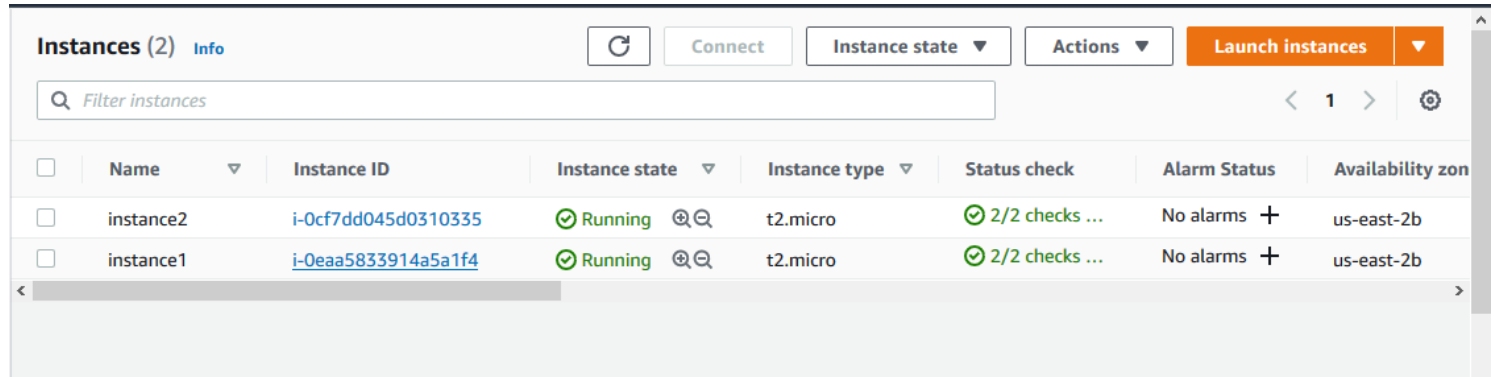


## Project 3

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

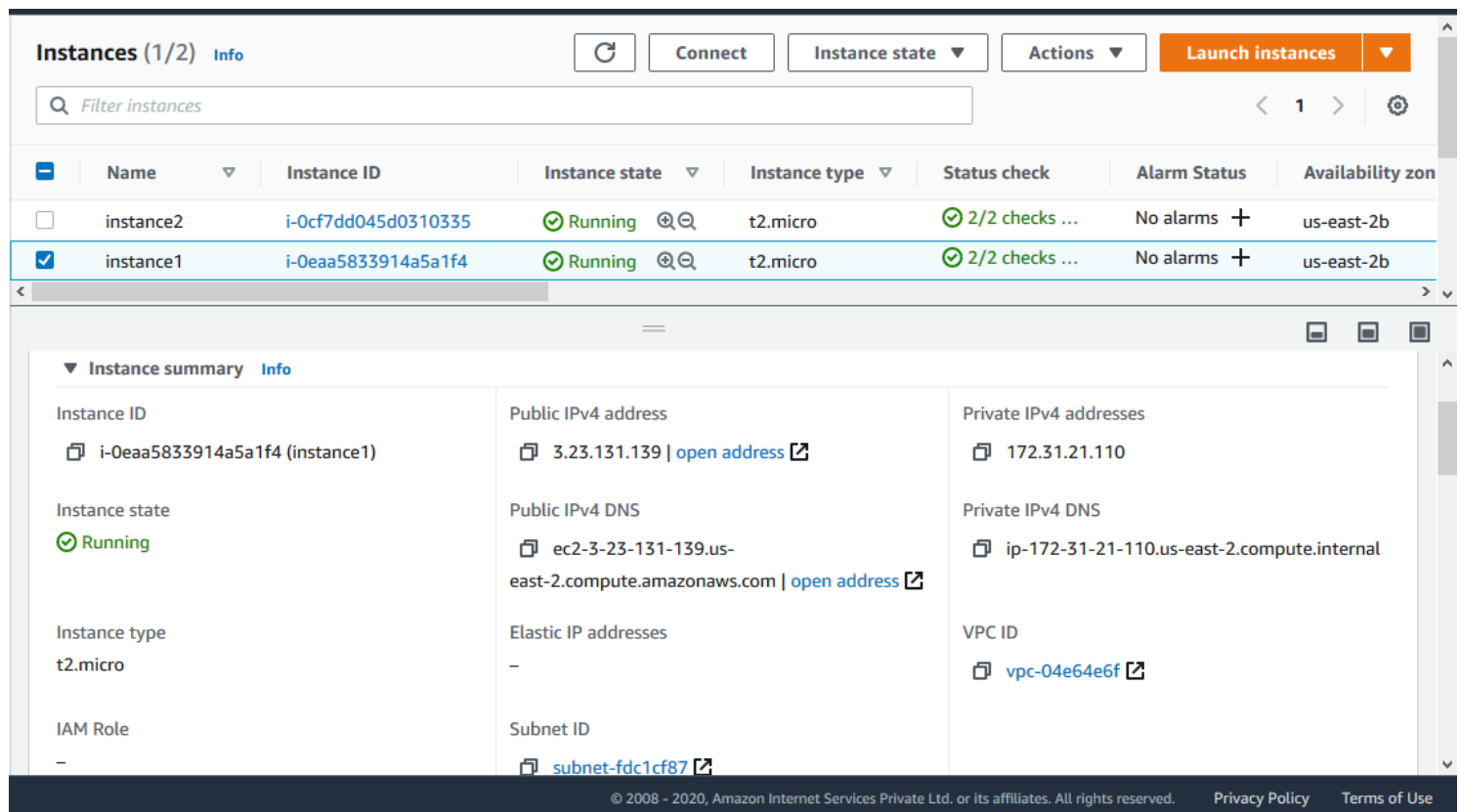
ss1:instances list



The screenshot shows the 'Instances (2)' page in the AWS Management Console. At the top, there are buttons for 'Refresh', 'Connect', 'Instance state', 'Actions', and a 'Launch instances' button. Below these is a search bar labeled 'Filter instances'. The main table lists two instances:

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
<input type="checkbox"/>	instance2	<a href="#">i-0cf7dd045d0310335</a>	<span>Running</span>	t2.micro	<span>2/2 checks ...</span>	No alarms +	us-east-2b
<input type="checkbox"/>	instance1	<a href="#">i-0eaa5833914a5a1f4</a>	<span>Running</span>	t2.micro	<span>2/2 checks ...</span>	No alarms +	us-east-2b

ss2:select a instance and display instance details of server1



The screenshot shows the 'Instance summary' page for instance1. The instance is selected in the list above. The details are as follows:

▼ Instance summary Info		
Instance ID i-0eaa5833914a5a1f4 (instance1)	Public IPv4 address 3.23.131.139   <a href="#">open address</a>	Private IPv4 addresses 172.31.21.110
Instance state <span>Running</span>	Public IPv4 DNS ec2-3-23-131-139.us-east-2.compute.amazonaws.com   <a href="#">open address</a>	Private IPv4 DNS ip-172-31-21-110.us-east-2.compute.internal
Instance type t2.micro	Elastic IP addresses -	VPC ID vpc-04e64e6f
IAM Role -	Subnet ID subnet-fdc1cf87	

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ss3:select a instance and display instance details of server2

Instances (1/2) Info

Filter instances

Connect

Instance state

Actions

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
<input checked="" type="checkbox"/>	instance2	i-0cf7dd045d0310335	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2b
<input type="checkbox"/>	instance1	i-0eaa5833914a5a1f4	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2b

Instance summary Info

Instance ID

i-0cf7dd045d0310335 (instance2)

Instance state

Running

Instance type

t2.micro

IAM Role

-

Public IPv4 address

18.191.136.23 | open address

Public IPv4 DNS

ec2-18-191-136-23.us-east-2.compute.amazonaws.com | open address

Elastic IP addresses

-

Subnet ID

subnet-fdc1cf87

Private IPv4 addresses

172.31.28.126

Private IPv4 DNS

ip-172-31-28-126.us-east-2.compute.internal

VPC ID

vpc-04e64e6f

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ss4:Status:Active running- black screen

```
[root@ip-172-31-21-110 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-21-110 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 Wed 2020-10-28 13:37:55 UTC; 4s ago
     Docs: man:httpd.service(8)
  Main PID: 4502 (httpd)
    Status: "Processing requests..."
    CGroup: /system.slice/httpd.service
            └─4502 /usr/sbin/httpd -DFOREGROUND
              └─4503 /usr/sbin/httpd -DFOREGROUND
                └─4504 /usr/sbin/httpd -DFOREGROUND
                  └─4505 /usr/sbin/httpd -DFOREGROUND
                    └─4506 /usr/sbin/httpd -DFOREGROUND
                      └─4507 /usr/sbin/httpd -DFOREGROUND

Oct 28 13:37:55 ip-172-31-21-110.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 28 13:37:55 ip-172-31-21-110.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-21-110 html]#
```

i-0eaa5833914a5a1f4 (instance1)

Public IPs: 3.23.131.139 Private IPs: 172.31.21.110

```
"index.html" [New] 19L, 705C written
[root@ip-172-31-28-126 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-28-126 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 Wed 2020-10-28 13:35:07 UTC; 7s ago
     Docs: man:httpd.service(8)
  Main PID: 4067 (httpd)
    Status: "Processing requests..."
    CGroup: /system.slice/httpd.service
            └─4067 /usr/sbin/httpd -DFOREGROUND
              └─4068 /usr/sbin/httpd -DFOREGROUND
                └─4069 /usr/sbin/httpd -DFOREGROUND
                  └─4070 /usr/sbin/httpd -DFOREGROUND
                    └─4071 /usr/sbin/httpd -DFOREGROUND
                      └─4072 /usr/sbin/httpd -DFOREGROUND

Oct 28 13:35:07 ip-172-31-28-126.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 28 13:35:07 ip-172-31-28-126.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-28-126 html]#
```

i-0cf7dd045d0310335 (instance2)

Public IPs: 18.191.136.23    Private IPs: 172.31.28.126

ss5:username password page

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Avatar

Username  Password  Login ☒ Remember me

Cancel Forgot password?

ss6:userid passkey

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Avatar

UserId  PassKey  Login ☒ Remember me

Cancel Forgot password?

Step5:Create a application Load balancer with the above two instances as targets

ss7:Load balancer screenshot

The screenshot displays the AWS Management Console interface for an Elastic Load Balancing (ELB) instance. At the top, there is a 'Create Load Balancer' button and an 'Actions' dropdown menu. Below this is a search bar and a table listing the ELB instances. The table has columns for Name, DNS name, State, VPC ID, Availability Zones, and Type. The instance 'my-elb-01' is listed with a DNS name of 'my-elb-01-1499838652.us-east-2.elb.amazonaws.com' and a state of 'active'. Below the table, the 'Load balancer: my-elb-01' section is shown with tabs for Description, Listeners, Monitoring, Integrated services, and Tags. The 'Description' tab is selected, showing the 'Basic Configuration' section. This section lists the following details: Name (my-elb-01), ARN (arn:aws:elasticloadbalancing:us-east-2:643891741780:loadbalancer/app/my-elb-01/1fe7367241b1d2d4), DNS name (my-elb-01-1499838652.us-east-2.elb.amazonaws.com (A Record)), State (active), Type (application), Scheme (internet-facing), and IP address type (ipv4). The DNS name is highlighted with a red box.

Name	DNS name	State	VPC ID	Availability Zones	Type
my-elb-01	my-elb-01-1499838652.us-east-2.elb.amazonaws.com	active	vpc-04e64e6f	us-east-2c, us-east-2a,...	application

**Load balancer: my-elb-01**

**Description** | Listeners | Monitoring | Integrated services | Tags

**Basic Configuration**

- Name: my-elb-01
- ARN: arn:aws:elasticloadbalancing:us-east-2:643891741780:loadbalancer/app/my-elb-01/1fe7367241b1d2d4
- DNS name: my-elb-01-1499838652.us-east-2.elb.amazonaws.com (A Record)
- State: active
- Type: application
- Scheme: internet-facing
- IP address type: ipv4

Step6:Check the functioning of ELB using the DNS of the ELB

use the dns

ss8:reply from server1

The screenshot shows a web browser window with the address bar displaying 'my-elb-01-1499838652.us-east-2.elb.amazonaws.com'. The page content includes a login form with fields for 'Avatar', 'UserId', 'PassKey', and 'Login'. There is also a 'Remember me' checkbox and a 'Forgot password?' link. The browser's address bar and tabs are visible at the top.

my-elb-01-1499838652.us-east-2.elb.amazonaws.com

Avatar  
UserId: Enter Username  
PassKey: Enter Password  
Login  
Remember me  
Cancel  
Forgot password?

ss9:reply from server2

This screenshot is identical to the previous one, showing a web browser window with the address bar displaying 'my-elb-01-1499838652.us-east-2.elb.amazonaws.com'. The page content includes a login form with fields for 'Avatar', 'Username', 'Password', and 'Login'. There is also a 'Remember me' checkbox and a 'Forgot password?' link. The browser's address bar and tabs are visible at the top.

my-elb-01-1499838652.us-east-2.elb.amazonaws.com

Avatar  
Username: Enter Username  
Password: Enter Password  
Login  
Remember me  
Cancel  
Forgot password?