Abhinav Gautam
abhinavgautam25@gmail.com
+91-8678042920

Task: Creating two Linux instances and hosting the static website on both and also creating Load balancer and checking it.
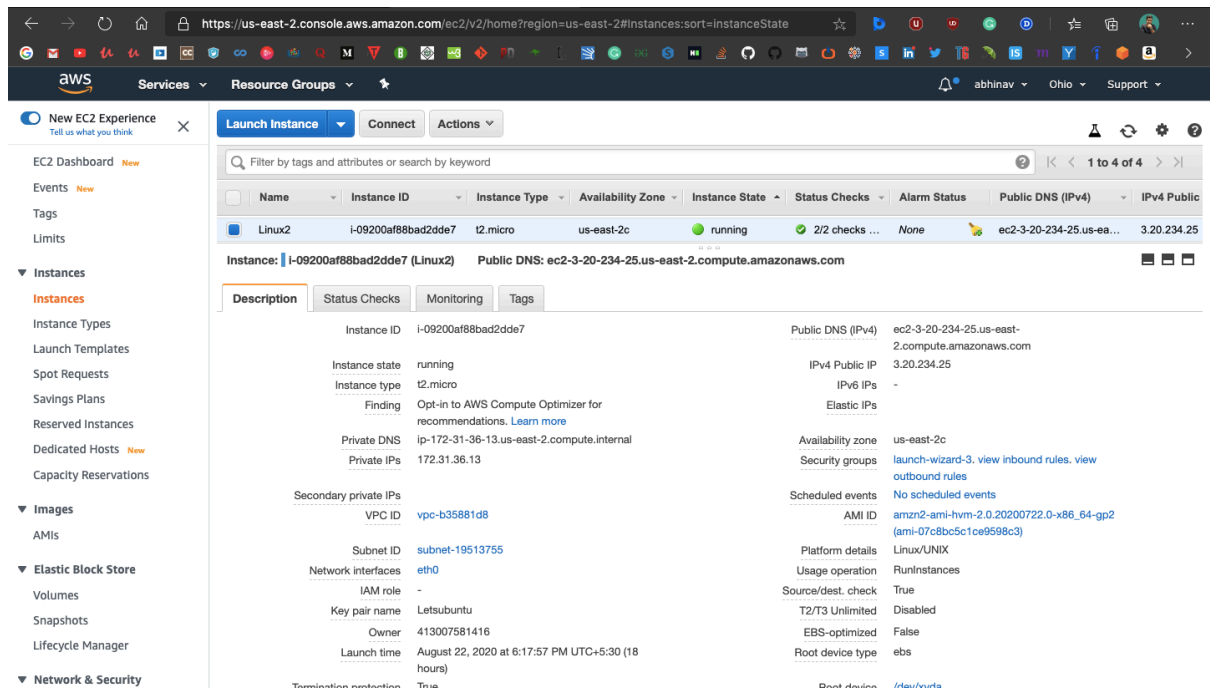
Solution

Step-1. Creating two Linux instances, Use the first free Linux AMI.

Linux-1

aws   Services ▾   Resource Groups ▾   ✱   🔔 abhinav ▾   Ohio ▾   Support ▾

New EC2 Experience
Tell us what you think ✕

Launch Instance ▾   Connect   Actions ▾

EC2 Dashboard *New*
Events *New*
Tags
Limits

🔍 Filter by tags and attributes or search by keyword   ❓ |◁ ◁ 1 to 4 of 4 ▷ ▷|

☐	Name	▾	Instance ID	▾	Instance Type	▾	Availability Zone	▾	Instance State	▴	Status Checks	▾	Alarm Status	Public DNS (IPv4)	▾	IPv4 Public
☑	Linux2		i-09200af88bad2dde7		t2.micro		us-east-2c		🟢 running		✅ 2/2 checks ...		None	🔔	ec2-3-20-234-25.us-ea...		3.20.234.25

▼ Instances
   Instances
   Instance Types
   Launch Templates
   Spot Requests
   Savings Plans
   Reserved Instances
   Dedicated Hosts *New*
   Capacity Reservations

▼ Images
   AMIs

▼ Elastic Block Store
   Volumes
   Snapshots
   Lifecycle Manager

▼ Network & Security

Instance: ▍ i-09200af88bad2dde7 (Linux2)   Public DNS: ec2-3-20-234-25.us-east-2.compute.amazonaws.com

Description | Status Checks | Monitoring | Tags

Instance ID	i-09200af88bad2dde7
Instance state	running
Instance type	t2.micro
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS	ip-172-31-36-13.us-east-2.compute.internal
Private IPs	172.31.36.13
Secondary private IPs	
VPC ID	vpc-b35881d8
Subnet ID	subnet-19513755
Network interfaces	eth0
IAM role	-
Key pair name	Letsubuntu
Owner	413007581416
Launch time	August 22, 2020 at 6:17:57 PM UTC+5:30 (18 hours)
Termination protection	True

Public DNS (IPv4)	ec2-3-20-234-25.us-east-2.compute.amazonaws.com
IPv4 Public IP	3.20.234.25
IPv6 IPs	-
Elastic IPs	
Availability zone	us-east-2c
Security groups	launch-wizard-3. view inbound rules. view outbound rules
Scheduled events	No scheduled events
AMI ID	amzn2-ami-hvm-2.0.20200722.0-x86_64-gp2 (ami-07c8bc5c1ce9598c3)
Platform details	Linux/UNIX
Usage operation	RunInstances
Source/dest. check	True
T2/T3 Unlimited	Disabled
EBS-optimized	False
Root device type	ebs
Root device	/dev/xvda

Linux-2

Step-2. Launching the Linux instance using terminal as I am on Mac OS

```
Warning: Identity file Letsubuntu.pem not accessible: No such file or directory.
ec2-user@ec2-3-20-234-25.us-east-2.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
abhi@ABHIs-MacBook-Air desktop % chmod 400 Letsubuntu.pem
chmod: Letsubuntu.pem: No such file or directory
abhi@ABHIs-MacBook-Air desktop % cd downloads
cd: no such file or directory: downloads
abhi@ABHIs-MacBook-Air desktop % cd Downloads
cd: no such file or directory: Downloads
abhi@ABHIs-MacBook-Air desktop % cd ..
abhi@ABHIs-MacBook-Air ~ % cd Downloads
abhi@ABHIs-MacBook-Air Downloads % chmod 400 Letsubuntu.pem
abhi@ABHIs-MacBook-Air Downloads % ssh -i "Letsubuntu.pem" ec2-user@ec2-3-20-234-25.us-east-2.compute.amazonaws.com
Last login: Sun Aug 23 04:10:10 2020 from 223.228.241.170


       __|  __|_  )
       _|  (     /   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.
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-31-36-13 ~]$ sudo su
[root@ip-172-31-36-13 ec2-user]# cd /var/www/html
[root@ip-172-31-36-13 html]# ls
[root@ip-172-31-36-13 html]# vi index.html
[root@ip-172-31-36-13 html]# more index.html
<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>
[root@ip-172-31-36-13 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
```
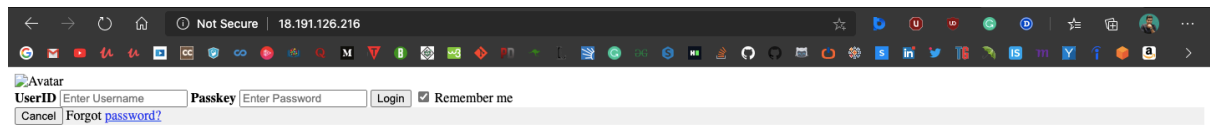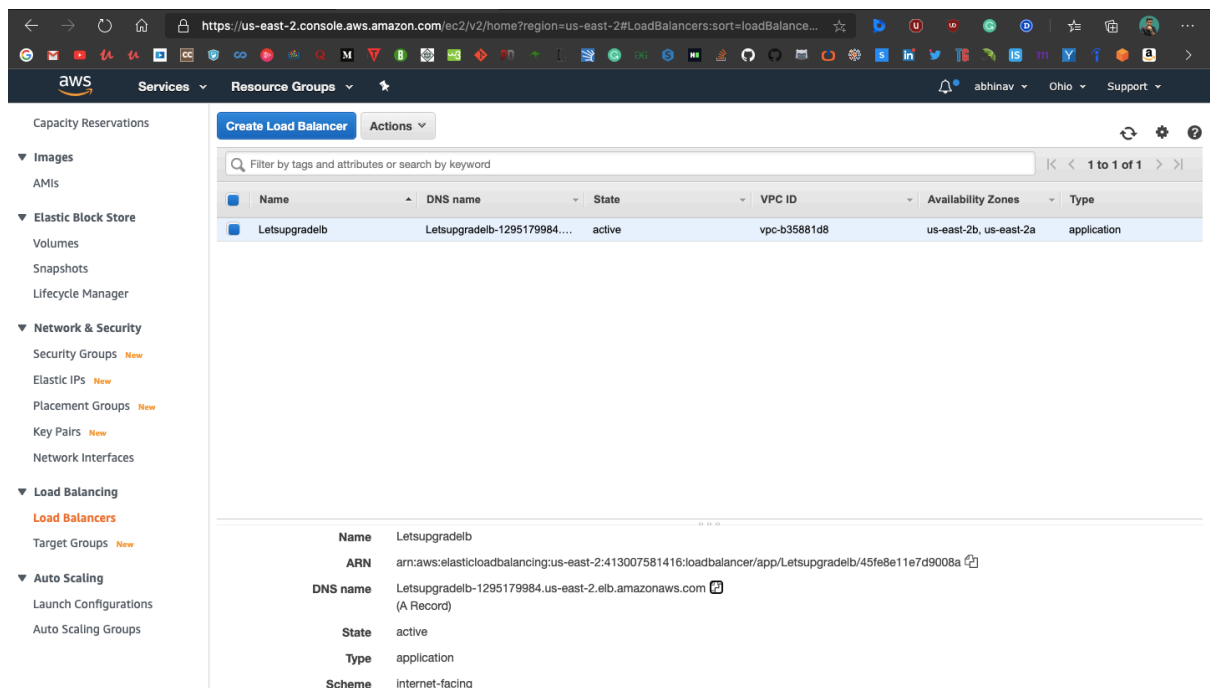
Instance-1

Instance-2

Step-3. Hosting Html login webpage on both servers and checking deployment on both servers.

Web page-1 on Linux server-2

Web page-2 on Linux server-1

Step-4 Creating a application Load balancer with the above two instances as targets

Load Balancer