

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

ss1:instances list

aws

Services

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Instances (1/2)

Filter instances

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm Status | Availability zone |
|-------------------------------------|-------|---------------------|----------------|---------------|----------------|--------------|-------------------|
| <input type="checkbox"/> | demo2 | i-0e195ec014310cd20 | Running | t2.micro | 2/2 checks ... | No alarms | us-east-2c |
| <input checked="" type="checkbox"/> | demo1 | i-047a4add705adee2a | Running | t2.micro | 2/2 checks ... | No alarms | us-east-2b |

Instance summary

Instance ID

i-047a4add705adee2a (demo1)

Instance state

Running

Instance type

t2.micro

IAM Role

Public IPv4 address

18.217.76.164 | open address

Public IPv4 DNS

ec2-18-217-76-164.us-east-2.compute.amazonaws.com | open address

Elastic IP addresses

Subnet ID

subnet-c15555bb

Private IPv4 addresses

172.31.23.180

Private IPv4 DNS

ip-172-31-23-180.us-east-2.compute.internal

VPC ID

vpc-3853f053

ss2:select a instance and display instance details of server1

aws

Services

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Instances (1/2)

Filter instances

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm Status | Availability zone |
|-------------------------------------|-------|---------------------|----------------|---------------|----------------|--------------|-------------------|
| <input type="checkbox"/> | demo2 | i-0e195ec014310cd20 | Running | t2.micro | 2/2 checks ... | No alarms | us-east-2c |
| <input checked="" type="checkbox"/> | demo1 | i-047a4add705adee2a | Running | t2.micro | 2/2 checks ... | No alarms | us-east-2b |

Instance summary

Instance ID

i-047a4add705adee2a (demo1)

Instance state

Running

Instance type

t2.micro

IAM Role

Public IPv4 address

18.217.76.164 | open address

Public IPv4 DNS

ec2-18-217-76-164.us-east-2.compute.amazonaws.com | open address

Elastic IP addresses

Subnet ID

subnet-c15555bb

Private IPv4 addresses

172.31.23.180

Private IPv4 DNS

ip-172-31-23-180.us-east-2.compute.internal

VPC ID

vpc-3853f053

ss3:select a instance and display instance details of server2

The screenshot shows the AWS Management Console interface. On the left, the navigation pane includes sections for EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The 'Instances' section is expanded, showing a list of two instances: 'demo2' and 'demo1'. The 'demo2' instance is selected, and its details are shown in the main pane. The instance is in a 'Running' state, using the 't2.micro' instance type, and has a public IPv4 address of 18.191.142.22. The details pane also shows the instance's status checks, alarm status, and availability zone.

Step2:Launch both instances

ss4:Status:Active running- black screen

```
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9
Installing : httpd-filesystem-2.4.46-1.amzn2.noarch 7/9
Installing : mod_http2-1.15.14-2.amzn2.x86_64 8/9
Installing : httpd-2.4.46-1.amzn2.x86_64 9/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : httpd-filesystem-2.4.46-1.amzn2.noarch 2/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 3/9
Verifying : httpd-tools-2.4.46-1.amzn2.x86_64 4/9
Verifying : mod_http2-1.15.14-2.amzn2.x86_64 5/9
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64 6/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 8/9
Verifying : httpd-2.4.46-1.amzn2.x86_64 9/9

Installed:
  httpd.x86_64 0:2.4.46-1.amzn2

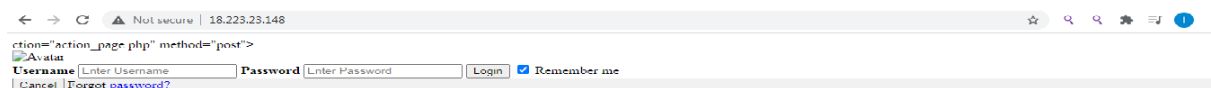
Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2
  apr-util.x86_64 0:1.6.1-5.amzn2.0.2
  httpd-filesystem.noarch 0:2.4.46-1.amzn2
  mailcap.noarch 0:2.1.41-2.amzn2
  apr-util.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-tools.x86_64 0:2.4.46-1.amzn2
  mod_http2.x86_64 0:1.15.14-2.amzn2

Complete!
[root@ip-172-31-23-180 ec2-user]# cd /var/www/html
```

i-047a4add705adee2a (demo1)
Public IPs: 18.217.76.164 Private IPs: 172.31.23.180

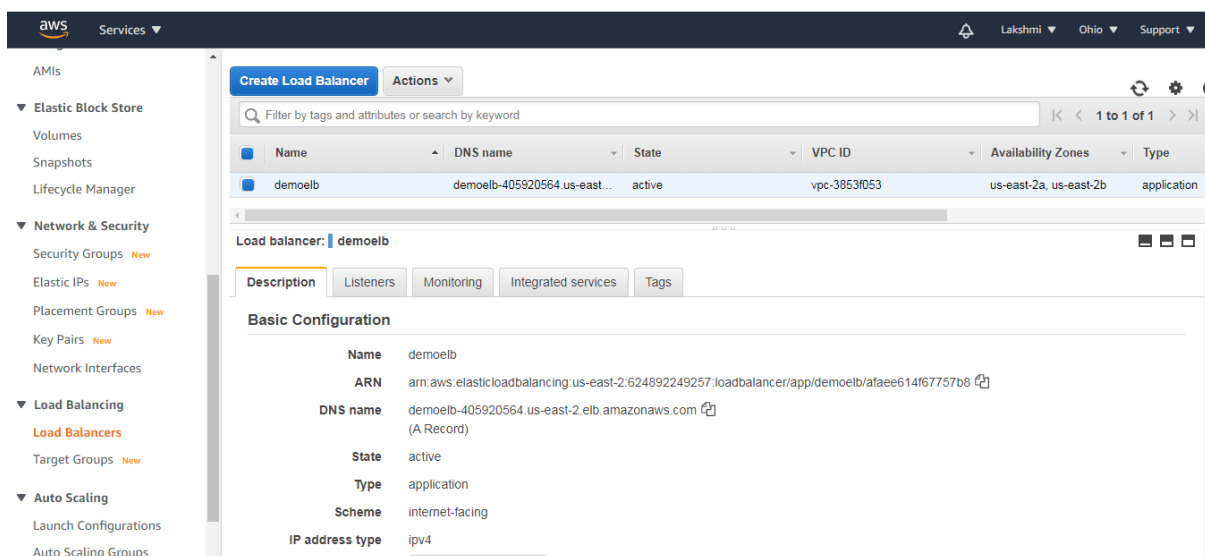
Step3:Check if application is deployed on both servers by copy pasting the public ip of the servers into the browser.

ss5:username password page



Avatar **Userid** **Passkey** ☒ Remember me
 [Forgot password?](#)

ss7:Load balancer screenshot



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

ss8:reply from server1

← → ↺

Not secure | demoelb-405920564.us-east-2.elb.amazonaws.com

☆ 🔍 🛠️ ☰ ⓘ

Avatar

Userid

Enter Username

Passkey

Enter Password

Login

☒ Remember me

Cancel

Forgot [password?](#)

ss9:reply from server2

Avatar

Username

Enter Username

Password

Enter Password

Login

☒ Remember me

Cancel

Forgot [password?](#)

TASK-2 :Creating a User Pool in AWS Cognito

Create a User Pool in AWS Cognito.

aws

Services ▾

🔔

Lakshmi ▾

N. Virginia ▾

Support ▾

Name

Attributes

Policies

MFA and verifications

Message customizations

Tags

Devices

App clients

Triggers

Review

What do you want to name your user pool?

Give your user pool a descriptive name so you can easily identify it in the future.

Pool name

How do you want to create your user pool?

Review defaults

Start by reviewing the defaults and then customize as desired

Step through settings

Step through each setting to make your choices

Lakshmi

N. Virginia

Support

Email address or phone number - Users can use an email address or phone number as their "username" to sign up and sign in.

☒ Allow email addresses

☐ Allow phone numbers

☐ Allow both email addresses and phone numbers (users can choose one)

You can choose to enable case insensitivity on the username input for the selected sign-in option. For example, when this option is selected, the users can sign in using either "username" or "Username".

☒ (Recommended) Enable case insensitivity for username input

← → ↺

console.aws.amazon.com/cognito/users/?region=us-east-1#/pool/new/policies?f=1&_k=zu8f4o

☆ 🔍 🌐 ☰

aws

Services ▾

🔔 Lakshmi ▾ N. Virginia ▾ Support ▾

Name

Attributes

Policies

MFA and verifications

Message customizations

Tags

Devices

App clients

Triggers

Review

What password strength do you want to require?

Minimum length

8

☒ Require numbers

☒ Require special character

☒ Require uppercase letters

☒ Require lowercase letters

Do you want to allow users to sign themselves up?

You can choose to only allow administrators to create users or allow users to sign themselves up. [Learn more.](#)

☒ Only allow administrators to create users

☐ Allow users to sign themselves up

How quickly should temporary passwords set by administrators expire if not used?

You can choose for how long until a temporary password set by an administrator expires if the password is not used. This includes accounts created by administrators.

Days to expire

7

MFA and Verifications

aws

Services

LakshmiN. VirginiaSupport

MFA and verifications

Message customizations

Tags

Devices

App clients

Triggers

Review

adaptive authentication on the Advanced security tab to require MFA based on risk scoring of user sign in attempts. [Learn more about multi-factor authentication.](#)

Note: separate charges apply for sending text messages.

☒ Off

☐ Optional

☐ Required

How will a user be able to recover their account?

When a user forgets their password, they can have a code sent to their verified email or verified phone to recover their account. You can choose the preferred way to send codes below. We recommend not allowing phone to be used for both password resets and multi-factor authentication (MFA). [Learn more.](#)

☐ Email if available, otherwise phone, but don't allow a user to reset their password via phone if they are also using it for MFA

☐ Phone if available, otherwise email, but don't allow a user to reset their password via phone if they are also using it for MFA

☒ Email only

☐ Phone only, but don't allow a user to reset their password via phone if they are also using it for MFA

☐ (Not Recommended) Phone if available, otherwise email, and do allow a user to reset their password via phone if they are also using it for MFA.

☐ None – users will have to contact an administrator to reset their passwords

Which attributes do you want to verify?

Verification requires users to retrieve a code from their email or phone to confirm ownership. Verification of a phone or email is necessary to automatically confirm users and enable recovery from forgotten passwords. [Learn more about email and phone verification.](#)

☒ Email

☐ Phone number

☐ Email or phone number

☐ No verification

Review:

aws

Services

LakshmiN. VirginiaSupport

Attributes

Policies

MFA and verifications

Message customizations

Tags

Devices

App clients

Triggers

Review

Pool name mypool

Required attributes

address, email, gender, name, phone_number, profile

Alias attributes

[Choose alias attributes...](#)

Username attributes

email

Enable case insensitivity?

Yes

Custom attributes

[Choose custom attributes...](#)

Minimum password length

8

Password policy

uppercase letters, lowercase letters, special characters, numbers

User sign ups allowed?

Only administrators can create users

FROM email address

Default

Email Delivery through Amazon SES

No

Note: You have chosen to have Cognito send emails on your behalf. Best practices suggest that customers send emails through Amazon SES for production User Pools due to a daily email limit. [Learn more about email best practices.](#)

aws

Services

LakshmiN. VirginiaSupport

FROM email address Default

Email Delivery through Amazon SES

No

Note: You have chosen to have Cognito send emails on your behalf. Best practices suggest that customers send emails through Amazon SES for production User Pools due to a daily email limit. [Learn more about email best practices.](#)

MFA

[Enable MFA...](#)

Verifications

Email

Tags

name

App clients

[Add app client...](#)

Triggers

[Add triggers...](#)

Create pool

Completion and Conclusion

aws

Services

Users and groups

Attributes

Policies

MFA and verifications

Advanced security

Message customizations

Tags

Devices

App clients

Triggers

Analytics

App integration

App client settings

Domain name

UI customization

Resource servers

Federation

Identity providers

Attribute mapping

Your user pool was created successfully.

Pool Id

us-east-1_wgoh1uqmH

Pool ARN

arn:aws:cognito-idp:us-east-1:624892249257:userpool/us-east-1_wgoh1uqmH

Estimated number of users

0

Required attributes

name, profile, email, gender, phone_number, address

Alias attributes

none

Username attributes

email

Enable case insensitivity?

Yes

Custom attributes

Choose custom attributes...

Minimum password length

8

Password policy

uppercase letters, lowercase letters, special characters, numbers

User sign ups allowed?

Only administrators can create users

