



# **Multi - Factor Authentication (MFA)**

# MFA



# What is MFA ?



- **AWS** Multi-Factor Authentication (**MFA**) is the practice or requiring two or more forms of authentication to protect **AWS** resources.
- It is an added security feature available through Amazon Identity and Access Management (IAM) that strengthens username and password credentials.
- **Prerequisites** : Google Authenticator installed on smart phone

# Create IAM User



Search IAM

Add user

Delete user

Dashboard

Groups

**Users**

Roles

Policies

Identity providers

Account settings

Credential report

Encryption keys

Find users by username or access key



User name ▾

Groups

Access key age



reya

None

✓ 4 days

# Add user

## Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name\*

RNS

+ Add another user

## Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type\*

☐

**Programmatic access**

Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☒

**AWS Management Console access**

Enables a **password** that allows users to sign-in to the AWS Management Console.

Console password\*

☒

Autogenerated password

☐

Custom password

Require password reset

☐

User must create a new password at next sign-in

Users automatically get the [IAMUserChangePassword](#) policy to allow them to change their own password.

\* Required

Cancel

Next: Permissions

☾ **Select Attach Existing Policies**  
☾ **Select any policy name you required**  
**Next : Tags**

## Add user

1

2

3

4

5

### ▼ Set permissions



Add user to group



Copy permissions from existing user



Attach existing policies directly









Create policy



Filter policies ▼

Search

Showing 406 results

		Policy name ▼	Type	Used as	Description
<input checked="" type="checkbox"/>	▶	 AdministratorAccess	Job function	Permissions policy (1)	Provides full access to AWS services and...
<input type="checkbox"/>	▶	 AlexaForBusinessD...	AWS managed	None	Provide device setup access to AlexaFor...
<input type="checkbox"/>	▶	 AlexaForBusinessF...	AWS managed	None	Grants full access to AlexaForBusiness r...
<input type="checkbox"/>	▶	 AlexaForBusinessG...	AWS managed	None	Provide gateway execution access to Ale...
<input type="checkbox"/>	▶	 AlexaForBusinessR...	AWS managed	None	Provide read only access to AlexaForBus...
<input type="checkbox"/>	▶	 AmazonAPIGatewa...	AWS managed	None	Provides full access to create/edit/delete ...
<input type="checkbox"/>	▶	 AmazonAPIGatewa...	AWS managed	None	Provides full access to invoke APIs in Am...
<input type="checkbox"/>	▶	 AmazonAPIGatewa...	AWS managed	None	Allows API Gateway to push logs to user'...

### ▶ Set permissions boundary

Cancel

Previous

Next: Tags

☾ **Select Attach Existing Policies**  
☾ **Select any policy name you required**  
**Next : Tags** ☾ **Name & Dev**

## Add user

1 2 3 4 5

### ▼ Set permissions



Add user to group



Copy permissions from existing user



Attach existing policies directly









Create policy



Filter policies ▼

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### ▶ Set permissions boundary

Cancel

Previous

Next: Tags

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	RNS
AWS access type	AWS Management Console access - with a password
Console password type	Autogenerated
Require password reset	No
Permissions boundary	Permissions boundary is not set

Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	<a href="#">AdministratorAccess</a>

Tags

The new user will receive the following tag

Key	Value
Name	Dev

Cancel

Previous

Create user

Review  
Create User



# Add user

1

2

3

4

5



## Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: [https://\[redacted\].signin.aws.amazon.com/console](https://[redacted].signin.aws.amazon.com/console)

Download .csv

	User	Password	Email login instructions
--	------	----------	--------------------------



RNS

\*\*\*\*\* [Show](#)[Send email](#)

- ✓ Created user RNS
- ✓ Attached policy AdministratorAccess to user RNS
- ✓ Created login profile for user RNS

☾ **Select the created  
User  
and click on it**

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☐ User name ▾


☐ reya

☒ RNS

Assigned MFA Device  
Click Manage

Users > RNS

## Summary

User ARN [arn:aws:iam::\[REDACTED\]:user/RNS](#)   
Path [/](#)  
Creation time 2018-12-22 15:52 UTC+0530

Permissions

Groups

Tags (1)

Security credentials

Access Advisor

### Sign-in credentials

#### Summary

- Console sign-in link: [https://\[REDACTED\].signin.aws.amazon.com/console](https://[REDACTED].signin.aws.amazon.com/console)


#### Console password

Enabled (never signed in) | [Manage](#)

#### Assigned MFA device

Not assigned | [Manage](#)

#### Signing certificates

None 

### Access keys

Use access keys to make secure REST or HTTP Query protocol requests to AWS service APIs. For your protection, you should never share your secret k

Create access key

Access key ID

Created

Last used

No results

## Virtual MFA Device

Manage MFA device

Choose the type of MFA device to assign:

☒ **Virtual MFA device**  
Authenticator app installed on your mobile device or computer

☐ **U2F security key**  
YubiKey or any other compliant U2F device

☐ **Other hardware MFA device**  
Gemalto token

For more information about supported MFA devices, see [AWS Multi-Factor Authentication](#)

Cancel

Continue

- ☾ You should have google authenticator and Barcode Scanner installed on your phone
- ☾ Scan using barcode scanner application from your phone or
- ☾ From google authenticator add account and scan the code
- ☾ Provide 2 MFA Codes below
- ☾ Click Assign MFA


Once you logout and login the console after entering your AWS console password it asks for MFA  
You have to open the google authenticator from your phone and provide the code it has generated to the console

Set up virtual MFA device

1. Install a compatible app on your mobile device or computer

See a [list of compatible applications](#)

2. Use your virtual MFA app and your device's camera to scan the QR code



Alternatively, you can type the secret key. [Show secret key](#)

3. Type two consecutive MFA codes below

MFA code 1

456465

MFA code 2

789452

Cancel

Previous

Assign MFA

# NOW YOU ARE SECURE



**DEMONSTRATION?**