

Load balancer

Step 1:

Launching two linux instances

- Linux 1 [18.218.114.248]

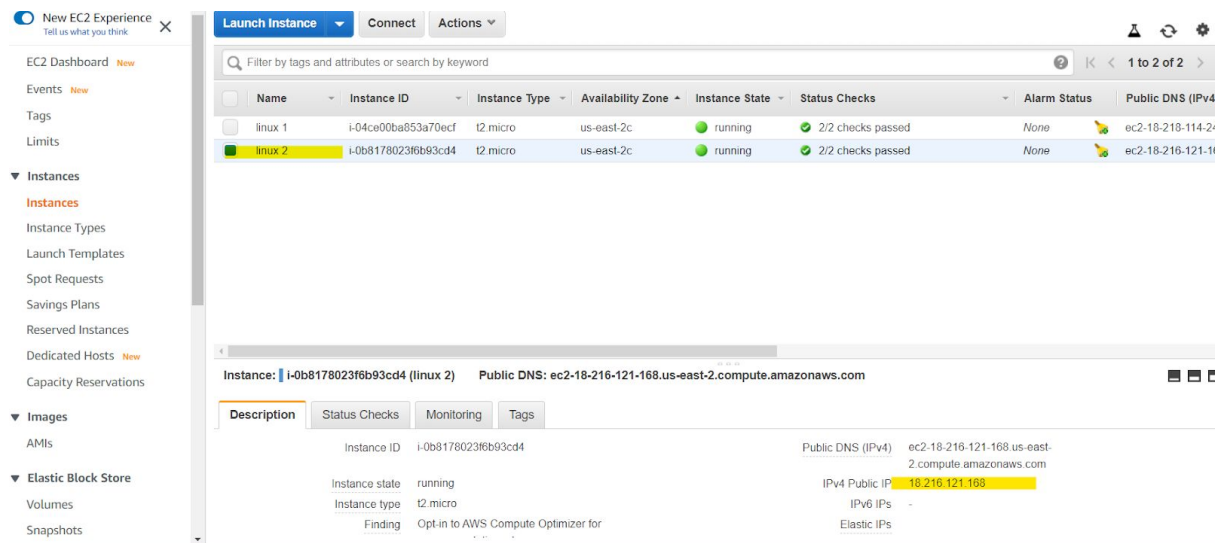
The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes options like EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area shows a table of EC2 instances. Two instances are listed: 'linux 1' and 'linux 2'. 'linux 1' has an Instance ID of 'i-04ce00ba853a70ecf', is of type 't2.micro', in 'us-east-2c' availability zone, and is in a 'running' state. Its Public DNS (IPv4) is 'ec2-18-218-114-248.us-east-2.compute.amazonaws.com'. 'linux 2' has an Instance ID of 'i-0b8178023f6b83cd4', is also a 't2.micro' in 'us-east-2c', and is in a 'running' state with a Public DNS of 'ec2-18-216-121-168.us-east-2.compute.amazonaws.com'. Below the table, a detailed view for 'linux 1' is shown, including its Instance ID, Public DNS, Instance state (running), Instance type (t2.micro), and a note about the AWS Compute Optimizer.

| Name | Instance ID | Instance Type | Availability Zone | Instance State | Status Checks | Alarm Status | Public DNS (IPv4) |
|---------|---------------------|---------------|-------------------|----------------|---------------|--------------|--|
| linux 1 | i-04ce00ba853a70ecf | t2.micro | us-east-2c | running | Initializing | None | ec2-18-218-114-248.us-east-2.compute.amazonaws.com |
| linux 2 | i-0b8178023f6b83cd4 | t2.micro | us-east-2c | running | Initializing | None | ec2-18-216-121-168.us-east-2.compute.amazonaws.com |

Instance: i-04ce00ba853a70ecf (linux 1) Public DNS: ec2-18-218-114-248.us-east-2.compute.amazonaws.com

| Description | |
|-------------------|--|
| Instance ID | i-04ce00ba853a70ecf |
| Public DNS (IPv4) | ec2-18-218-114-248.us-east-2.compute.amazonaws.com |
| Instance state | running |
| Instance type | t2.micro |
| IPv4 Public IP | 18.218.114.248 |
| IPv6 IPs | - |
| Elastic IPs | - |
| Finding | Opt-in to AWS Compute Optimizer for |

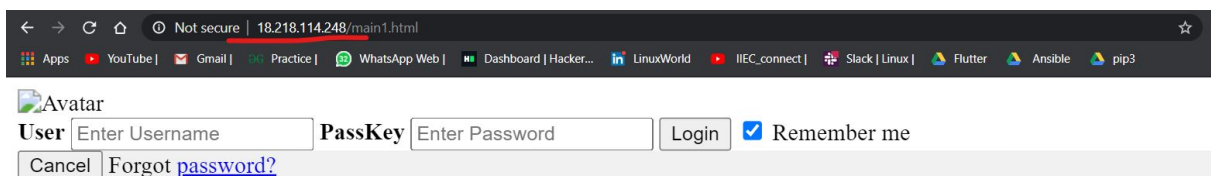
- Linux 2 [18.216.121.168]



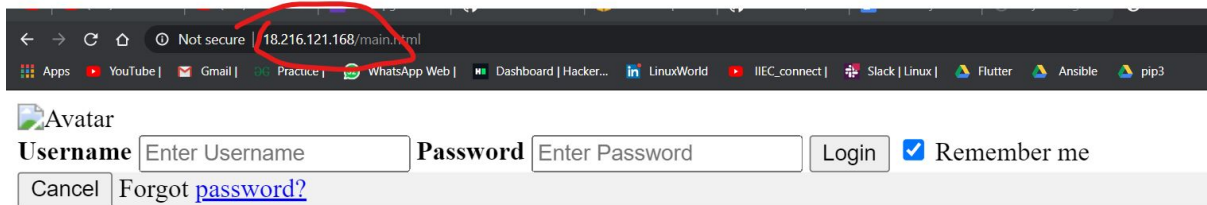
Step 2:

Installing and configuring webserver for each instance

- Linux 1

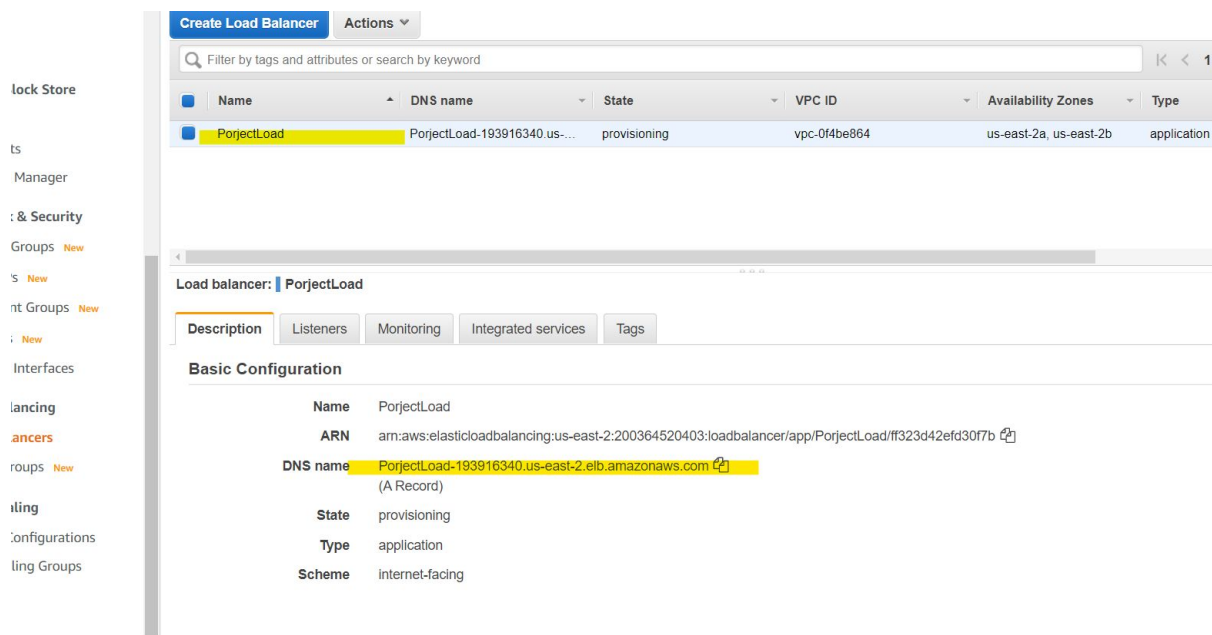


- Linux 2



Step 3:

Launching load balancer



Step 4:

Checking load balancer managing load over two instances :

us-east-2:console.aws.amazon.com/ec2/home?region=us-east-2#targetgroup/targetgrouparn=arn:aws:elasticloadbalancing:us-east-2:200364520403:targetgroup/NewHttp/b59533210d590158

aws Services Resource Groups

EC2 > Target groups > NewHttp

NewHttp Delete

arn:aws:elasticloadbalancing:us-east-2:200364520403:targetgroup/NewHttp/b59533210d590158

Basic configuration

| | | | |
|-------------------------|------------------------------|---------------------|------------------------------|
| Target type instance | Protocol : Port HTTP : 80 | VPC vpc-0f4be864 | Load balancer ProjectLoad |
|-------------------------|------------------------------|---------------------|------------------------------|

Group details **Targets** Monitoring Tags

Registered targets (2) Refresh Deregister Register targets

Filter resources by property or value

| <input type="checkbox"/> | Instance ID | Name | Port | Zone | Status | Status details |
|--------------------------|---------------------|---------|------|------------|-----------|--|
| <input type="checkbox"/> | i-04ce00ba853a70ecf | linux 1 | 80 | us-east-2c | unhealthy | Health checks failed with these codes: [403] |
| <input type="checkbox"/> | i-0b8178023f6b93cd4 | linux 2 | 80 | us-east-2c | unhealthy | Health checks failed with these codes: [403] |

** Facing error target registration :(