

Advance AWS

AWS Project- 1 (Day -9)

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Teacher:

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Course:

Advance AWS Cloud Computing with DevOps
Fundamentals

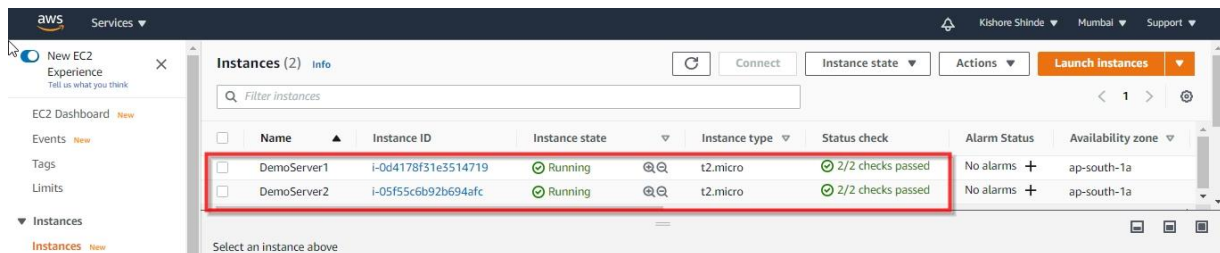
Institute:

Lets Upgrade

Project 01: ELASTIC LOAD BALANCER

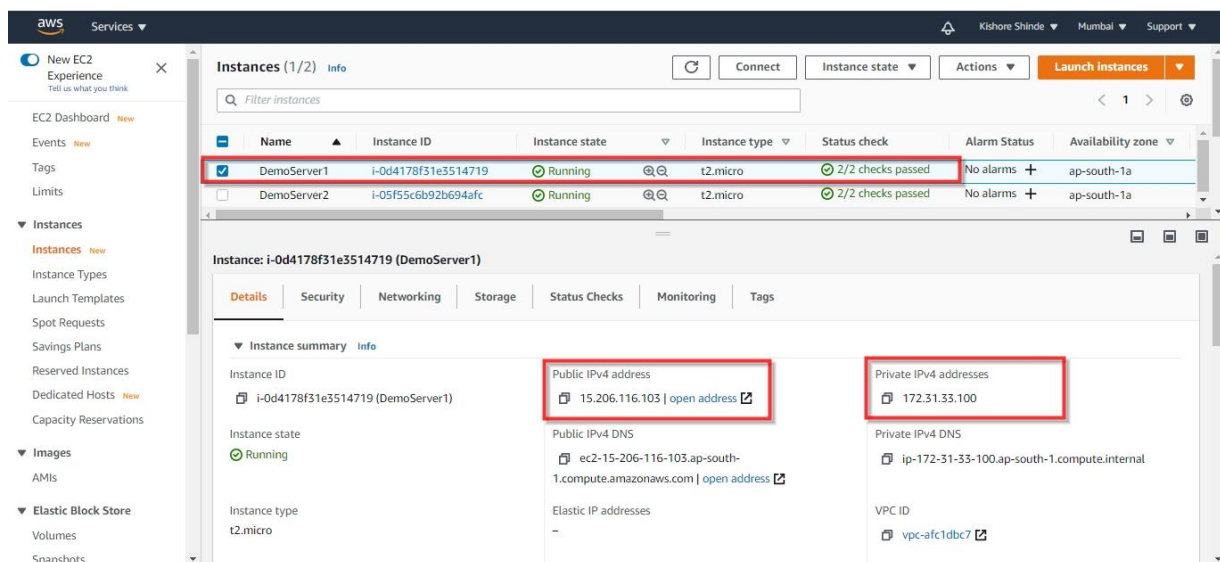
STEP1 : Creating two Linux instances

SS1 : Instance List



S. No.	Instance Name	Instance ID
1.	DemoServer1	i-0d4178f31e3514719
2.	DemoServer2	i-05f55c6b92b694afc

SS2 : DemoServer1 Details



S. No.	Instance Name	Public IP	Private IP	Instance ID
1.	DemoServer1	15.206.116.103	172.31.33.100	i-0d4178f31e351471

SS3 : DemoServer2 Details

The screenshot shows the AWS Management Console for the 'Instances' section. A table lists two instances: DemoServer1 and DemoServer2. DemoServer2 is highlighted with a red box. Below the table, the 'Details' tab for DemoServer2 is shown, with red boxes highlighting the Public IPv4 address (13.127.178.170) and Private IPv4 addresses (172.31.46.212).

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
DemoServer1	i-0d4178f31e3514719	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a
DemoServer2	i-05f55c6b92b694afc	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

Instance ID	Public IPv4 address	Private IPv4 addresses
i-05f55c6b92b694afc (DemoServer2)	13.127.178.170 open address	172.31.46.212

S. No.	Instance Name	Public IP	Private IP	Instance ID
1.	DemoServer2	13.127.178.170	172.31.46.212	i-05f55c6b92b694afc

STEP 2 : Launching instances, installing Apache and check running status

SS4 : Status : Active running

• DemoServer1 Status

The screenshot shows a terminal window with the command 'systemctl status httpd.service' executed. The output shows that the service is loaded and active (running). Below the terminal output, a red box highlights the instance ID 'i-0d4178f31e3514719 (DemoServer1)' and its public and private IP addresses.

```

[root@ip-172-31-33-100 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-33-100 html]# service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Tue 2020-10-27 10:20:14 UTC; 6s ago
     Docs: man:httpd.service(8)
   Main PID: 4187 (httpd)
   Status: "Processing requests..."
   CGroup: /system.slice/httpd.service
           └─4187 /usr/sbin/httpd -DFOREGROUND
             4188 /usr/sbin/httpd -DFOREGROUND
             4189 /usr/sbin/httpd -DFOREGROUND
             4190 /usr/sbin/httpd -DFOREGROUND
             4191 /usr/sbin/httpd -DFOREGROUND
             4192 /usr/sbin/httpd -DFOREGROUND

Oct 27 10:20:14 ip-172-31-33-100.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 27 10:20:14 ip-172-31-33-100.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-33-100 html]#
  
```

i-0d4178f31e3514719 (DemoServer1)
Public IPs: 15.206.116.103 Private IPs: 172.31.33.100

S. No.	Instance Name	Instance ID	Status
1.	DemoServer1	i-0d4178f31e351471	Active (Running)

• DemoServer2 Status

Connect to instance | EC2 Manag... x i-05f55c6b92b694afc (DemoServ... x +

ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-05f55c6b92b694afc

```
<label for="psw"><b>Paskey</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-172-31-46-212 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-46-212 html]# service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Tue 2020-10-27 10:29:23 UTC; 8s ago
     Docs: man:httpd.service(8)
  Main PID: 418 (httpd)
    Status: "Processing requests..."
    CGroup: /system.slice/httpd.service
            └─ 418 /usr/sbin/httpd -DFOREGROUND
               419 /usr/sbin/httpd -DFOREGROUND
               420 /usr/sbin/httpd -DFOREGROUND
               421 /usr/sbin/httpd -DFOREGROUND
               422 /usr/sbin/httpd -DFOREGROUND
               423 /usr/sbin/httpd -DFOREGROUND

Oct 27 10:29:23 ip-172-31-46-212.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 27 10:29:23 ip-172-31-46-212.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-46-212 html]#
```

i-05f55c6b92b694afc (DemoServer2)

Public IPs: 13.127.178.170 Private IPs: 172.31.46.212

S. No.	Instance Name	Instance ID	Status
1.	DemoServer2	i-05f55c6b92b694afc	Active (Running)

STEP 3 & 4: Host HTML login page & Check Application Deployed

SS5 : DemoServer1 – Login Page Details

Instances | EC2 Management Con... x 15.206.116.103 x +

Not secure | 15.206.116.103

Avatar

UserName Password Login ☒ Remember me

[Forgot password?](#)

S. No.	Instance Name	Public IP	Fields
1.	DemoServer1	15.206.116.103	<ul style="list-style-type: none"> UserName Password

SS6 : DemoServer2 - Login Page Details

Instances | EC2 Management Cor x 13.127.178.170

← → ↻ ⚠ Not secure | 13.127.178.170

Avatar

UserID Passkey Login ☒ Remember me

Cancel [Forgot password?](#)

S. No.	Instance Name	Public IP	Fields
1.	DemoServer2	13.127.178.170	<ul style="list-style-type: none"> UserID Passkey

STEP 5 : Create Application Load Balancer

SS7 : Load Balancer Details

aws Services

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type	Create
DemoELB	DemoELB-293841594.ap-so...	active	vpc-afc1dbc7	ap-south-1a, ap-south...	application	October

Load balancer: DemoELB

Description Listeners Monitoring Integrated services Tags

Basic Configuration

Name DemoELB

ARN [arn:aws:elasticloadbalancing:ap-south-1:391321345174:loadbalancer/app/DemoELB/7b5774971f46a760](#)

DNS name [DemoELB-293841594.ap-south-1.elb.amazonaws.com](#) (A Record)

State active

Type application

Scheme internet-facing

IP address type ipv4 [Edit IP address type](#)

VPC [vpc-afc1dbc7](#)

Availability Zones [subnet-11262579 - ap-south-1a](#)

S. No.	Load Balancer Name	DNS Name
1.	DemoELB	DemoELB-293841594.ap-south-1.elb.amazonaws.com

STEP 6 : Check the functioning of ELB using DNS Name of ELB

SS8 : Reply from DemoServer1

EC2 Management Console x demoelb-293841594.ap-south-1 x +

← → ↻ ⚠ Not secure demoelb-293841594.ap-south-1.elb.amazonaws.com

Avatar

UserName Enter Username **Password** Enter Password Login ☒ Remember me

Cancel Forgot [password?](#)

S. No.	DNS Name	Fields
1.	DemoELB-293841594.ap-south-1.elb.amazonaws.com	<ul style="list-style-type: none">• UserName• Password

SS9 : Reply from DemoServer2

EC2 Management Console x demoelb-293841594.ap-south-1 x +

← → ↻ ⚠ Not secure demoelb-293841594.ap-south-1.elb.amazonaws.com

Avatar

UserID Enter Username **Passkey** Enter Password Login ☒ Remember me

Cancel Forgot [password?](#)

S. No.	DNS Name	Fields
1.	DemoELB-293841594.ap-south-1.elb.amazonaws.com	<ul style="list-style-type: none">• UserID• Passkey

xxx---Project 1 Ends Here--xxx