

School of Computer Science, Engineering and Applications(SCSEA)

B.C.A. TY (SCSEA)

Subject: Advance Cloud Computing(ACC)

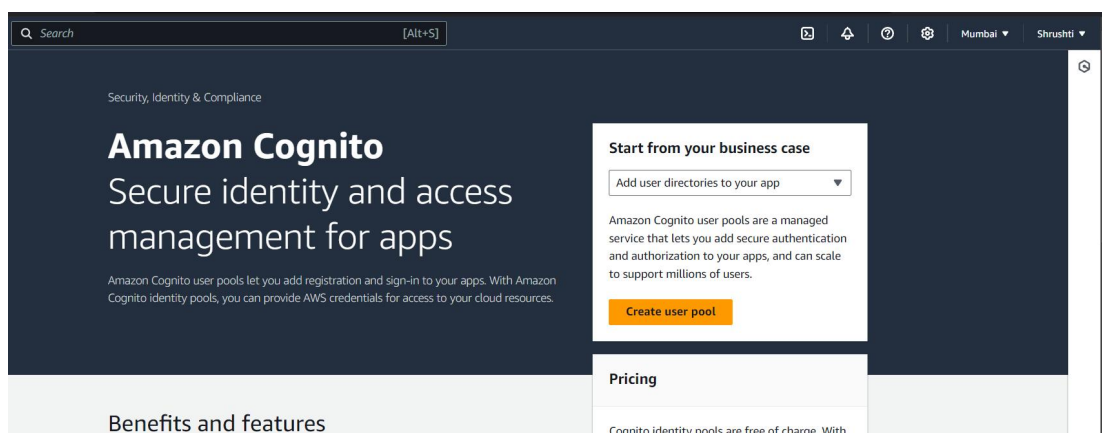
Name of the Student: Shrushti Krishna Shrivastav

PRN: 20220801024

Title of Practicle : Creating a User Pool in AWS Cognito

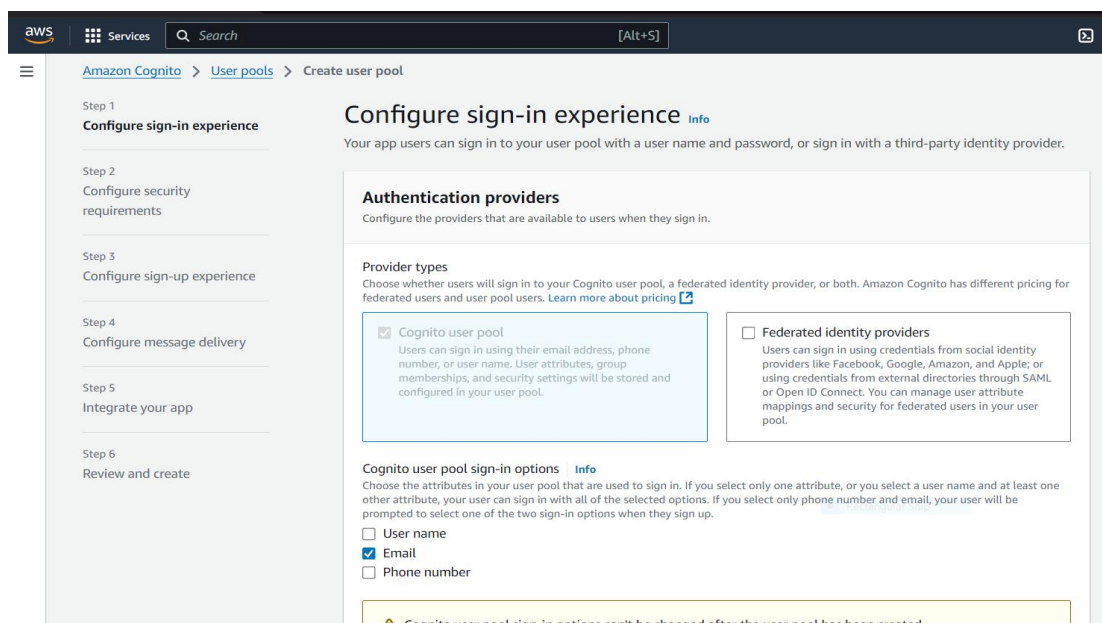
STEP1: LOG IN AND SEARCH FOR COGNITO SERVICE

Go to cognito and create userpool



STEP2: Create user pool

St1--- provider type: cognito user pool, Options: email



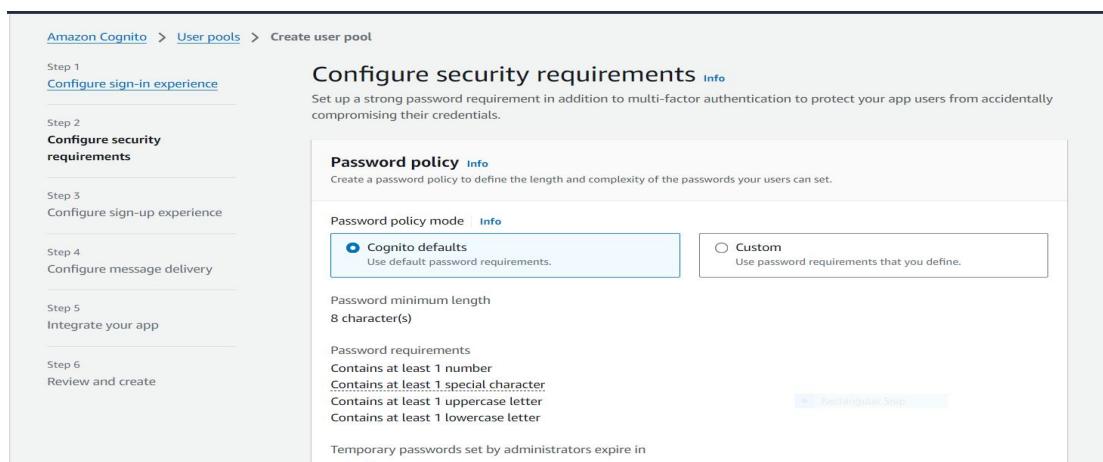
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St2---

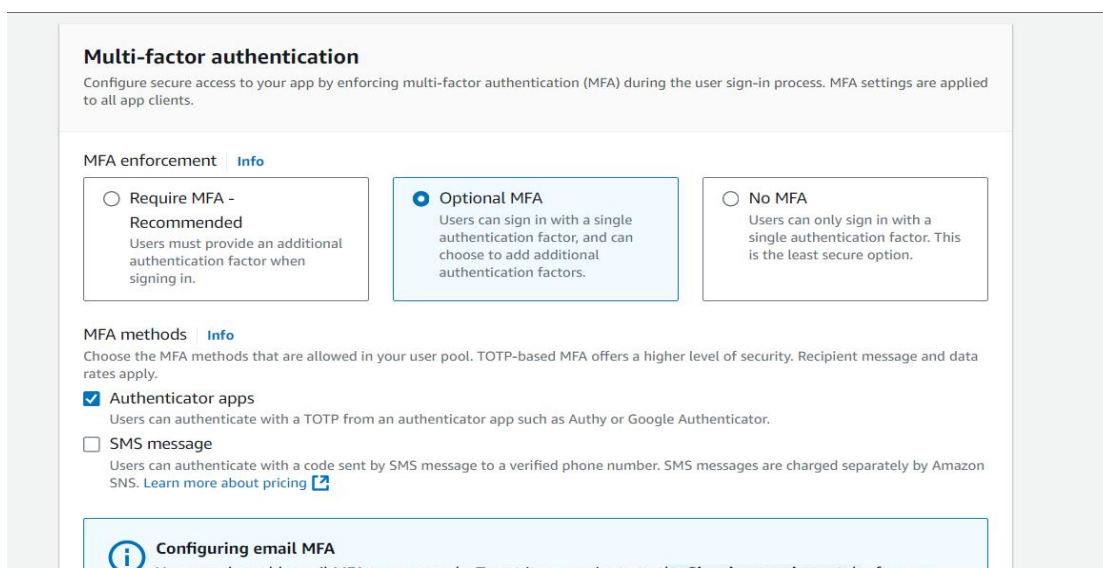
Password policy mode: cognito default



The screenshot shows the 'Configure security requirements' step in the AWS Cognito console. The left sidebar lists steps 1 through 6, with 'Configure security requirements' (Step 2) selected. The main content area is titled 'Configure security requirements' and includes a sub-section 'Password policy'. Under 'Password policy mode', the 'Cognito defaults' option is selected. The 'Password minimum length' is set to '8 character(s)'. The 'Password requirements' section lists: 'Contains at least 1 number', 'Contains at least 1 special character', 'Contains at least 1 uppercase letter', and 'Contains at least 1 lowercase letter'. A 'Temporary passwords set by administrators expire in' field is also visible.

MFA: optional MFA

Method : authenticator app



The screenshot shows the 'Multi-factor authentication' configuration page in the AWS Cognito console. The 'MFA enforcement' section has three options: 'Require MFA - Recommended', 'Optional MFA' (which is selected), and 'No MFA'. The 'MFA methods' section has two options: 'Authenticator apps' (which is checked) and 'SMS message'. A 'Configuring email MFA' section is partially visible at the bottom.

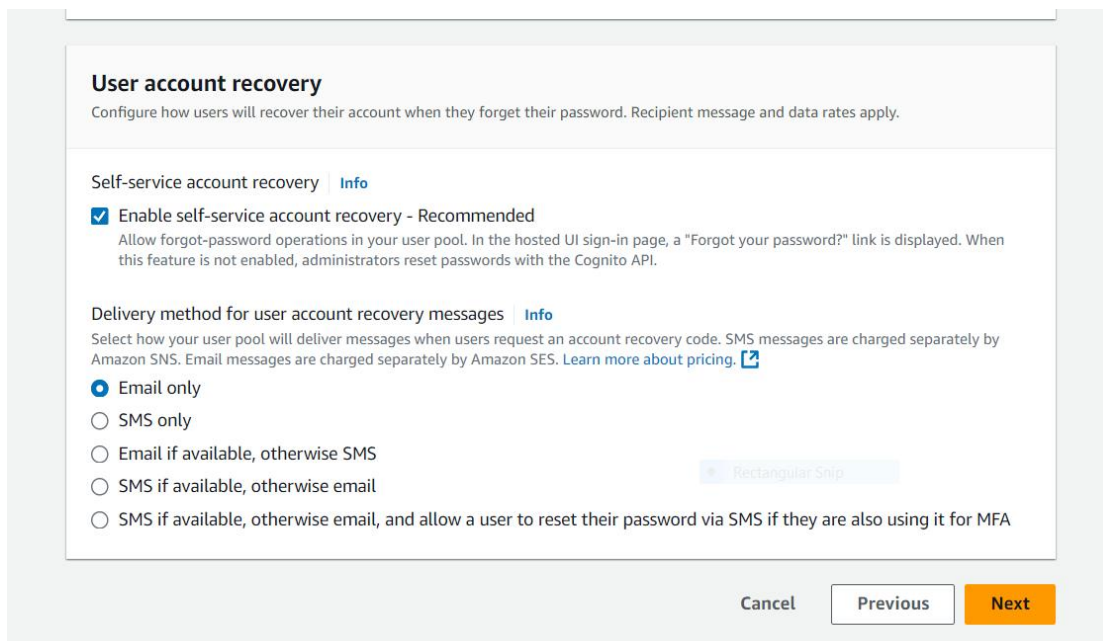
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No changes here



User account recovery
Configure how users will recover their account when they forget their password. Recipient message and data rates apply.

Self-service account recovery [Info](#)

☒ **Enable self-service account recovery - Recommended**
Allow forgot-password operations in your user pool. In the hosted UI sign-in page, a "Forgot your password?" link is displayed. When this feature is not enabled, administrators reset passwords with the Cognito API.

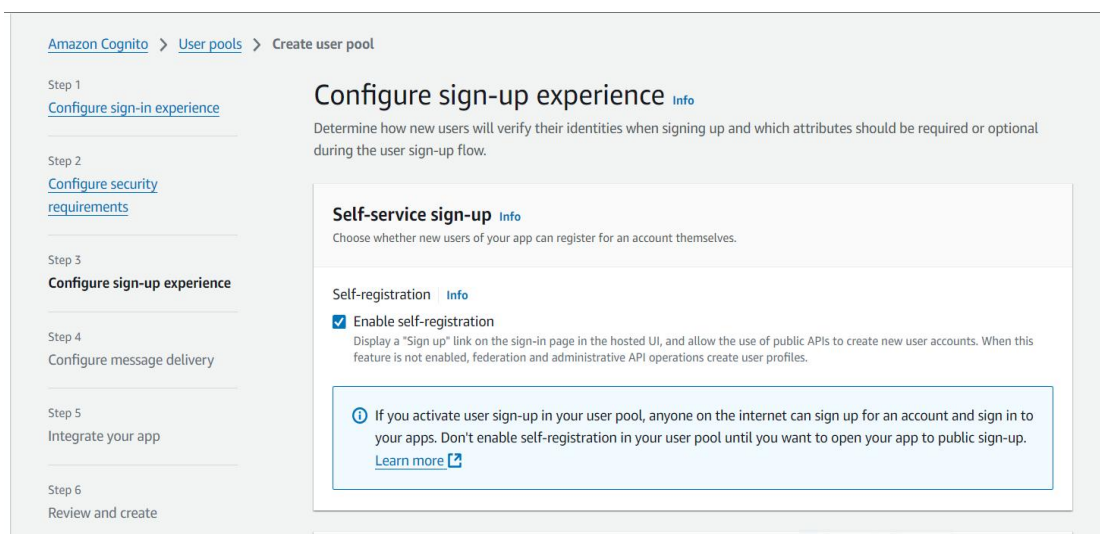
Delivery method for user account recovery messages [Info](#)
Select how your user pool will deliver messages when users request an account recovery code. SMS messages are charged separately by Amazon SNS. Email messages are charged separately by Amazon SES. [Learn more about pricing.](#)

☒ **Email only**
☐ SMS only
☐ Email if available, otherwise SMS
☐ SMS if available, otherwise email
☐ SMS if available, otherwise email, and allow a user to reset their password via SMS if they are also using it for MFA

[Rectangular Snip](#)

[Cancel](#) [Previous](#) [Next](#)

St3---Do the following changes



[Amazon Cognito](#) > [User pools](#) > Create user pool

Step 1
[Configure sign-in experience](#)

Step 2
[Configure security requirements](#)

Step 3
Configure sign-up experience

Step 4
[Configure message delivery](#)

Step 5
[Integrate your app](#)

Step 6
[Review and create](#)

Configure sign-up experience [Info](#)
Determine how new users will verify their identities when signing up and which attributes should be required or optional during the user sign-up flow.

Self-service sign-up [Info](#)
Choose whether new users of your app can register for an account themselves.

Self-registration [Info](#)

☒ **Enable self-registration**
Display a "Sign up" link on the sign-in page in the hosted UI, and allow the use of public APIs to create new user accounts. When this feature is not enabled, federation and administrative API operations create user profiles.

Info If you activate user sign-up in your user pool, anyone on the internet can sign up for an account and sign in to your apps. Don't enable self-registration in your user pool until you want to open your app to public sign-up. [Learn more](#)



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Attribute verification and user account confirmation

Choose between Cognito-assisted and self-managed user attribute verification and account confirmation. Only verified attributes can be used for sign-in, account recovery, and MFA. A user account must be confirmed either by attribute verification, or user pool administrator confirmation, before a user is allowed to sign in.

Cognito-assisted verification and confirmation [Info](#)

Automatically send

- ☒ **Allow Cognito to automatically send messages to verify and confirm - Recommended**
Amazon Cognito sends a verification message with a code that the user must enter. For new users, this will verify the attribute and confirm their account.
- ☐ **Don't automatically send messages**
Amazon Cognito doesn't send messages to users who add or change an attribute. Update attributes and confirm users with administrative API operations or Lambda triggers.

Attributes to verify [Info](#)

Choose the user contact attribute that Cognito will send a verification message to. Recipient message and data rates apply when you use SMS.

- ☐ **Send SMS message, verify phone number**
Verify with SMS to allow users to use their phone number for sign-in, MFA, and account recovery. SMS messages are charged separately by Amazon SNS.
- ☒ **Send email message, verify email address**
Verify with email to allow users to use their email address for sign-in, MFA, and account recovery. Email messages are charged separately by Amazon SES.
- ☐ **Send SMS message if phone number is available, otherwise send email message**
You must build custom code when you want to verify both email and phone numbers at user account creation.

Verifying attribute changes [Info](#)

- ☒ **Keep original attribute value active when an update is pending - Recommended**
When you update the value of an email or phone number attribute, your user must verify the new value. Until they verify the new value, they can receive messages and sign in with the original value. If you don't turn on this feature, your user can't sign in with that attribute before they verify the new value.

Active attribute values when an update is pending [Info](#)

Choose the attributes that you want to keep active when an update to their value is pending. Your users can receive messages and sign in with the original attribute value until they verify the new value.

- ☐ Phone number
- ☒ Email address
- ☐ Phone number and email address

Required attributes [Info](#)

Choose the attributes that are required when a new user is created. Cognito assigns all users a set of standard attributes based on the OpenID Connect (OIDC) standard.

Required attributes based on previous selections

email

Additional required attributes

Select attributes ▼

name ✕

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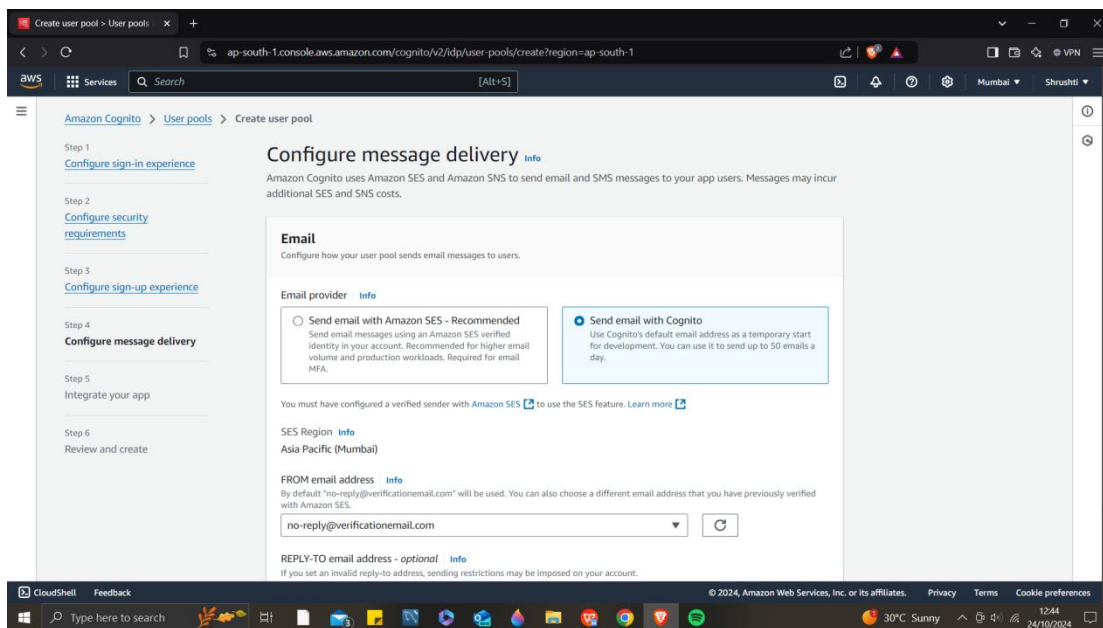
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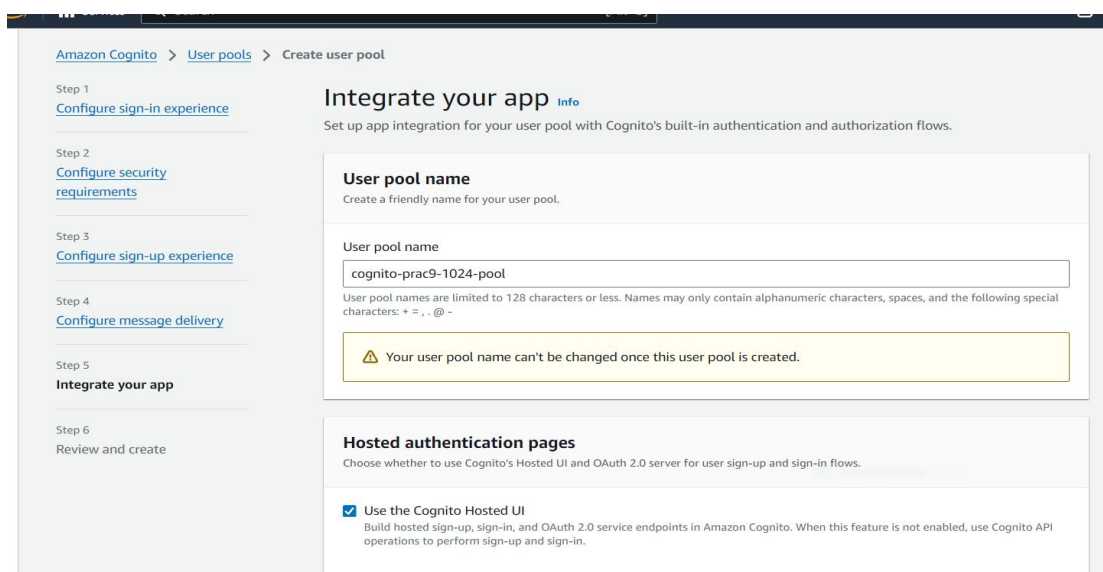
Title of Practicle : Creating a User Pool in AWS Cognito

St 4---Ensure to check : Send email with cognito



St5---Give name for user pool: cognito-prac9-1024-pool

Also check the box for : cognito hosted UI





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Use cognito domain, Name the domain, Select public client

Domain [Info](#)

Configure a domain for your Hosted UI and OAuth 2.0 endpoints. To use the Hosted UI, you must choose a domain where authentication endpoints will be created.

Domain type

☒ Use a Cognito domain
Enter an identifying prefix to use in an Amazon-owned domain. For production apps, we recommend using a custom domain instead.

☐ Use a custom domain
Enter a domain that you own for Cognito-hosted sign-up and sign-in pages. You must provide a DNS record and an AWS Certificate Manager (ACM) certificate to use a custom domain. We recommend using a custom domain for production workloads.

Cognito domain

Enter a domain prefix.

.auth.ap-south-1.amazonaws.com

Domain prefixes may only include lowercase, alphanumeric characters, and hyphens. You can't use the text aws, amazon, or cognito in the domain prefix. Your domain prefix must be unique within the current Region.

☒ Available

Initial app client

Configure an app client. App clients are single-app platforms in your user pool that have permissions to call unauthenticated API operations. A user pool can have multiple app clients.

App type [Info](#)

Select an app type and we will automatically populate common default settings. You can add additional app clients after the user pool is created.

☒ Public client
A native, browser or mobile-device app. Cognito API requests are made from user systems that

☐ Confidential client
A server-side application that can securely store a client secret. Cognito API requests are made

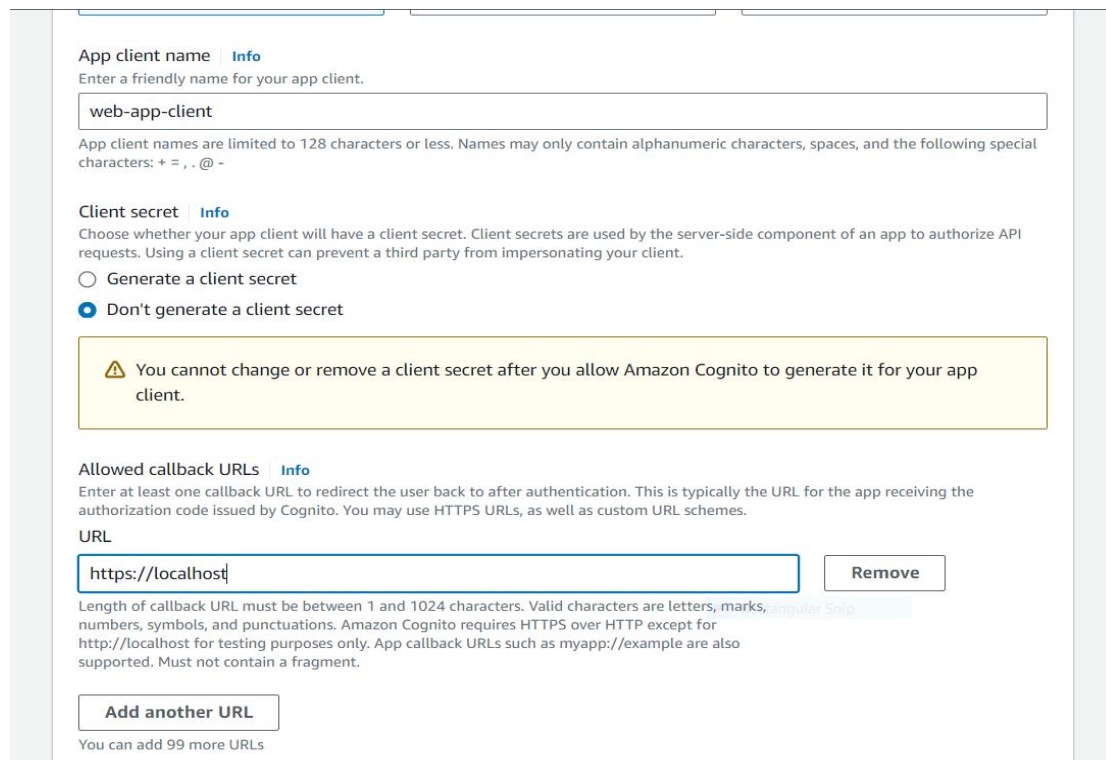
☐ Other
A custom app. Choose your own grant, auth flow, and client-secret settings

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Title of Practicle : **Creating a User Pool in AWS Cognito**

Name : app client, don't generate client's secret, callback url: localhost



App client name [Info](#)
Enter a friendly name for your app client.

web-app-client

App client names are limited to 128 characters or less. Names may only contain alphanumeric characters, spaces, and the following special characters: + , . @ -

Client secret [Info](#)
Choose whether your app client will have a client secret. Client secrets are used by the server-side component of an app to authorize API requests. Using a client secret can prevent a third party from impersonating your client.

☐ Generate a client secret
☒ Don't generate a client secret

Allowed callback URLs [Info](#)
Enter at least one callback URL to redirect the user back to after authentication. This is typically the URL for the app receiving the authorization code issued by Cognito. You may use HTTPS URLs, as well as custom URL schemes.

URL

https://localhost

Remove

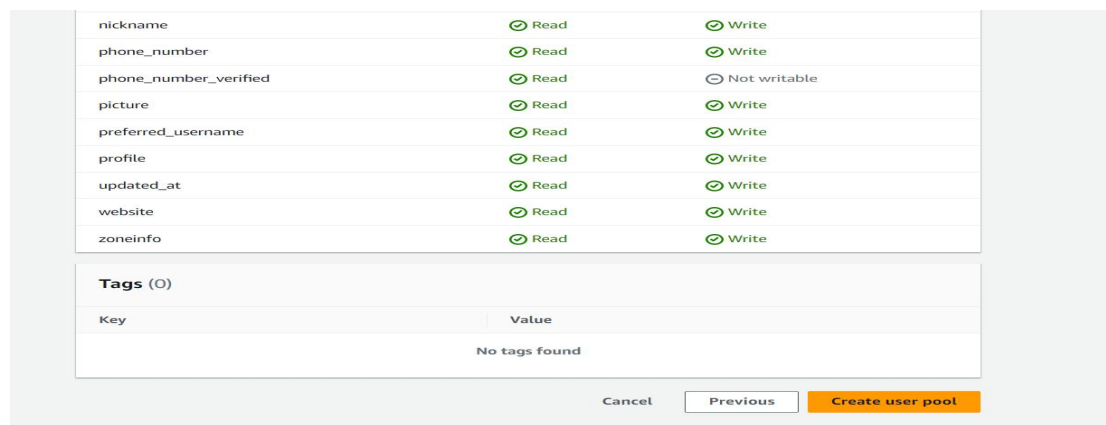
Length of callback URL must be between 1 and 1024 characters. Valid characters are letters, marks, numbers, symbols, and punctuations. Amazon Cognito requires HTTPS over HTTP except for http://localhost for testing purposes only. App callback URLs such as myapp://example are also supported. Must not contain a fragment.

Add another URL

You can add 99 more URLs

St6---

Create user pool



nickname	Read	Write
phone_number	Read	Write
phone_number_verified	Read	Not writable
picture	Read	Write
preferred_username	Read	Write
profile	Read	Write
updated_at	Read	Write
website	Read	Write
zoneinfo	Read	Write

Tags (0)

Key	Value
No tags found	

Cancel Previous **Create user pool**

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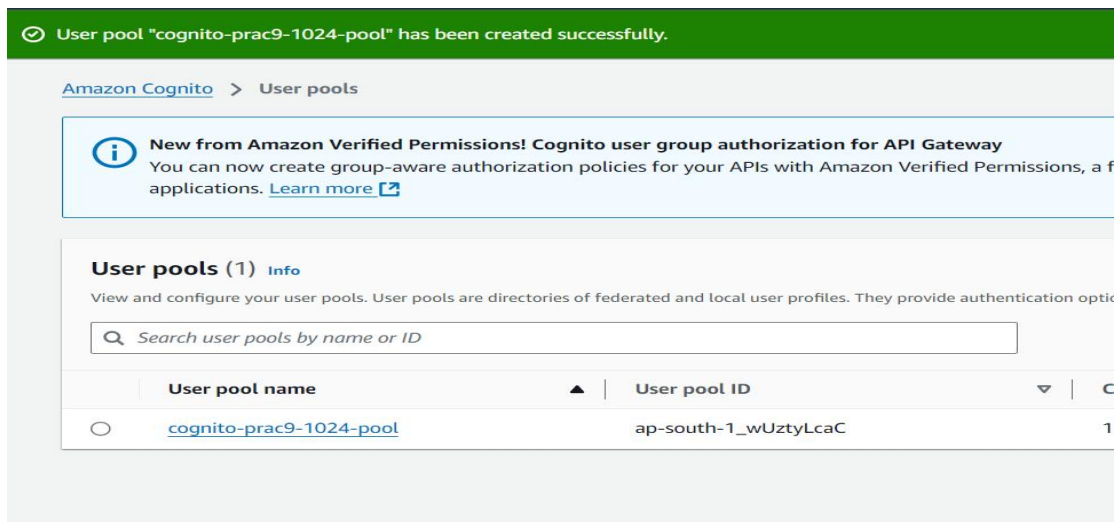
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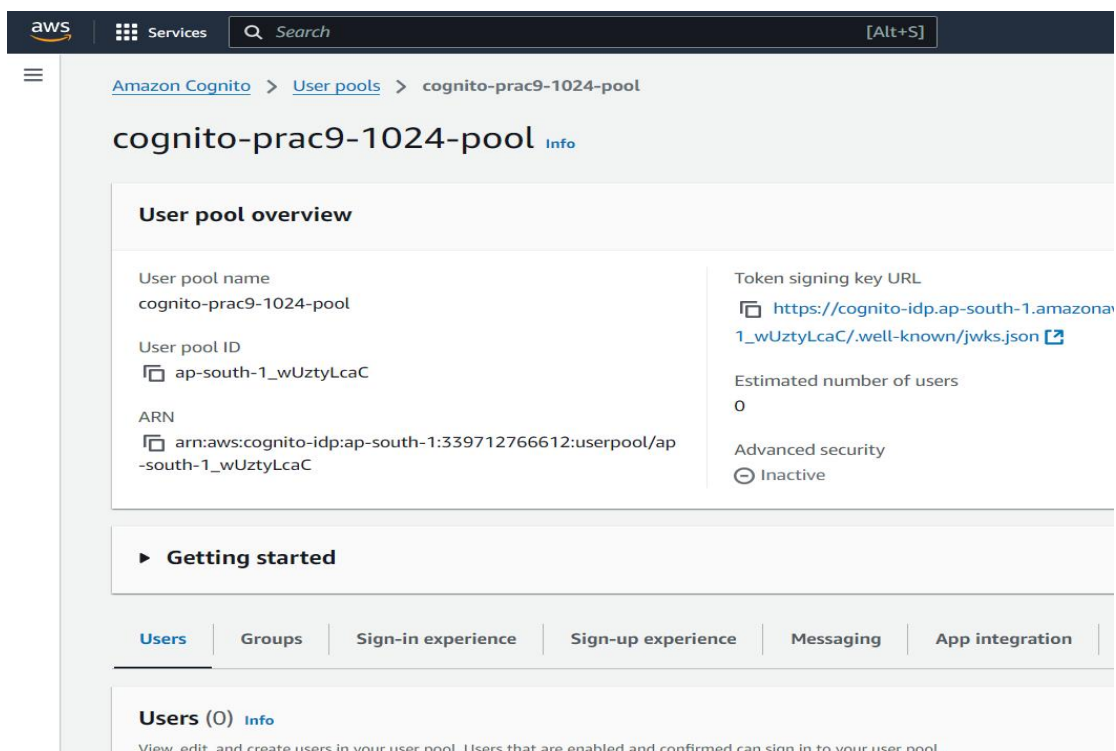
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Title of Practicle : Creating a User Pool in AWS Cognito



Go inside the created user pool

Scroll up and go to user



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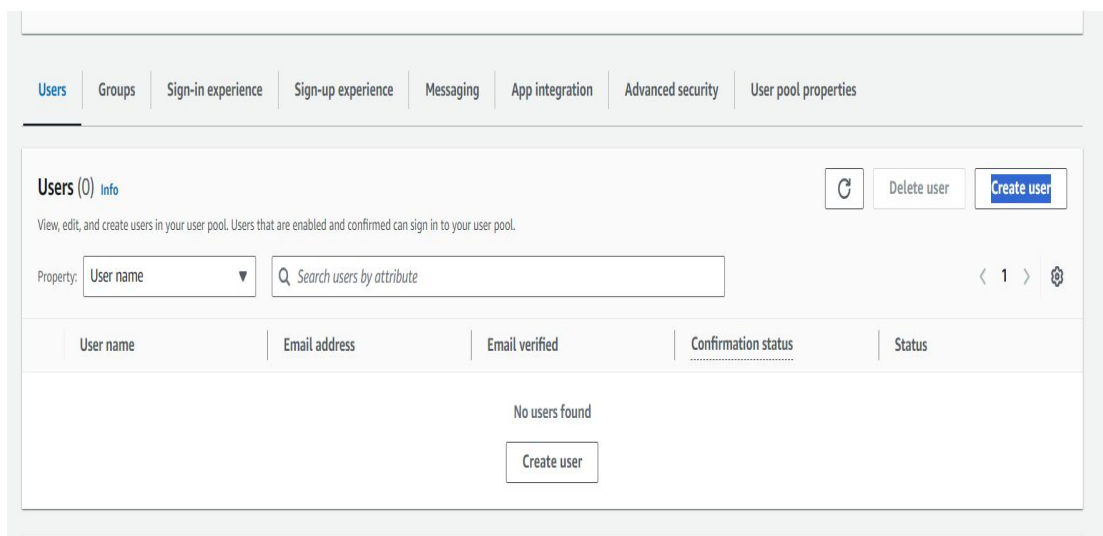
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Now create user:



Here ensure to provide the verified email address, check the box to mark email as verified and provide a password for the given email also remember the given email and password

Email : shrushtishree04@gmail.com

Password: Shru@1024

And create user.



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The screenshot shows the AWS Management Console interface for creating a user in a Cognito user pool. The breadcrumb navigation at the top reads: Amazon Cognito > User pools > cognito-prac9-1024-pool > Create user. The main heading is 'Create user' with an 'Info' link. Below this, there are three sections: 1. 'User pool sign-in and security requirements' with a sub-header and a note to review the security configuration. 2. 'User information' with a sub-header and a note to configure verification and sign-in options. This section contains three sub-sections: 'Invitation message' with a radio button selected for 'Don't send an invitation'; 'Email address' with a text input field containing 'shrushtishree04@gmail.com' and a checked checkbox for 'Mark email address as verified'; and 'Temporary password' with a radio button selected for 'Set a password'. At the bottom of the 'Temporary password' section, there is a 'Password' sub-section with a text input field containing 'Shru@1024' and a checked checkbox for 'Show password'. At the very bottom right of the form, there are two buttons: 'Cancel' and 'Create user'.

Now we need to create a url to visit signin page for the go to google and search
'hosted url cognito'

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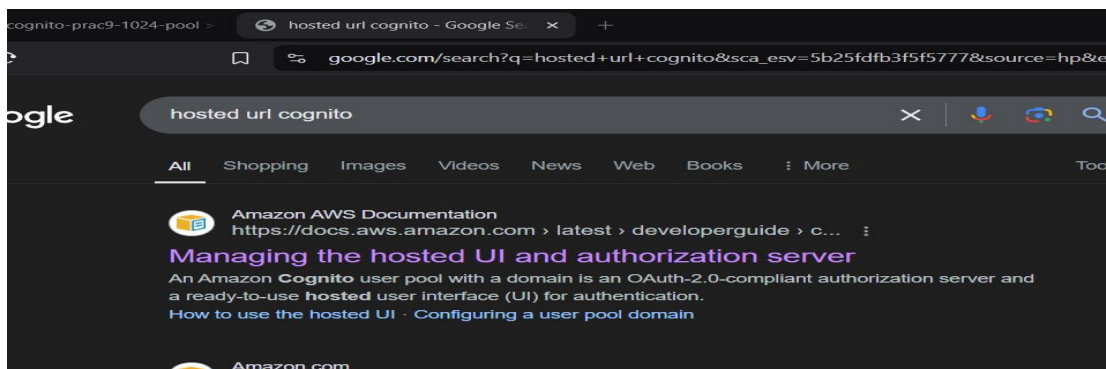
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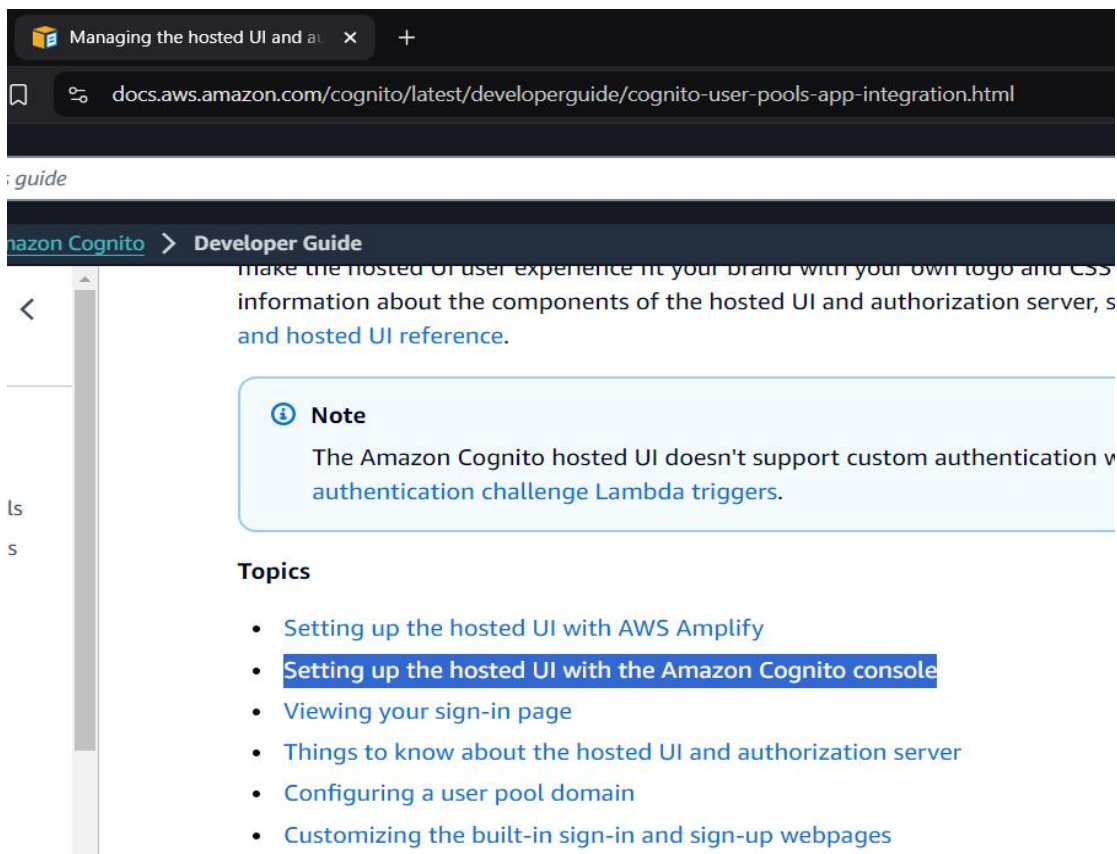
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Open the first aws documentation suggested



Topics -- select the second option and copy the first url to notepad





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Copy this link--

[reference.](#)

The hosted UI sign-in webpage uses the following URL format. This example requests an authorization code grant with the `response_type=code` parameter.

```
https://<your domain>/oauth2/authorize?response_type=code&client_id=<your app c
```

You can retrieve your user pool domain string from the App integration tab. In the same tab, you can

Paste in notepad---

[reference.](#)

The hosted UI sign-in webpage uses the following URL format. This example requests an authorization code grant with the `response_type=code` parameter.

```
https://<your domain>/oauth2/authorize?response_type=code&client_id=<your app c
```

Setting up the I
Amazon Cognito
[Viewing your s](#)
Things to know
and authorizati

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ident File Edit Format View Help

clien https://<your domain>/oauth2/authorize?response_type=code&client_id=<your app client id>&redirect_uri=<your callback url>

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bypa

[Return to Table of Contents](#)

Here we need to do 3 changes

1. <your domain>
2. <your app client id>
3. <your callback url>

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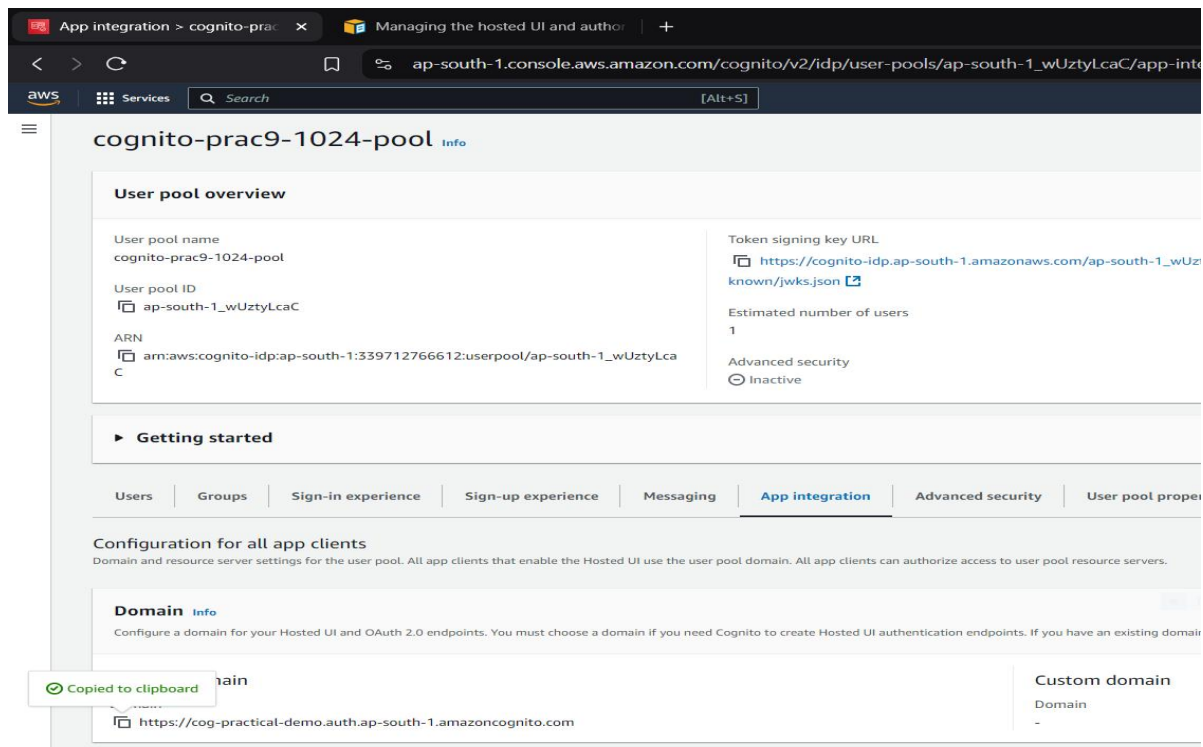
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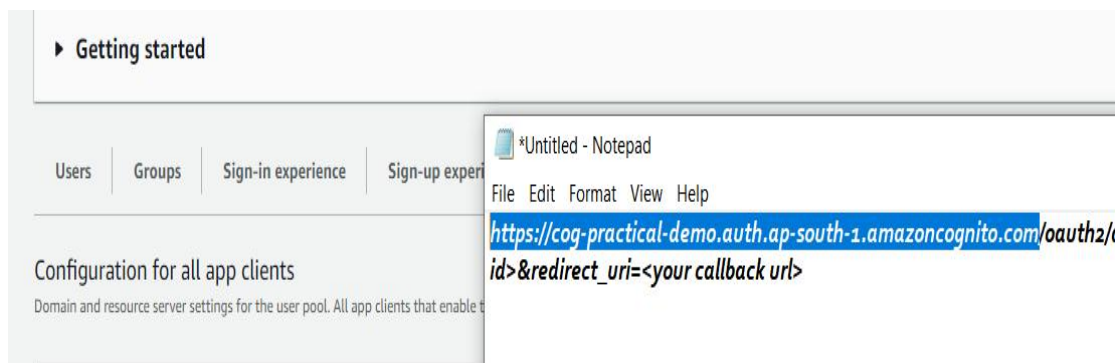
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Title of Practicle : Creating a User Pool in AWS Cognito

1---Go to created pool and scroll up. Go to app integration and copy the domain and replace with 1st point in url



The screenshot shows the AWS Cognito console for a user pool named 'cognito-prac9-1024-pool'. The 'App integration' tab is selected, and the 'Domain' field is highlighted. The domain URL is 'https://cog-practical-demo.auth.ap-south-1.amazonaws.com', which has been copied to the clipboard. The 'Token signing key URL' is also visible, along with other pool details like 'User pool name', 'User pool ID', and 'ARN'.



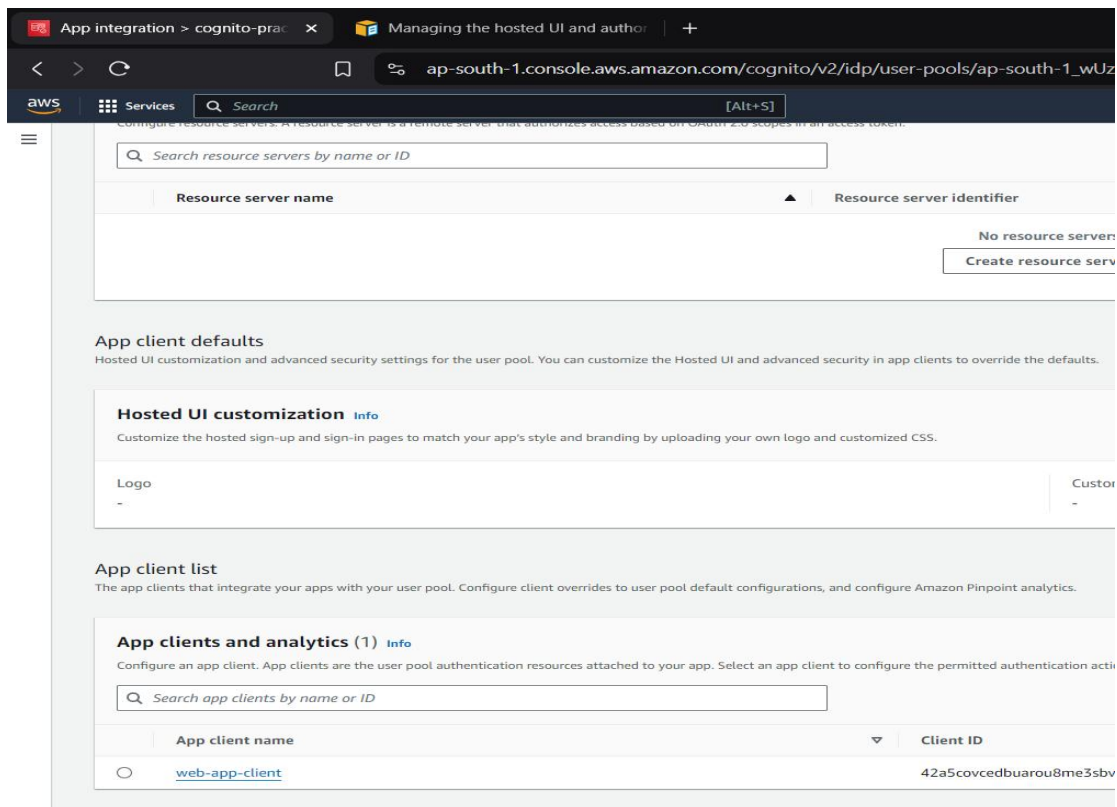
The screenshot shows a Notepad window with the copied domain URL: 'https://cog-practical-demo.auth.ap-south-1.amazonaws.com'. Below the Notepad window, the 'App integration' tab of the AWS Cognito console is visible, showing the 'Domain' field and the 'Configuration for all app clients' section.

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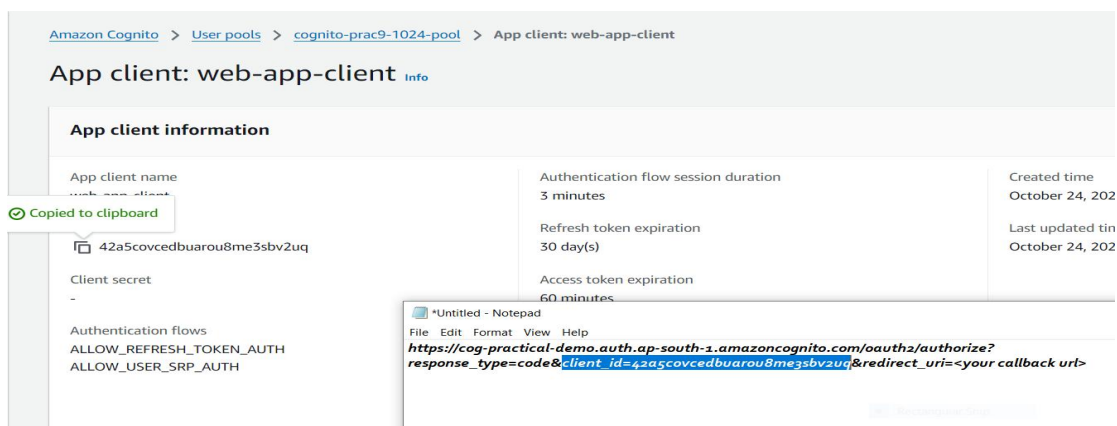
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Title of Practicle : **Creating a User Pool in AWS Cognito**

2--- In app integration scroll up till the end . in app client list , you'll find app client name go in that link and copy the client id and replace with 2nd point in notepad



The screenshot shows the AWS Cognito console interface. At the top, there's a navigation bar with 'App integration > cognito-prac' and 'Managing the hosted UI and author'. The main content area has a search bar and a table with columns 'Resource server name' and 'Resource server identifier'. Below this, there's a section for 'App client defaults' with 'Hosted UI customization' options. The 'App client list' section shows a table with one entry: 'web-app-client' with Client ID '42a5covcedbuarou8me3sbv'.



The screenshot shows the 'App client: web-app-client' details page. It includes 'App client information' with fields like 'App client name', 'Client ID', 'Client secret', 'Authentication flows', 'Authentication flow session duration', 'Refresh token expiration', 'Access token expiration', and 'Created time'. A 'Copied to clipboard' notification is visible next to the Client ID. In the foreground, a Notepad window shows the URL: `https://cog-practical-demo.auth.ap-south-1.amazonaws.com/oauth2/authorize?response_type=code&client_id=42a5covcedbuarou8me3sbv2uq&redirect_uri=<your callback url>`

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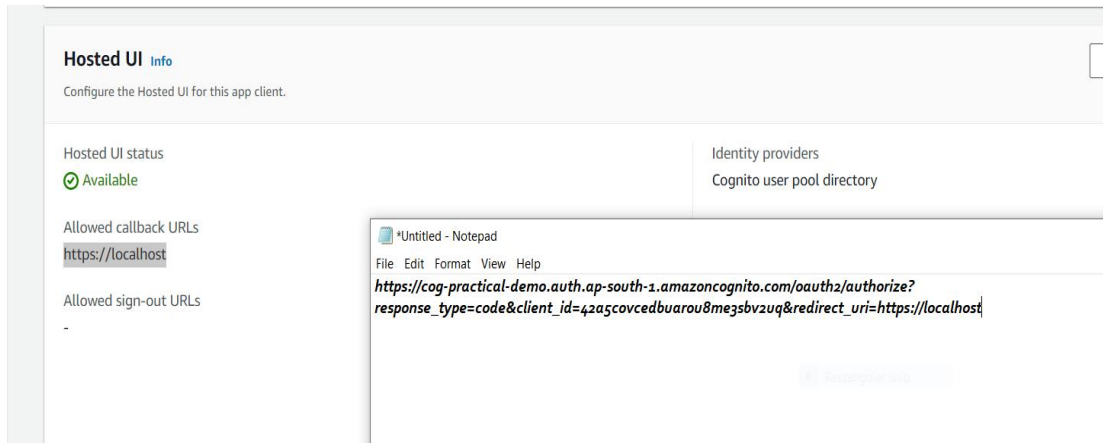
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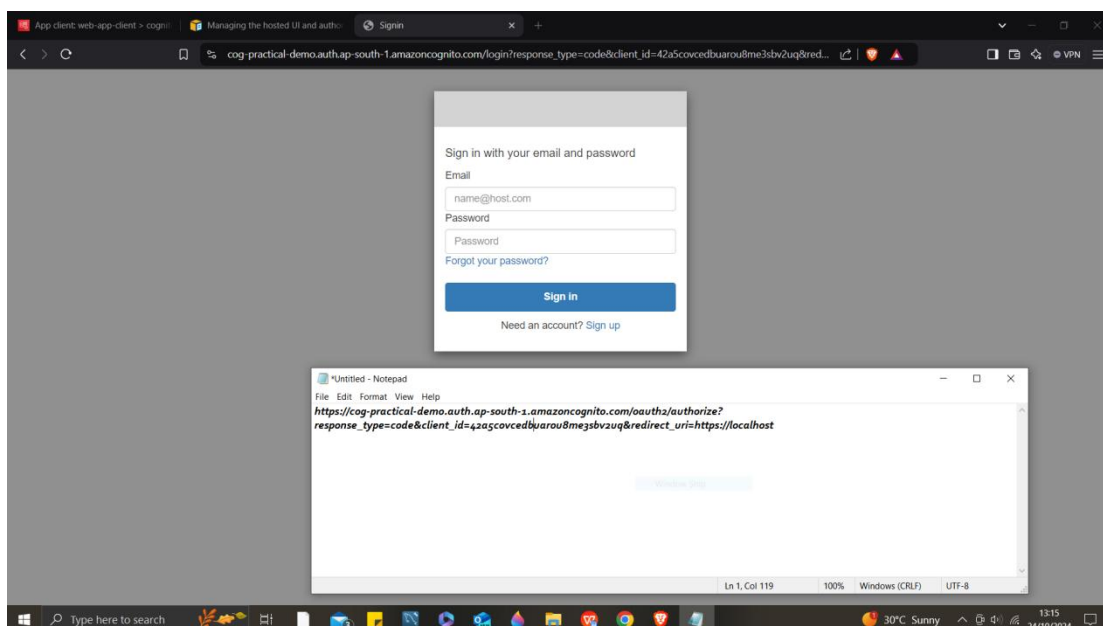
Title of Practicle : Creating a User Pool in AWS Cognito

3---

Again in that client list scroll up till you find 'hosted UI' and copy the url to replace with 3rd point in notepad.



Finally copy paste this link to browser



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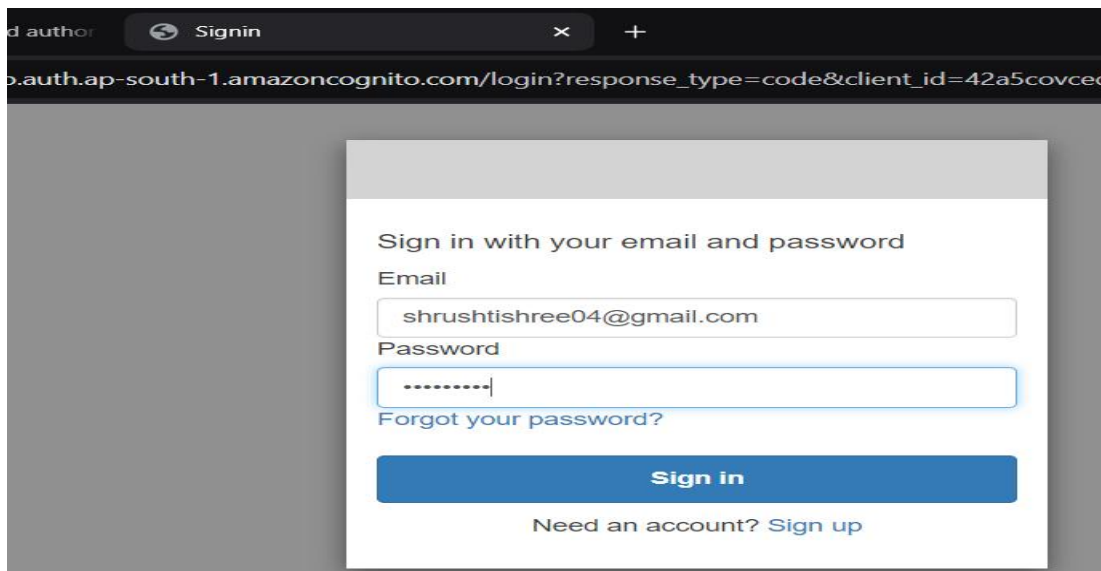
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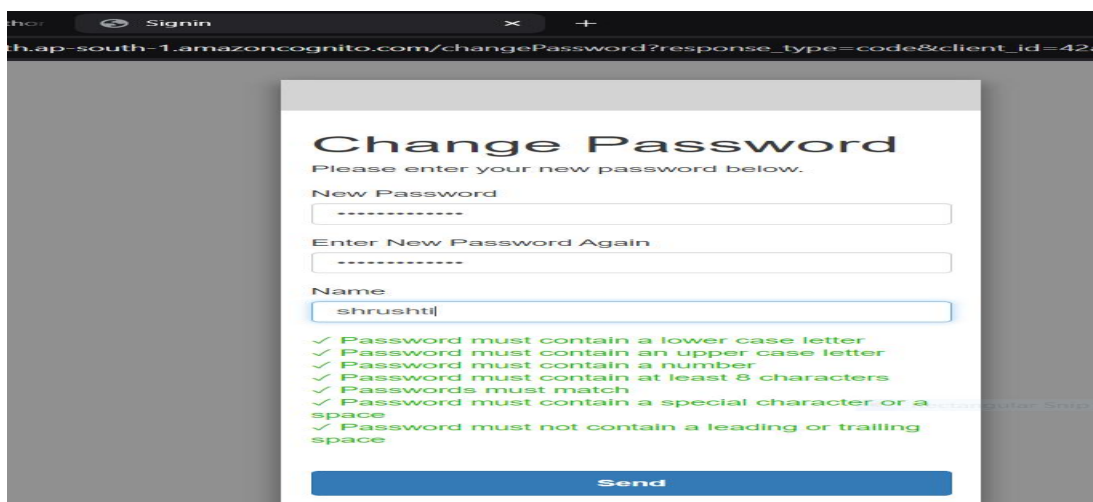
Now sign in with the email and password you gave while creation of user

Email : shrushtishree04@gmail.com

Password: Shru@1024



Give new password and remember that : For now: shrushti@2004



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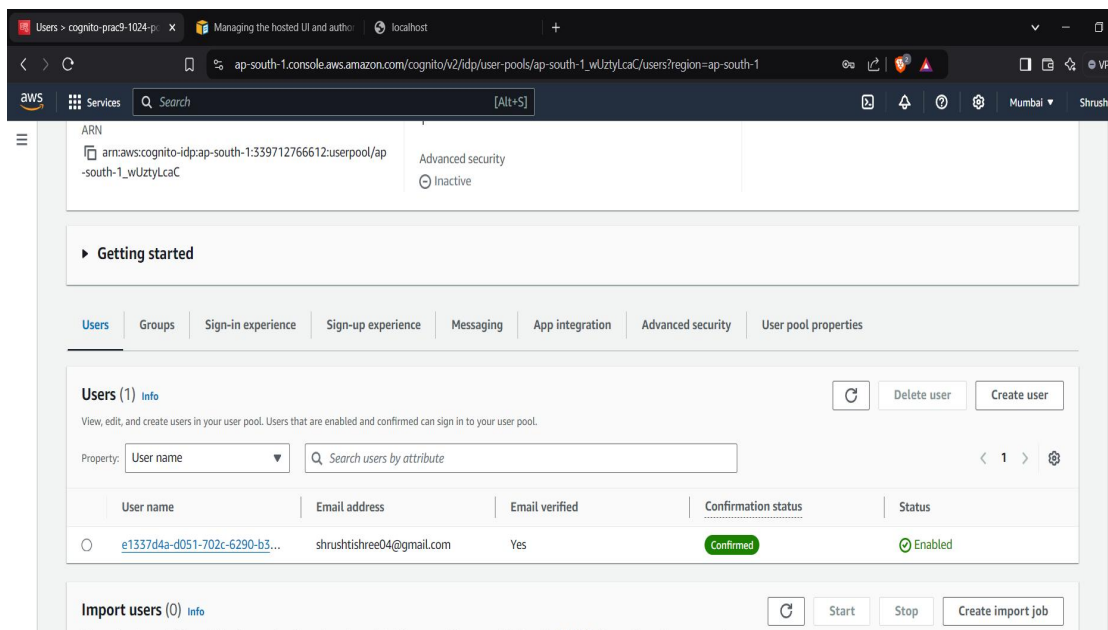
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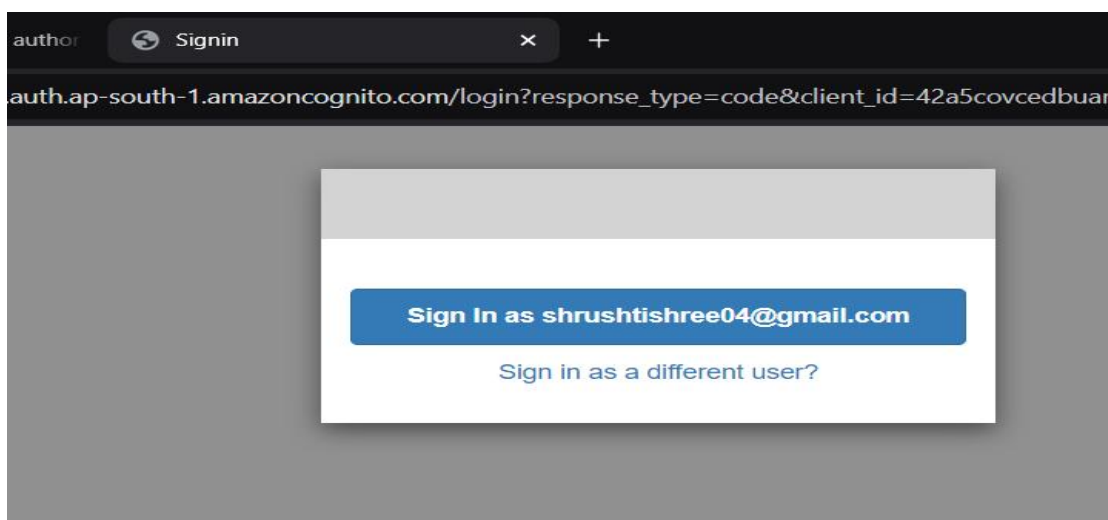
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Now check user in user pool :



Your email is now erified and user is added

Create new user with new email id and password



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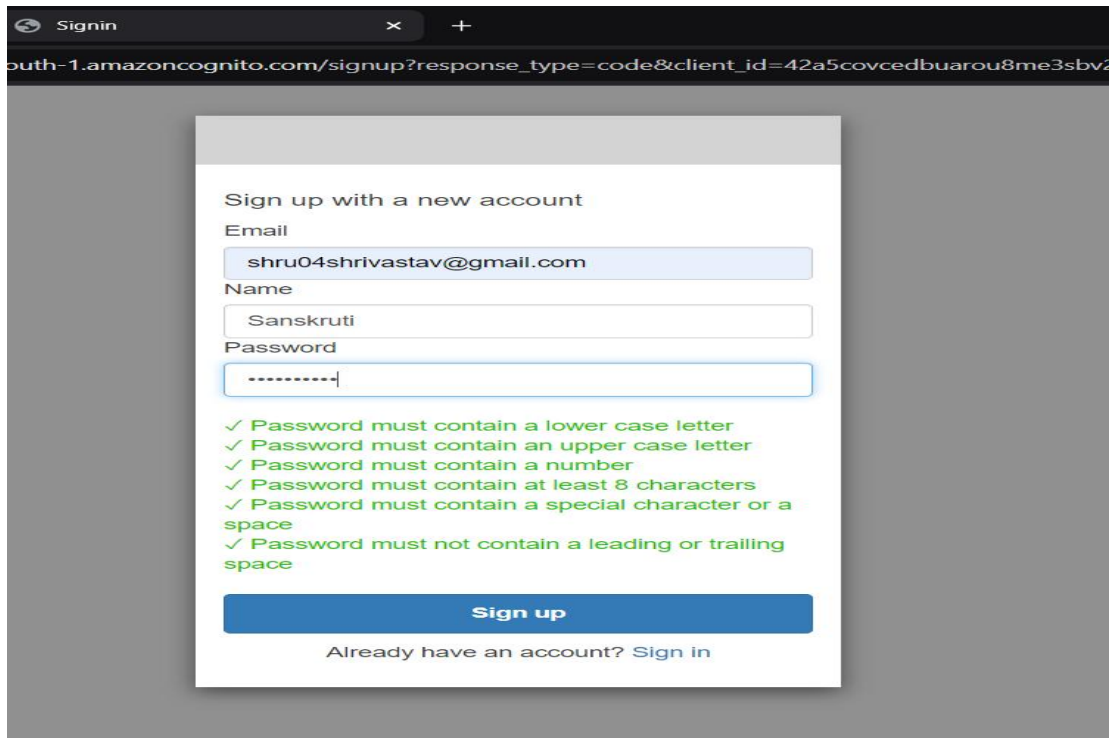
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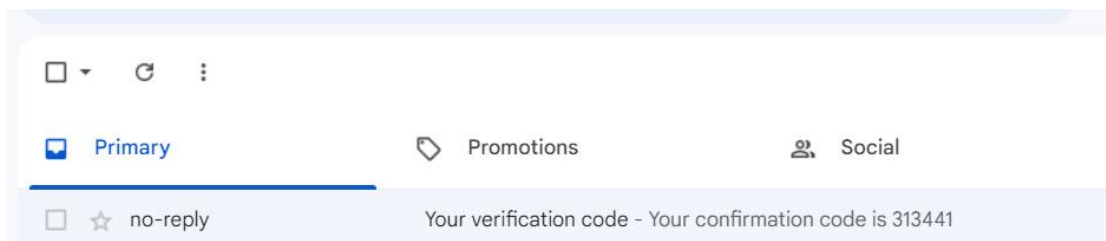
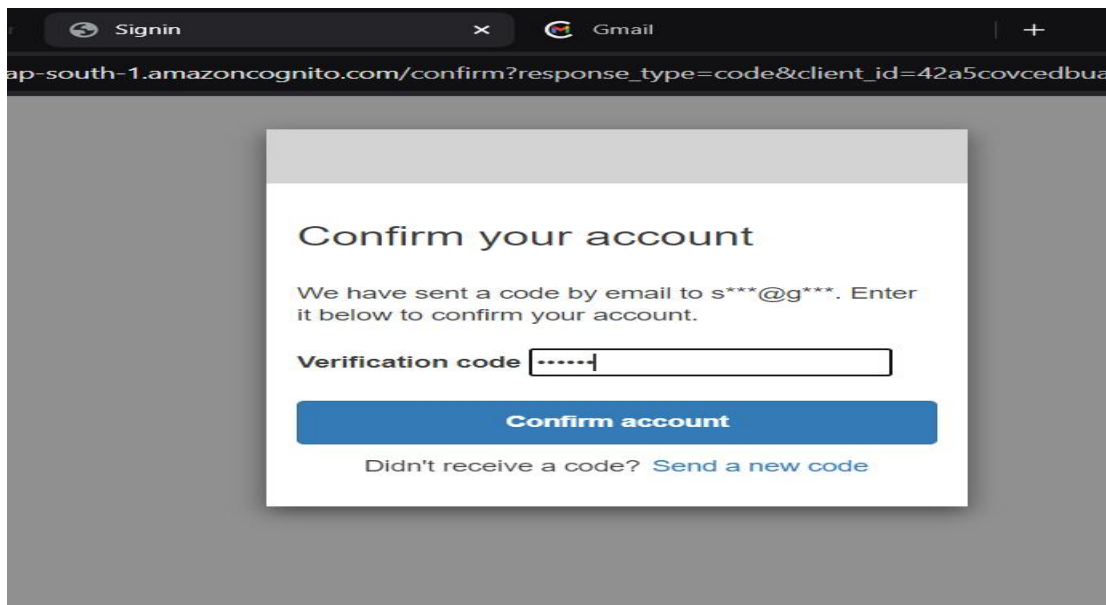
The screenshot shows a web browser window with the title "Signin". The address bar displays the URL: "outh-1.amazoncognito.com/signup?response_type=code&client_id=42a5covcedbuarou8me3sbv2". The main content area shows a "Sign up with a new account" form. The form includes fields for "Email" (shru04shrivastav@gmail.com), "Name" (Sanskriti), and "Password" (masked with dots). Below the password field, there are five green checkmarks indicating password requirements: "Password must contain a lower case letter", "Password must contain an upper case letter", "Password must contain a number", "Password must contain at least 8 characters", and "Password must contain a special character or a space". A blue "Sign up" button is at the bottom of the form, and a link "Already have an account? Sign in" is below it.

Verify with the code sended to your email

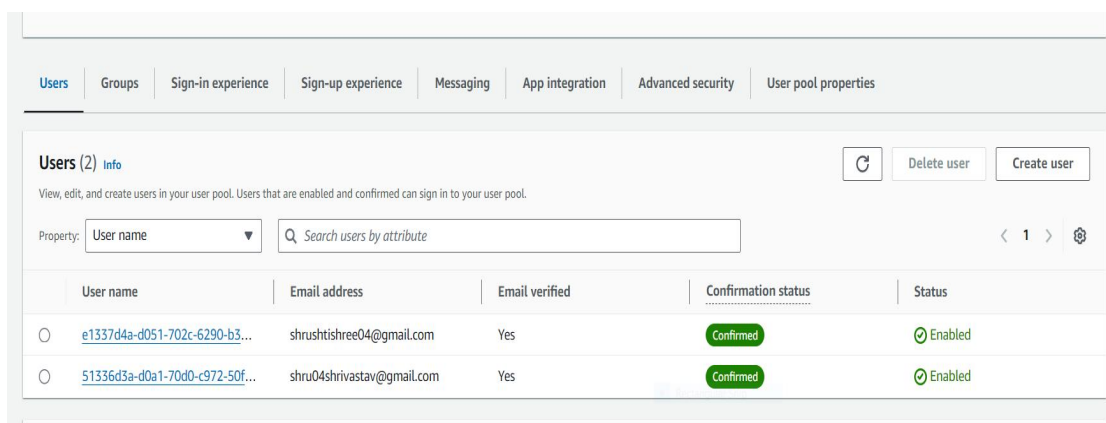
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Title of Practicle : Creating a User Pool in AWS Cognito



Once you are signed in check in user pool

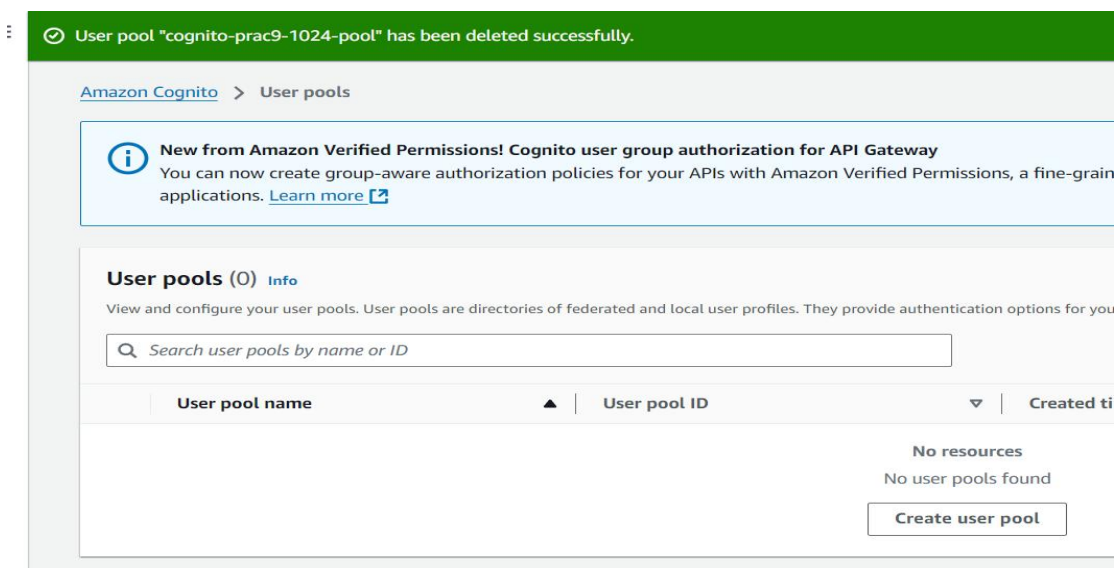
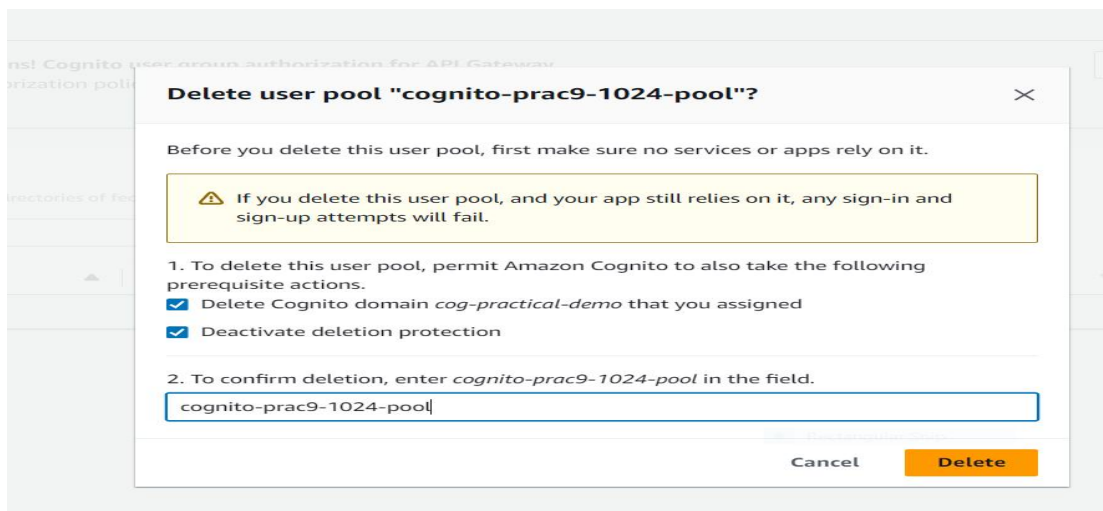


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Done . we successfully added two user to userpool
(Now delete the pool and it will ask to delete cognito domain
Check both the box and proceed to delete the pool.)



Done.