## **Amazon Simple Email Service (Amazon SES)**

Amazon Simple Email Service (Amazon SES) is a cloud-based email sending service provided by Amazon Web Services (AWS). SES is designed to make it easy for developers to send transactional, promotional, and marketing emails, as well as receive messages and process them.

## **Key Features of Amazon SES:**

- 1. **Email Sending:** SES enables users to send emails through the AWS Management Console, the AWS SDKs (Software Development Kits), or the SES API.
- 2. **Scalability:** SES is highly scalable, allowing users to send a virtually unlimited number of emails. It is suitable for both small-scale use cases and large-scale applications.
- 3. **Deliverability:** Amazon SES is designed to help improve email deliverability by providing features like content filtering, feedback loops, and dedicated IP addresses.
- 4. **Cost-Effective:** With a pay-as-you-go pricing model, SES is cost-effective for businesses of all sizes. Users pay only for the emails they send, and there are no upfront fees or minimum charges.
- 5. **Integration with AWS Services:** SES seamlessly integrates with other AWS services like Amazon S3, AWS Lambda, and Amazon Simple Notification Service (SNS), allowing for a comprehensive email solution within the AWS ecosystem.
- 6. **Content Filtering:** SES provides content filtering options to prevent the delivery of unwanted or harmful content. This helps maintain a positive sending reputation.
- 7. **Feedback Loops:** SES offers feedback loops to help users monitor their email sending reputation by providing notifications about bounced and complaint events.
- 8. **Email Receiving:** Apart from sending emails, SES also includes the capability to receive emails. Users can configure SES to receive emails and then process them using AWS Lambda or store them in an Amazon S3 bucket.

Amazon SES is a versatile solution for businesses and developers who need a reliable and scalable platform for sending and receiving emails. It is commonly used in various applications, including transactional emails, marketing campaigns, and communication with customers.

#### **SES documentation**

https://docs.aws.amazon.com/ses/latest/dg/request-production-access.html

## **Process to use SES:**

Creating and using an email account with Amazon Simple Email Service (SES) involves several steps. Here's a basic guide to help you set up an email account and use it with AWS SES:

## Step 1: Sign into the AWS Management Console

- 1. Navigate to the AWS Management Console.
- 2. Sign in with your AWS account credentials.

## **Step 2: Access Amazon SES**

- 1. In the AWS Management Console, navigate to the "Services" dropdown.
- 2. Under the "Application Integration" section, select "Simple Email Service (SES)."

## **Step 3: Verify a New Email Address**

- 1. In the SES dashboard, go to the "Email Addresses" section.
- 2. Click on the "Verify a New Email Address" button.
- 3. Enter the email address you want to verify and click "Verify This Email Address."
- 4. Amazon SES will send a verification email to the specified address. Open the email and click on the verification link to confirm.

## Step 4: Send a Test Email

- 1. In the SES dashboard, go to the "Email Addresses" section.
- 2. Click on the verified email address.
- 3. In the "Send a Test Email" section, enter the recipient email address, subject, and body of the test email.
- 4. Click on the "Send Test Email" button.

## **Step 5: Set Up SMTP Credentials (Optional)**

If you want to use SES for sending emails programmatically via SMTP, you need to set up SMTP credentials:

- 1. In the SES dashboard, go to the "SMTP Settings" section.
- 2. Click on "Create My SMTP Credentials."
- 3. Follow the instructions to create an IAM user and obtain SMTP credentials.

## Step 6: Use SES SMTP to Send Email (Optional)

Once you have SMTP credentials, you can configure your email client or application to send emails using SES:

- **SMTP Server:** Use the SES SMTP server for your region (e.g., smtp.us-west-2.amazonaws.com).
- SMTP Port: 587 (STARTTLS) or 2587 (TLS).
- SMTP Username: Your SES SMTP username.
- SMTP Password: Your SES SMTP password.

#### Note:

- Ensure that your AWS account is out of the SES sandbox to send emails to non-verified email addresses.
- Monitor your SES sending limits and adhere to best practices to maintain deliverability.

Remember that SES is primarily designed for transactional and bulk email sending. If you plan to send marketing emails, consider using the SES features and settings that comply with email marketing regulations.

# SES does not use for create and hosting we use WorkMail for creating and hosting email service in AWS:

We can not sue SES for creating an email id or hosting email service for that purpose we use WorkMail. Amazon SES (Simple Email Service) is primarily designed for sending emails, not for creating or hosting email accounts. SES allows you to send transactional, promotional, and marketing emails, but it doesn't provide the infrastructure for creating and managing email accounts with inboxes.

If you need email hosting services, you might want to consider other AWS services or external email hosting providers. Amazon WorkMail is an AWS service that provides email and calendaring functionality. It allows you to set up and manage email accounts for your organization.

Here's a brief overview of Amazon WorkMail:

## 1. Sign into AWS Management Console:

- Navigate to the AWS Management Console.
- Go to "Services" and select "WorkMail."

## 2. Create an organization:

- In the WorkMail dashboard, choose "Quick Setup" to create a new organization.
- Enter your organization details.

## 3. Create Users and Email Accounts:

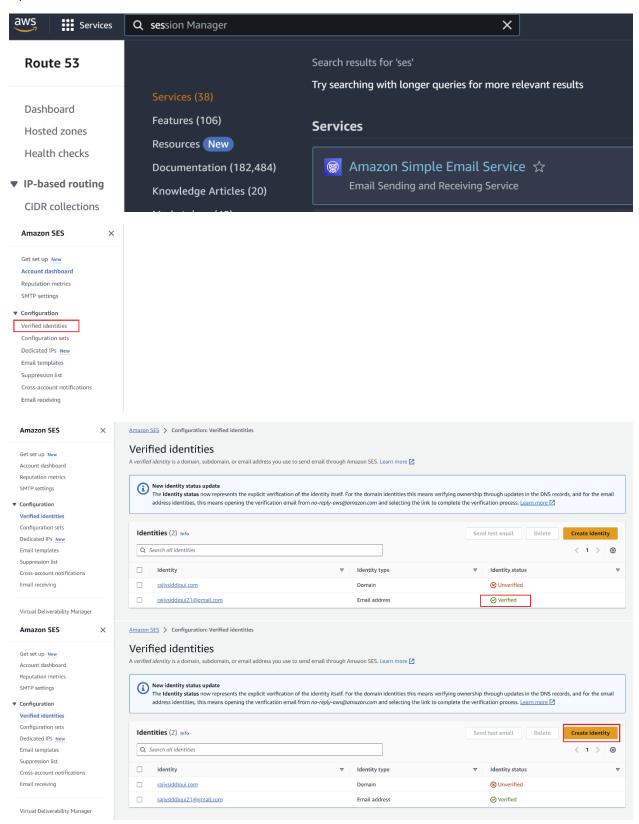
After creating the organization, you can add users and create email accounts for them.

## 4. Configure Email Clients:

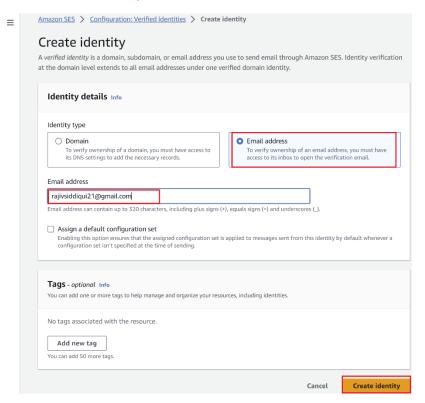
• Once the email accounts are set up, users can configure their email clients (such as Outlook, Thunderbird, etc.) to access their email.

It's important to note that while SES is suitable for sending emails, especially in a programmatic and automated way, for managing and hosting email accounts, services like Amazon WorkMail or other dedicated email hosting providers would be more appropriate.

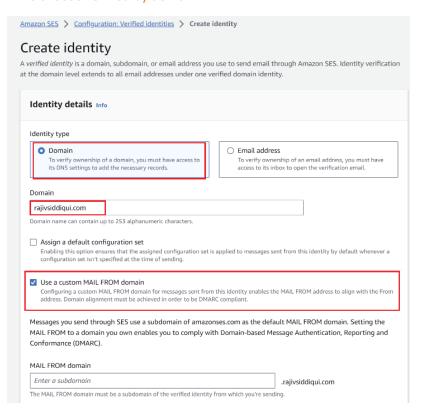
## Open SES from console

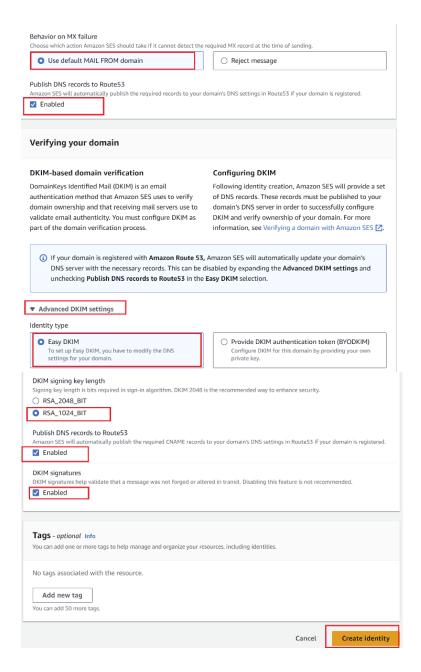


## If we choose verified by email



## If we choose verified by domain

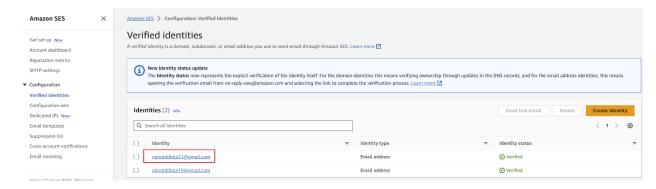




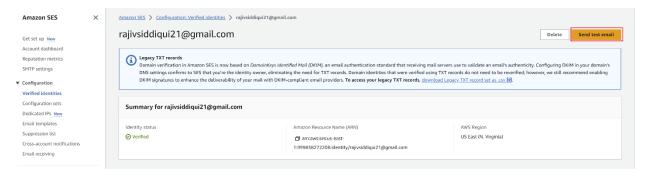
After clicking Create identity if you choose verified by email then you will get and email to that email id so just go to that email id and accept that email which you get from SES.So, this email is now verified so you can use this email

But if you verified by domain then it will take 24-72 hours and you need to make sure one good website is showing to that domain, and you also need to request AWS to move your domain form sandbox then you can send any email from that domain.

## Send email from AWS SES website



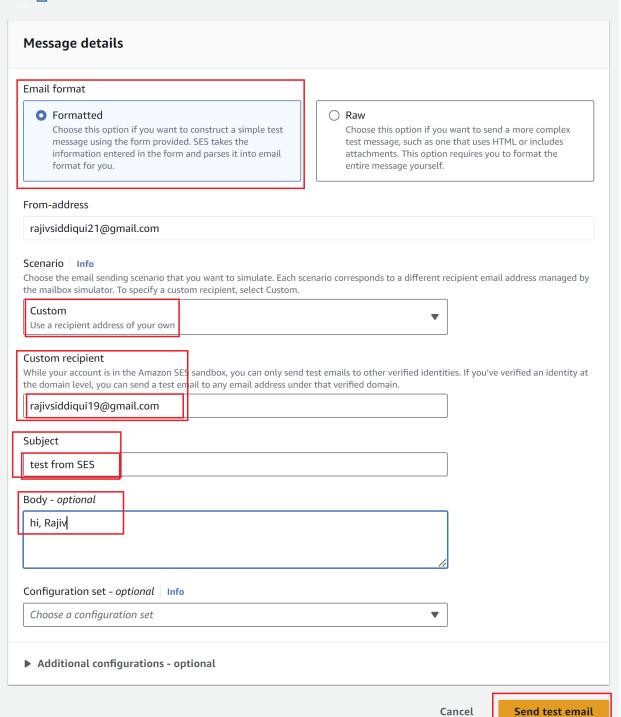
#### Next



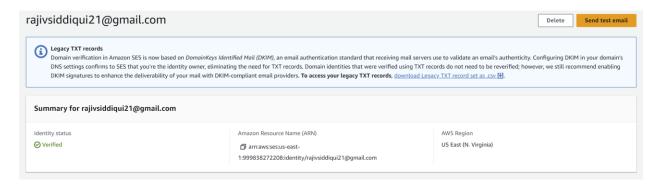
## Next

## Send test email Info

The Amazon SES mailbox simulator lets you test how your application handles different email sending scenarios. Emails that you send to the mailbox simulator do not count towards your sending quota or your bounce and complaint rates. Learn more 🛂

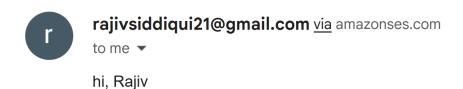


Cancel

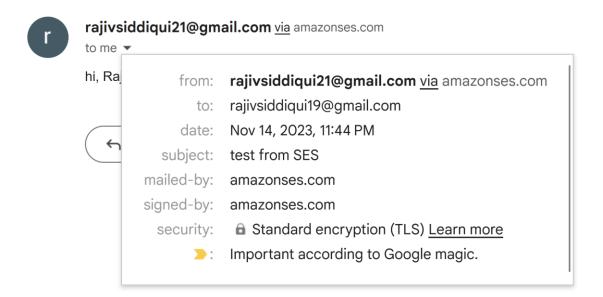


Now go to email and check

# test from SES Inbox x



## test from SES Inbox x



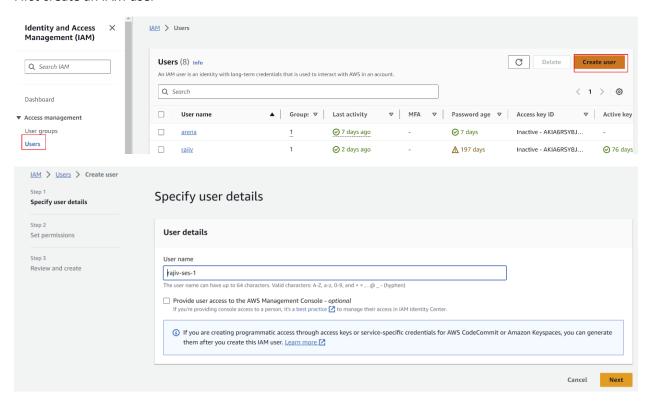
## Now we can setup or domain or email id in magnetic mailer

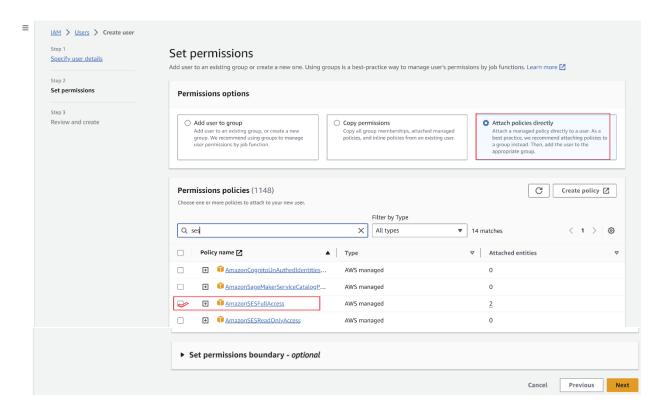
For testing and sending email by any website we can use the following website and then we need authenticate by few way we can use smtp account or we can create an IAM user account with attach **AmazonSESFullAccess** policy and create a access key and secret access key and put it as below and then we can use and test email from that website.

## Create a IAM role with access key and secret accesskey

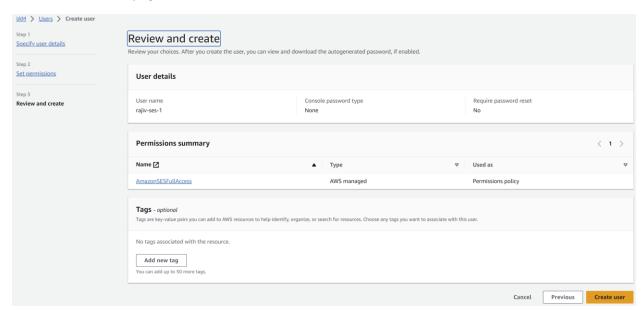
Create IAM role and attached **AmazonSESFullAccess** permission > then create a credentials and we use this credentials which is access key and secret access key use in the magneticmailer.com

#### First create an IAM user

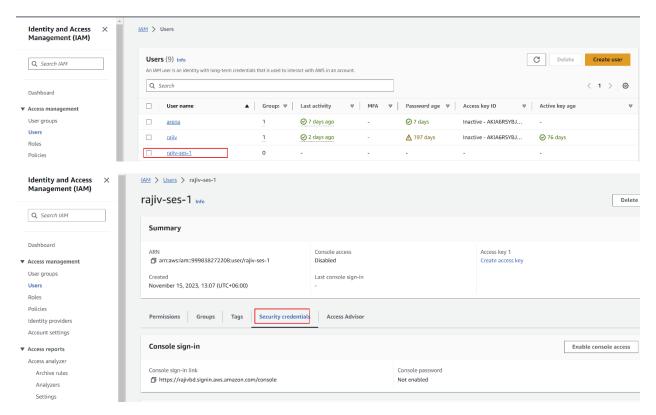




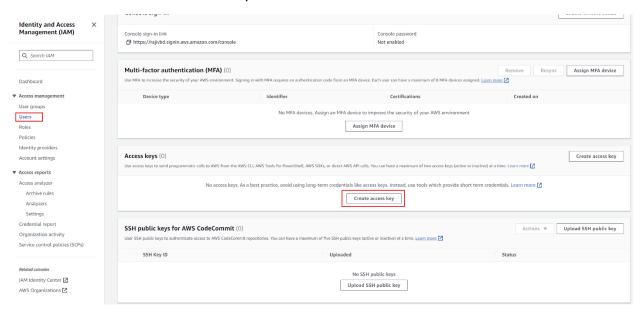
## Click next then next page click create user button

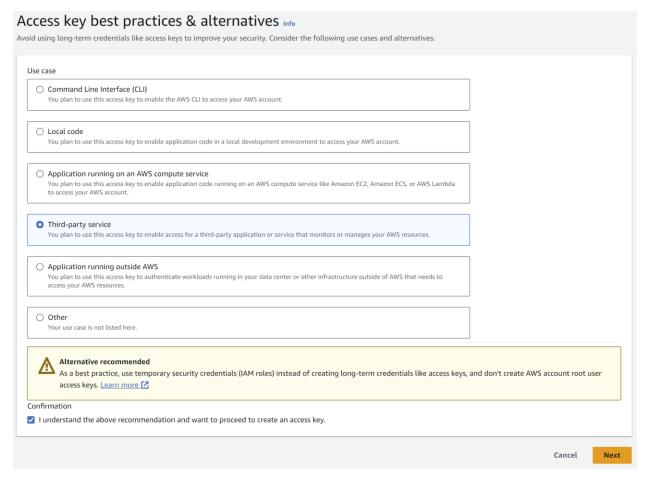


Now click the user



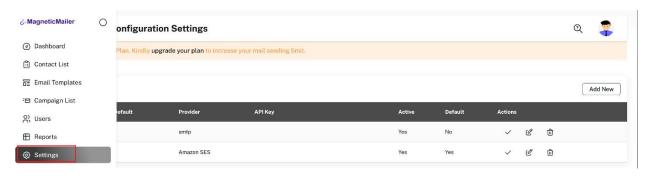
## Scroll own and click Create an access key

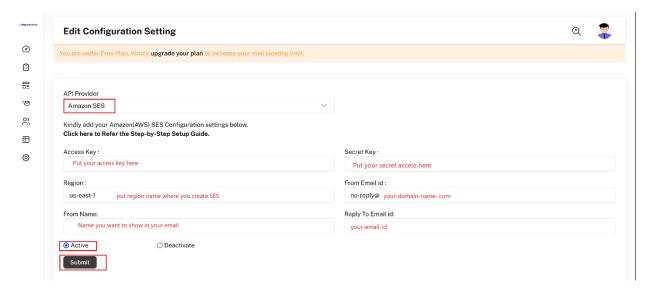




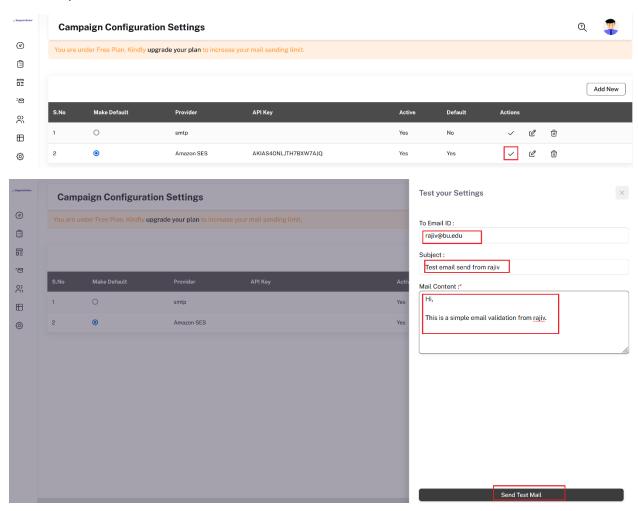
Now user this access key in magnetic mailer

## magneticmailer.com

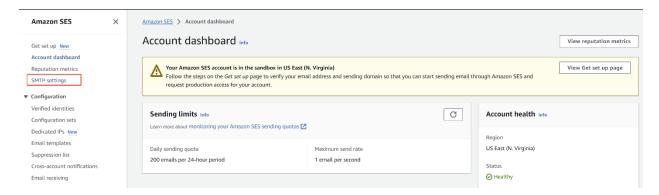




## After setup we can test an email



We also create an SMTP user credentials for use it in our coding



We can create and mage SMTP account from here and also we get SMTP server endpoint and port we need to use

