

Advance AWS

AWS Project- 2 (Day -9)

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Course:

Advance AWS Cloud Computing with DevOps
Fundamentals

Institute:

Lets Upgrade

Project 2: CREATING USER POOL IN AWS COGNITO

- Navigate to AWS Cognito and select it
- Click on **Manage User Pools**
- Click on **Create a User Pool**

SS1 : Create a User Pool

The screenshot shows the AWS Cognito 'Create a user pool' console. The left sidebar contains a navigation menu with 'Name' highlighted. The main content area is titled 'What do you want to name your user pool?' and includes a text input field labeled 'Pool name' containing the text 'DemoPool'. Below this, the section 'How do you want to create your user pool?' features two buttons: 'Review defaults' and 'Step through settings', with the latter being highlighted by a red box.

- In **Name** section, enter Pool Name - “DemoPool”
- Click on **Step through Settings**

SS2 : Attributes

aws Services

User Pools | Federated Identities

Create a user pool

Cancel

Name

Attributes

Policies

MFA and verifications

Message customizations

Tags

Devices

App clients

Triggers

Review

You can't change the sign-in and attribute options on this page after you've created your user pool. Make sure that you've decided on the settings that you want.

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 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 type="checkbox"/>	given name	<input type="checkbox"/>	zoneinfo
<input type="checkbox"/>	locale	<input type="checkbox"/>	updated at
<input 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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- In **Attributes** Section, select how the user will sign-in using **User name** or **Email Address** or **Phone Number**
- For now, Select **Email address or phone number** option and under that select **"Allow email address"**
- Now select the standard attributes that will be required for user profile that will be required for sign up.
- Select **address, email, gender, name, phone number, profile**, you can select even other attributes or create **custom attributes**.
- Click on **Next Step**

SS3 : Policies

The screenshot shows the AWS IAM 'Create a user pool' console. The left sidebar has a 'Policies' tab selected. The main content area is titled 'Create a user pool' and contains three sections:

- 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?**
 - ☒ Only allow administrators to create users
 - ☐ Allow users to sign themselves up
- How quickly should temporary passwords set by administrators expire if not used?**
 - Days to expire: 5

At the bottom right, there are 'Back' and 'Next step' buttons.

- In Policies Section, we can first set the password Strength, enter Minimum length and can add the required parameters like numbers, special character, uppercase or lower-case letters.
- You can choose Only allow administrator to create users or Allow users to sign themselves up. As a good practice Select Only allow administrators to create users.
- As an administrator you can configure when the temporary passwords will expire, enter days in Days to expire.
- Select on Next Step

MFA and Verifications section, Multi-factor Authentication increases the security for the users. Phone numbers must be verified if MFA is enabled. Choose **off** and go ahead.

Message customizations section, you can send emails using Amazon SES, for now leave it blank and go ahead.

SS4 : Tags

aws Services ▾

User Pools | Federated Identities

Create a user pool Cancel

Name
Attributes
Policies
MFA and verifications
Message customizations
Tags
Devices
App clients
Triggers
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	Tag Value
Name	MyUserPool

[Add another tag](#)

Back Next step

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- In **Tags** Section you can add tags for this user pool
- Add Tag, in **Tag Key** enter “Name” and in **Tag Value** enter “MyUserPool”
- Click on **Next step**

In **Devices** Section, we can choose to remember our User’s devices. Select **No** and go ahead.

In **App clients** Section, the app clients we add will be given a unique ID and an optional secret key to access this user pool. We are not using any App client so go ahead.

In **Triggers** Section, we can make Advanced customizations with AWS Lambda functions and trigger different events and customize workflows and user experience.

SS5 : Review Page

aws Services

User Pools | Federated Identities

Create a user pool

Cancel

Name

Attributes

Policies

MFA and verifications

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Devices

App clients

Triggers

Review

Pool name DemoPool

Required attributes address, email, name, phone_number, profile, gender

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.](#)

Tags Name

App clients Add app client...

Triggers Add triggers...

Create pool

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- Review all the entered or selected settings and click on Create pool
- You will get a message **Your user pool was created successfully**
- On the Top left, you can see you are in the user pool you have created.
- Click on the Users and Groups Section here you will be able to create the Users and Groups

SS6 : Create User Page

Create user

Username (Required)
kishoreshindekyn@gmail.com

☒ Send an invitation to this new user?
☐ SMS (default) ☒ Email

Temporary password

Phone Number
+918451992692

☒ Mark phone number as verified?

Email
kishoreshindekyn@gmail.com

☒ Mark email as verified?

Create user

- Enter the Username
- You can select to Send an invitation for new user through SMS or Email, select Email.
- Enter Temporary password
- Enter the Phone Number
- Enter Email Address

If you have selected **Send and invitation to the new user** a SMS or Email will be sent to him, depending upon your selection. In our current case a mail will be sent to the user on email entered.

• Users List

Users

Import users

Create user

Username	Enabled	Account status	Email verified	Phone number verified	Updated	Created
d05ac892-8dd0-4867-9d0c-6298ade714bf	Enabled	FORCE_CHANGE_PASSWORD	true	true	Oct 29, 2020 2:12:30 PM	Oct 29, 2020 2:12:30 PM

- Displays list of users

SS7 : Create Group

The screenshot shows the AWS IAM console's 'Create group' dialog. The 'Name (Required)' field contains 'Developer', the 'Description' field contains 'Developer Group', and the 'IAM role' dropdown is set to 's3_full_access'. The 'Create group' button at the bottom is highlighted with a red box. The background shows the 'Users and groups' menu on the left and a 'Users' tab in the background.

- Enter the **Name** for the Group - “Developer”
 - Enter the **Description** - “Developer Group”
 - Select the **IAM role** – “s3_full_access”. The user belonging to this group will have S3 full access.
 - Click on **Create group**
-
- **Groups List**

The screenshot shows the AWS IAM console's 'Groups' page. The 'Users and groups' menu is highlighted, and the 'Groups' tab is selected. A table lists the 'Developer' group.

Group Name	Description	Precedence	Updated	Created
Developer	Developer Group	-	Oct 29, 2020 3:23:31 PM	Oct 29, 2020 3:23:31 PM

- Displays list of groups

- Add User to Group

The screenshot shows the AWS IAM console interface for the 'DemoPool' user pool. The left sidebar has 'Users and groups' highlighted. The main content area shows the 'Developer' group configuration. The 'Description' is 'Developer Group' and the 'Role ARN' is 'arn:aws:iam::391321345174:role/s3_full_access'. The 'Add users' button is highlighted. Below it, a table lists the users in the group:

Username	Enabled	Account status	Email verified	Phone number verified	Updated	Created	Remove
d05ac892-8dd0-4867-9d0c-6298ade714bf	Enabled	FORCE_CHANGE_PASSWORD	true	true	Oct 29, 2020 2:12:30 PM	Oct 29, 2020 2:12:30 PM	

You add user to the Groups :

- In the **Groups** select the **Developer** group
- In **Description** you will see description details and, in the **Role ARN** you will see the role attached to this group
- Click on **Add users** and add the users to this group

Now the added user will have all the permissions of the role attached to this group.

xxx---Project 2 Ends Here---xxx