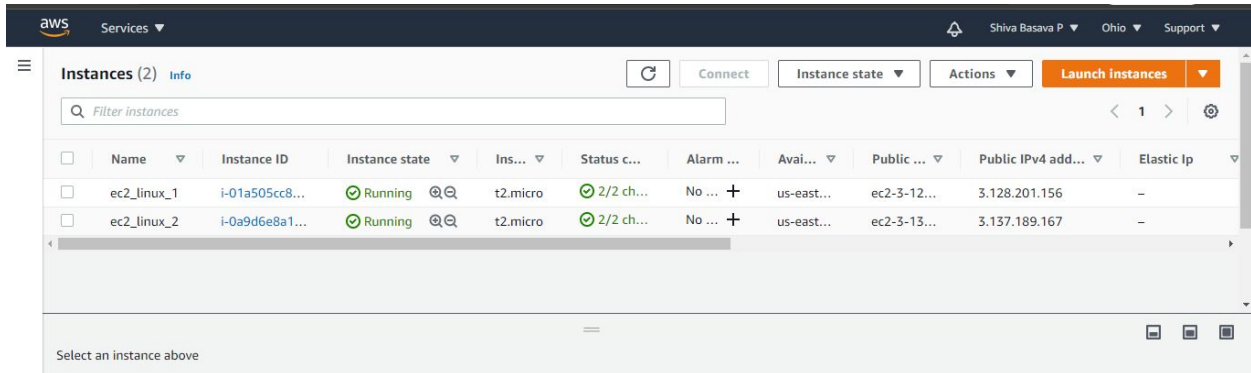


Assignment Solution Day 9 & 10

I. Project 1 : Elastic Load Balancer

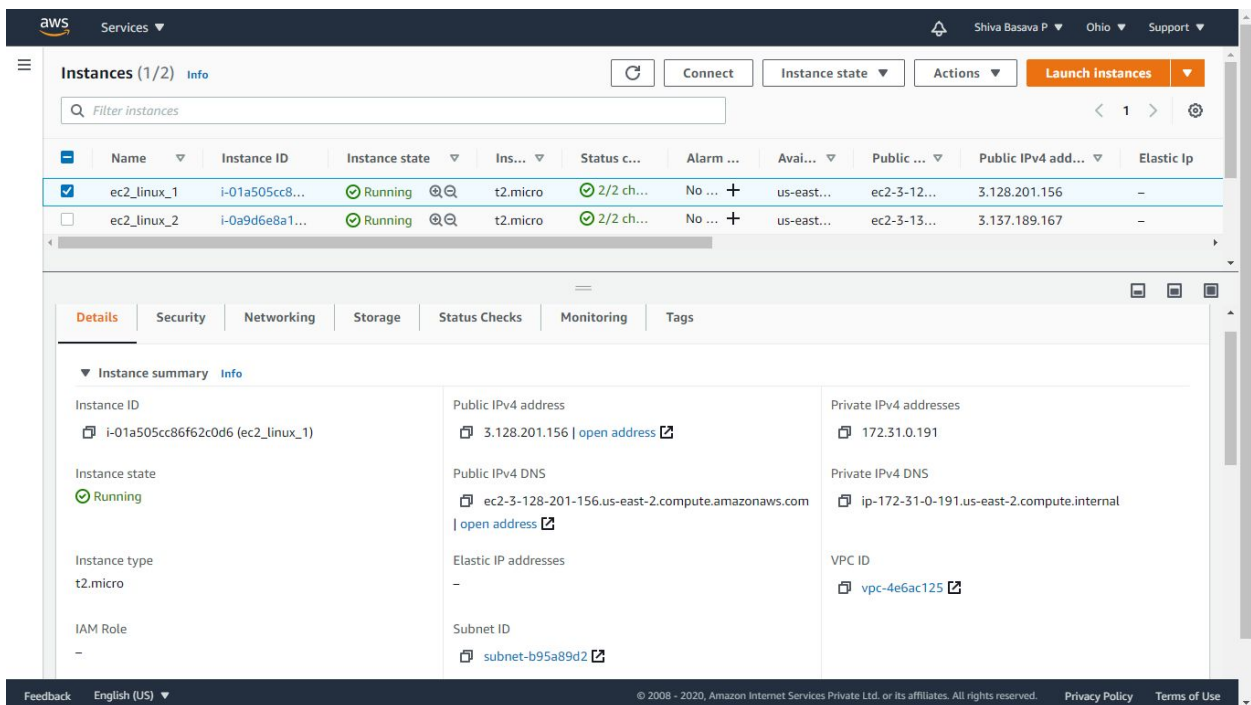
1. Created two linux instances.

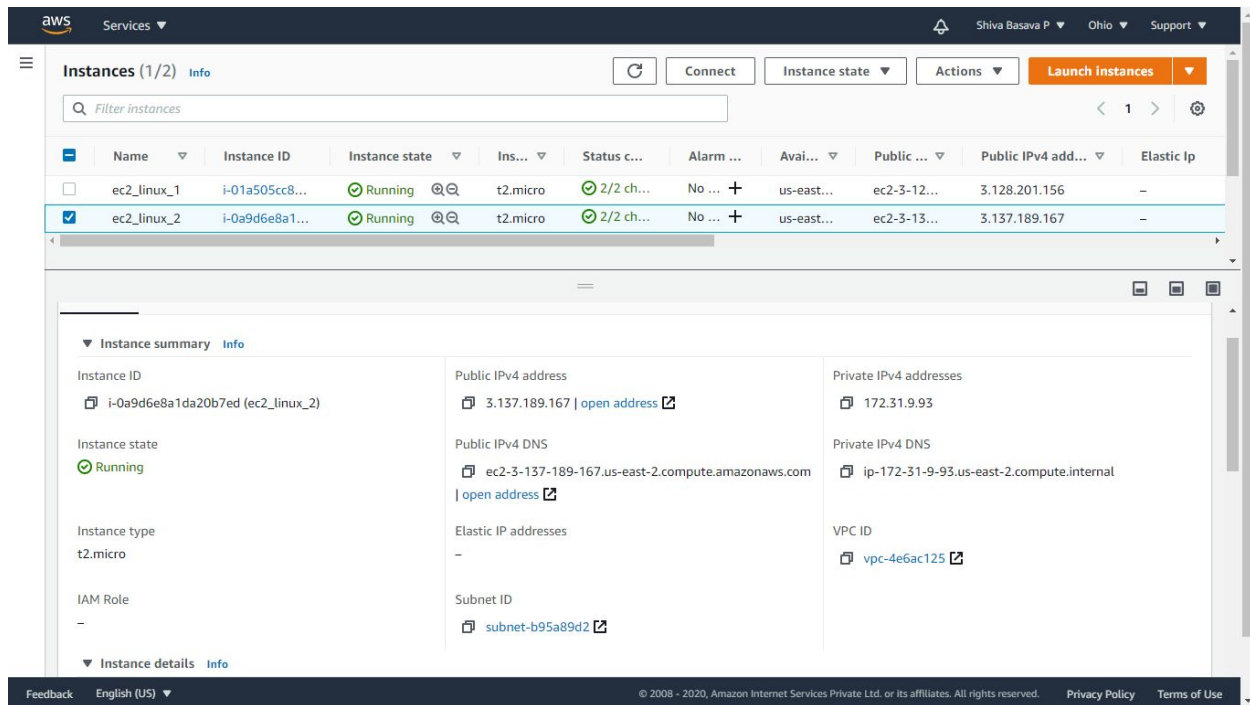
An overview screenshot.



Each linux instance details -

1st linux instance, Public IP - 3.128.201.156



2nd linux instance, Public IP - 3.137.189.167

2. Launched both instances.
 3. Hosted html login web page on both servers,
- Below is the screenshot for both server **Status:Active (running)**

Web Server 1

```

https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-01a505cc86f62c0d6
[root@ip-172-31-0-191 ec2-user]# systemctl start httpd
[root@ip-172-31-0-191 ec2-user]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-0-191 ec2-user]# systemctl service httpd
Unknown operation 'service'.
[root@ip-172-31-0-191 ec2-user]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2020-10-24 07:14:13 UTC; 1 day 2h ago
     Docs: man:httpd.service(8)
  Main PID: 5010 (httpd)
    Status: "Total requests: 5258; Idle/Busy workers 100/0; Requests/sec: 0.0557; Bytes served/sec: 66 B/sec"
    CGroup: /system.slice/httpd.service
            └─5010 /usr/sbin/httpd -DFOREGROUND
            └─5807 /usr/sbin/httpd -DFOREGROUND
            └─5808 /usr/sbin/httpd -DFOREGROUND
            └─5809 /usr/sbin/httpd -DFOREGROUND
            └─5810 /usr/sbin/httpd -DFOREGROUND
            └─5811 /usr/sbin/httpd -DFOREGROUND
            └─6346 /usr/sbin/httpd -DFOREGROUND
            └─6549 /usr/sbin/httpd -DFOREGROUND

Oct 24 07:14:13 ip-172-31-0-191.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 24 07:14:13 ip-172-31-0-191.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server.
Oct 25 03:47:01 ip-172-31-0-191.us-east-2.compute.internal systemd[1]: Reloaded The Apache HTTP Server.
[root@ip-172-31-0-191 ec2-user]#

```

i-01a505cc86f62c0d6 (ec2_linux_1)
Public IPs: 3.128.201.156 Private IPs: 172.31.0.191

Web Server 2

```

https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0a9d6e8a1da20b7ed
Nothing to do
[root@ip-172-31-9-93 ec2-user]# systemctl start httpd
[root@ip-172-31-9-93 ec2-user]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-9-93 ec2-user]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2020-10-24 07:25:17 UTC; 1 day 2h ago
     Docs: man:httpd.service(8)
  Main PID: 1287 (httpd)
    Status: "Total requests: 6334; Idle/Busy workers 100/0; Requests/sec: 0.0674; Bytes served/sec: 80 B/sec"
    CGroup: /system.slice/httpd.service
            └─1287 /usr/sbin/httpd -DFOREGROUND
              └─1288 /usr/sbin/httpd -DFOREGROUND
                └─1289 /usr/sbin/httpd -DFOREGROUND
                  └─1290 /usr/sbin/httpd -DFOREGROUND
                    └─1291 /usr/sbin/httpd -DFOREGROUND
                      └─1292 /usr/sbin/httpd -DFOREGROUND
                        └─1345 /usr/sbin/httpd -DFOREGROUND
                          └─1478 /usr/sbin/httpd -DFOREGROUND
                            └─1484 /usr/sbin/httpd -DFOREGROUND
                              └─1518 /usr/sbin/httpd -DFOREGROUND
Oct 24 07:25:17 ip-172-31-9-93.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 24 07:25:17 ip-172-31-9-93.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-9-93 ec2-user]#

```

i-0a9d6e8a1da20b7ed (ec2_linux_2)

Public IPs: 3.137.189.167 Private IPs: 172.31.9.93

4. Checking if application is deployed on both servers by copy pasting the public ip of the servers into the browser.

1st server, **Public IP - 3.128.201.156** at browser

2nd server, **Public IP - 3.137.189.167** at browser

(we can notice that in the above two screenshots of EC2 Linux instances, the labels for both the text boxes are different.)

5. Created an **Application Load Balancer(myELB)** with the above two instances as targets. Following are the screenshots -
Registered the instances as **Targets**.

Step 5: Register Targets
Register targets with your target group. If you register a target in an enabled Availability Zone, the load balancer starts routing requests to the targets as soon as the registration process completes and the target passes the initial health checks.

Registered targets
To deregister instances, select one or more registered instances and then click Remove.

Instance	Name	Port	State	Security groups	Zone
i-01a505cc86f62c0d6	ec2_linux_1	80	running	launch-wizard-1	us-east-2a
i-0a9d6e8a1da20b7ed	ec2_linux_2	80	running	launch-wizard-2	us-east-2a

Instances
To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

Add to registered on port 80

Instance	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
i-01a505cc86f62c0d6	ec2_linux_1	running	launch-wizard-1	us-east-2a	subnet-b95a89d2	172.31.0.0/20
i-0a9d6e8a1da20b...	ec2_linux_2	running	launch-wizard-2	us-east-2a	subnet-b95a89d2	172.31.0.0/20

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At
myELB	myELB-84187081.us-east-2....	active	vpc-4e6ac125	us-east-2c, us-east-2a, ...	application	October 25,

Basic Configuration

Name: myELB

ARN: [arn:aws:elasticloadbalancing:us-east-2:973501320577:loadbalancer/app/myELB/766e0cb268ec3689](#)

DNS name: [myELB-84187081.us-east-2.elb.amazonaws.com](#) (A Record)

State: active

Type: application

Scheme: internet-facing

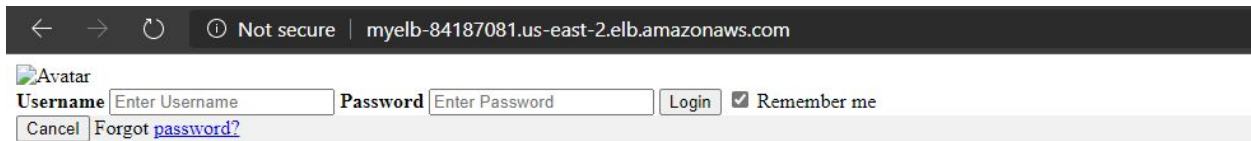
IP address type: [Edit IP address type](#)

VPC: [vpc-4e6ac125](#)

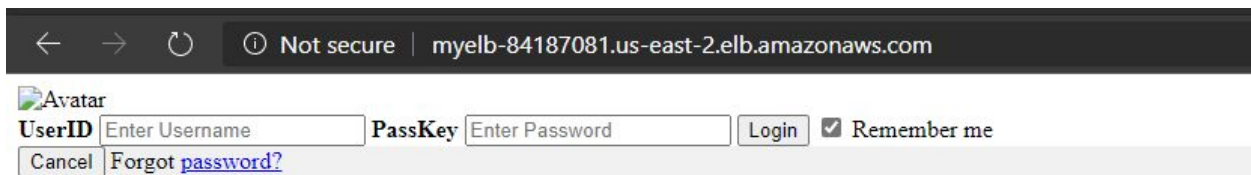
Availability Zones: [subnet-b95424f5 - us-east-2c](#) (IPv4 address: Assigned by AWS), [subnet-b95a89d2 - us-east-2a](#) (IPv4 address: Assigned by AWS), [subnet-f6434b8c - us-east-2b](#)

6. Checking the functioning of ELB (**myELB**) using the DNS link (**myelb-84187081.us-east-2.elb.amazonaws.com**) of the ELB -

Reply from **1st** server, when accessing the DNS link of myELB -

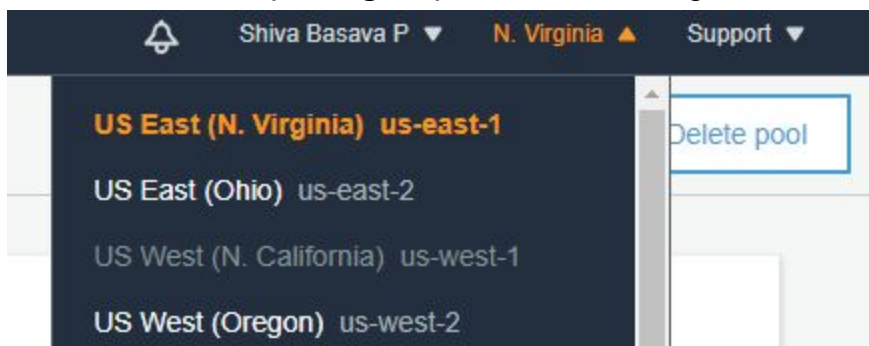


Reply from **2nd** server, when accessing the DNS link of myELB -



II. Project 2 : Creating a User Pool in AWS Cognito.

1. Selected **US East (N. Virginia) us-east-1** as Region.



2. Navigated to **Cognito** & Clicked on **Create a User Pool**. We choose **Step through settings** to make each setting our own choice as shown below.

The screenshot shows the AWS Cognito console interface for creating a new user pool. The left sidebar contains a navigation menu with options: Name, Attributes, Policies, MFA and verifications, Message customizations, Tags, Devices, App clients, Triggers, and Review. The main content area is titled 'Create a user pool' and has a 'Cancel' button in the top right. The first section, 'What do you want to name your user pool?', prompts the user to provide a descriptive name for the pool, with a text input field containing 'myUserPool'. The second section, 'How do you want to create your user pool?', offers two options: 'Review defaults' (which involves reviewing defaults and customizing as desired) and 'Step through settings' (which involves stepping through each setting to make choices). The 'Step through settings' option is highlighted with a blue border.

3. In the **Attributes** page, we can mention how a user could perform a sign in. Following are the screenshots,

The screenshot shows the AWS Cognito console interface for creating a new user pool, specifically the 'Attributes' page. The left sidebar contains a navigation menu with options: Name, Attributes, Policies, MFA and verifications, Message customizations, Tags, Devices, App clients, Triggers, and Review. The main content area is titled 'Create a user pool' and has a 'Cancel' button in the top right. A warning message is displayed: '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.' The section 'How do you want your end users to sign in?' provides options for sign-in methods. The 'Email address or phone number' option is selected, with sub-options for 'Allow email addresses', 'Allow phone numbers', and 'Allow both email addresses and phone numbers (users can choose one)'. The 'Username' option is also available, with sub-options 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)'. A note at the bottom states: '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".' A checkbox for '(Recommended) Enable case insensitivity for username input' is present and unchecked. The footer contains links for Feedback, English (US), and copyright information.

aws Services (Recommended) Enable case insensitivity for username input

Shiva Basava P N. Virginia Support

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 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 type="checkbox"/>	gender	<input 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](#)

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4. After clicking on Add attribute, Provide the following **Policies**

aws Services User Pools Federated Identities

Shiva Basava P N. Virginia Support

Create a user pool

Cancel

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

Back Next step

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5. We are using default settings for **MFA and verifications, Message customizations, Tags, Devices, App clients, Triggers.** As shown in the following screenshots-

(MFA and verifications)

The screenshot shows the AWS IAM console interface for creating a user pool. The left sidebar contains a navigation menu with options: Name, Attributes, Policies, MFA and verifications (highlighted), Message customizations, Tags, Devices, App clients, Triggers, and Review. The main content area is titled 'Create a user pool' and includes a 'Cancel' button in the top right corner.

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?

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

myUserPool-SMS-Role

Create role

Back Next step

(Message customizations)

The screenshot shows the 'Create a user pool' page in the AWS IAM console, specifically the 'Message customizations' tab. The left sidebar contains a navigation menu with options: Name, Attributes, Policies, MFA and verifications, Message customizations (selected), Tags, Devices, App clients, Triggers, and Review. The main content area is titled 'Do you want to customize your email address?'. Below this title, there is a sub-header 'SES Region' with a dropdown menu set to 'US East (Virginia)'. Another sub-header 'FROM email address ARN' has a dropdown menu set to 'Default'. A text input field for 'FROM email address' contains the example 'e.g. John Smith <john@smith.com>'. Below that is an empty text input field for 'REPLY-TO email address'. At the bottom of this section, there is a question 'Do you want to send emails through your Amazon SES Configuration?' with two radio button options: 'Yes - Use Amazon SES' (which is disabled and has a red asterisk indicating it requires a FROM email address ARN) and 'No - Use Cognito (Default)' (which is selected). The footer of the console shows 'Feedback', 'English (US)', and copyright information for 2008-2020.

aws Services

Shiva Basava P N. Virginia Support

Cancel

Create a user pool

Name

Attributes

Policies

MFA and verifications

Message customizations

Tags

Devices

App clients

Triggers

Review

Do you want to customize your email address?

You can send emails from an SES verified identity. [Learn more about SES verified identities and domains.](#)

SES Region

US East (Virginia)

FROM email address ARN

Default

You must verify your email address with Amazon SES before you can select it. [Verify an SES identity.](#)

FROM email address

e.g. John Smith <john@smith.com>

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)

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This screenshot continues from the previous one, showing the lower portion of the 'Message customizations' tab. It features two sections. The first section is titled 'Do you want to customize your email verification messages?'. It includes a sub-header 'Verification type' with two radio button options: 'Code' (selected) and 'Link'. Below this is an 'Email subject' text input field containing 'Your verification code'. Then is an 'Email message' text area containing 'Your verification code is {####}'. A note below states: 'You can customize the message above and include HTML tags, but it must include the "{####}" placeholder, which will be replaced with the code.' The second section is titled 'Do you want to customize your user invitation messages?'. It has a sub-header 'SMS message' and a text area containing 'Your username is {username} and temporary password is {####}'. A note below states: 'You can customize the message above and include HTML tags, but it must include the "{username}" and "{####}" placeholder, which will be replaced with the username and temporary password respectively.' The footer is identical to the previous screenshot.

aws Services

Shiva Basava P N. Virginia Support

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 {####}.

You can customize the message above and include HTML tags, but it must include the "{####}" placeholder, which will be replaced with the code.

Do you want to customize your user invitation messages?

SMS message

Your username is {username} and temporary password is {####}.

You can customize the message above and include HTML tags, but it must include the "{username}" and "{####}" placeholder, which will be replaced with the username and temporary password respectively.

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The screenshot shows the AWS IAM console interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, and user information (Shiva Basava P, N. Virginia, Support). The main heading is 'Do you want to customize your user invitation messages?'. Below this, there are three sections: 'SMS message', 'Email subject', and 'Email message'. Each section has a text area for customization. The 'SMS message' and 'Email message' text areas contain the placeholder text: 'Your username is {username} and temporary password is {#####}'. Below the text areas, there's a note: 'You can customize the message above and include HTML tags, but it must include the "{username}" and "{#####}" placeholder, which will be replaced with the username and temporary password respectively.' At the bottom, there are 'Back' and 'Next step' buttons.

(Tags)

The screenshot shows the AWS IAM console interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, and user information (Shiva Basava P, N. Virginia, Support). The main heading is 'Create a user pool'. On the left, there's a sidebar with a list of options: Name, Attributes, Policies, MFA and verifications, Message customizations, Tags (highlighted), Devices, App clients, Triggers, and Review. The main content area has the heading 'Do you want to add tags for this user pool?' and a subtext: 'You can create new tags by entering tag keys and tag values below'. Below this, there's an 'Add tag' button. At the bottom, there are 'Back' and 'Next step' buttons.

(Devices)

The screenshot shows the AWS IAM console interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, and user information (Shiva Basava P, N. Virginia, Support). The main heading is 'Create a user pool'. On the left, there's a sidebar with a list of options: Name, Attributes, Policies, MFA and verifications, Message customizations, Tags, Devices (highlighted), App clients, Triggers, and Review. The main content area has the heading 'Do you want to remember your user's devices?'. Below this, there are three buttons: 'Always', 'User Opt In', and 'No' (selected). At the bottom, there are 'Back' and 'Next step' buttons.

(App clients)

The screenshot shows the 'Create a user pool' wizard in the AWS IAM console, specifically the 'App clients' step. The left sidebar contains a navigation menu with options: Name, Attributes, Policies, MFA and verifications, Message customizations, Tags, Devices, App clients (highlighted), Triggers, and Review. The main content area is titled 'Which app clients will have access to this user pool?' and includes a sub-header: 'The app clients that you add below will be given a unique ID and an optional secret key to access this user pool.' Below this, there is a blue link 'Add an app client'. At the bottom of the main area are two buttons: 'Back' and 'Next step'. A 'Cancel' button is located in the top right corner of the wizard area.

(Triggers)

The screenshot shows the 'Create a user pool' wizard in the AWS IAM console, specifically the 'Triggers' step. The left sidebar contains a navigation menu with options: Name, Attributes, Policies, MFA and verifications, Message customizations, Tags, Devices, App clients, Triggers (highlighted), and Review. The main content area is titled 'Do you want to customize workflows with triggers?' and includes a sub-header: 'You can make advanced customizations with AWS Lambda functions. Pick AWS Lambda functions to trigger with different events if you want to customize workflows and the user experience. Visit the [AWS Lambda console](#) to create your functions before selecting them below. [Learn more about triggers.](#)' Below this, there are four configuration boxes: 'Pre sign-up', 'Pre authentication', 'Custom message', and 'Post authentication'. Each box contains a description of the trigger and a 'Lambda function' dropdown menu, all of which are currently set to 'none'. At the bottom of the page, there is a footer with 'Feedback', 'English (US)', and copyright information: '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' along with links to 'Privacy Policy' and 'Terms of Use'.

aws Services

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Post confirmation

This trigger is invoked after a user is confirmed, allowing you to send custom messages or to add custom logic, for example for analytics.

Lambda function

none

Define Auth Challenge

This trigger is invoked to initiate the custom authentication flow.

Lambda function

none

Verify Auth Challenge Response

This trigger is invoked to verify if the response from the end user for a custom authentication challenge is valid or not.

Lambda function

none

Create Auth Challenge

This trigger is invoked after 'Define Auth Challenge' if a custom challenge has been specified as part of the 'Define Auth Challenge' trigger.

Lambda function

none

Pre Token Generation

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Create Auth Challenge

This trigger is invoked after 'Define Auth Challenge' if a custom challenge has been specified as part of the 'Define Auth Challenge' trigger.

Lambda function

none

User Migration

This trigger is invoked during sign in and forgot-password operations to migrate users from your existing directory into this user pool.

Lambda function

none

Pre Token Generation

This trigger is invoked before the token generation, allowing you to customize the claims in the identity token.

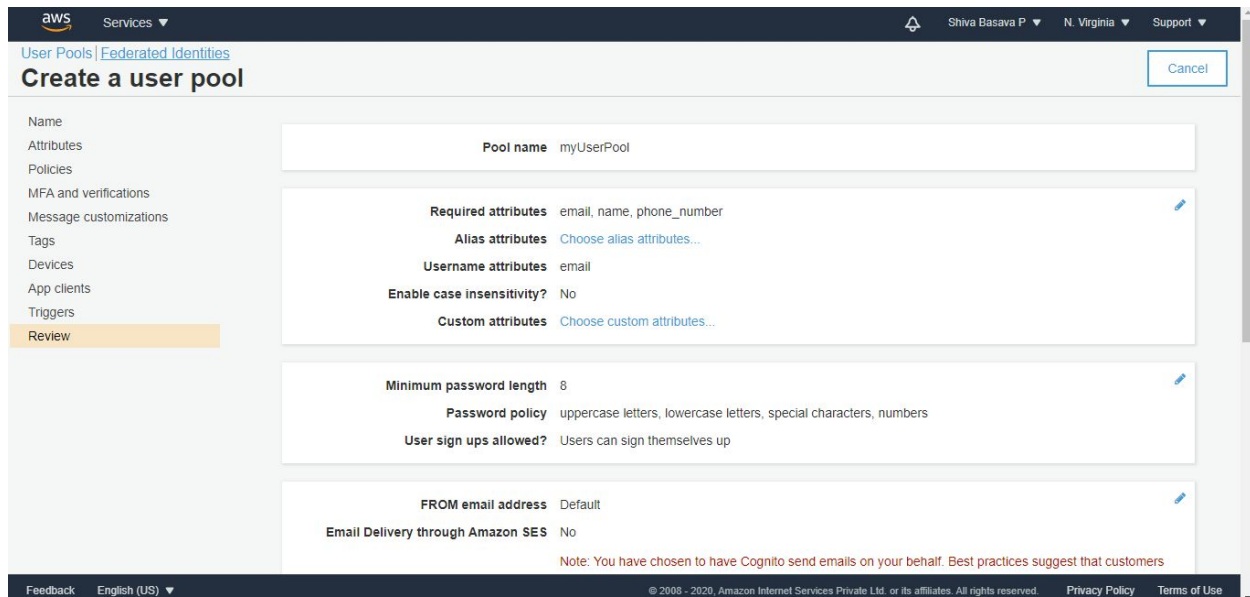
Lambda function

none

Back Next step

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6. Review for the created User Pool.



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

Pool name myUserPool

Required attributes email, name, phone_number

Alias attributes Choose alias attributes...

Username attributes email

Enable case insensitivity? No

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

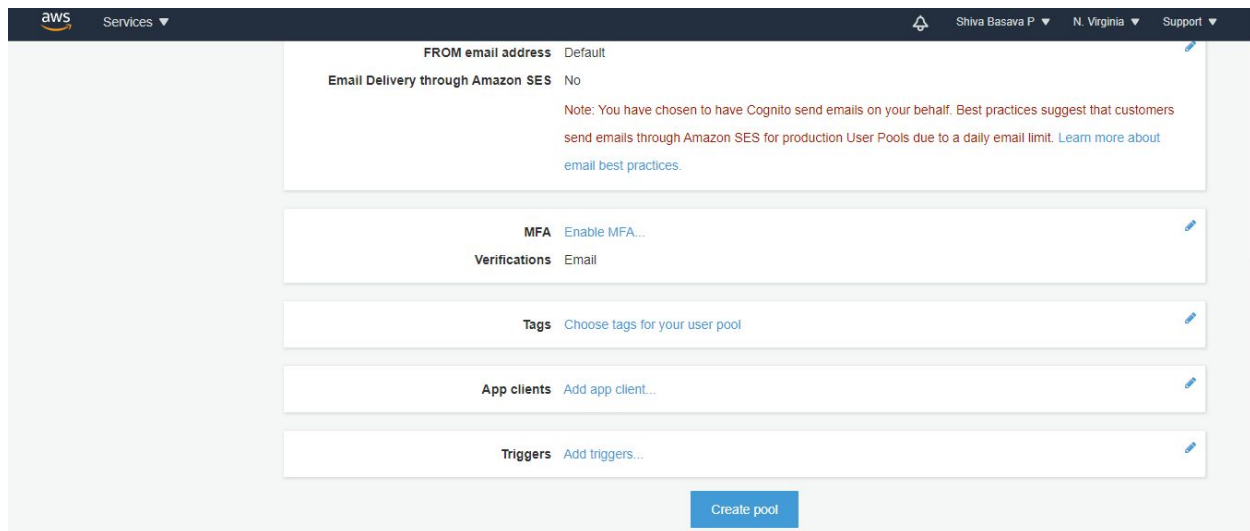
FROM email address Default

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.](#)

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aws Services

Shiva Basava P N. Virginia Support

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 Choose tags for your user pool

App clients Add app client...

Triggers Add triggers...

Create pool

7. Added user to the user pool

Following are the screenshots -

User - Ram

Create user

Username (Required)
Ram

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

Temporary password
.....

Phone Number
+14325551212
☐ Mark phone number as verified?

Email
Ram@email.com
☐ Mark email as verified?

Create user

Create user

Username (Required)
Ram

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

Temporary password
.....

Phone Number
+14325551212
☐ Mark phone number as verified?

Email
Ram@email.com
☐ Mark email as verified?

Username should be an email. (Service: AWSCognitoIdentityProviderService; Status Code: 400; Error Code: InvalidParameterException; Request ID: a9e09447-6b32-4d01-81b4-29e04c9d1635; Proxy: null)

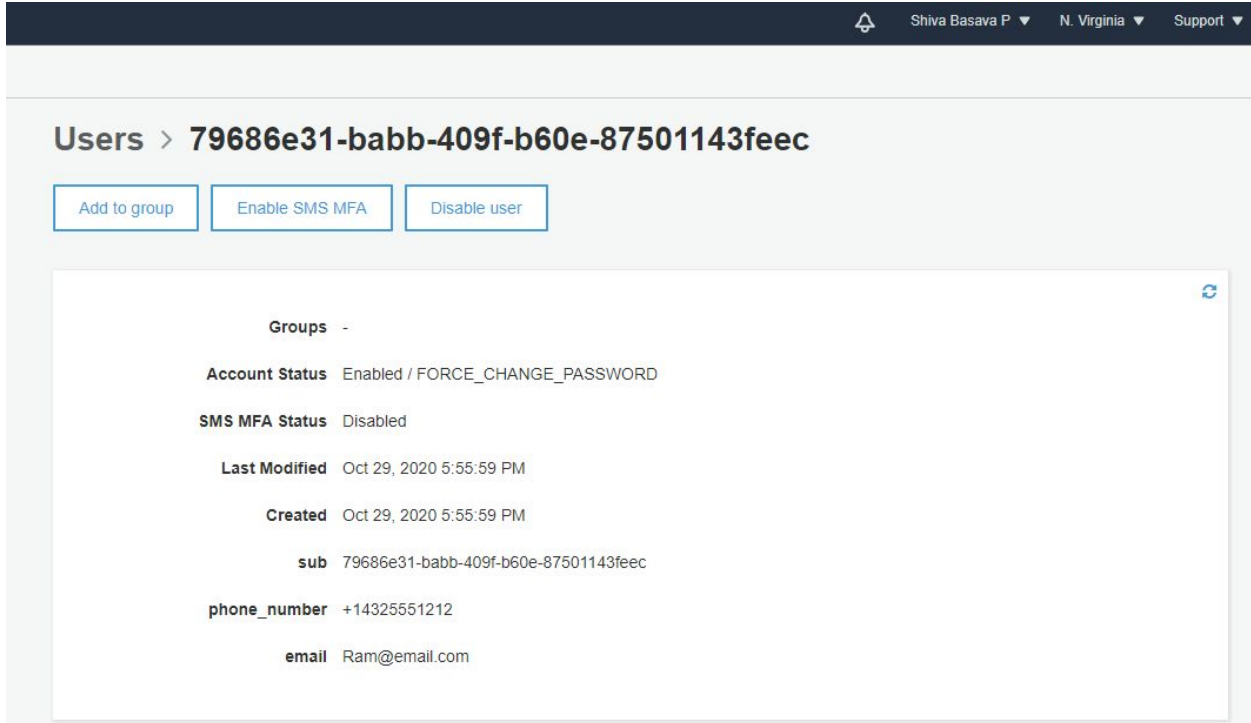
Users

Import users

Create user

User name Search for value...

Username	Enabled	Account status	Email verified	Phone number verified	Updated	Created
79686e31-babb-409f-b60e-87501143feec	Enabled	FORCE_CHANGE_PASSWORD	-	-	Oct 29, 2020 5:55:59 PM	Oct 29, 2020 5:55:59 PM



The screenshot shows the AWS IAM console interface. At the top, there's a navigation bar with the AWS logo, a user profile for 'Shiva Basava P', the region 'N. Virginia', and a 'Support' link. Below the navigation bar, the breadcrumb 'Users > 79686e31-babb-409f-b60e-87501143feec' is displayed. Under the breadcrumb, there are three buttons: 'Add to group', 'Enable SMS MFA', and 'Disable user'. The main content area shows the user's details in a card format. It includes a 'Groups' section with a minus sign and a refresh icon. The 'Account Status' is 'Enabled / FORCE_CHANGE_PASSWORD'. The 'SMS MFA Status' is 'Disabled'. The 'Last Modified' and 'Created' timestamps are both 'Oct 29, 2020 5:55:59 PM'. The 'sub' (subject) is '79686e31-babb-409f-b60e-87501143feec'. The 'phone_number' is '+14325551212' and the 'email' is 'Ram@email.com'.

Users > 79686e31-babb-409f-b60e-87501143feec

Add to group Enable SMS MFA Disable user

Groups -

Account Status Enabled / FORCE_CHANGE_PASSWORD

SMS MFA Status Disabled

Last Modified Oct 29, 2020 5:55:59 PM

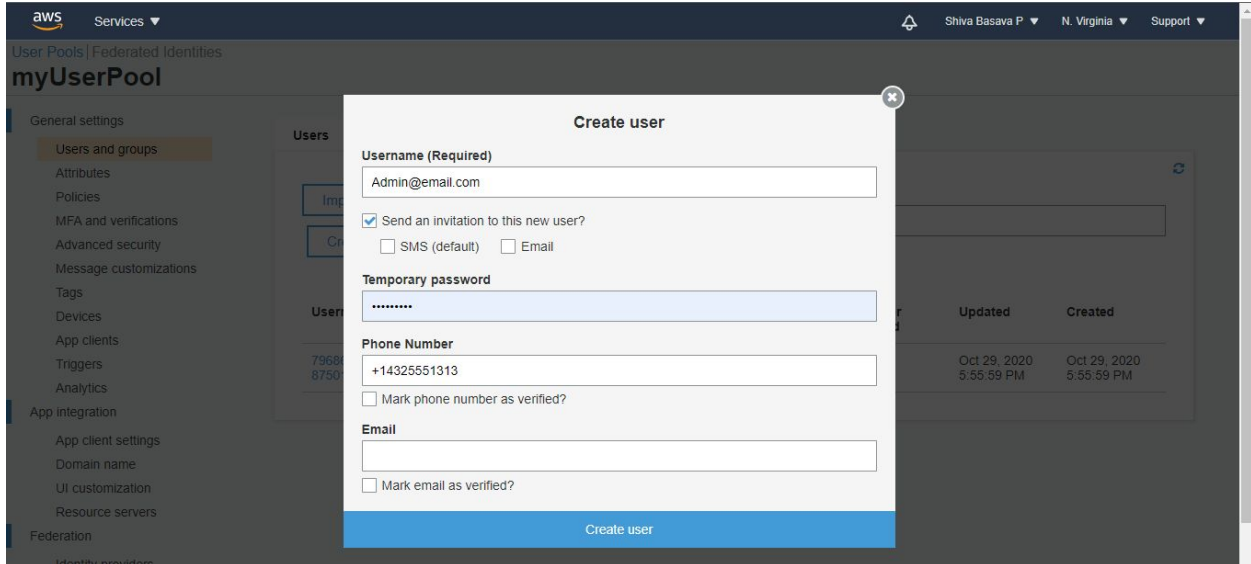
Created Oct 29, 2020 5:55:59 PM

sub 79686e31-babb-409f-b60e-87501143feec

phone_number +14325551212

email Ram@email.com

User - Admin



The screenshot shows the AWS IAM console interface with the 'Create user' modal open. The modal is titled 'Create user' and has a close button. It contains the following fields and options: 'Username (Required)' with the value 'Admin@email.com'; a checked checkbox 'Send an invitation to this new user?' with options for 'SMS (default)' and 'Email'; a 'Temporary password' field with a masked value '*****'; a 'Phone Number' field with the value '+14325551313' and an unchecked checkbox 'Mark phone number as verified?'; and an 'Email' field with an unchecked checkbox 'Mark email as verified?'. At the bottom of the modal is a blue 'Create user' button. The background shows the 'myUserPool' page with a sidebar menu containing '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', and 'Identity providers'. The 'Users' section is selected, and a table of users is visible in the background.

aws Services

User Pools | Federated Identities

myUserPool

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

Users

79686e31-babb-409f-b60e-87501143feec

Create user

Username (Required)

Admin@email.com

☒ Send an invitation to this new user?

☐ SMS (default) ☐ Email

Temporary password

Phone Number

+14325551313

☐ Mark phone number as verified?

Email

☐ Mark email as verified?

Create user

Updated	Created
Oct 29, 2020 5:55:59 PM	Oct 29, 2020 5:55:59 PM

The screenshot shows the AWS IAM console interface for 'myUserPool'. The 'Users' tab is selected, displaying a table of users. The table has columns for Username, Enabled, Account status, Email verified, Phone number verified, Updated, and Created. Two users are listed, both with 'Enabled' status and 'FORCE_CHANGE_PASSWORD' account status.

Username	Enabled	Account status	Email verified	Phone number verified	Updated	Created
79686e31-babb-409f-b60e-87501143feec	Enabled	FORCE_CHANGE_PASSWORD	-	-	Oct 29, 2020 5:55:59 PM	Oct 29, 2020 5:55:59 PM
ef27ca26-6124-456e-88db-d6041da40a5b	Enabled	FORCE_CHANGE_PASSWORD	-	-	Oct 29, 2020 6:08:51 PM	Oct 29, 2020 6:08:51 PM

Creating Group as 'Dev-Group'

The screenshot shows the 'Create group' dialog box in the AWS IAM console. The dialog has fields for Name (Required), Description, IAM role, and Precedence. The 'Name' field is filled with 'Dev-Group', the 'Description' with 'Developers Group', and the 'IAM role' with 'AWSServiceRoleForElasticLoadBalancing'. The 'Create role' link is visible next to the IAM role dropdown. The 'Precedence' field is empty. The 'Create group' button is at the bottom.

Create group

Name (Required)
Dev-Group

Description
Developers Group

IAM role
AWSServiceRoleForElasticLoadBalancing [Create role](#)

Precedence

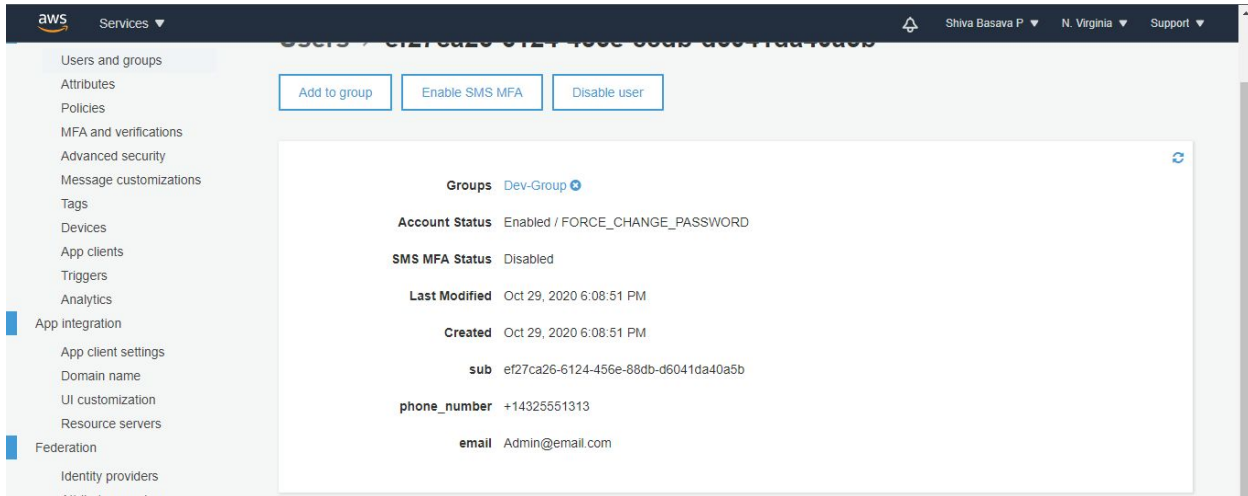
Precedence can be used to select which group is applied for permissions if a user is in multiple groups. The group with the lowest precedence is applied. [Learn more about precedence.](#)

Create group

The screenshot shows the AWS IAM console interface for 'myUserPool', now with the 'Groups' tab selected. A 'Create group' button is visible at the top. Below it, a table lists the created group, 'Dev-Group', with its description, precedence, and creation/update timestamps.

Group Name	Description	Precedence	Updated	Created
Dev-Group	Developers Group	-	Oct 29, 2020 6:04:06 PM	Oct 29, 2020 6:04:06 PM

Adding users(Admin & Ram) to Group



This screenshot shows the AWS IAM console interface for a user named 'Admin@email.com'. The left sidebar contains a navigation menu with options like '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', and 'Identity providers'. The main content area displays the user's details, including their account status, MFA status, last modified date, creation date, and various attributes like 'sub', 'phone_number', and 'email'. The user is associated with the 'Dev-Group'.

Users and groups

Add to group **Enable SMS MFA** **Disable user**

Groups Dev-Group

Account Status Enabled / FORCE_CHANGE_PASSWORD

SMS MFA Status Disabled

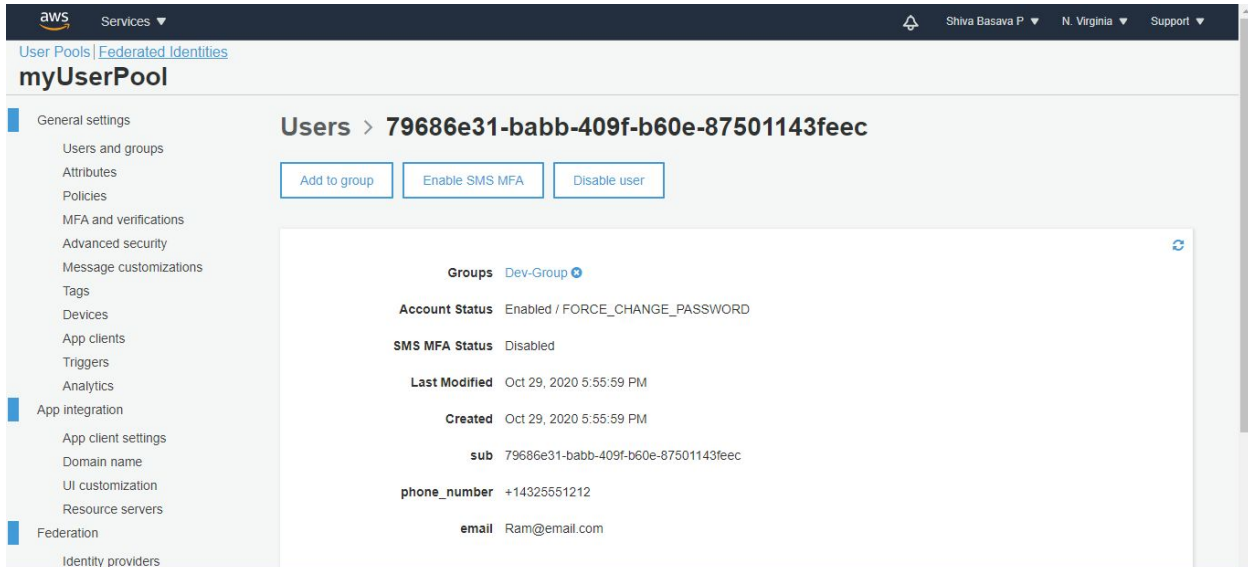
Last Modified Oct 29, 2020 6:08:51 PM

Created Oct 29, 2020 6:08:51 PM

sub ef27ca26-6124-456e-88db-d6041da40a5b

phone_number +14325551313

email Admin@email.com



This screenshot shows the AWS IAM console interface for a user named 'Ram@email.com'. The left sidebar contains a navigation menu with options like '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', and 'Identity providers'. The main content area displays the user's details, including their account status, MFA status, last modified date, creation date, and various attributes like 'sub', 'phone_number', and 'email'. The user is associated with the 'Dev-Group'.

User Pools **Federated Identities**

myUserPool

Users > 79686e31-babb-409f-b60e-87501143feec

Add to group **Enable SMS MFA** **Disable user**

Groups Dev-Group

Account Status Enabled / FORCE_CHANGE_PASSWORD

SMS MFA Status Disabled

Last Modified Oct 29, 2020 5:55:59 PM

Created Oct 29, 2020 5:55:59 PM

sub 79686e31-babb-409f-b60e-87501143feec

phone_number +14325551212

email Ram@email.com