

AWS Essential Assignment Batch1 Day4

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">
    
  </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 if the 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

Solution:

- ❖ Create two linux instances, Use the first free linux

Resource Groups

Anandkumar C B Mumbai Support

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

1 to 3 of 3

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
UbuntuLinux2	i-0e3f999933444505b	t2.micro	ap-south-1b	running	2/2 checks ...	None	ec2-52-66-111-98.ap-s...	52.66.111.98
WindowsSer...	i-0a90507724a6e06f2	t2.micro	ap-south-1a	stopped		None		
UbuntuLinux1	i-0668c897a8519d31c	t2.micro	ap-south-1a	running	2/2 checks ...	None	ec2-15-206-69-150.ap-...	15.206.69.150

Instance: i-0668c897a8519d31c (UbuntuLinux1) Public DNS: ec2-15-206-69-150.ap-south-1.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID

i-0668c897a8519d31c

Public DNS (IPv4)

ec2-15-206-69-150.ap-south-1.compute.amazonaws.com

Instance state

running

IPv4 Public IP

15.206.69.150

Instance type

t2.micro

IPv6 IPs

-

Finding

Opt-in to AWS Compute Optimizer for recommendations.
[Learn more](#)

Elastic IPs

Private DNS

ip-172-31-47-47.ap-south-1.compute.internal

Availability zone

ap-south-1a

Private IPs

172.31.47.47

Security groups

[launch-wizard-2](#) [view inbound rules](#) [view outbound rules](#)

Secondary private IPs

Scheduled events

[No scheduled events](#)

VPC ID

vpc-ce698da5

AMI ID

ubuntu/images/hvm-ssd/ubuntu-bionic-18.04-amd64-server-20200810 (ami-02b5fbc2cb28b77b8)



Launch Instance ▾

Connect

Actions ▾



🔍 Filter by tags and attributes or search by keyword



1 to 3 of 3

<input type="checkbox"/>	Name ▾	Instance ID ▾	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS (IPv4) ▾	IPv4 Public IP ▾
<input checked="" type="checkbox"/>	UbuntuLinux2	i-0e3f999933444505b	t2.micro	ap-south-1b	running	✓ 2/2 checks ...	None	ec2-52-66-111-98.ap-s...	52.66.111.98
<input type="checkbox"/>	WindowsSer...	i-0a90507724a8e06f2	t2.micro	ap-south-1a	stopped		None		-
<input type="checkbox"/>	UbuntuLinux1	i-0668c897a8519d31c	t2.micro	ap-south-1a	running	✓ 2/2 checks ...	None	ec2-15-206-69-150.ap-...	15.206.69.150

Instance: **i-0e3f999933444505b (UbuntuLinux2)** Public DNS: [ec2-52-66-111-98.ap-south-1.compute.amazonaws.com](#)

Description

Status Checks

Monitoring

Tags

Instance ID	i-0e3f999933444505b	Public DNS (IPv4)	ec2-52-66-111-98.ap-south-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	52.66.111.98
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	
Private DNS	ip-172-31-5-122.ap-south-1.compute.internal	Availability zone	ap-south-1b
Private IPs	172.31.5.122	Security groups	launch-wizard-3 , view inbound rules , view outbound rules
Secondary private IPs		Scheduled events	No scheduled events
VPC ID	vpc-ce698da5	AMI ID	ubuntu/images/hvm-ssd/ubuntu-bionic-18.04-amd64-server-20200810 (ami-02b5fbc2cb28b77b8)
Subnet ID	subnet-3b097b77	Platform details	Linux/UNIX
Network interfaces	eth0	Usage operation	RunInstances

❖ Launch both Instances and start webserver with desired webpage and check they are running



Ubuntu Server1

Username Password

☒ Remember me

[Forgot password?](#)



Ubuntu Server2

UserID PassKey ☒

Remember me ☐

[Forgot password?](#)

- ❖ Create a application Load balancer with the above two instances as targets

The screenshot shows the AWS Management Console interface for an Application Load Balancer. At the top, there's a header with 'Resource Groups', a user profile 'Anandkumar C B', location 'Mumbai', and a 'Support' link. Below the header, there's a 'Create Load Balancer' button and an 'Actions' dropdown. A search bar prompts 'Filter by tags and attributes or search by keyword'. A table lists the load balancer:

Name	DNS name	State	VPC ID	Availability
AnandkumarLoadBalancer	AnandkumarLoadBalancer-875741597.ap-south-1.elb.amazonaws.com	active	vpc-ce698da5	ap-south-1

Below the table, the 'Load balancer: AnandkumarLoadBalancer' section is visible. It has tabs for 'Description', 'Listeners', 'Monitoring', 'Integrated services', and 'Tags'. The 'Description' tab is active, showing 'Basic Configuration' details:

- Name:** AnandkumarLoadBalancer
- ARN:** arn:aws:elasticloadbalancing:ap-south-1:522354062564:loadbalancer/app/AnandkumarLoadBalancer/ce1de9b071d28315
- DNS name:** AnandkumarLoadBalancer-875741597.ap-south-1.elb.amazonaws.com (A Record)
- State:** active
- Type:** application
- Scheme:** internet-facing

- ❖ Check the functioning of ELB

The screenshot shows a web browser window with the title 'Welcome to Ubuntu!'. The address bar displays 'Not secure | anandkumarlloadbalancer-875741597.ap-south-1.elb.amazonaws.com'. The browser's taskbar at the bottom shows several open applications: 'Apps', 'SINUMERIK Windo...', 'LinkedIn', 'CSE 373 - Data Stru...', 'EquatePlus', 'Conference2020', 'Shree Sidvin', 'Datasheets - coreb...', and 'Sharmila Joshi's Blo...'.

Ubuntu Server1

Username Password

☒ Remember me

Welcome to Ubuntu2! x +

← → ↻ 🏠 ⓘ Not secure | anandkumarlloadbalancer-875741597.ap-south-1.elb.amazonaws.com

📱 Apps 🗨️ SINUMERIK Windo... 🔗 LinkedIn 📖 CSE 373 - Data Stru... 🖨️ EquatePlus 📅 Conference2020 👤 Shree Sidvin 📄 Datasheets - coreb... 👤 Sharmila Joshi's Blo...

Ubuntu Server2

UserID

Enter Username

PassKey

Enter Password

Login

☒

Remember me

Cancel

Forgot [password?](#)