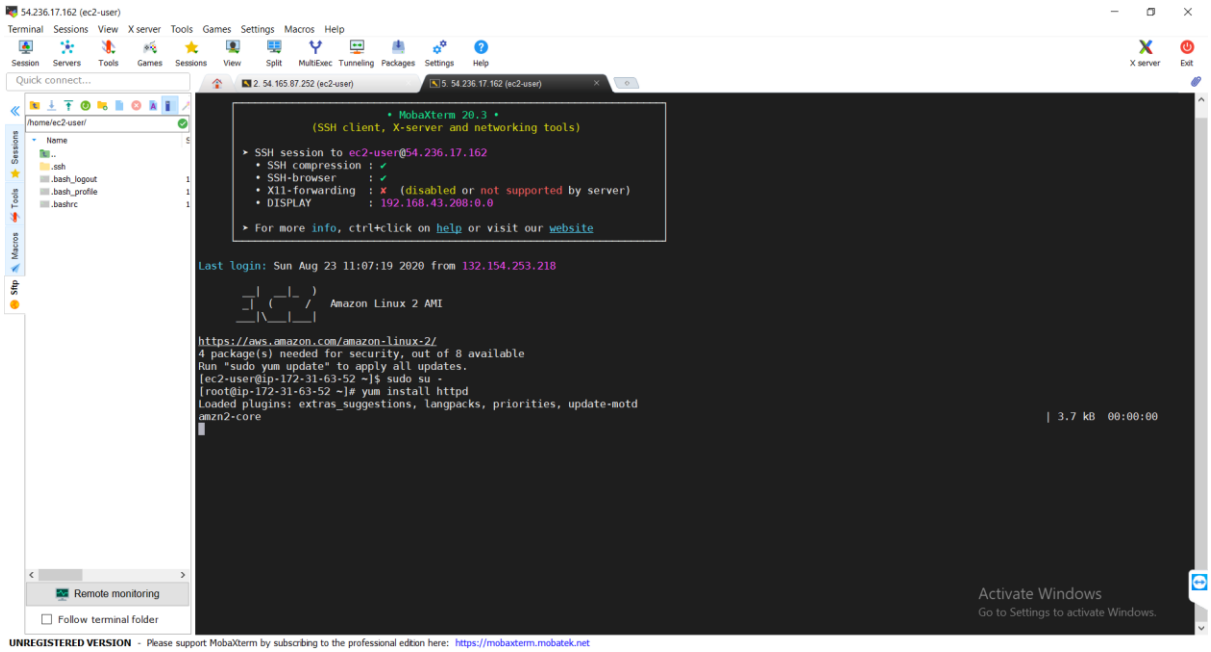
Step2:Launch both instances using Mobaxterm

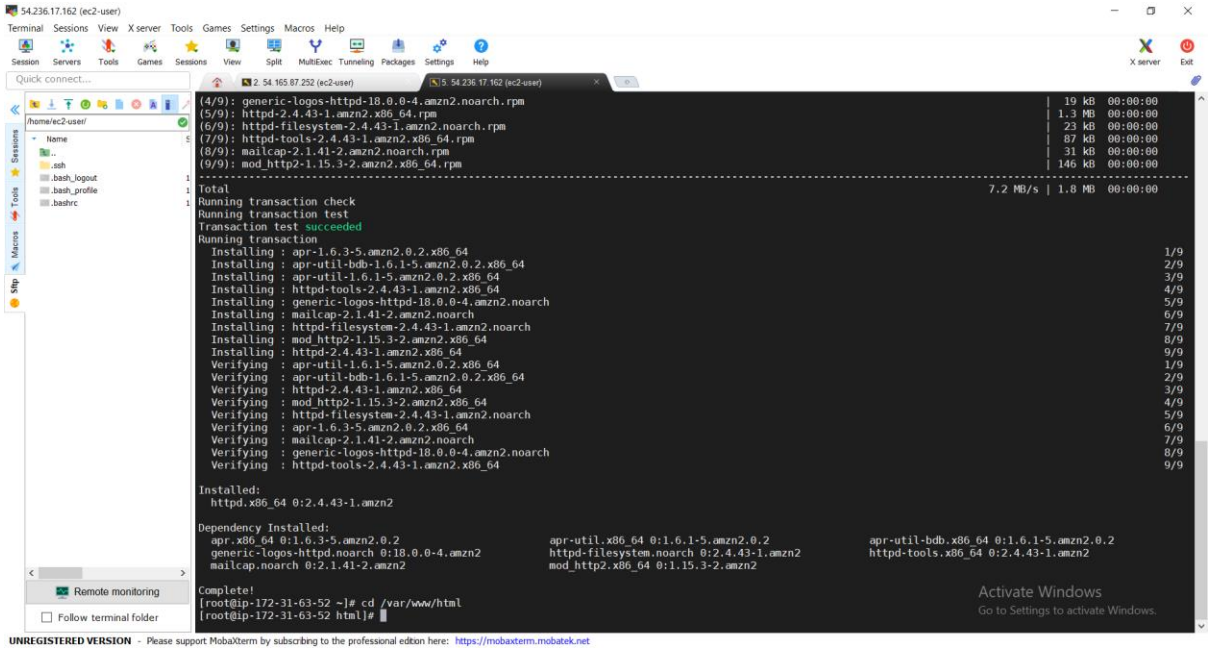


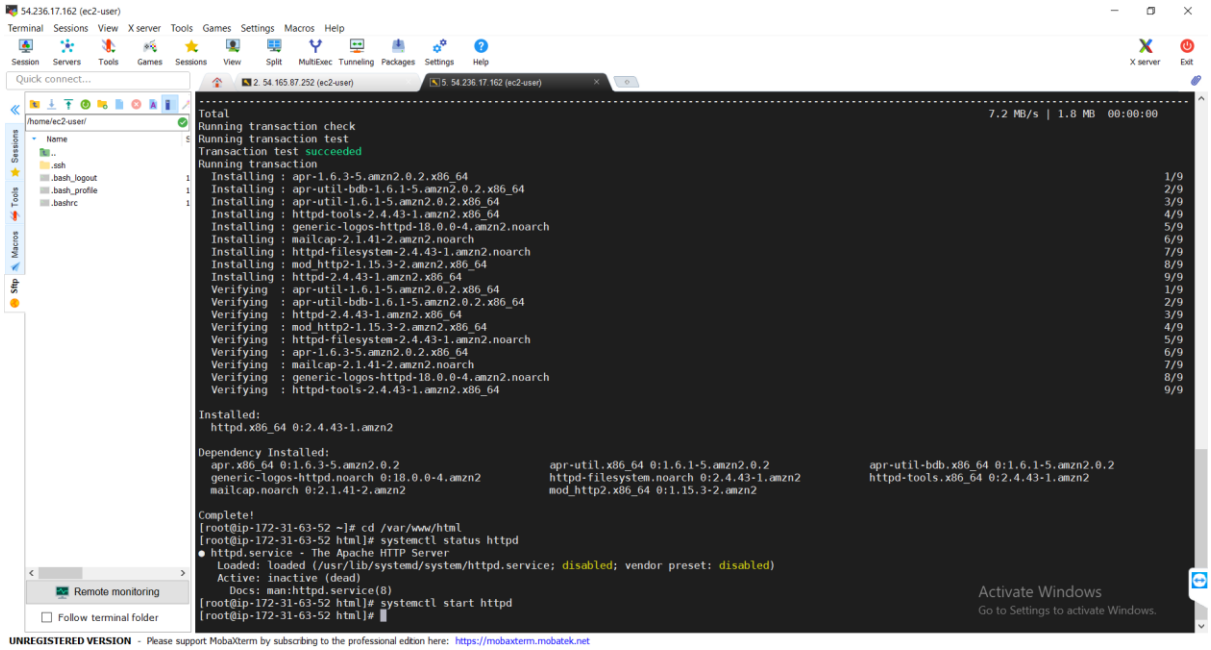


Step4:Host html login webpage on both servers






54.236.17.162 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit
Quick connect...
2. 54.165.87.252 (ec2-user)
5. 54.236.17.162 (ec2-user)
/home/ec2-user/
Name
.ssh
.bash_logout
.bash_profile
.bashrc
Sessions Tools Macros Sftp
Remote monitoring
Follow terminal folder
(4/9): generic-logos-httpd-18.0.0-4.amzn2.noarch.rpm | 19 kB 00:00:00
(5/9): httpd-2.4.43-1.amzn2.x86_64.rpm | 1.3 MB 00:00:00
(6/9): httpd-filesystem-2.4.43-1.amzn2.noarch.rpm | 23 kB 00:00:00
(7/9): httpd-tools-2.4.43-1.amzn2.x86_64.rpm | 87 kB 00:00:00
(8/9): mailcap-2.1.41-2.amzn2.noarch.rpm | 31 kB 00:00:00
(9/9): mod_http2-1.15.3-2.amzn2.x86_64.rpm | 146 kB 00:00:00
Total 7.2 MB/s | 1.8 MB 00:00:00
Running transaction check
Running transaction test
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-172-31-63-52 ~]# cd /var/www/html
[root@ip-172-31-63-52 html]#
Activate Windows
Go to Settings to activate Windows.
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net


54.236.17.162 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit
Quick connect...
2. 54.165.87.252 (ec2-user)
5. 54.236.17.162 (ec2-user)
/home/ec2-user/
Name
.ssh
.bash_logout
.bash_profile
.bashrc
Sessions Tools Macros Sftp
Remote monitoring
Follow terminal folder
Total 7.2 MB/s | 1.8 MB 00:00:00
Running transaction check
Running transaction test
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
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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
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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-172-31-63-52 ~]# cd /var/www/html
[root@ip-172-31-63-52 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
Active: inactive (dead)
Docs: man:httpd.service(8)
[root@ip-172-31-63-52 html]# systemctl start httpd
[root@ip-172-31-63-52 html]#
Activate Windows
Go to Settings to activate Windows.
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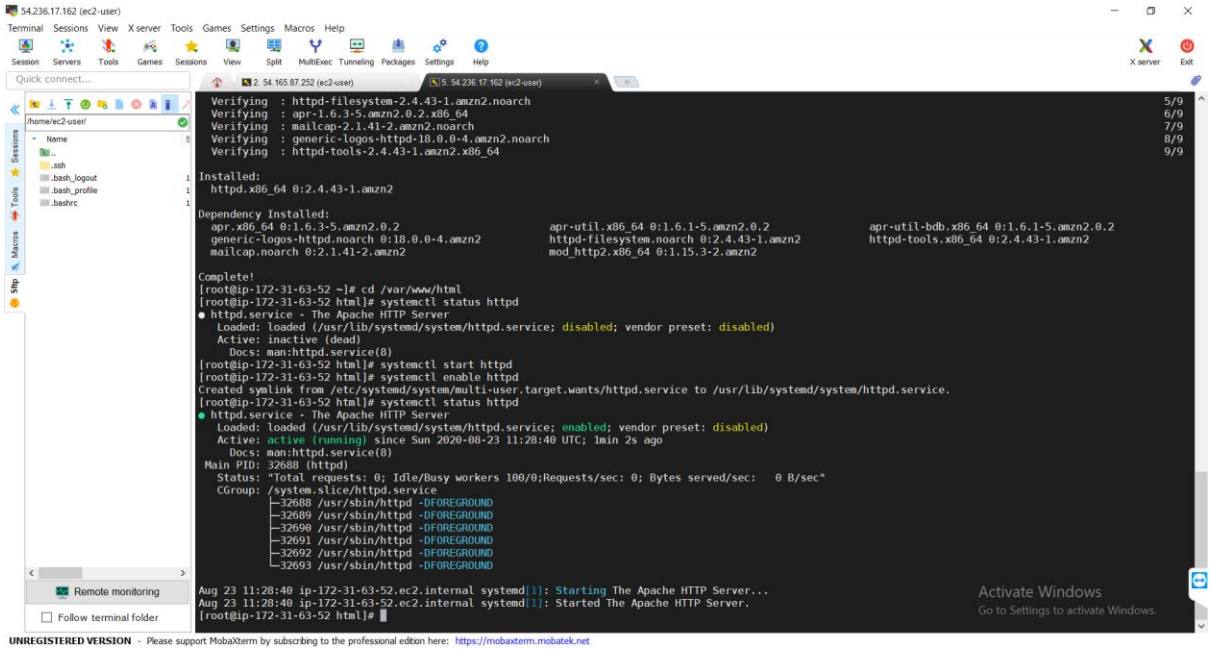
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Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
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5. 54.236.17.162 (ec2-user)
/home/ec2-user/
Name
.ssh
.bash_logout
.bash_profile
.bashrc
Sessions Tools Macros Sftp
Remote monitoring
Follow terminal folder
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!
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[root@ip-172-31-63-52 html]# systemctl status httpd
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Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
Active: inactive (dead)
Docs: man:httpd.service(8)
[root@ip-172-31-63-52 html]# systemctl start httpd
[root@ip-172-31-63-52 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-63-52 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
Active: active (running) since Sun 2020-08-23 11:28:40 UTC; 1min 2s ago
Docs: man:httpd.service(8)
Main PID: 32688 (httpd)
Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
CGroup: /system.slice/httpd.service
├─32688 /usr/sbin/httpd -DFOREGROUND
├─32689 /usr/sbin/httpd -DFOREGROUND
├─32690 /usr/sbin/httpd -DFOREGROUND
├─32691 /usr/sbin/httpd -DFOREGROUND
├─32692 /usr/sbin/httpd -DFOREGROUND
└─32693 /usr/sbin/httpd -DFOREGROUND
Aug 23 11:28:40 ip-172-31-63-52.ec2.internal systemd[1]: Starting The Apache HTTP Server...
Aug 23 11:28:40 ip-172-31-63-52.ec2.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-63-52 html]#
Activate Windows
Go to Settings to activate Windows.
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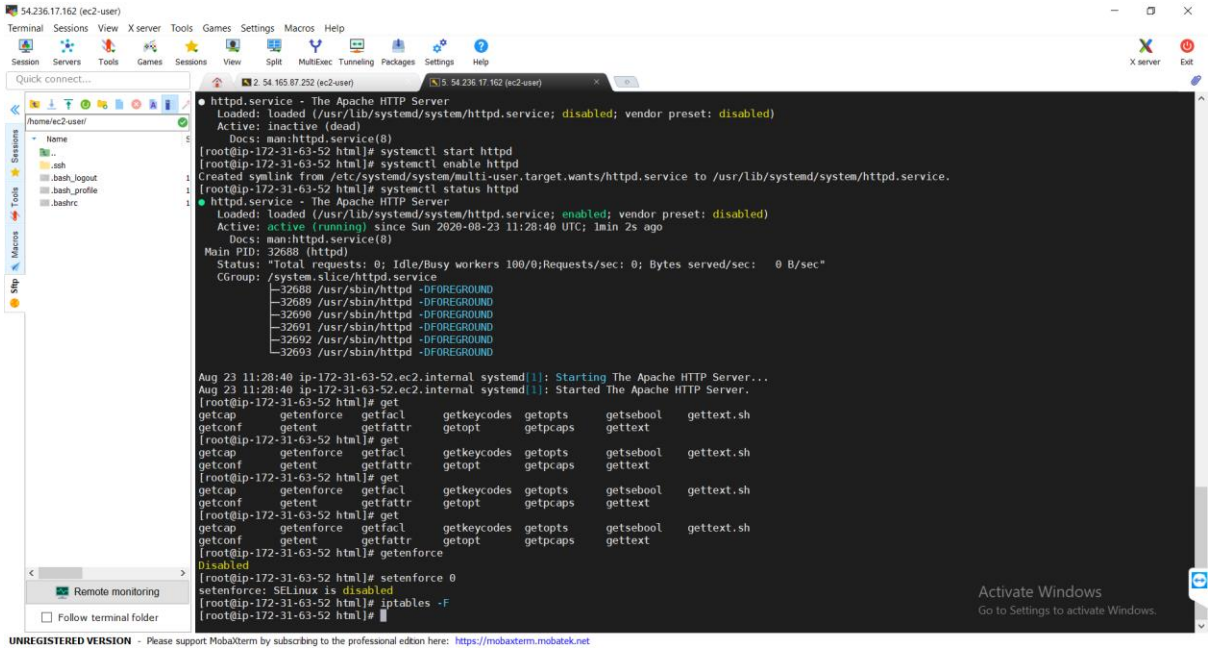
54.236.17.162 (ec2-user)
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Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 54.165.87.252 (ec2-user)
5. 54.236.17.162 (ec2-user)
/home/ec2-user/
Name
.ssh
.bash_logout
.bash_profile
.bashrc
Sessions Tools Macros Sftp
Remote monitoring
Follow terminal folder
● httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
Active: inactive (dead)
Docs: man:httpd.service(8)
[root@ip-172-31-63-52 html]# systemctl start httpd
[root@ip-172-31-63-52 html]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-63-52 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
Active: active (running) since Sun 2020-08-23 11:28:40 UTC; 1min 2s ago
Docs: man:httpd.service(8)
Main PID: 32688 (httpd)
Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
CGroup: /system.slice/httpd.service
├─32688 /usr/sbin/httpd -DFOREGROUND
├─32689 /usr/sbin/httpd -DFOREGROUND
├─32690 /usr/sbin/httpd -DFOREGROUND
├─32691 /usr/sbin/httpd -DFOREGROUND
├─32692 /usr/sbin/httpd -DFOREGROUND
└─32693 /usr/sbin/httpd -DFOREGROUND
Aug 23 11:28:40 ip-172-31-63-52.ec2.internal systemd[1]: Starting The Apache HTTP Server...
Aug 23 11:28:40 ip-172-31-63-52.ec2.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-63-52 html]# get
getcap getenforce getfacl getkeycodes getopts getsebool gettext.sh
getconf getent getfattr getopt getpcaps gettext
[root@ip-172-31-63-52 html]# get
getcap getenforce getfacl getkeycodes getopts getsebool gettext.sh
getconf getent getfattr getopt getpcaps gettext
[root@ip-172-31-63-52 html]# get
getcap getenforce getfacl getkeycodes getopts getsebool gettext.sh
getconf getent getfattr getopt getpcaps gettext
[root@ip-172-31-63-52 html]# get
getcap getenforce getfacl getkeycodes getopts getsebool gettext.sh
getconf getent getfattr getopt getpcaps gettext
[root@ip-172-31-63-52 html]# getenforce
Disabled
[root@ip-172-31-63-52 html]# setenforce 0
setenforce: SELinux is disabled
[root@ip-172-31-63-52 html]# iptables -F
[root@ip-172-31-63-52 html]#
Activate Windows
Go to Settings to activate Windows.
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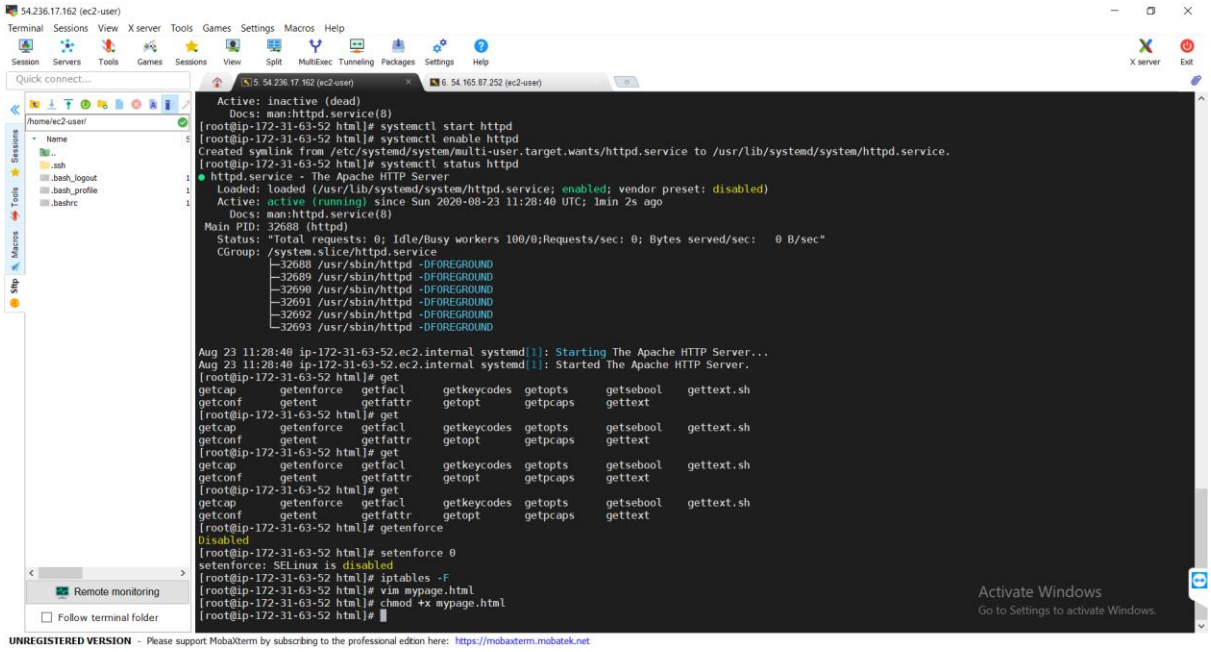
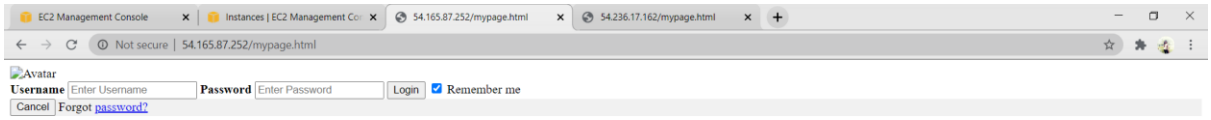
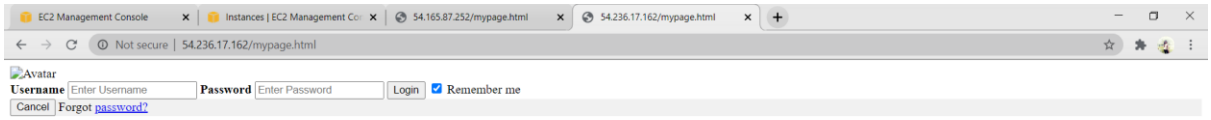
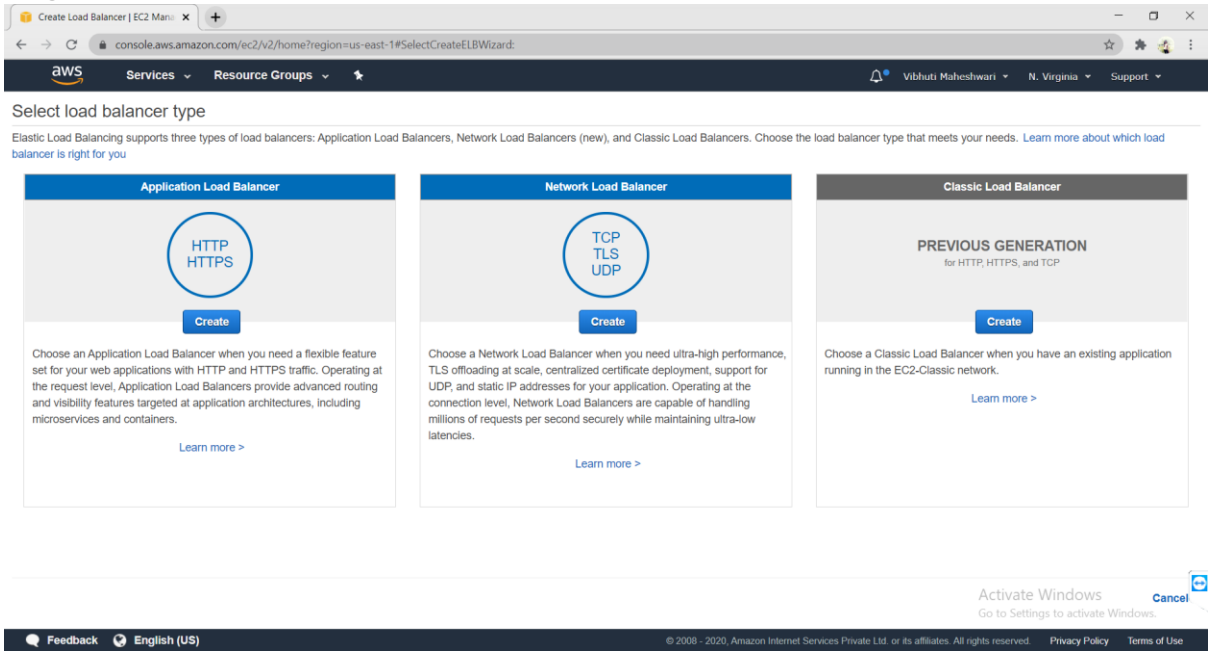


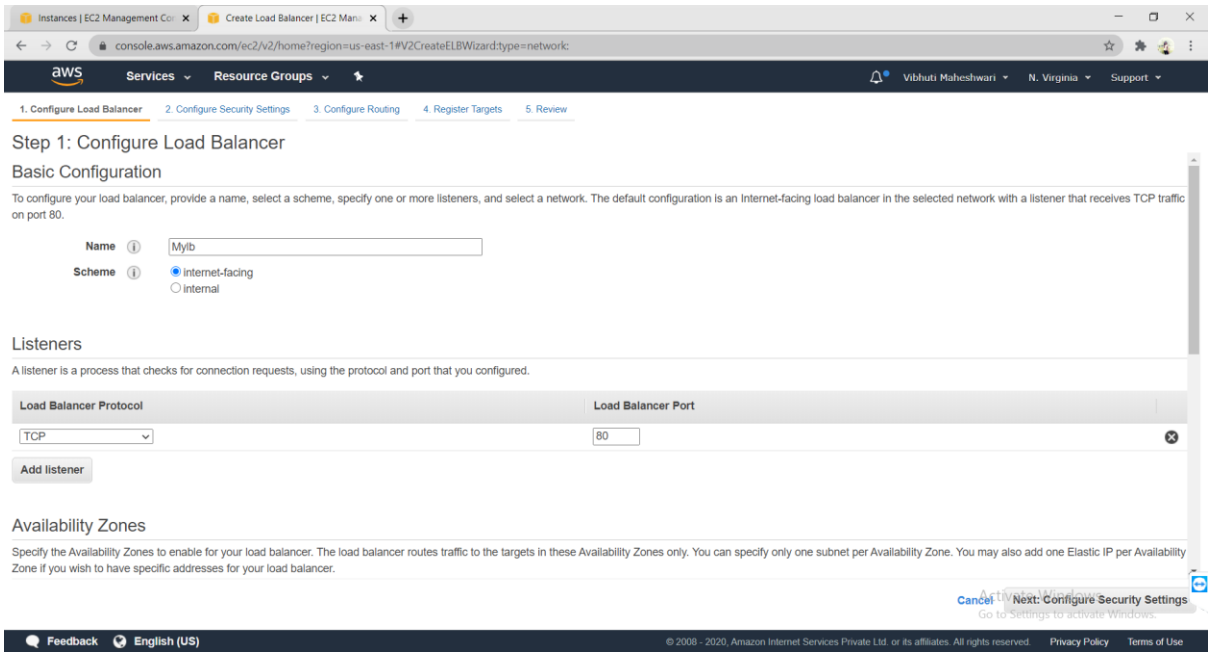
Step5:Check is application is deployed on both servers by copy pasting the public ip of the servers into the browser.

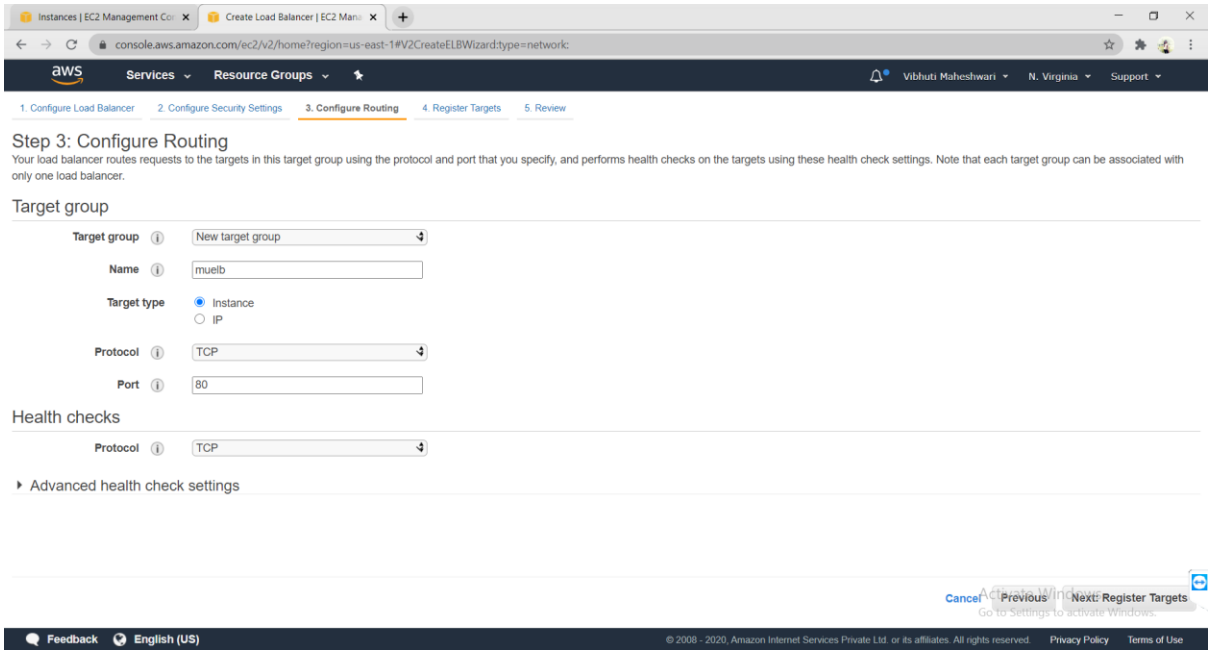




Step6:Create a application Load balancer with the above two instances as targets






Instances | EC2 Management Co
Create Load Balancer | EC2 Mana
console.aws.amazon.com/ec2/v2/home?region=us-east-1#V2CreateELBWizard:type=network:
aws
Services
Resource Groups
Vibhuti Maheshwari
N. Virginia
Support
1. Configure Load Balancer
2. Configure Security Settings
3. Configure Routing
4. Register Targets
5. Review
Step 3: 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
muelb
Target type
Instance
IP
Protocol
TCP
Port
80
Health checks
Protocol
TCP
Advanced health check settings
Cancel
Previous
Next: Register Targets
Feedback
English (US)
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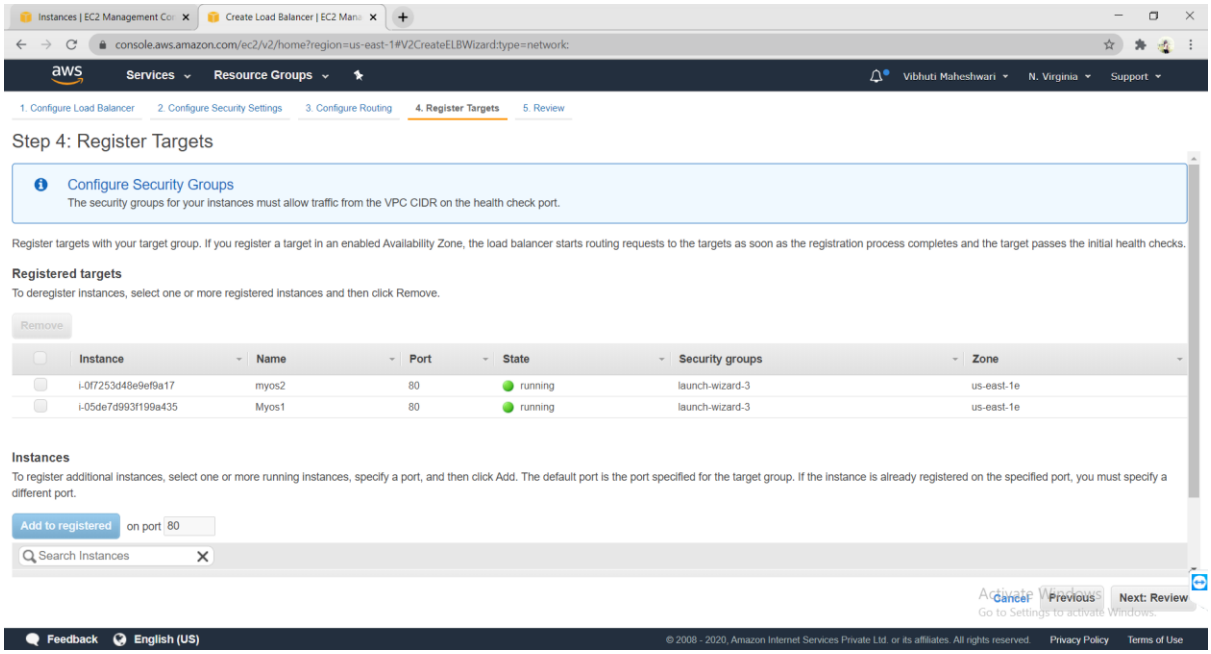
Terms of Use


Instances | EC2 Management Co
Create Load Balancer | EC2 Mana
console.aws.amazon.com/ec2/v2/home?region=us-east-1#V2CreateELBWizard:type=network:
aws
Services
Resource Groups
Vibhuti Maheshwari
N. Virginia
Support
1. Configure Load Balancer
2. Configure Security Settings
3. Configure Routing
4. Register Targets
5. Review
Step 4: Register Targets
Configure Security Groups
The security groups for your instances must allow traffic from the VPC CIDR on the health check port.
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
i-0f7253d48e9ef9a17
myos2
80
running
launch-wizard-3
us-east-1e
i-05de7d993f199a435
Myos1
80
running
launch-wizard-3
us-east-1e
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
Search Instances
Cancel
Previous
Next: Review
Feedback
English (US)
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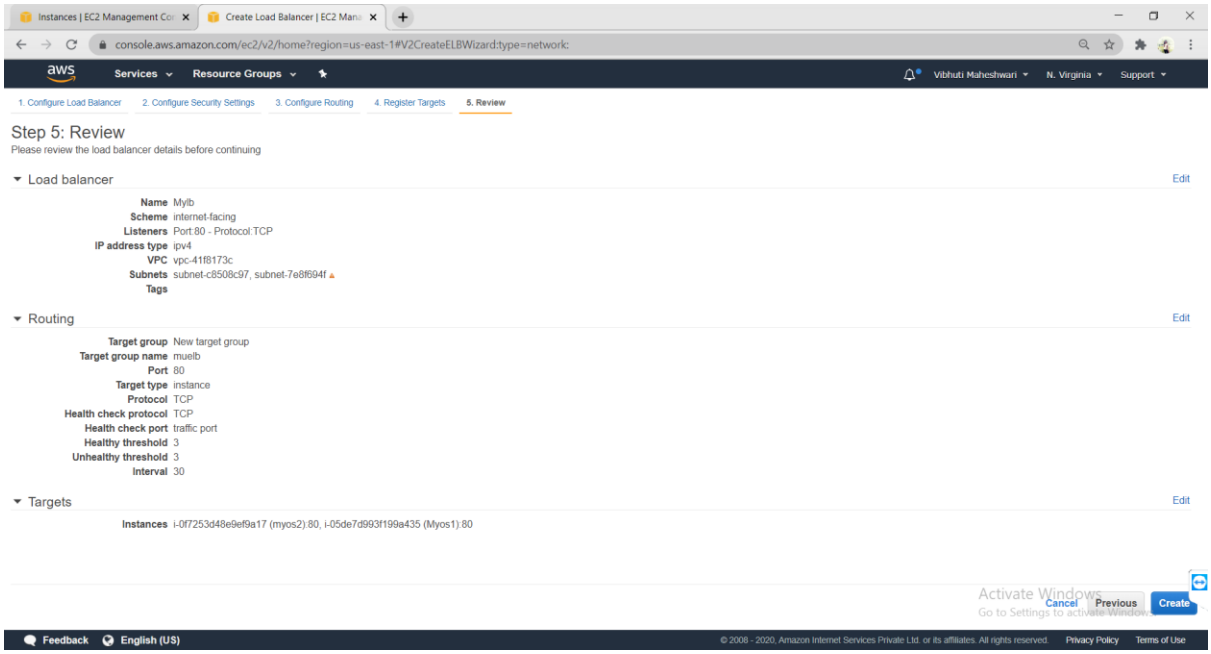
Privacy Policy
Terms of Use


Instances | EC2 Management Co
Create Load Balancer | EC2 Mana
console.aws.amazon.com/ec2/v2/home?region=us-east-1#V2CreateELBWizard:type=network:
aws
Services
Resource Groups
Vibhuti Maheshwari
N. Virginia
Support
1. Configure Load Balancer
2. Configure Security Settings
3. Configure Routing
4. Register Targets
5. Review
Step 5: Review
Please review the load balancer details before continuing
Load balancer
Edit
Name Mylb
Scheme internet-facing
Listeners Port:80 - Protocol:TCP
IP address type ipv4
VPC vpc-41f8173c
Subnets subnet-c8508c97, subnet-7e8f694f
Tags
Routing
Edit
Target group New target group
Target group name muelb
Port 80
Target type instance
Protocol TCP
Health check protocol TCP
Health check port traffic port
Healthy threshold 3
Unhealthy threshold 3
Interval 30
Targets
Edit
Instances i-0f7253d48e9ef9a17 (myos2):80, i-05de7d993f199a435 (Myos1):80
Activate Windows
Go to Settings to activate Windows.
Cancel
Previous
Create
Feedback
English (US)
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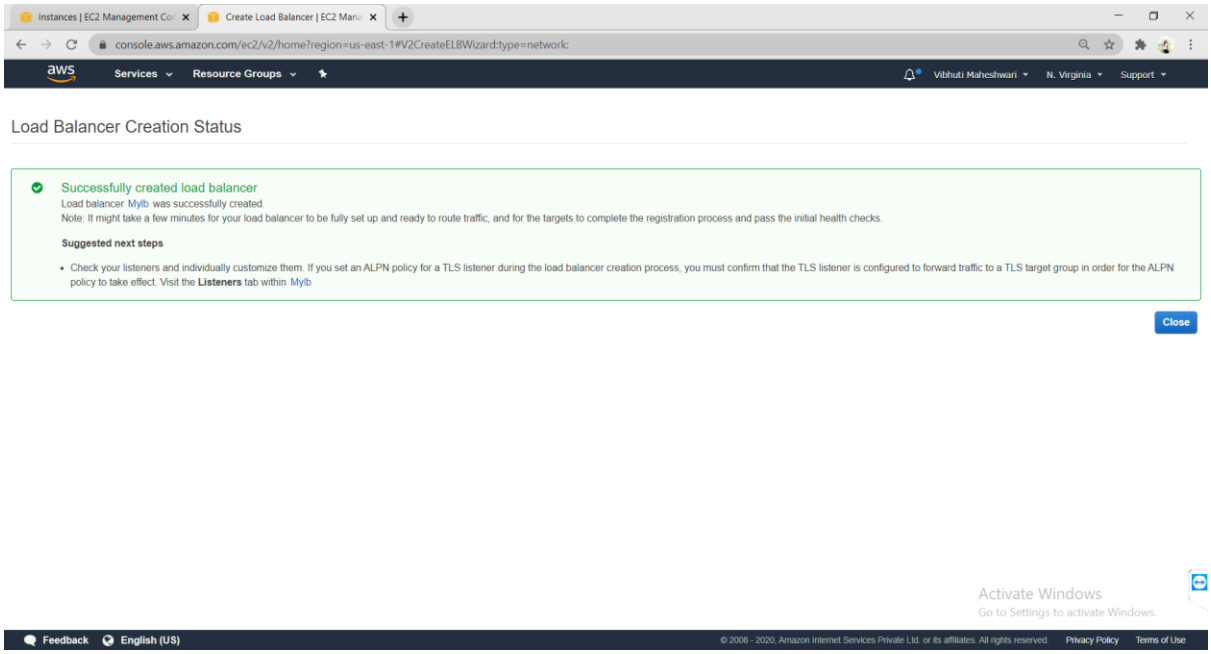
Instances | EC2 Management Co
Create Load Balancer | EC2 Mana
console.aws.amazon.com/ec2/v2/home?region=us-east-1#V2CreateELBWizard:type=network:
aws
Services
Resource Groups
Vibhuti Maheshwari
N. Virginia
Support
Load Balancer Creation Status
Successfully created load balancer
Load balancer Mylb was successfully created.
Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic, and for the targets to complete the registration process and pass the initial health checks.
Suggested next steps
Check your listeners and individually customize them. If you set an ALPN policy for a TLS listener during the load balancer creation process, you must confirm that the TLS listener is configured to forward traffic to a TLS target group in order for the ALPN policy to take effect. Visit the Listeners tab within Mylb
Close
Activate Windows
Go to Settings to activate Windows.
Feedback
English (US)
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