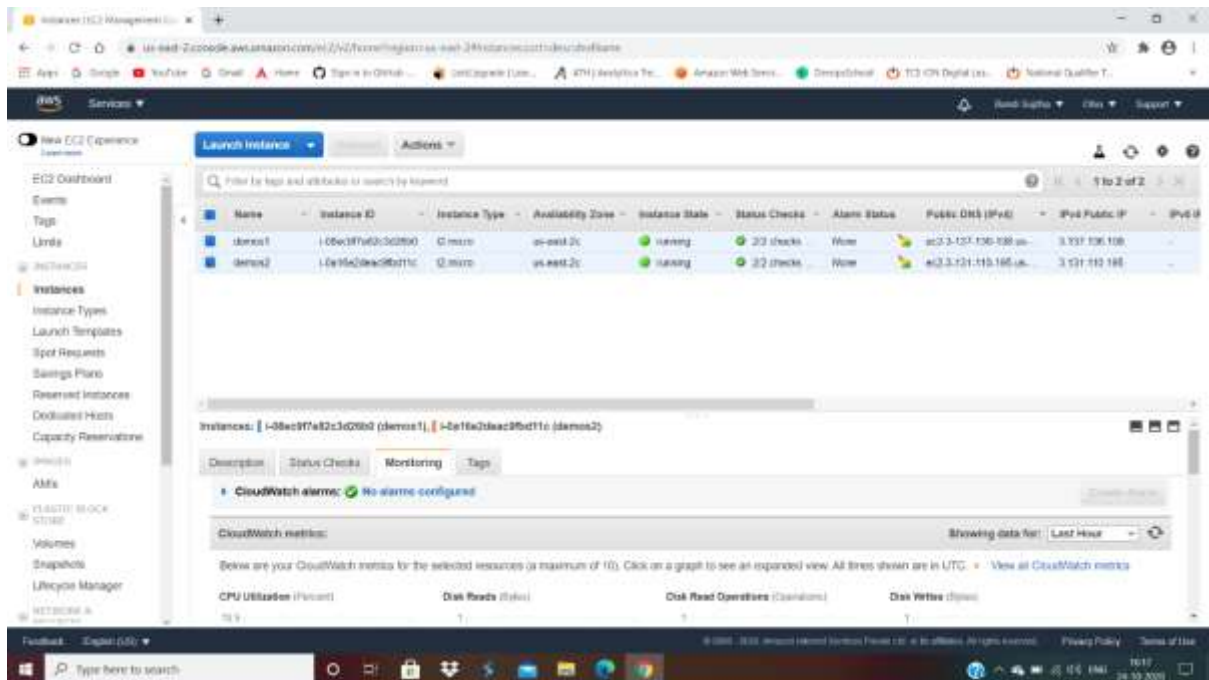


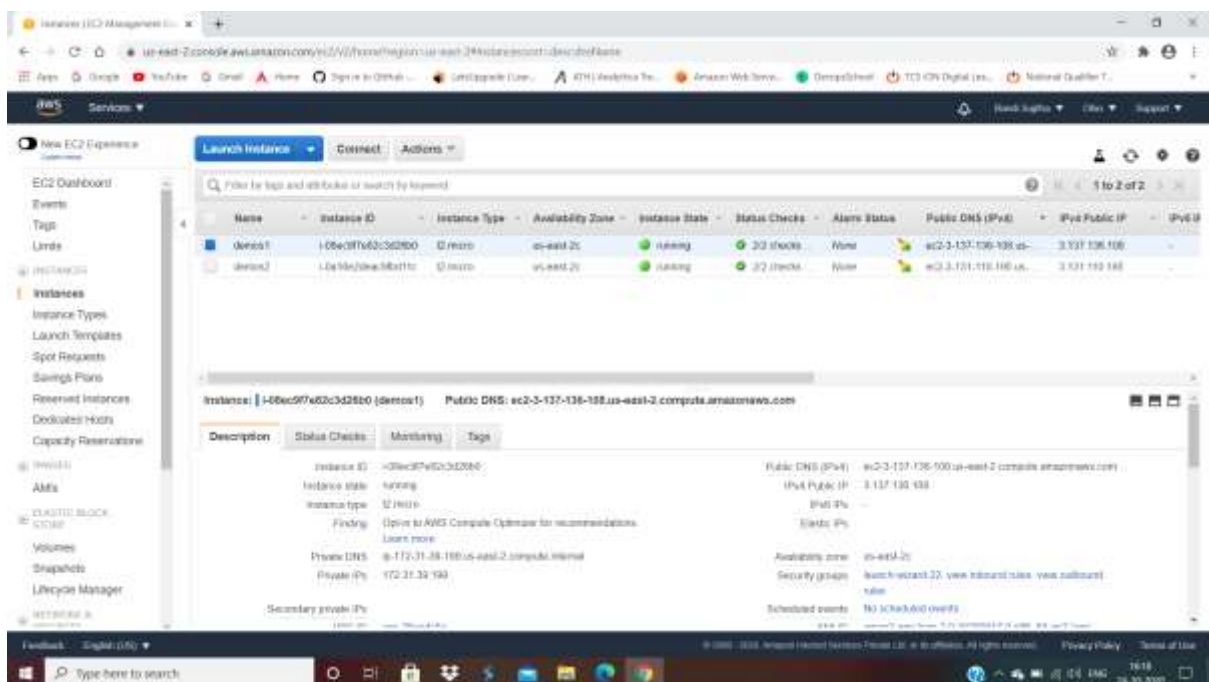
LetsUpgrade AWS Advance Projects

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

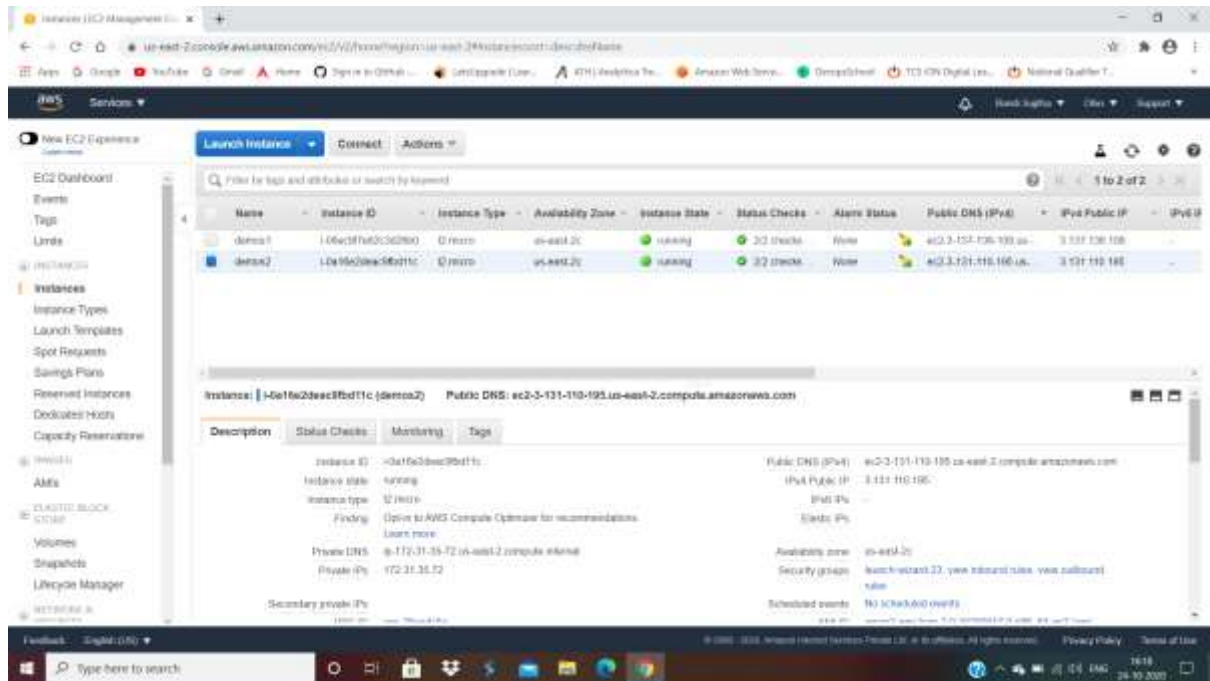
Ss1: Instances list



Ss2: Select a instance and display instance details of server1

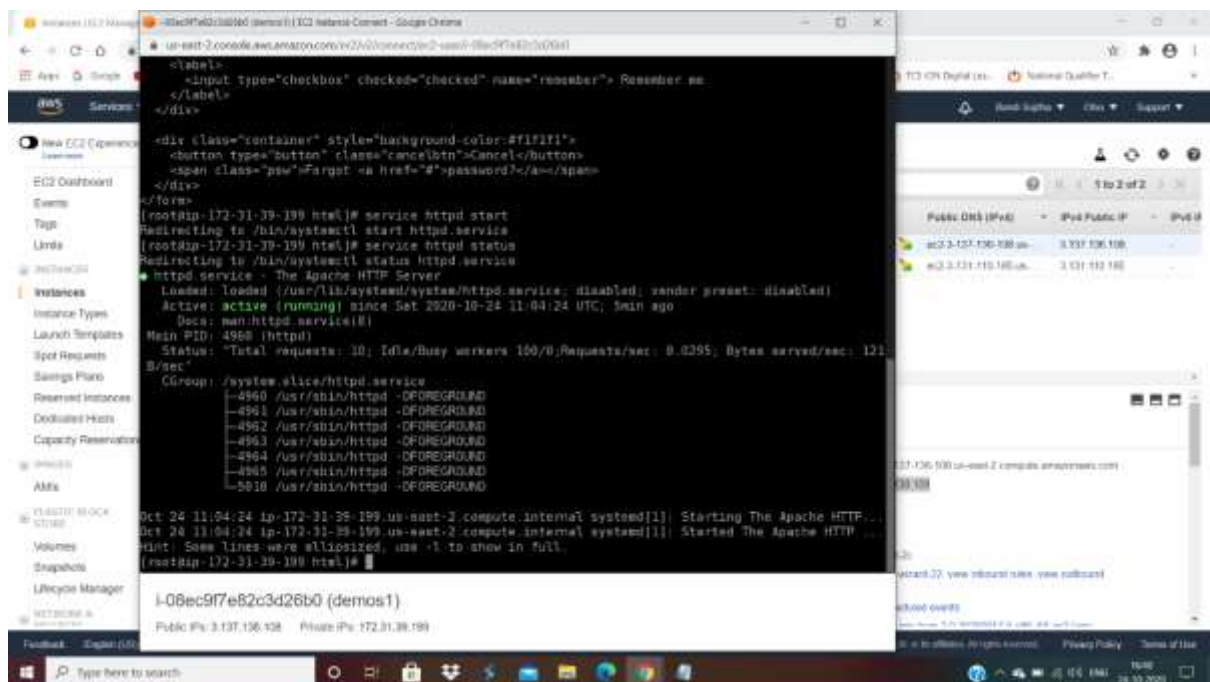


Ss3: Select a instance and display instance details of server2

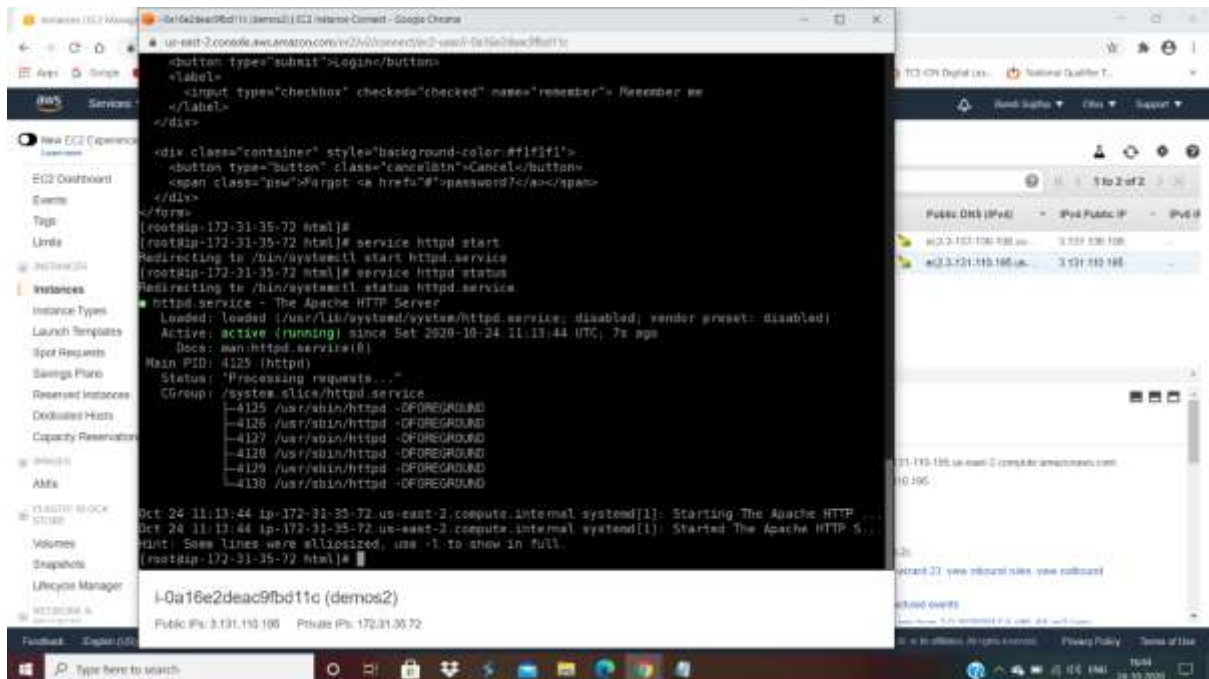


Step-2: Status Active running- black screen

Ss4: Active running of server1

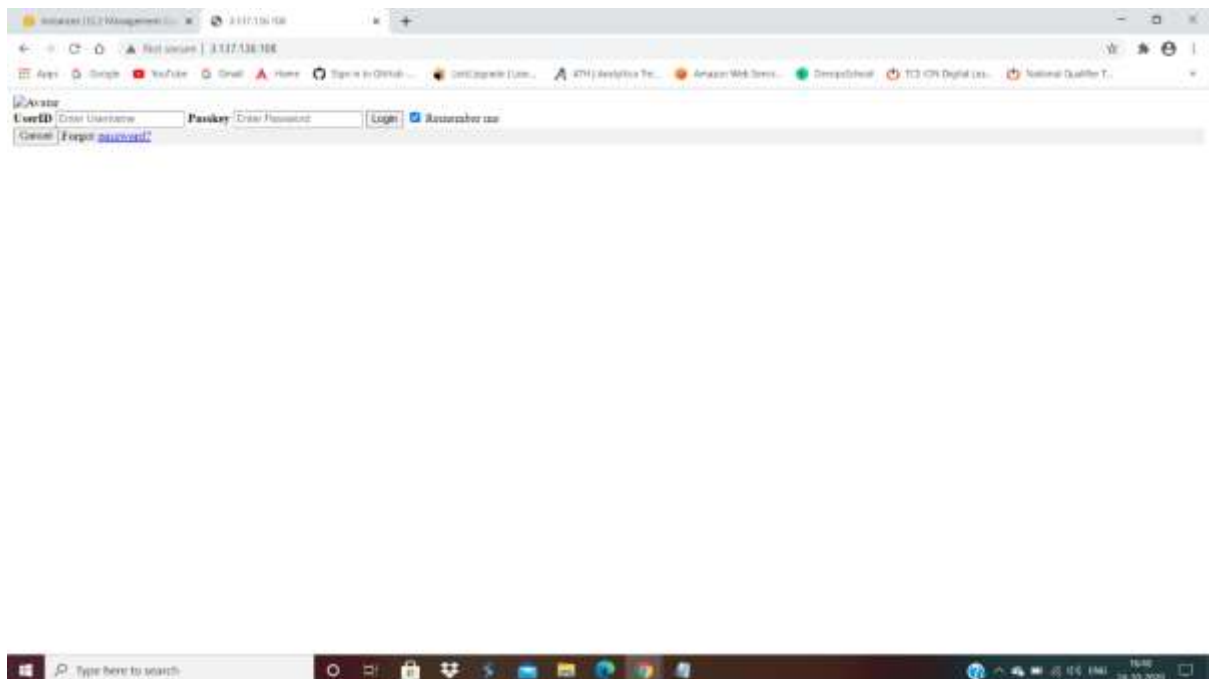


Ss5: Active running of server2

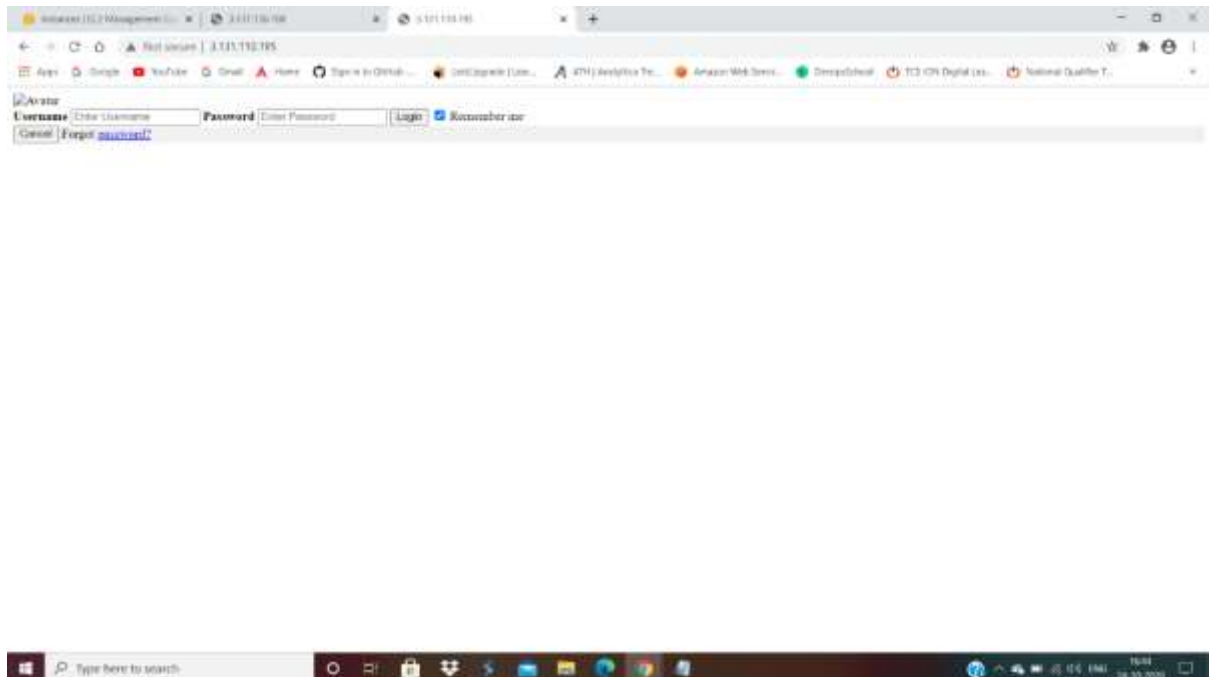


Step3: Check if application is deployed on both servers by copy pasting the public ip of the servers into the browser.

Ss6: UserId Passkey

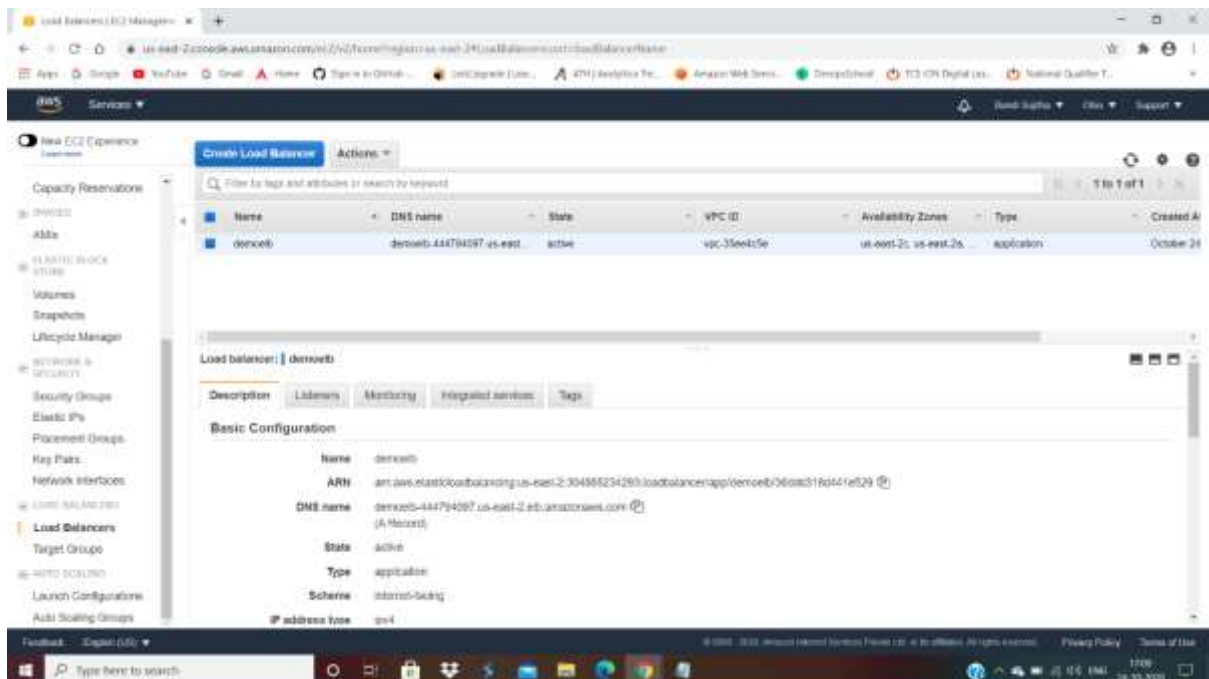


Ss7: Username Password page



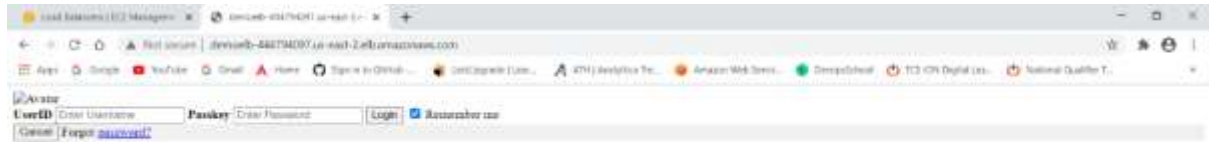
Step4: Create a application Load balancer with the above two instances as targets

Ss8: Load balancer screenshot

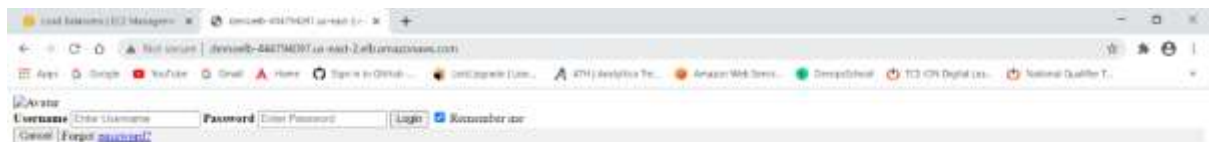


Step5: Check the functioning of ELB using the DNS of the ELB use the DNS

Ss9: Reply from server1



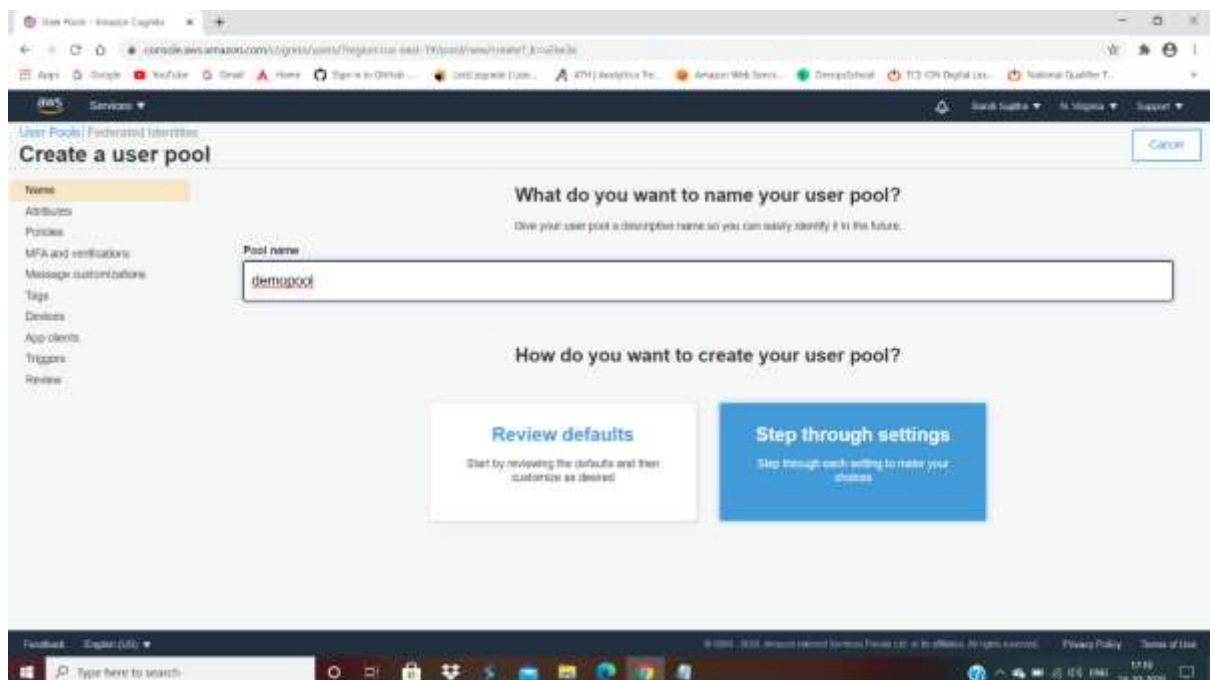
Ss10: Reply from server2



Project: Creating a user pool in AWS Cognito



Step1: Create a user pool



Step2: Attributes

The screenshot shows the 'How do you want your end users to sign in?' configuration page in the AWS IAM console. The page is titled 'How do you want your end users to sign in?' and includes a sub-header 'You can choose to have users sign in with an email address, phone number, username or preferred username plus their password. Learn more.' There are two main sections: 'User sign-in' and 'Email address or phone number'. The 'User sign-in' section has a radio button selected for 'Username' and three checkboxes for 'Also allow sign in with verified email address', 'Also allow sign in with verified phone number', and 'Also allow sign in with preferred username (a username that your users can change)'. The 'Email address or phone number' section has a radio button selected for 'Email address or phone number' and three checkboxes for 'Allow email addresses', 'Allow phone numbers', and 'Allow both email addresses and phone numbers (users can choose one)'. Below these sections, there is a checkbox for '(Recommended) Enable case sensitivity for username input'. The page also includes a section titled 'Which standard attributes do you want to require?' with two columns of attributes and checkboxes. The attributes listed are: address, birthdate, email, family name, gender, given name, locale, middle name, name, nickname, phone number, picture, preferred username, profile, passwords, updated at, and website. The page footer includes the AWS logo, '© 2018 - 2019 Amazon Web Services, Inc. or its affiliates. All rights reserved.', 'Privacy Policy', 'Terms of Use', and a 'Feedback' link.

How do you want your end users to sign in?

You can choose to have users sign in with an email address, phone number, username or preferred username plus their password. [Learn more.](#)

☐ **Username** - Users can use a username and optionally multiple alternatives to sign up and sign in.

- ☐ Also allow sign in with verified email address
- ☐ Also allow sign in with verified phone number
- ☐ Also allow sign in with preferred username (a username that your users can change)

☒ **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 sensitivity 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 sensitivity 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 type="checkbox"/>	address	<input type="checkbox"/>	nickname
<input type="checkbox"/>	birthdate	<input type="checkbox"/>	phone number
<input type="checkbox"/>	email	<input type="checkbox"/>	picture
<input type="checkbox"/>	family name	<input type="checkbox"/>	preferred username
<input type="checkbox"/>	gender	<input type="checkbox"/>	profile
<input type="checkbox"/>	given name	<input type="checkbox"/>	passwords
<input type="checkbox"/>	locale	<input type="checkbox"/>	updated at
<input type="checkbox"/>	middle name	<input type="checkbox"/>	website
<input type="checkbox"/>	name		

The screenshot shows the 'Which standard attributes do you want to require?' configuration page in the AWS IAM console. The page is titled 'Which standard attributes do you want to require?' and includes a sub-header '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.](#)' There are two columns of attributes and checkboxes. The attributes listed are: address, birthdate, email, family name, gender, given name, locale, middle name, name, nickname, phone number, picture, preferred username, profile, passwords, updated at, and website. The page also includes a section titled 'Do you want to add custom attributes?' with a sub-header 'Enter the name and select the type and settings for custom attributes.' and a button 'Add custom attribute'. The page footer includes the AWS logo, '© 2018 - 2019 Amazon Web Services, Inc. or its affiliates. All rights reserved.', 'Privacy Policy', 'Terms of Use', and a 'Feedback' link.

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 checked="" type="checkbox"/>	birthdate	<input checked="" type="checkbox"/>	phone number
<input checked="" type="checkbox"/>	email	<input type="checkbox"/>	picture
<input checked="" 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"/>	passwords
<input checked="" 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](#)

Step3: Policies

Create a user pool

What password strength do you want to require?

Minimum length:

☒ 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:

Step4: MFA and Verification

Create a user pool

Do you want to enable Multi-Factor Authentication (MFA)?

Multi-Factor Authentication (MFA) increases security for your end users. If you choose 'optional', individual users can have MFA enabled. You can only choose 'required' when initially creating a user pool, and if you do, all users must use MFA. Phone numbers must be verified if MFA is enabled. You can configure 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?

Verifier 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.

conode.aws.amazon.com/login/users/register-us-east-1?ypwd=new/verify-verification-to-18_jm5o75g

Services

☒ 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 to 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

devpool-SMS-Role

Create role

Back Next step

Feedback English (US)

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Type here to search

Step5: Message Customization

conode.aws.amazon.com/login/users/register-us-east-1?ypwd=new/message-customization-18_jm5o75g

Services

REPLY-TO email address

Do you want to send emails through your Amazon SES Configuration?

Select 'Yes' if you require higher daily email limits otherwise select 'No'. [Learn more about Cognito daily email limits.](#) If you choose 'Yes', Cognito will send emails through your Amazon SES configuration. [Refer to this documentation for additional steps.](#)

☐ Yes - Use Amazon SES
 Requires FROM email address ARN
 ☒ No - Use Cognito (Default)

Do you want to customize your email verification messages?

You can choose to send a code or a clickable link and customize the message to verify email addresses. [Learn more about email verification.](#)

Verification type

☒ Code ☐ Link

Email subject

Your verification code

Email message

Your verification code is {###}.

Feedback English (US)

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Type here to search

Step6: Tags

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	Tag Value
name	pool

[Add another tag](#)

[Cancel](#) [Save changes](#)

Step7: Review

Pool name: demopool

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

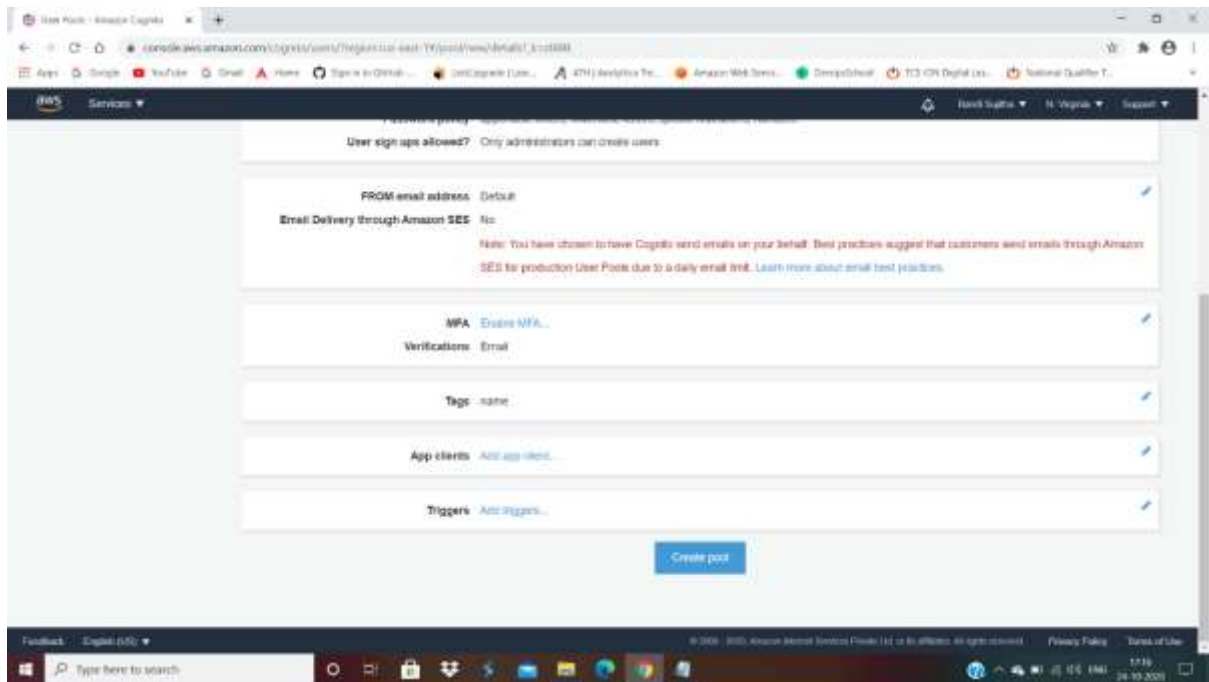
Password policy: uppercase letters, lowercase letters, special characters, numbers

User sign-ups allowed? Only administrators can create users

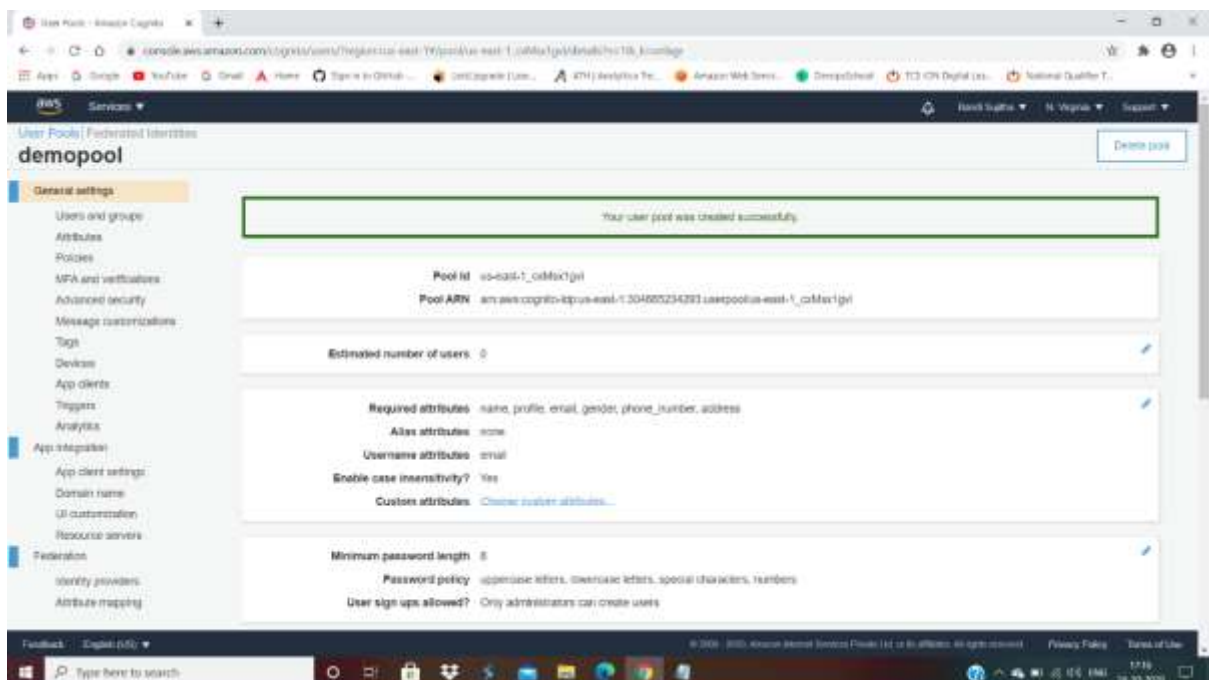
FROM email address: Default

Email Delivery through Amazon SES: No

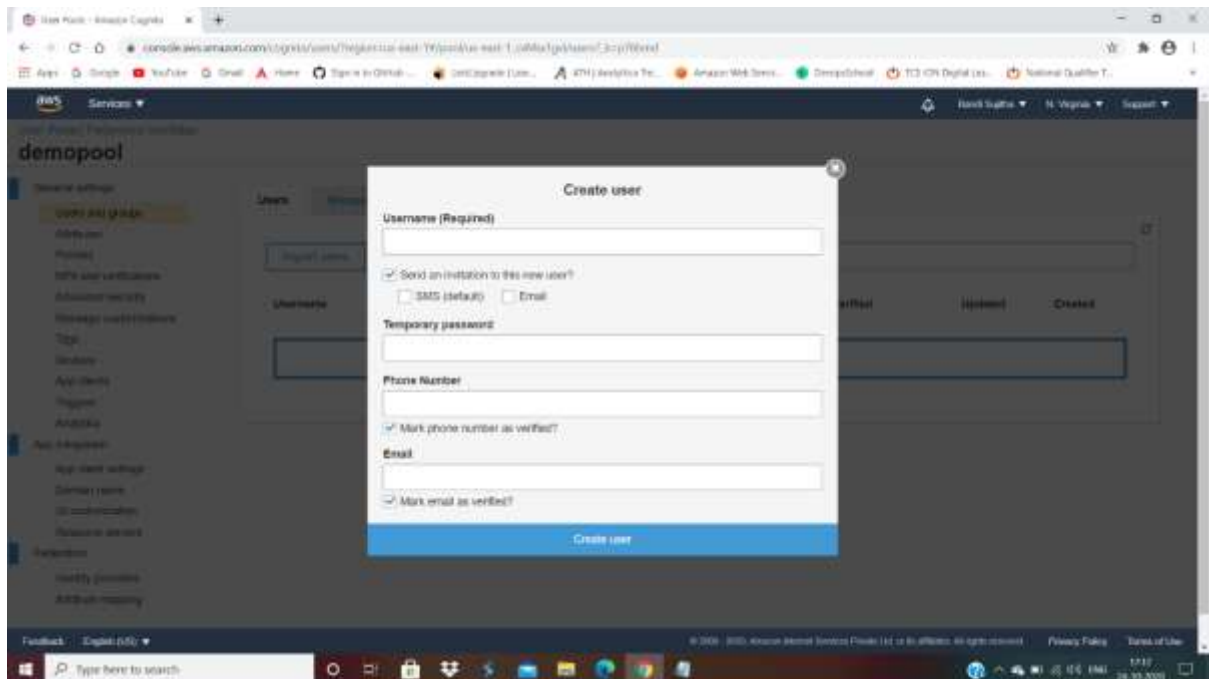
Note: You have chosen to have Cognito send emails on your behalf. Best practices suggest that customers send emails through Amazon SES for production User Pools due to a daily email limit. [Learn more about email send practices.](#)



Step8: You have successfully used AWS management console to create a User Pool.



Step 9: Create User



Step 10: Create Group

