Guia para enviar E-mail via AWS SES

# Formas de enviar e-mail pela Amazon SES

* Via SMTP
* Via Query HTTPS
* Via AWS SDK

# Enviando E-mail via SMTP:

* Server Name: email-smtp.us-east-1.amazonaws.com
* Port: 25, 465 or 587
* Use Transport Layer Security (TLS): Yes
* E-mail: [mailing@cielo.vek.com.br](mailto:mailing@cielo.vek.com.br)
* SMTP Username: AKIAJQYIVRR7LKDYD2SA
* SMTP Password: AngypmGR+SzjjEb6Wms33BjUlQTruAkzkIBmKqjU2Ljz

## Códigos de Retorno:

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/smtp-response-codes.html>

|  |  |  |
| --- | --- | --- |
| **Description** | **Response code** | **More information** |
| Authentication successful | 235 Authentication successful | N/A |
| Successful delivery | 250 Ok <*Message ID*> | <*Message ID*> is a string of characters that Amazon SES uses to uniquely identify a message. |
| Daily sending quota exceeded | 454 Throttling failure: Daily message quota exceeded | You have exceeded the maximum number of emails that Amazon SES permits you to send in a 24-hour period. For more information, see [Managing Your Amazon SES Sending Limits](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/manage-sending-limits.html). |
| Maximum send rate exceeded | 454 Throttling failure: Maximum sending rate exceeded | You have exceeded the maximum number of emails that Amazon SES permits you to send per second. For more information, see [Managing Your Amazon SES Sending Limits](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/manage-sending-limits.html). |
| Amazon SES issue when validating SMTP credentials | 454 Temporary authentication failure | Possible reasons include, but are not limited to:   * There is a problem with the encryption between your email-sending application and Amazon SES. Note that you need to use an encrypted connection when you connect to Amazon SES. For more information, see [Connecting to the Amazon SES SMTP Endpoint](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/smtp-connect.html). * Amazon SES could be experiencing an issue. Check the [AWS Service Health Dashboard](http://status.aws.amazon.com/) for updates. |
| Problem receiving the request | 454 Temporary service failure | Amazon SES did not successfully receive the request and therefore did not send the message. Please retry the request. |
| Incorrect credentials | 530 Authentication required | Your email-sending application did not attempt to authenticate with Amazon SES when it tried to connect to the Amazon SES SMTP interface. For an example of how to set up an email-sending application to authenticate with Amazon SES, see [Configuring Email Clients to Send Through Amazon SES](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/configure-email-client.html). |
| Authentication Credentials Invalid | 535 Authentication Credentials Invalid | Your email-sending application did not provide the correct SMTP credentials to Amazon SES. Note that your SMTP credentials are not the same as your AWS credentials. For more information, see [Obtaining Your Amazon SES SMTP Credentials](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/smtp-credentials.html). |
| Account not subscribed to Amazon SES | 535 Account not subscribed to SES | The AWS account that owns the SMTP credentials is not signed up for Amazon SES. |
| User not authorized to call the Amazon SES SMTP endpoint | 554 Access denied: User <User ARN> is not authorized to perform ses:SendRawEmail on resource <Identity ARN> | The AWS Identity and Access Management (IAM) policy or the Amazon SES sending authorization policy of the user who owns the SMTP credentials is not allowed to call the Amazon SES SMTP endpoint. For information about how to get SMTP credentials for an existing IAM user, see [Obtaining Amazon SES SMTP Credentials by Converting AWS Credentials](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/smtp-credentials.html#smtp-credentials-convert). |
| Unverified email address | 554 Message rejected: Email address is not verified. The following identities failed the check in region <region>: <identity1>, <identity2>, <identity3> | You are trying to send email from an email address or domain that you have not [verified with Amazon SES](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/verify-addresses-and-domains.html). This error could apply to the "From", "Source", "Sender", or "Return-Path" address. If your account is still in the sandbox, you also must verify every recipient email address except for the recipients provided by the [Amazon SES mailbox simulator](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/mailbox-simulator.html). If Amazon SES is not able to show all of the failed identities, the error message ends with an ellipsis.  **Note**  Amazon SES has endpoints in [multiple AWS regions](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/regions.html), and email address verification status is separate for each AWS region. You must complete the verification process for each sender in the AWS region(s) you want to use. |

# Enviando E-mail via Query HTTPS

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/query-interface.html>

## Query Requests:

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/query-interface-requests.html>

https://email.us-west-2.amazonaws.com?Action=SendEmail&Source=user%40example.com&Destination.ToAddresses.member.1=allan%40example.com&Message.Subject.Data=This%20is%20the%20subject%20line.&Message.Body.Text.Data=Hello.%20I%20hope%20you%20are%20having%20a%20good%20day.

https://email.us-west-2.amazonaws.com

?Action=SendEmail

&Source=user%40example.com

&Destination.ToAddresses.member.1=allan%40example.com

&Message.Subject.Data=This%20is%20the%20subject%20line.

&Message.Body.Text.Data=Hello.%20I%20hope%20you%20are%20having%20a%20good%20day.

### Exemplo de GET Request

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/query-interface-examples.html>

https://email.us-west-2.amazonaws.com/

?Action=SendEmail

&Source=user%40example.com

&Destination.ToAddresses.member.1=allan%40example.com

&Message.Subject.Data=This%20is%20the%20subject%20line.

&Message.Body.Text.Data=Hello.%20I%20hope%20you%20are%20having%20a%20good%20day.

&AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE

&Signature=RhU864jFu893mg7g9N9j9nr6h7EXAMPLE

&Algorithm=HMACSHA256

### Exemplo de POST Request

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/query-interface-examples.html>

POST / HTTP/1.1

Host: email.us-west-2.amazonaws.com

Content-Type: application/x-www-form-urlencoded

Date: Tue, 25 May 2010 21:20:27 +0000

Content-Length: 174

Action=SendRawEmail

&Destinations.member.1=allan%40example.com

&RawMessage.Data=RnJvbTp1c2VyQGV4YW1wbGUuY29tDQpTdWJqZWN0OiBUZXN0DQoNCk1lc3 ...

## Query Responses:

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/query-interface-responses.html>

# Enviando E-mail via AWS SDK for Java

<http://docs.aws.amazon.com/ses/latest/DeveloperGuide/send-using-sdk-java.html>

## Guia de Referência da API

<http://docs.aws.amazon.com/pt_br/ses/latest/APIReference/Welcome.html>

### Enviando um E-mail formatado pela AWS SES: SendEmail

<http://docs.aws.amazon.com/pt_br/ses/latest/APIReference/API_SendEmail.html>

### Formatando e Enviando um E-mail: SendRawEmail

<http://docs.aws.amazon.com/pt_br/ses/latest/APIReference/API_SendRawEmail.html>

### Identificando a Quota de Envio de E-mail: GetSendQuota

<http://docs.aws.amazon.com/pt_br/ses/latest/APIReference/API_GetSendQuota.html>

## Testando Situações de Envio de E-mail

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

|  |  |
| --- | --- |
| **Simulated scenario** | **Mailbox simulator email address** |
| Success—The recipient's ISP accepts your email. If you have set up delivery notifications as described in [Monitoring Using Amazon SES Notifications](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/notifications.html), Amazon SES sends you a delivery notification through Amazon Simple Notification Service (Amazon SNS). Otherwise, you will not receive any confirmation about this successful delivery other than the API return value. | success@simulator.amazonses.com |
| Bounce—The recipient's ISP rejects your email with an SMTP 550 5.1.1 response code ("Unknown User"). Amazon SES generates a bounce notification and sends it to you via email or by using an Amazon SNS notification, depending on how you set up your system. This mailbox simulator email address will not be placed on the Amazon SES suppression list as one normally would when an email hard bounces. The bounce response that you receive from the mailbox simulator is compliant with [RFC 3464](https://tools.ietf.org/html/rfc3464). For information about how to receive bounce feedback, see [Monitoring Using Amazon SES Notifications](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/notifications.html). | bounce@simulator.amazonses.com |
| Out of the Office—The recipient's ISP accepts your email and delivers it to the recipient’s inbox. The ISP sends an out-of-the-office (OOTO) message to Amazon SES. Amazon SES then forwards the OOTO message to you via email or by using an Amazon SNS notification, depending on how you set up your system. The OOTO response that you receive from the Mailbox Simulator is compliant with [RFC 3834](https://tools.ietf.org/html/rfc3834). For information about how to set up your system to receive OOTO responses, follow the same instructions for setting up how Amazon SES sends you notifications in [Monitoring Using Amazon SES Notifications](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/notifications.html). | ooto@simulator.amazonses.com |
| Complaint—The recipient's ISP accepts your email and delivers it to the recipient’s inbox. The recipient, however, does not want to receive your message and clicks "Mark as Spam" within an email application that uses an ISP that sends a complaint response to Amazon SES. Amazon SES then forwards the complaint notification to you via email or by using an Amazon SNS notification, depending on how you set up your system. The complaint response that you receive from the mailbox simulator is compliant with [RFC 5965](https://tools.ietf.org/html/rfc5965). For information about how to receive bounce feedback, see [Monitoring Using Amazon SES Notifications](http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/notifications.html). | complaint@simulator.amazonses.com |
| Address on Suppression List—Amazon SES treats your email as a hard bounce because the address you are sending to is on the Amazon SES suppression list. | suppressionlist@simulator.amazonses.com |

## Guia do Desenvolvedor

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/Welcome.html>

## Exemplos

<http://docs.aws.amazon.com/ses/latest/DeveloperGuide/send-using-sdk-java.html>

<https://github.com/aws/aws-sdk-java/blob/master/src/samples/AmazonSimpleEmailService/AmazonSESSample.java>

<https://github.com/puppetlabs/aws-sdk-for-java/blob/master/src/samples/AmazonSimpleEmailService/AWSJavaMailSample.java>

### Exemplo 1:

import java.io.IOException;

import com.amazonaws.services.simpleemail.\*;

import com.amazonaws.services.simpleemail.model.\*;

import com.amazonaws.regions.\*;

public class AmazonSESSample {

static final String FROM = "SENDER@EXAMPLE.COM"; // Replace with your "From" address. This address must be verified.

static final String TO = "RECIPIENT@EXAMPLE.COM"; // Replace with a "To" address. If your account is still in the

// sandbox, this address must be verified.

static final String BODY = "This email was sent through Amazon SES by using the AWS SDK for Java.";

static final String SUBJECT = "Amazon SES test (AWS SDK for Java)";

public static void main(String[] args) throws IOException {

// Construct an object to contain the recipient address.

Destination destination = new Destination().withToAddresses(new String[]{TO});

// Create the subject and body of the message.

Content subject = new Content().withData(SUBJECT);

Content textBody = new Content().withData(BODY);

Body body = new Body().withText(textBody);

// Create a message with the specified subject and body.

Message message = new Message().withSubject(subject).withBody(body);

// Assemble the email.

SendEmailRequest request = new SendEmailRequest().withSource(FROM).withDestination(destination).withMessage(message);

try

{

System.out.println("Attempting to send an email through Amazon SES by using the AWS SDK for Java...");

// Instantiate an Amazon SES client, which will make the service call. The service call requires your AWS credentials.

// Because we're not providing an argument when instantiating the client, the SDK will attempt to find your AWS credentials

// using the default credential provider chain. The first place the chain looks for the credentials is in environment variables

// AWS\_ACCESS\_KEY\_ID and AWS\_SECRET\_KEY.

// For more information, see http://docs.aws.amazon.com/sdk-for-java/v1/developer-guide/credentials.html

AmazonSimpleEmailServiceClient client = new AmazonSimpleEmailServiceClient();

// Choose the AWS region of the Amazon SES endpoint you want to connect to. Note that your sandbox

// status, sending limits, and Amazon SES identity-related settings are specific to a given AWS

// region, so be sure to select an AWS region in which you set up Amazon SES. Here, we are using

// the US West (Oregon) region. Examples of other regions that Amazon SES supports are US\_EAST\_1

// and EU\_WEST\_1. For a complete list, see http://docs.aws.amazon.com/ses/latest/DeveloperGuide/regions.html

Region REGION = Region.getRegion(Regions.US\_WEST\_2);

client.setRegion(REGION);

// Send the email.

client.sendEmail(request);

System.out.println("Email sent!");

}

catch (Exception ex)

{

System.out.println("The email was not sent.");

System.out.println("Error message: " + ex.getMessage());

}

}

}

# Monitorando o Envio de E-mails

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Monitoring Method** | **Events You Can Monitor** | **How to Access the Data** | **Level of Detail** | **Granularity** |
| Amazon SES or CloudWatch console or API | Bounces, complaints, deliveries, sends, rejects | Amazon SES or CloudWatch console or API (deliveries are available through CloudWatch only) | Count only | Coarse (across entire AWS account) |
| Feedback notifications | Bounces, complaints, deliveries | Amazon SNS or email (delivery events are by Amazon SNS only) | Details on each event | Coarse (across entire AWS account) |
| Event publishing | Bounces, complaints, deliveries, sends, rejects | Amazon CloudWatch or Amazon Kinesis Firehose | Details on each event | Fine-grained (based on user-definable email characteristics) |

## Monitorando via Console AWS SES

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/monitor-using-console-api.html>

## Monitorando Usando Notificações (AWS SNS)

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/notifications.html>

## Monitorando Usando Publicação de Eventos (CloudWatch, Kinesis Firehose, Redshift)

<http://docs.aws.amazon.com/pt_br/ses/latest/DeveloperGuide/monitor-using-event-publishing.html>

# Configurando Outlook

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

# Configurando Jira

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

# Enviando E-mail via Java

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

# Integrando com outros E-Mail Servers

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