<https://aws.amazon.com/blogs/messaging-and-targeting/forward-incoming-email-to-an-external-destination/>

[https://stackoverflow.com/questions/24218925/how-to-setup-email-forwarding-with-own-domain-on-amazon-ec2/38006696#38006696](https://stackoverflow.com/questions/24218925/how-to-setup-email-forwarding-with-own-domain-on-amazon-ec2/38006696" \l "38006696)

Step 1: setup domain and verify

Step 2: create AWS S3 bucket (<https://console.aws.amazon.com/s3/>.)

Tutorial on S3: <https://docs.aws.amazon.com/AmazonS3/latest/gsg/SigningUpforS3.html>

<https://console.aws.amazon.com/iam/home#/home> - awsAccountID

<https://docs.aws.amazon.com/AmazonS3/latest/user-guide/add-bucket-policy.html> - add policy

s3 > click on specific Bucket > permissions > bucket policy

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "AllowSESPuts",

"Effect": "Allow",

"Principal": {

"Service": "ses.amazonaws.com"

},

"Action": "s3:PutObject",

"Resource": "arn:aws:s3:::shsu-bucket-inspire/\*",

"Condition": {

"StringEquals": {

"aws:Referer": "**597407336730**"

}

}

}

]

}

#arn:aws:s3:::shsu-bucket-inspire

Step 3: Create IAM policy

<https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create.html> (tutorial)

<https://console.aws.amazon.com/iam/home?#/home> <- console

1. Roles -> create roles -> another AWS account

Enter the AWS account ID

External ID when granting AWS resource to a third party:

<https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-user_externalid.html>

IAM role allows third part company to access AWS resources without sharing long term

1. Permissions -

CREATE POLICY:

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "VisualEditor0",

"Effect": "Allow",

"Action": [

"logs:CreateLogStream",

"logs:CreateLogGroup",

"logs:PutLogEvents"

],

"Resource": "\*"

},

{

"Sid": "VisualEditor1",

"Effect": "Allow",

"Action": [

"s3:GetObject",

"ses:SendRawEmail"

],

"Resource": [

"arn:aws:s3:::shsu-bucket-inspire/\*",

"arn:aws:ses:us-east-1:**597407336730**:identity/\*"

]

}

]

}

[ses\_nov\_7](https://console.aws.amazon.com/iam/home#/policies/arn%3Aaws%3Aiam%3A%3A597407336730%3Apolicy%2Fses_nov_7) (policy)

[**ses\_role\_nov\_7**](https://console.aws.amazon.com/iam/home#/roles/ses_role_nov_7) (role)

Attach it to a role

Bucket name, region, account id

Step 4: lambda

<https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions>

Python 3.7

Choose iam role earlier

Environment variables

Basic - Timeout value to 30 seconds

Step 5: sns topic

Step 6: receipt rule set

<https://docs.aws.amazon.com/ses/latest/DeveloperGuide/receiving-email-receipt-rules.html>

Add s3 action + lambda (event)

Under **Recipients**, specify the incoming email address or domain for which you want to set up a receipt rule.

forward\_ses\_nov\_7

<https://bravokeyl.com/how-to-set-up-email-forwarding-with-amazon-ses/#Create-a-Lambda-function-to-forward-recieved-email>

Bounces:

<https://docs.aws.amazon.com/ses/latest/DeveloperGuide/notifications-via-email.html>

<https://medium.com/quick-code/how-to-handling-bounced-and-complaint-notification-in-aws-within-15-minutes-827972207484> (better)

Lambda Policy

{  
 "Version": "2012-10-17",  
 "Statement": [  
 {  
 "Effect": "Allow",  
 "Action": [  
 "logs:CreateLogGroup",  
 "logs:CreateLogStream",  
 "logs:PutLogEvents"  
 ],  
 "Resource": "arn:aws:logs:\*:\*:\*"  
 },  
 {  
 "Effect": "Allow",  
 "Action": "ses:SendRawEmail",  
 "Resource": "\*"  
 },  
 {  
 "Effect": "Allow",  
 "Action": [  
 "s3:GetObject",  
 "s3:PutObject"  
 ],  
 "Resource": "arn:aws:s3:::S3-BUCKET-NAME/\*"  
 }  
 ]  
}

arn:aws:s3:::shsu-bucket-inspire

email rule set:

1. For **Rule Details**, use the following procedure to choose settings.
   1. For **Rule Name**, type a name for the receipt rule. The name must contain less than 64 alphanumeric, hyphen (-), underscore (\_), and period (.) characters. The name must start and end with a letter or number.
   2. If you want to enable the receipt rule, leave the **Enabled** option selected.
   3. If you want Amazon SES to reject any incoming emails that are not sent over a connection that is encrypted with Transport Layer Security (TLS), select **TLS**.
   4. If you want Amazon SES to scan incoming emails for spam and viruses, select **Enable Spam and Virus Scanning**.
2. For **Rule Set**, choose an existing receipt rule set or click **Create New Rule Set**.
3. For **Rule Position**, choose where to place the receipt rule in the ordered list of receipt rules. The receipt rules are evaluated sequentially.

<https://docs.aws.amazon.com/ses/latest/DeveloperGuide/receiving-email-receipt-rules.html>

<https://docs.aws.amazon.com/ses/latest/DeveloperGuide/send-email-smtp.html>

Metrics:

<https://docs.aws.amazon.com/ses/latest/DeveloperGuide/monitor-sending-activity.html>

Testing:

<https://docs.aws.amazon.com/ses/latest/DeveloperGuide/mailbox-simulator.html>

Method 2:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| inspireai.io. | MX | 10 inbound-smtp.us-east-1.amazonaws.com | - | - | 1800 |  |  |  |

Create SMTP user

ses-smtp-user.20191107-230018

SMTP Username:

AKIAYWGCARENEY2ZSXHX

SMTP Password:

BJSoZK1XHtUZiETo3MIdOcNMcRT0lMCDFbT74bGj2Y6e

BJSoZK1XHtUZiETo3MIdOcNMcRT0lMCDFbT74bGj2Y6e

<https://infra.engineer/aws/11-using-gmail-with-your-domain-utilising-amazon-ses-lambda> <- best

Gmail P1: <https://support.google.com/mail/answer/22370?hl=en>

Gmail P2: <https://support.google.com/a/answer/1710338?ctx=gmail&hl=en&authuser=0&visit_id=637087950684557482-3627175897&rd=1>

Settings -> change default email

10 mx1.improvmx.com

20 mx2.improvmx.com

<https://support.google.com/mail/answer/22370?hl=en>

arn:aws:s3:::shsu-bucket-inspire

arn:aws:logs:us-east-1:597407336730:log-group:/aws/lambda/ses\_lambda\_nov\_7