

DAY 9 – Assignment

Project 1: Elastic Load Balancer

Task 1: instances list

The screenshot shows the AWS Management Console interface for the EC2 Instances page. The top navigation bar includes the AWS logo, the user's name (manoj K), and the region (Ohio). The left sidebar contains the 'Instances (1/2)' section, which is expanded to show a list of instances. The main content area displays the details for the selected instance, 'server1'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
server1	i-014def7b5fe24f335	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2c	ec2-3-129-14-98.us-e...	3.129.14.98	-
server2	i-0a28231198b19f2f5	Running	t2.micro	2/2 checks ...	No alarms +	us-east-2c	ec2-3-22-233-145.us...	3.22.233.145	-

The details for the 'server1' instance (i-014def7b5fe24f335) are shown on the right. The instance is in a 'Running' state. The details include:

- Instance ID:** i-014def7b5fe24f335 (server1)
- Instance state:** Running
- Instance type:** t2.micro
- IAM Role:** -
- Public IPv4 address:** 3.129.14.98 | open address
- Public IPv4 DNS:** ec2-3-129-14-98.us-east-2.compute.amazonaws.com | open address
- Elastic IP addresses:** -
- Subnet ID:** subnet-0e565e42
- Private IPv4 addresses:** 172.31.43.148
- Private IPv4 DNS:** ip-172-31-43-148.us-east-2.compute.internal
- VPC ID:** vpc-564fec3d
- Monitoring:** disabled
- AMI ID:** ami-03657b56516ab7912
- Platform:** Amazon Linux (Inferred)

Instances | EC2 Management console | us-east-2.console.aws.amazon.com/ec2/v2/home

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manoj K | Ohio | Support

EC2 Dashboard | New | Events | Tags | Limits | Instances | Instances | Instance Types | Launch Templates | Spot Requests | Savings Plans | Reserved Instances | Dedicated Hosts | Capacity Reservations | Images | AMIs | Elastic Block Store | Volumes | Snapshots | Lifecycle Manager | Network & Security | Security Groups | Elastic IPs | Placement Groups | Key Pairs | Network Interfaces

New EC2 Experience | Tell us what you think

Instances (1/2) | Info

Filter instances

Launch instances

Connect

Instance state

Actions

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
<input type="checkbox"/>	server1	i-014def7b5fe24f335	Running	t2.micro	2/2 checks ...	No alarms	us-east-2c	ec2-3-129-14-98.us-e...	3.129.14.98	-
<input checked="" type="checkbox"/>	server2	i-0a28231198b19f2f5	Running	t2.micro	2/2 checks ...	No alarms	us-east-2c	ec2-3-22-233-145.us-...	3.22.233.145	-

Instance: i-0a28231198b19f2f5 (server2)

Details

Security

Networking

Status Checks

Storage

Monitoring

Tags

▼ Instance summary

Instance ID
i-0a28231198b19f2f5 (server2)

Instance state
Running

Instance type
t2.micro

IAM Role

▼ Instance details

Platform
Amazon Linux (Inferred)

AMI ID
ami-03657b56516ab7912

Monitoring
disabled

Subnet ID
subnet-0e563e42

Elastic IP addresses

Public IPv4 DNS
ec2-3-22-233-145.us-east-2.compute.amazonaws.com | open address

Public IPv4 address
3.22.233.145 | open address

VPC ID
vpc-564fec3d

Private IPv4 DNS
ip-172-31-44-74.us-east-2.compute.internal

Private IPv4 addresses
172.31.44.74

Feedback

English (US)

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13:49

26-10-2020

Status:Active running- black screen

The screenshot displays the AWS Management Console interface with a terminal window open on an Amazon EC2 instance. The terminal shows the following commands and outputs:

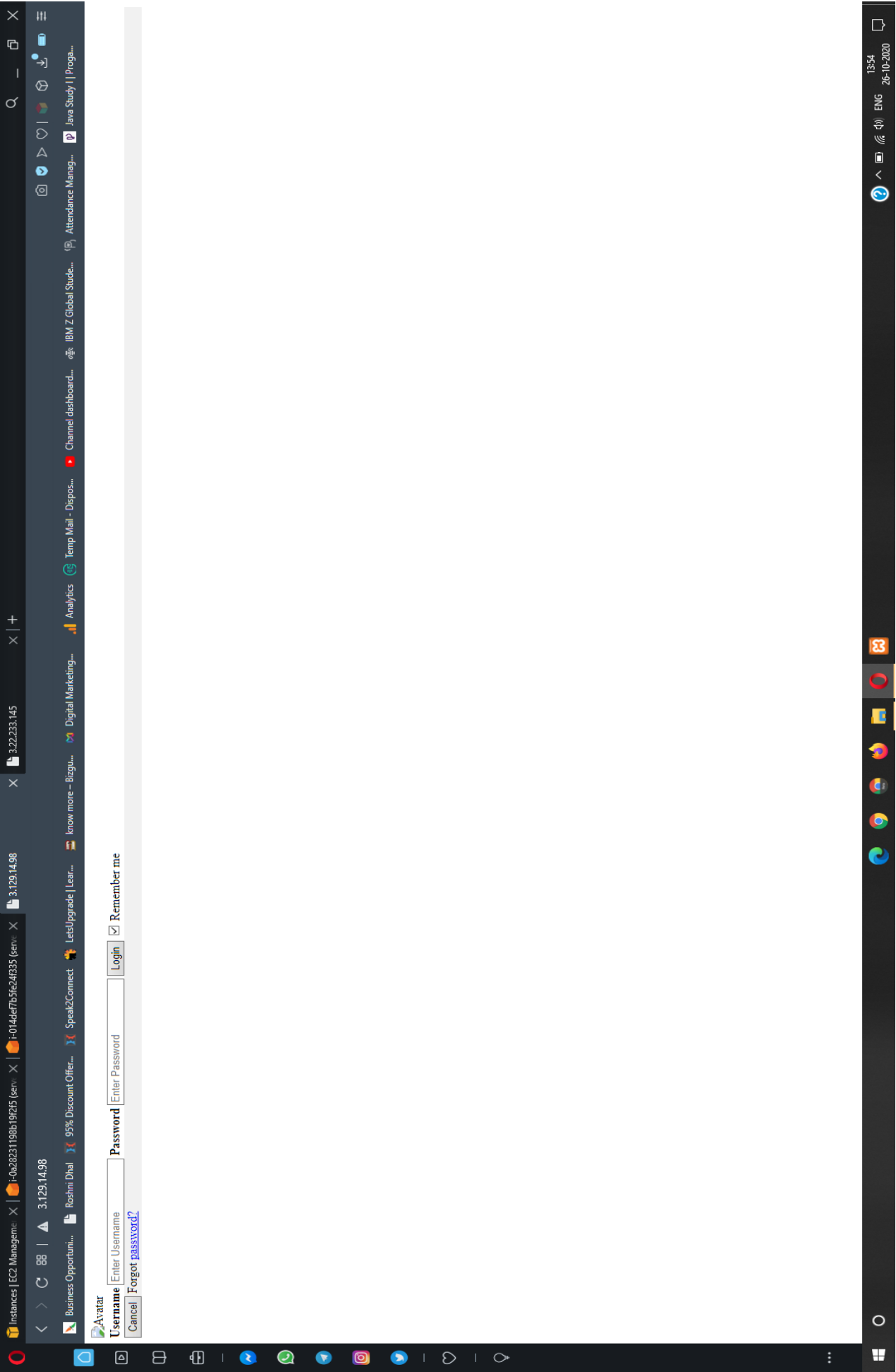
```
"index.html" [New] 19L, 705C written
[root@ip-172-31-43-148 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-43-148 html]# service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Mon 2020-10-26 08:18:33 UTC; 14s ago
     Docs: man:httpd.service(8)
   Main PID: 3991 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
   CGroup: /system.slice/httpd.service
           └─3991 /usr/sbin/httpd -DFOREGROUND
           └─3992 /usr/sbin/httpd -DFOREGROUND
           └─3993 /usr/sbin/httpd -DFOREGROUND
           └─3994 /usr/sbin/httpd -DFOREGROUND
           └─3995 /usr/sbin/httpd -DFOREGROUND
           └─3996 /usr/sbin/httpd -DFOREGROUND
```

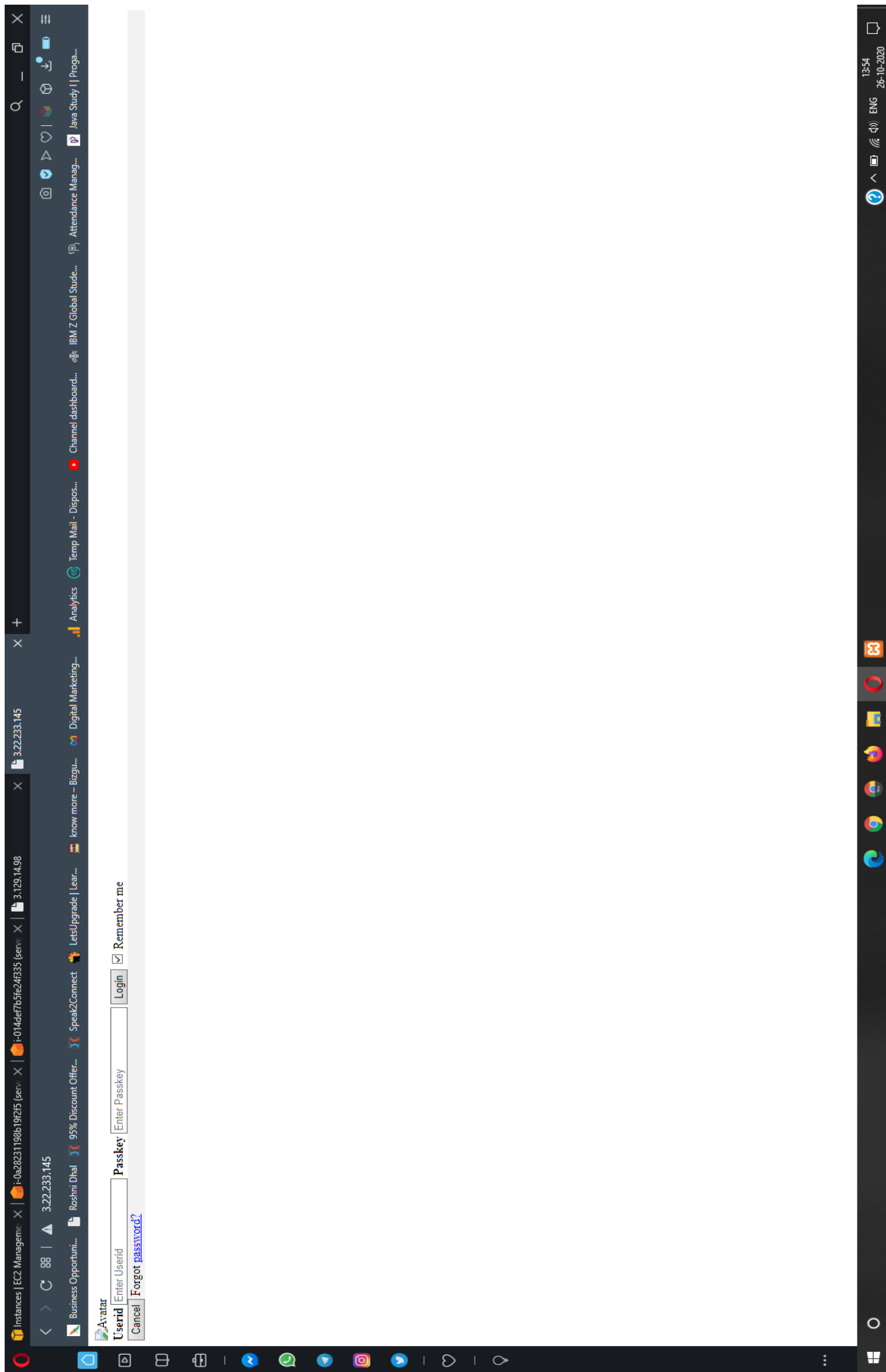
Below the terminal output, the system logs show the following messages:

```
Oct 26 08:18:33 ip-172-31-43-148.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 26 08:18:33 ip-172-31-43-148.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-43-148 html]#
```

The instance ID is **i-014def7b5fe24f335 (server1)**. The public IP is 3.129.14.98 and the private IP is 172.31.43.148.

Application launch page





Load balancer details

Create Load Balancer

Filter by tags and attributes or search by keyword

Name	DNS name	VPC ID	Availability Zones	Type	Created At	Monitoring
elbproject	elbproject-277639603.us-east-2.elb.amazonaws.com	vpc-564fec3d	us-east-2b, us-east-2c	application	October 26, 2020 at 1:56:33 ...	

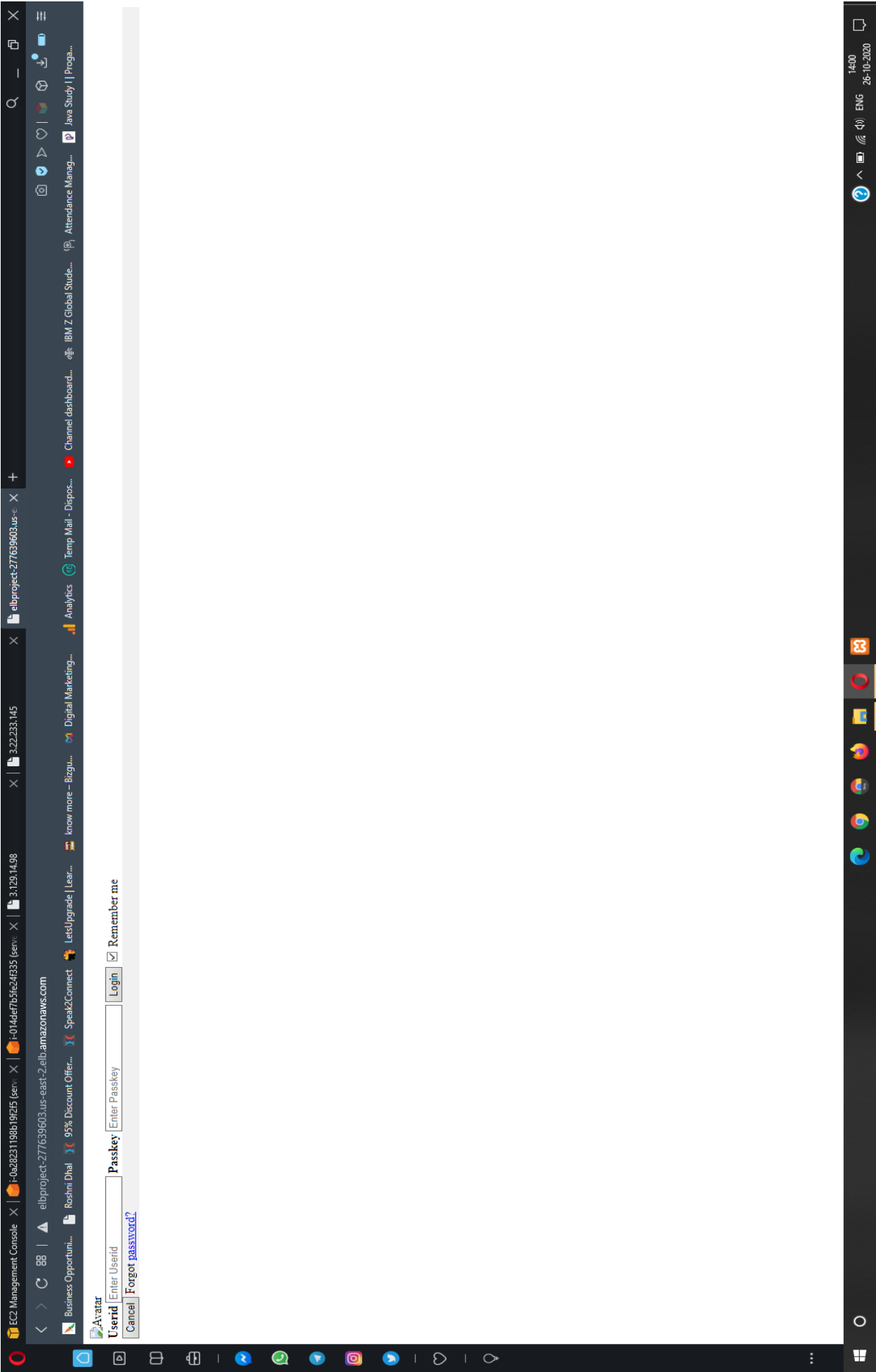
Load balancer: elbproject

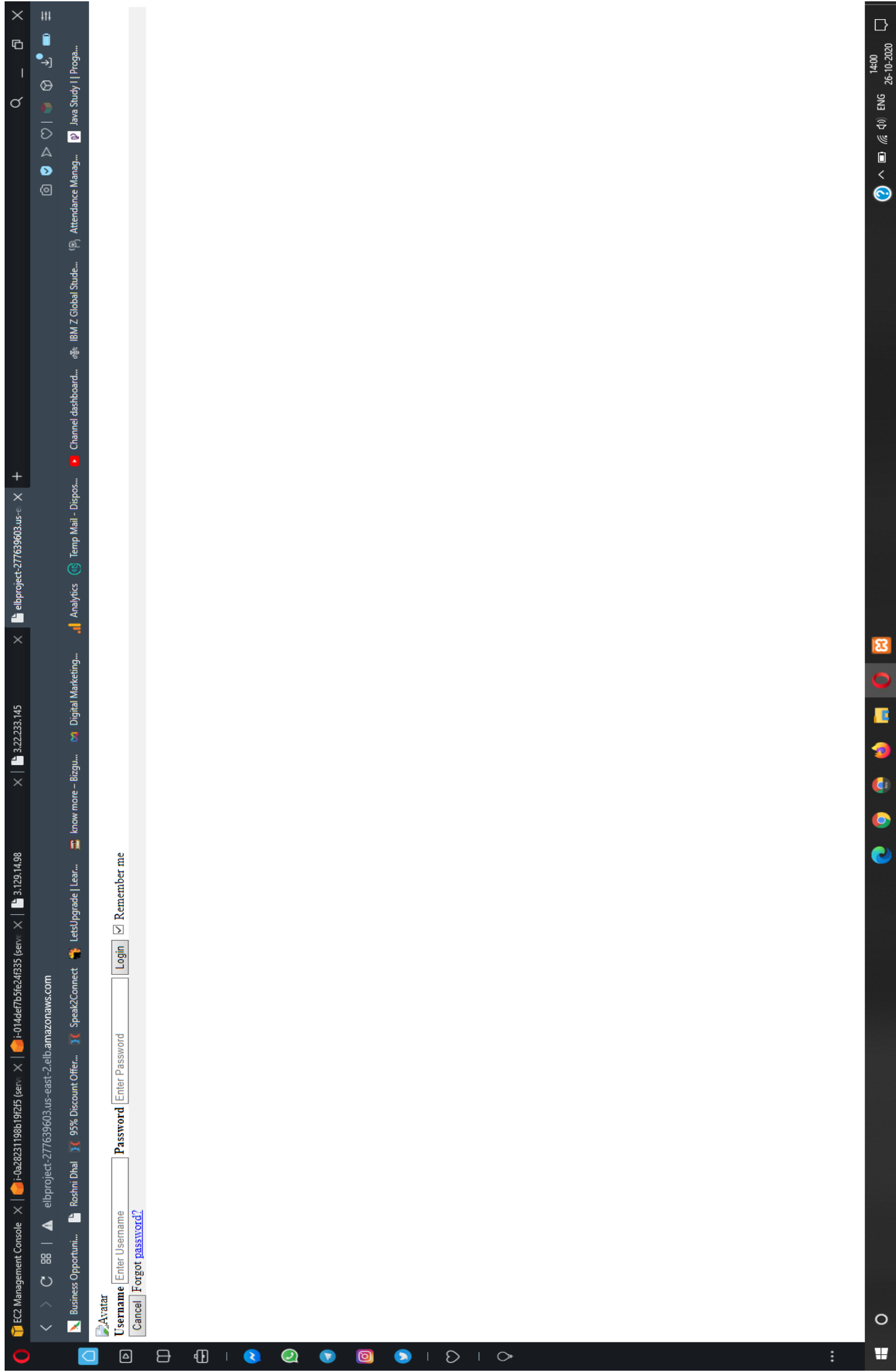
- Description
- Listeners
- Monitoring
- Integrated services
- Tags

Basic Configuration

Name	elbproject
ARN	arn:aws:elasticloadbalancing:us-east-2:45024665952:loadbalancer/app/elbproject/dc7d773dfec83a2
DNS name	elbproject-277639603.us-east-2.elb.amazonaws.com (A Record)
State	active
Type	application
Scheme	internet-facing
IP address type	ipv4
Edit IP address type	
VPC	vpc-564fec3d
Availability Zones	subnet-0a77f7f0 - us-east-2b IPv4 address: Assigned by AWS
	subnet-0e563ea42 - us-east-2c IPv4 address: Assigned by AWS
	subnet-657cb70e - us-east-2a IPv4 address: Assigned by AWS
Edit subnets	

Load balancer verification





Getting started - Amazon

X

i-0a2d231198b19f2f5 (serv...)

X

us-east-2.console.aws.amazon.com/cognito/home

X

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X

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X

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X

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X

Analytics

X

Temp Mail - Dispos...

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X

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Support

aws

Services

Amazon Cognito

Amazon Cognito offers user pools and identity pools. User pools are user directories that provide sign-up and sign-in options for your app users. Identity pools provide AWS credentials to grant your users access to other AWS services.

Manage User Pools

Manage Identity Pools

Add Sign-up and Sign-in

With Cognito User Pools, you can easily and securely add sign-up and sign-in functionality to your mobile and web apps with a fully-managed service that scales to support hundreds of millions of users.

Grant your users access to AWS services

With Cognito Identity Pools, your app can get temporary credentials to access AWS services for anonymous guest users or for users who have signed in.

Amazon Cognito documentation and support

Getting Started Guide for Android

|

Getting Started Guide for iOS

|

API reference

|

Forums

Feedback

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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

Which standard attributes do you want to require?

All of the standard attributes can be used for user profiles, but the attributes you select will be required for sign up. You will not be able to change these requirements after the pool is created. If you select an attribute to be an alias, users will be able to sign-in using that value or their username. [Learn more about attributes.](#)

Required	Attribute	Required	Attribute
<input checked="" type="checkbox"/>	address	<input type="checkbox"/>	nickname
<input type="checkbox"/>	birthdate	<input checked="" type="checkbox"/>	phone number
<input checked="" type="checkbox"/>	email	<input type="checkbox"/>	picture
<input type="checkbox"/>	family name	<input type="checkbox"/>	preferred username
<input checked="" type="checkbox"/>	gender	<input checked="" type="checkbox"/>	profile
<input checked="" type="checkbox"/>	given name	<input type="checkbox"/>	zoneinfo
<input type="checkbox"/>	locale	<input type="checkbox"/>	updated at
<input checked="" type="checkbox"/>	middle name	<input type="checkbox"/>	website
<input checked="" type="checkbox"/>	name		

Do you want to add custom attributes?

Enter the name and select the type and settings for custom attributes.

Add custom attribute

Back

Next step

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Review

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.](#)

☒ Off

☐ Optional

☐ Required

☐ 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

You must provide a role to allow Amazon Cognito to send SMS messages

Amazon Cognito needs your permission to send SMS messages to your users on your behalf. [Learn more about IAM roles.](#)

New role name

cognito1-SMS-Role

Create role

Back

Next step

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Support

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Tags

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Review

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☒ Off

☐ Optional

☐ Required

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☐ 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

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☒ Email

☐ Phone number

☐ Email or phone number

☐ No verification

You must provide a role to allow Amazon Cognito to send SMS messages

Amazon Cognito needs your permission to send SMS messages to your users on your behalf. [Learn more about IAM roles.](#)

New role name

cognito1-SMS-Role

Create role

Back

Next step

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User Pools | Federated Identities

Create a user pool

Name

Attributes

Policies

MFA and verifications

Message customizations

Tags

Devices

App clients

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Review

Do you want to add tags for this user pool?

You can create new tags by entering tag keys and tag values below

Tag Key

name

Tag Value

user

Add another tag

Back

Next step

Feedback

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Cancel

Name

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Review

Do you want to remember your user's devices?

Always

User Opt In

No

Back

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Support

Attributes

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Review

Pool name

cognito1

Required attributes

address, email, gender, given_name, middle_name, 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?

Users can sign themselves up

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...

Feedback

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aws

Services

User Pools | Federated Identities

cognito1

General settings

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-2_Ls9v4tA12

Pool ARN

arn:aws:cognito-idp:us-east-2:245024665952:userpool/us-east-2_Ls9v4tA12

Estimated number of users

0

Required attributes

name, given_name, middle_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?

Users can sign themselves up

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...](#)

Delete pool

Feedback

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Domain name

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Attribute mapping

Username attributes

email

Enable case insensitivity?

Yes

Custom attributes

Choose custom attributes...

Minimum password length

8

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uppercase letters, lowercase letters, special characters, numbers

User sign ups allowed?

Users can sign themselves up

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

Advanced security

Enable advanced security...

Tags

name

App clients

Add app client...

Triggers

Add triggers...

Feedback

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