
Amazon Simple Email Service

API Reference

API Version 2010-12-01



Amazon Simple Email Service: API Reference

Copyright © 2015 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

The following are trademarks of Amazon Web Services, Inc.: Amazon, Amazon Web Services Design, AWS, Amazon CloudFront, AWS CloudTrail, AWS CodeDeploy, Amazon Cognito, Amazon DevPay, DynamoDB, ElastiCache, Amazon EC2, Amazon Elastic Compute Cloud, Amazon Glacier, Amazon Kinesis, Kindle, Kindle Fire, AWS Marketplace Design, Mechanical Turk, Amazon Redshift, Amazon Route 53, Amazon S3, Amazon VPC, and Amazon WorkDocs. In addition, Amazon.com graphics, logos, page headers, button icons, scripts, and service names are trademarks, or trade dress of Amazon in the U.S. and/or other countries. Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon.

All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

Table of Contents

Welcome	1
Actions	2
DeleteIdentity	3
Request Parameters	3
Errors	3
Examples	3
DeleteIdentityPolicy	5
Request Parameters	5
Errors	5
Examples	5
DeleteVerifiedEmailAddress	7
Request Parameters	7
Errors	7
Examples	7
GetIdentityDkimAttributes	9
Request Parameters	9
Response Elements	9
Errors	9
Examples	9
GetIdentityNotificationAttributes	11
Request Parameters	11
Response Elements	11
Errors	11
Examples	11
GetIdentityPolicies	13
Request Parameters	13
Response Elements	13
Errors	13
Examples	14
GetIdentityVerificationAttributes	15
Request Parameters	15
Response Elements	15
Errors	15
Examples	15
GetSendQuota	17
Response Elements	17
Errors	17
Examples	17
GetSendStatistics	19
Response Elements	19
Errors	19
Examples	19
ListIdentities	21
Request Parameters	21
Response Elements	21
Errors	21
Examples	22
ListIdentityPolicies	23
Request Parameters	23
Response Elements	23
Errors	23
Examples	24
ListVerifiedEmailAddresses	25
Response Elements	25
Errors	25

Examples	25
PutIdentityPolicy	27
Request Parameters	27
Errors	27
Examples	28
SendEmail	29
Request Parameters	29
Response Elements	30
Errors	31
Examples	31
SendRawEmail	32
Request Parameters	32
Response Elements	34
Errors	34
Examples	35
SetIdentityDkimEnabled	36
Request Parameters	36
Errors	36
Examples	36
SetIdentityFeedbackForwardingEnabled	38
Request Parameters	38
Errors	38
Examples	38
SetIdentityNotificationTopic	40
Request Parameters	40
Errors	40
Examples	40
VerifyDomainDkim	42
Request Parameters	42
Response Elements	42
Errors	42
Examples	43
VerifyDomainIdentity	44
Request Parameters	44
Response Elements	44
Errors	44
Examples	44
VerifyEmailAddress	46
Request Parameters	46
Errors	46
Examples	46
VerifyEmailIdentity	48
Request Parameters	48
Errors	48
Examples	48
Data Types	50
Body	50
Description	50
Contents	50
Content	51
Description	51
Contents	51
Destination	51
Description	51
Contents	51
IdentityDkimAttributes	52
Description	52
Contents	52

IdentityNotificationAttributes	53
Description	53
Contents	53
IdentityVerificationAttributes	53
Description	53
Contents	53
Message	54
Description	54
Contents	54
RawMessage	54
Description	54
Contents	54
SendDataPoint	55
Description	55
Contents	55
Common Parameters	56
.....	56
Common Errors	58
.....	58

Welcome

This is the API Reference for Amazon Simple Email Service (Amazon SES). This documentation is intended to be used in conjunction with the [Amazon SES Developer Guide](#).

Note

For a list of Amazon SES endpoints to use in service requests, see [Regions and Amazon SES](#) in the Amazon SES Developer Guide.

This document was last updated on September 3, 2015.

Actions

The following actions are supported:

- [DeleteIdentity](#) (p. 3)
- [DeleteIdentityPolicy](#) (p. 5)
- [DeleteVerifiedEmailAddress](#) (p. 7)
- [GetIdentityDkimAttributes](#) (p. 9)
- [GetIdentityNotificationAttributes](#) (p. 11)
- [GetIdentityPolicies](#) (p. 13)
- [GetIdentityVerificationAttributes](#) (p. 15)
- [GetSendQuota](#) (p. 17)
- [GetSendStatistics](#) (p. 19)
- [ListIdentities](#) (p. 21)
- [ListIdentityPolicies](#) (p. 23)
- [ListVerifiedEmailAddresses](#) (p. 25)
- [PutIdentityPolicy](#) (p. 27)
- [SendEmail](#) (p. 29)
- [SendRawEmail](#) (p. 32)
- [SetIdentityDkimEnabled](#) (p. 36)
- [SetIdentityFeedbackForwardingEnabled](#) (p. 38)
- [SetIdentityNotificationTopic](#) (p. 40)
- [VerifyDomainDkim](#) (p. 42)
- [VerifyDomainIdentity](#) (p. 44)
- [VerifyEmailAddress](#) (p. 46)
- [VerifyEmailIdentity](#) (p. 48)

DeleteIdentity

Deletes the specified identity (email address or domain) from the list of verified identities.

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identity

The identity to be removed from the list of identities for the AWS Account.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Sat, 12 May 2012 05:25:58 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=w943p13zIvtszwzZxypi+LsgjzquvhYhnG42S6b2WLo=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 135

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=DeleteIdentity
&Identity=domain.com
&Timestamp=2012-05-12T05%3A25%3A58.000Z
&Version=2010-12-01
```

Sample Response

```
<DeleteIdentityResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <DeleteIdentityResult/>
  <ResponseMetadata>
```


Amazon Simple Email Service API Reference Examples

```
<RequestId>d96bd874-9bf2-11e1-8ee7-c98a0037a2b6</RequestId>  
</ResponseMetadata>  
</DeleteIdentityResponse>
```

DeleteIdentityPolicy

Deletes the specified sending authorization policy for the given identity (email address or domain). This API returns successfully even if a policy with the specified name does not exist.

Note

This API is for the identity owner only. If you have not verified the identity, this API will return an error.

Sending authorization is a feature that enables an identity owner to authorize other senders to use its identities. For information about using sending authorization, see the [Amazon SES Developer Guide](#).

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identity

The identity that is associated with the policy that you want to delete. You can specify the identity by using its name or by using its Amazon Resource Name (ARN). Examples: `user@example.com`, `example.com`, `arn:aws:ses:us-east-1:123456789012:identity/example.com`.

To successfully call this API, you must own the identity.

Type: String

Required: Yes

PolicyName

The name of the policy to be deleted.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\^_\/\?*\s]+`

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 15 Jun 2012 20:51:42 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
```

```
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,  
Signature=ee9aH6tUW5wBPoh01Tz3w4H+z4avrMvmRYbfORC7OI=,  
Algorithm=HmacSHA256, SignedHeaders=Date;Host  
Content-Length: 173
```

```
AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE  
&Action=DeleteIdentityPolicy  
&Identity=user%40example.com  
&PolicyName=TestPolicy  
&Timestamp=2012-06-15T20%3A51%3A42.000Z  
&Version=2010-12-01
```

Sample Response

```
<DeleteIdentityPolicyResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">  
  
  <DeleteIdentityPolicyResult/>  
  <ResponseMetadata>  
    <RequestId>e038e509-b72a-11e1-901f-1fbd90e8104f</RequestId>  
  </ResponseMetadata>  
</DeleteIdentityPolicyResponse>
```

DeleteVerifiedEmailAddress

Deletes the specified email address from the list of verified addresses.

Important

The DeleteVerifiedEmailAddress action is deprecated as of the May 15, 2012 release of Domain Verification. The DeleteIdentity action is now preferred.

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

EmailAddress

An email address to be removed from the list of verified addresses.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Thu, 18 Aug 2011 22:20:50 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=Rxzyd6cQe/YjkV4yoQAZ243OzzNjFgrsclizTKwRIRc=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 142

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=DeleteVerifiedEmailAddress
&EmailAddress=user%40example.com
&Timestamp=2011-08-18T22%3A20%3A50.000Z
```

Sample Response

Amazon Simple Email Service API Reference Examples

```
<DeleteVerifiedEmailAddressResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <ResponseMetadata>
    <RequestId>5634af08-c865-11e0-8986-3f99a698f914</RequestId>
  </ResponseMetadata>
</DeleteVerifiedEmailAddressResponse>
```

GetIdentityDkimAttributes

Returns the current status of Easy DKIM signing for an entity. For domain name identities, this action also returns the DKIM tokens that are required for Easy DKIM signing, and whether Amazon SES has successfully verified that these tokens have been published.

This action takes a list of identities as input and returns the following information for each:

- Whether Easy DKIM signing is enabled or disabled.
- A set of DKIM tokens that represent the identity. If the identity is an email address, the tokens represent the domain of that address.
- Whether Amazon SES has successfully verified the DKIM tokens published in the domain's DNS. This information is only returned for domain name identities, not for email addresses.

This action is throttled at one request per second and can only get DKIM attributes for up to 100 identities at a time.

For more information about creating DNS records using DKIM tokens, go to the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identities.member.N

A list of one or more verified identities - email addresses, domains, or both.

Type: String list

Required: Yes

Response Elements

The following element is returned.

DkimAttributes

The DKIM attributes for an email address or a domain.

Type: String to [IdentityDkimAttributes \(p. 52\)](#) map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

Amazon Simple Email Service API Reference Examples

```
POST / HTTP/1.1
Date: Fri, 29 Jun 2012 22:41:32 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=MJdhrIAt3c4BRC6jdzueMM+AJLEx17bnIHjZwlSenyk=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 165

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=GetIdentityDkimAttributes
&Identities.member.1=example.com
&Timestamp=2012-06-29T22%3A41%3A32.000Z
&Version=2010-12-01
```

Sample Response

```
<GetIdentityDkimAttributesResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <GetIdentityDkimAttributesResult>
    <DkimAttributes>
      <entry>
        <key>amazon.com</key>
        <value>
          <DkimEnabled>true</DkimEnabled>
          <DkimVerificationStatus>Success</DkimVerificationStatus>
          <DkimTokens>
            <member>vvjuipp74whm76gqoni7qmwvn4w4qusjiainivf6f</member>
            <member>3frqe7jn4obpuxjpwpolz6ipb3k5nvt2nhjpk2oy</member>
            <member>wrqplteh7oodxnad7hsl4mixg2uavzneaazxv5sxi2</member>
          </DkimTokens>
        </value>
      </entry>
    </DkimAttributes>
  </GetIdentityDkimAttributesResult>
  <ResponseMetadata>
    <RequestId>bb5a105d-c468-11e1-82eb-dff885ccc06a</RequestId>
  </ResponseMetadata>
</GetIdentityDkimAttributesResponse>
```

GetIdentityNotificationAttributes

Given a list of verified identities (email addresses and/or domains), returns a structure describing identity notification attributes.

This action is throttled at one request per second and can only get notification attributes for up to 100 identities at a time.

For more information about using notifications with Amazon SES, see the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identities.member.N

A list of one or more identities. You can specify an identity by using its name or by using its Amazon Resource Name (ARN). Examples: `user@example.com`, `example.com`, `arn:aws:ses:us-east-1:123456789012:identity/example.com`.

Type: String list

Required: Yes

Response Elements

The following element is returned.

NotificationAttributes

A map of Identity to IdentityNotificationAttributes.

Type: String to [IdentityNotificationAttributes \(p. 53\)](#) map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 15 Jun 2012 20:51:42 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=ee9aH6tUW5wBPoh01Tz3w4H+z4avrMmvmRYbfORC7OI=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 173
```



```
AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=GetIdentityNotificationAttributes
&Identities.member.1=user%40example.com
&Timestamp=2012-06-15T20%3A51%3A42.000Z
&Version=2010-12-01
```

Sample Response

```
<GetIdentityNotificationAttributesResponse xmlns="http://ses.amazon
aws.com/doc/2010-12-01/">
  <GetIdentityNotificationAttributesResult>
    <NotificationAttributes>
      <entry>
        <key>user@example.com</key>
        <value>
          <ForwardingEnabled>true</ForwardingEnabled>
          <BounceTopic>arn:aws:sns:us-east-1:123456789012:example</BounceTopic>

          <ComplaintTopic>arn:aws:sns:us-east-1:123456789012:example</Complaint
Topic>
          <DeliveryTopic>arn:aws:sns:us-east-1:123456789012:example</DeliveryTop
ic>
        </value>
      </entry>
    </NotificationAttributes>
  </GetIdentityNotificationAttributesResult>
  <ResponseMetadata>
    <RequestId>e038e509-b72a-11e1-901f-1fbd90e8104f</RequestId>
  </ResponseMetadata>
</GetIdentityNotificationAttributesResponse>
```

GetIdentityPolicies

Returns the requested sending authorization policies for the given identity (email address or domain). The policies are returned as a map of policy names to policy contents. You can retrieve a maximum of 20 policies at a time.

Note

This API is for the identity owner only. If you have not verified the identity, this API will return an error.

Sending authorization is a feature that enables an identity owner to authorize other senders to use its identities. For information about using sending authorization, see the [Amazon SES Developer Guide](#).

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identity

The identity for which the policies will be retrieved. You can specify an identity by using its name or by using its Amazon Resource Name (ARN). Examples: `user@example.com`, `example.com`, `arn:aws:ses:us-east-1:123456789012:identity/example.com`.

To successfully call this API, you must own the identity.

Type: String

Required: Yes

PolicyNames.member.N

A list of the names of policies to be retrieved. You can retrieve a maximum of 20 policies at a time. If you do not know the names of the policies that are attached to the identity, you can use `ListIdentityPolicies`.

Type: String list

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[^\s\\\/\?*\s]+`

Required: Yes

Response Elements

The following element is returned.

Policies

A map of policy names to policies.

Type: String to String map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 15 Jun 2012 20:51:42 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=ee9aH6tUW5wBPoh01Tz3w4H+z4avrMmvmRYbfORC7OI=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 173

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=GetIdentityPolicies
&Identity=user%40example.com
&PolicyNames.member.1=TestPolicy1
&PolicyNames.member.1=TestPolicy2
&Timestamp=2012-06-15T20%3A51%3A42.000Z
&Version=2010-12-01
```

Sample Response

```
<GetIdentityPoliciesResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <GetIdentityPoliciesResult>
    <Policies>
      <entry>
        <key>TestPolicy1</key>
        <value>%7B%7D</value>
      </entry>
      <entry>
        <key>TestPolicy2</key>
        <value>%7B%7D</value>
      </entry>
    </Policies>
  </GetIdentityPoliciesResult>
  <ResponseMetadata>
    <RequestId>e038e509-b72a-11e1-901f-1fbd90e8104f</RequestId>
  </ResponseMetadata>
</GetIdentityPoliciesResponse>
```

GetIdentityVerificationAttributes

Given a list of identities (email addresses and/or domains), returns the verification status and (for domain identities) the verification token for each identity.

This action is throttled at one request per second and can only get verification attributes for up to 100 identities at a time.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identities.member.N

A list of identities.

Type: String list

Required: Yes

Response Elements

The following element is returned.

VerificationAttributes

A map of Identities to IdentityVerificationAttributes objects.

Type: String to [IdentityVerificationAttributes \(p. 53\)](#) map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Sat, 12 May 2012 05:27:54 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=3+KQ4VHx991T7Kb41HmFcZJxuHz4/6mf2H5Fxy+tuLc=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 203
```

```
AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=GetIdentityVerificationAttributes
&Identities.member.1=user%40domain.com
&Identities.member.2=domain.com
```

```
&Timestamp=2012-05-12T05%3A27%3A54.000Z  
&Version=2010-12-01
```

Sample Response

```
<GetIdentityVerificationAttributesResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">  
  <GetIdentityVerificationAttributesResult>  
    <VerificationAttributes>  
      <entry>  
        <key>domain.com</key>  
        <value>  
          <VerificationStatus>Pending</VerificationStatus>  
          <VerificationToken>QTKknzFg2J4ygywa+XvHAXUllhyHoY0gVfZdfjIedHZ0=</VerificationToken>  
        </value>  
      </entry>  
      <entry>  
        <key>user@domain.com</key>  
        <value>  
          <VerificationStatus>Pending</VerificationStatus>  
        </value>  
      </entry>  
    </VerificationAttributes>  
  </GetIdentityVerificationAttributesResult>  
  <ResponseMetadata>  
    <RequestId>1d0c29f1-9bf3-11e1-8ee7-c98a0037a2b6</RequestId>  
  </ResponseMetadata>  
</GetIdentityVerificationAttributesResponse>
```

GetSendQuota

Returns the user's current sending limits.

This action is throttled at one request per second.

Response Elements

The following elements are returned.

Max24HourSend

The maximum number of emails the user is allowed to send in a 24-hour interval. A value of -1 signifies an unlimited quota.

Type: Double

MaxSendRate

The maximum number of emails that Amazon SES can accept from the user's account per second.

Note

The rate at which Amazon SES accepts the user's messages might be less than the maximum send rate.

Type: Double

SentLast24Hours

The number of emails sent during the previous 24 hours.

Type: Double

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Thu, 18 Aug 2011 22:22:36 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=W1YdiNOtf0jN3t7Lv63qhz7UZc3RrcmQpkGbopvnj/Y=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 94

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=GetSendQuota
&Timestamp=2011-08-18T22%3A22%3A36.000Z
```

Sample Response

```
<GetSendQuotaResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <GetSendQuotaResult>
    <SentLast24Hours>127.0</SentLast24Hours>
    <Max24HourSend>200.0</Max24HourSend>
    <MaxSendRate>1.0</MaxSendRate>
  </GetSendQuotaResult>
  <ResponseMetadata>
    <RequestId>273021c6-c866-11e0-b926-699e21c3af9e</RequestId>
  </ResponseMetadata>
</GetSendQuotaResponse>
```

GetSendStatistics

Returns the user's sending statistics. The result is a list of data points, representing the last two weeks of sending activity.

Each data point in the list contains statistics for a 15-minute interval.

This action is throttled at one request per second.

Response Elements

The following element is returned.

SendDataPoints

A list of data points, each of which represents 15 minutes of activity.

Type: [SendDataPoint](#) (p. 55) list

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 58).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Thu, 18 Aug 2011 22:23:01 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=kwuk4eraA9HSfHySflgDKR6xK0JXjATIE7Uu5/FB4x4=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 99

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=GetSendStatistics
&Timestamp=2011-08-18T22%3A23%3A01.000Z
```

Sample Response

```
<GetSendStatisticsResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <GetSendStatisticsResult>
    <SendDataPoints>
      <member>
```


Amazon Simple Email Service API Reference Examples

```
<DeliveryAttempts>8</DeliveryAttempts>
<Timestamp>2011-08-03T19:23:00Z</Timestamp>
<Rejects>0</Rejects>
<Bounces>0</Bounces>
<Complaints>0</Complaints>
</member>
<member>
  <DeliveryAttempts>7</DeliveryAttempts>
  <Timestamp>2011-08-03T06:53:00Z</Timestamp>
  <Rejects>0</Rejects>
  <Bounces>0</Bounces>
  <Complaints>0</Complaints>
</member>
.
.
.
.
</GetSendStatisticsResult>
<ResponseMetadata>
  <RequestId>c2b66ee5-c866-11e0-b17f-cddb0ab334db</RequestId>
</ResponseMetadata>
</GetSendStatisticsResponse>
```

ListIdentities

Returns a list containing all of the identities (email addresses and domains) for a specific AWS Account, regardless of verification status.

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

IdentityType

The type of the identities to list. Possible values are "EmailAddress" and "Domain". If this parameter is omitted, then all identities will be listed.

Type: String

Valid Values: `EmailAddress` | `Domain`

Required: No

MaxItems

The maximum number of identities per page. Possible values are 1-1000 inclusive.

Type: Integer

Required: No

NextToken

The token to use for pagination.

Type: String

Required: No

Response Elements

The following elements are returned.

Identities

A list of identities.

Type: String list

NextToken

The token used for pagination.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Sat, 12 May 2012 05:18:45 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=OruiFNV26DCZicLDaQmULHGbjbU8Mbc/c5aIo/MMIuM=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 115

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=ListIdentities
&Timestamp=2012-05-12T05%3A18%3A45.000Z&
Version=2010-12-01
```

Sample Response

```
<ListIdentitiesResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <ListIdentitiesResult>
    <Identities>
      <member>example.com</member>
      <member>user@example.com</member>
    </Identities>
  </ListIdentitiesResult>
  <ResponseMetadata>
    <RequestId>cacecf23-9bf1-11e1-9279-0100e8cf109a</RequestId>
  </ResponseMetadata>
</ListIdentitiesResponse>
```

ListIdentityPolicies

Returns a list of sending authorization policies that are attached to the given identity (email address or domain). This API returns only a list. If you want the actual policy content, you can use `GetIdentityPolicies`.

Note

This API is for the identity owner only. If you have not verified the identity, this API will return an error.

Sending authorization is a feature that enables an identity owner to authorize other senders to use its identities. For information about using sending authorization, see the [Amazon SES Developer Guide](#).

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identity

The identity that is associated with the policy for which the policies will be listed. You can specify an identity by using its name or by using its Amazon Resource Name (ARN). Examples:
`user@example.com`, `example.com`,
`arn:aws:ses:us-east-1:123456789012:identity/example.com`.

To successfully call this API, you must own the identity.

Type: String

Required: Yes

Response Elements

The following element is returned.

PolicyNames

A list of names of policies that apply to the specified identity.

Type: String list

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[^\s\/\?*\s]+`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 15 Jun 2012 20:51:42 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=ee9aH6tUW5wBPoh01Tz3w4H+z4avrMmvmRYbfORC7OI=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 173

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=ListIdentityPolicies
&Identity=user%40example.com
&Timestamp=2012-06-15T20%3A51%3A42.000Z
&Version=2010-12-01
```

Sample Response

```
<ListIdentityPoliciesResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">

  <ListIdentityPoliciesResult>
    <PolicyNames>
      <member>TestPolicy1</member>
      <member>TestPolicy2</member>
      <member>TestPolicy3</member>
    </PolicyNames>
  </ListIdentityPoliciesResult>
  <ResponseMetadata>
    <RequestId>e038e509-b72a-11e1-901f-1fbd90e8104f</RequestId>
  </ResponseMetadata>
</ListIdentityPoliciesResponse>
```

ListVerifiedEmailAddresses

Returns a list containing all of the email addresses that have been verified.

Important

The ListVerifiedEmailAddresses action is deprecated as of the May 15, 2012 release of Domain Verification. The ListIdentities action is now preferred.

This action is throttled at one request per second.

Response Elements

The following element is returned.

VerifiedEmailAddresses

A list of email addresses that have been verified.

Type: String list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Thu, 18 Aug 2011 22:05:09 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=II0+vvDKGMv71vToBwzR6vZlhxe/VUE8tWEFUNTUqgE=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 108

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=ListVerifiedEmailAddresses
&Timestamp=2011-08-18T22%3A05%3A09.000Z%
```

Sample Response

```
<ListVerifiedEmailAddressesResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <ListVerifiedEmailAddressesResult>
```

Amazon Simple Email Service API Reference Examples

```
<VerifiedEmailAddresses>
  <member>example@amazon.com</member>
</VerifiedEmailAddresses>
</ListVerifiedEmailAddressesResult>
<ResponseMetadata>
  <RequestId>3dd50e97-c865-11e0-b235-099eb63d928d</RequestId>
</ResponseMetadata>
</ListVerifiedEmailAddressesResponse>
```

PutIdentityPolicy

Adds or updates a sending authorization policy for the specified identity (email address or domain).

Note

This API is for the identity owner only. If you have not verified the identity, this API will return an error.

Sending authorization is a feature that enables an identity owner to authorize other senders to use its identities. For information about using sending authorization, see the [Amazon SES Developer Guide](#).

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identity

The identity to which the policy will apply. You can specify an identity by using its name or by using its Amazon Resource Name (ARN). Examples: `user@example.com`, `example.com`, `arn:aws:ses:us-east-1:123456789012:identity/example.com`.

To successfully call this API, you must own the identity.

Type: String

Required: Yes

Policy

The text of the policy in JSON format. The policy cannot exceed 4 KB.

For information about the syntax of sending authorization policies, see the [Amazon SES Developer Guide](#).

Type: String

Length constraints: Minimum length of 1.

Required: Yes

PolicyName

The name of the policy.

The policy name cannot exceed 64 characters and can only include alphanumeric characters, dashes, and underscores.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[^\s\/\?*\s]+`

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

InvalidPolicy

Indicates that the provided policy is invalid. Check the error stack for more information about what caused the error.

HTTP Status Code: 400

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 15 Jun 2012 20:51:42 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=ee9aH6tUW5wBPoh01Tz3w4H+z4avrMmvmRYbfORC7OI=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 173

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=PutIdentityPolicy
&Identity=user%40example.com
&PolicyName=TestPolicy
&Policy=%7B%7D
&Timestamp=2012-06-15T20%3A51%3A42.000Z
&Version=2010-12-01
```

Sample Response

```
<PutIdentityPolicyResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <PutIdentityPolicyResult/>
  <ResponseMetadata>
    <RequestId>e038e509-b72a-11e1-901f-1fbd90e8104f</RequestId>
  </ResponseMetadata>
</PutIdentityPolicyResponse>
```

SendEmail

Composes an email message based on input data, and then immediately queues the message for sending.

There are several important points to know about `SendEmail`:

- You can only send email from verified email addresses and domains; otherwise, you will get an "Email address not verified" error. If your account is still in the Amazon SES sandbox, you must also verify every recipient email address except for the recipients provided by the Amazon SES mailbox simulator. For more information, go to the [Amazon SES Developer Guide](#).
- The total size of the message cannot exceed 10 MB. This includes any attachments that are part of the message.
- Amazon SES has a limit on the total number of recipients per message. The combined number of To:, CC: and BCC: email addresses cannot exceed 50. If you need to send an email message to a larger audience, you can divide your recipient list into groups of 50 or fewer, and then call Amazon SES repeatedly to send the message to each group.
- For every message that you send, the total number of recipients (To:, CC: and BCC:) is counted against your sending quota - the maximum number of emails you can send in a 24-hour period. For information about your sending quota, go to the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Destination

The destination for this email, composed of To:, CC:, and BCC: fields.

Type: [Destination \(p. 51\)](#)

Required: Yes

Message

The message to be sent.

Type: [Message \(p. 54\)](#)

Required: Yes

ReplyToAddresses.member.N

The reply-to email address(es) for the message. If the recipient replies to the message, each reply-to address will receive the reply.

Type: String list

Required: No

ReturnPath

The email address to which bounces and complaints are to be forwarded when feedback forwarding is enabled. If the message cannot be delivered to the recipient, then an error message will be returned from the recipient's ISP; this message will then be forwarded to the email address specified by the `ReturnPath` parameter. The `ReturnPath` parameter is never overwritten. This email address must be either individually verified with Amazon SES, or from a domain that has been verified with Amazon SES.

Type: String

Required: No

ReturnPathArn

This parameter is used only for sending authorization. It is the ARN of the identity that is associated with the sending authorization policy that permits you to use the email address specified in the `ReturnPath` parameter.

For example, if the owner of `example.com` (which has ARN `arn:aws:ses:us-east-1:123456789012:identity/example.com`) attaches a policy to it that authorizes you to use `feedback@example.com`, then you would specify the `ReturnPathArn` to be `arn:aws:ses:us-east-1:123456789012:identity/example.com`, and the `ReturnPath` to be `feedback@example.com`.

For more information about sending authorization, see the [Amazon SES Developer Guide](#).

Type: String

Required: No

Source

The email address that is sending the email. This email address must be either individually verified with Amazon SES, or from a domain that has been verified with Amazon SES. For information about verifying identities, see the [Amazon SES Developer Guide](#).

If you are sending on behalf of another user and have been permitted to do so by a sending authorization policy, then you must also specify the `SourceArn` parameter. For more information about sending authorization, see the [Amazon SES Developer Guide](#).

In all cases, the email address must be 7-bit ASCII. If the text must contain any other characters, then you must use MIME encoded-word syntax (RFC 2047) instead of a literal string. MIME encoded-word syntax uses the following form: `=?charset?encoding?encoded-text?='`. For more information, see [RFC 2047](#).

Type: String

Required: Yes

SourceArn

This parameter is used only for sending authorization. It is the ARN of the identity that is associated with the sending authorization policy that permits you to send for the email address specified in the `Source` parameter.

For example, if the owner of `example.com` (which has ARN `arn:aws:ses:us-east-1:123456789012:identity/example.com`) attaches a policy to it that authorizes you to send from `user@example.com`, then you would specify the `SourceArn` to be `arn:aws:ses:us-east-1:123456789012:identity/example.com`, and the `Source` to be `user@example.com`.

For more information about sending authorization, see the [Amazon SES Developer Guide](#).

Type: String

Required: No

Response Elements

The following element is returned.

MessageId

The unique message identifier returned from the `SendEmail` action.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

MessageRejected

Indicates that the action failed, and the message could not be sent. Check the error stack for more information about what caused the error.

HTTP Status Code: 400

Examples

Sample Request

```
POST / HTTP/1.1
Date: Thu, 18 Aug 2011 22:25:27 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=yXx/wM1bESLuDERJ6HpZg9JK8Gjau7EUE4FWEfmhodo=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 230

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=SendEmail
&Destination.ToAddresses.member.1=allan%40example.com
&Message.Body.Text.Data=body
&Message.Subject.Data=Example
&Source=user%40example.com
&SourceArn=arn%3Aaws%3Aeses%3Aus-east-1%3A999999999999%3Aidentity/example.com
&Timestamp=2011-08-18T22%3A25%3A27.000Z
```

Sample Response

```
<SendEmailResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <SendEmailResult>
    <MessageId>00000131d51d2292-159ad6eb-077c-46e6-ad09-ae7c05925ed4-
000000</MessageId>
  </SendEmailResult>
  <ResponseMetadata>
    <RequestId>d5964849-c866-11e0-9beb-01a62d68c57f</RequestId>
  </ResponseMetadata>
</SendEmailResponse>
```

SendRawEmail

Sends an email message, with header and content specified by the client. The `SendRawEmail` action is useful for sending multipart MIME emails. The raw text of the message must comply with Internet email standards; otherwise, the message cannot be sent.

There are several important points to know about `SendRawEmail`:

- You can only send email from verified email addresses and domains; otherwise, you will get an "Email address not verified" error. If your account is still in the Amazon SES sandbox, you must also verify every recipient email address except for the recipients provided by the Amazon SES mailbox simulator. For more information, go to the [Amazon SES Developer Guide](#).
- The total size of the message cannot exceed 10 MB. This includes any attachments that are part of the message.
- Amazon SES has a limit on the total number of recipients per message. The combined number of To:, CC: and BCC: email addresses cannot exceed 50. If you need to send an email message to a larger audience, you can divide your recipient list into groups of 50 or fewer, and then call Amazon SES repeatedly to send the message to each group.
- The To:, CC:, and BCC: headers in the raw message can contain a group list. Note that each recipient in a group list counts towards the 50-recipient limit.
- For every message that you send, the total number of recipients (To:, CC: and BCC:) is counted against your sending quota - the maximum number of emails you can send in a 24-hour period. For information about your sending quota, go to the [Amazon SES Developer Guide](#).
- If you are using sending authorization to send on behalf of another user, `SendRawEmail` enables you to specify the cross-account identity for the email's "Source," "From," and "Return-Path" parameters in one of two ways: you can pass optional parameters `SourceArn`, `FromArn`, and/or `ReturnPathArn` to the API, or you can include the following X-headers in the header of your raw email:
 - X-SES-SOURCE-ARN
 - X-SES-FROM-ARN
 - X-SES-RETURN-PATH-ARN

Important

Do not include these X-headers in the DKIM signature, because they are removed by Amazon SES before sending the email.

For the most common sending authorization use case, we recommend that you specify the `SourceIdentityArn` and do not specify either the `FromIdentityArn` or `ReturnPathIdentityArn`. (The same note applies to the corresponding X-headers.) If you only specify the `SourceIdentityArn`, Amazon SES will simply set the "From" address and the "Return Path" address to the identity specified in `SourceIdentityArn`. For more information about sending authorization, see the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Destinations.member.N

A list of destinations for the message, consisting of To:, CC:, and BCC: addresses.

Type: String list

Required: No

FromArn

This parameter is used only for sending authorization. It is the ARN of the identity that is associated with the sending authorization policy that permits you to specify a particular "From" address in the header of the raw email.

Instead of using this parameter, you can use the X-header `X-SES-FROM-ARN` in the raw message of the email. If you use both the `FromArn` parameter and the corresponding X-header, Amazon SES uses the value of the `FromArn` parameter.

Note

For information about when to use this parameter, see the description of `SendRawEmail` in this guide, or see the [Amazon SES Developer Guide](#).

Type: String

Required: No

RawMessage

The raw text of the message. The client is responsible for ensuring the following:

- Message must contain a header and a body, separated by a blank line.
- All required header fields must be present.
- Each part of a multipart MIME message must be formatted properly.
- MIME content types must be among those supported by Amazon SES. For more information, go to the [Amazon SES Developer Guide](#).
- Content must be base64-encoded, if MIME requires it.

Type: [RawMessage](#) (p. 54)

Required: Yes

ReturnPathArn

This parameter is used only for sending authorization. It is the ARN of the identity that is associated with the sending authorization policy that permits you to use the email address specified in the `ReturnPath` parameter.

For example, if the owner of `example.com` (which has ARN `arn:aws:ses:us-east-1:123456789012:identity/example.com`) attaches a policy to it that authorizes you to use `feedback@example.com`, then you would specify the `ReturnPathArn` to be `arn:aws:ses:us-east-1:123456789012:identity/example.com`, and the `ReturnPath` to be `feedback@example.com`.

Instead of using this parameter, you can use the X-header `X-SES-RETURN-PATH-ARN` in the raw message of the email. If you use both the `ReturnPathArn` parameter and the corresponding X-header, Amazon SES uses the value of the `ReturnPathArn` parameter.

Note

For information about when to use this parameter, see the description of `SendRawEmail` in this guide, or see the [Amazon SES Developer Guide](#).

Type: String

Required: No

Source

The identity's email address. If you do not provide a value for this parameter, you must specify a "From" address in the raw text of the message. (You can also specify both.)

By default, the string must be 7-bit ASCII. If the text must contain any other characters, then you must use MIME encoded-word syntax (RFC 2047) instead of a literal string. MIME encoded-word

syntax uses the following form: `=?charset?encoding?encoded-text?=. For more information, see RFC 2047.`

Note

If you specify the `Source` parameter and have feedback forwarding enabled, then bounces and complaints will be sent to this email address. This takes precedence over any `Return-Path` header that you might include in the raw text of the message.

Type: String

Required: No

SourceArn

This parameter is used only for sending authorization. It is the ARN of the identity that is associated with the sending authorization policy that permits you to send for the email address specified in the `Source` parameter.

For example, if the owner of `example.com` (which has ARN `arn:aws:ses:us-east-1:123456789012:identity/example.com`) attaches a policy to it that authorizes you to send from `user@example.com`, then you would specify the `SourceArn` to be `arn:aws:ses:us-east-1:123456789012:identity/example.com`, and the `Source` to be `user@example.com`.

Instead of using this parameter, you can use the X-header `X-SES-SOURCE-ARN` in the raw message of the email. If you use both the `SourceArn` parameter and the corresponding X-header, Amazon SES uses the value of the `SourceArn` parameter.

Note

For information about when to use this parameter, see the description of `SendRawEmail` in this guide, or see the [Amazon SES Developer Guide](#).

Type: String

Required: No

Response Elements

The following element is returned.

MessageId

The unique message identifier returned from the `SendRawEmail` action.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

MessageRejected

Indicates that the action failed, and the message could not be sent. Check the error stack for more information about what caused the error.

HTTP Status Code: 400

Examples

Sample Request

```
POST / HTTP/1.1
Date: Wed, 17 Aug 2011 00:21:38 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=uN0lHifl4tmMBzwnkHzaWBLrBFvJAvyXCsfSYAvwLuc=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 230

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=SendRawEmail
&RawMessage.Data=U3ViamVjdDogRXhhbXBsZQpGcm9tOiBleGFtcGxlQGFTYXpvi5jb20KVG8
6IGV4YWlwbGVAYWlh%0Aem9uLmNvbQpDb250ZW50LVR5cGU6IGl1bHRpcGFydc9hbHRlcm5hdG12
ZTsgYm91bmRhcnk9MDAx%0ANmU2OGY5ZDkyOWNiMDk2MDRyWE4MZA0MgoKLS0wMDE2ZTY4ZjlkO
TI5Y2IwOTYwNGFhYTgzMDQy%0ACkNvbnRlbnQtVHlwZTogdGV4dC9wbGFpbjsgY2hhcnNldDlJU0
8tODg1OS0xCgpCb2R5LgoKLS0w%0AMDE2ZTY4ZjlkOTI5Y2IwOTYwNGFhYTgzMDQyCkNvbnRlbnQ
tVHlwZTogdGV4dC9odG1sOyBjaGFy%0Ac2V0PulTTy04ODU5LTEKCKJvZHkuPGJyPgoKLS0wMDE2
ZTY4ZjlkOTI5Y2IwOTYwNGFhYTgzMDQy%0ALS0%3D%0A
&FromArn=arn%3Aaws%3Aases%3Aus-east-1%3A999999999999%3Aidentity/example@amazon.com
&Timestamp=2011-08-17T00%3A21%3A38.000Z
```

Sample Response

```
<SendRawEmailResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <SendRawEmailResult>
    <MessageId>00000131d51d6b36-1d4f9293-0aee-4503-b573-9ae4e70e9e38-
000000</MessageId>
  </SendRawEmailResult>
  <ResponseMetadata>
    <RequestId>e0abcdfa-c866-11e0-b6d0-273d09173b49</RequestId>
  </ResponseMetadata>
</SendRawEmailResponse>
```


SetIdentityDkimEnabled

Enables or disables Easy DKIM signing of email sent from an identity:

- If Easy DKIM signing is enabled for a domain name identity (e.g., `example.com`), then Amazon SES will DKIM-sign all email sent by addresses under that domain name (e.g., `user@example.com`).
- If Easy DKIM signing is enabled for an email address, then Amazon SES will DKIM-sign all email sent by that email address.

For email addresses (e.g., `user@example.com`), you can only enable Easy DKIM signing if the corresponding domain (e.g., `example.com`) has been set up for Easy DKIM using the AWS Console or the `VerifyDomainDkim` action.

This action is throttled at one request per second.

For more information about Easy DKIM signing, go to the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

DkimEnabled

Sets whether DKIM signing is enabled for an identity. Set to `true` to enable DKIM signing for this identity; `false` to disable it.

Type: Boolean

Required: Yes

Identity

The identity for which DKIM signing should be enabled or disabled.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 29 Jun 2012 22:42:08 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=u/hDNhYm87AV7LAPzouTBz6HJxUEuE5k96sLzYHjR24=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
```

```
Content-Length: 168
```

```
AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE  
&Action=SetIdentityDkimEnabled  
&DkimEnabled=true&Identity=user%40example.com  
&Timestamp=2012-06-29T22%3A42%3A08.000Z  
&Version=2010-12-01
```

Sample Response

```
<SetIdentityDkimEnabledResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">  
  <SetIdentityDkimEnabledResult/>  
  <ResponseMetadata>  
    <RequestId>7aa61362-c469-11e1-ae5-6bbb4608fbcc</RequestId>  
  </ResponseMetadata>  
</SetIdentityDkimEnabledResponse>
```

SetIdentityFeedbackForwardingEnabled

Given an identity (email address or domain), enables or disables whether Amazon SES forwards bounce and complaint notifications as email. Feedback forwarding can only be disabled when Amazon Simple Notification Service (Amazon SNS) topics are specified for both bounces and complaints.

Note

Feedback forwarding does not apply to delivery notifications. Delivery notifications are only available through Amazon SNS.

This action is throttled at one request per second.

For more information about using notifications with Amazon SES, see the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

ForwardingEnabled

Sets whether Amazon SES will forward bounce and complaint notifications as email. `true` specifies that Amazon SES will forward bounce and complaint notifications as email, in addition to any Amazon SNS topic publishing otherwise specified. `false` specifies that Amazon SES will publish bounce and complaint notifications only through Amazon SNS. This value can only be set to `false` when Amazon SNS topics are set for both `Bounce` and `Complaint` notification types.

Type: Boolean

Required: Yes

Identity

The identity for which to set bounce and complaint notification forwarding. Examples: `user@example.com`, `example.com`.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 15 Jun 2012 20:31:21 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
Signature=juNpmD6UJaN+r7gcLa2ZNZpO3AmF1ZfOkD6PgXgNhRA=,
Algorithm=HmacSHA256, SignedHeaders=Date;Host
```

```
Content-Length: 188

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=SetIdentityFeedbackForwardingEnabled
&ForwardingEnabled=true
&Identity=user%40example.com
&Timestamp=2012-06-15T20%3A31%3A21.000Z
&Version=2010-12-01
```

Sample Response

```
<SetIdentityFeedbackForwardingEnabledResponse xmlns="http://ses.amazon
aws.com/doc/2010-12-01/">
  <SetIdentityFeedbackForwardingEnabledResult/>
  <ResponseMetadata>
    <RequestId>299f4af4-b72a-11e1-901f-1fbd90e8104f</RequestId>
  </ResponseMetadata>
</SetIdentityFeedbackForwardingEnabledResponse>
```

SetIdentityNotificationTopic

Given an identity (email address or domain), sets the Amazon Simple Notification Service (Amazon SNS) topic to which Amazon SES will publish bounce, complaint, and/or delivery notifications for emails sent with that identity as the `Source`.

Note

Unless feedback forwarding is enabled, you must specify Amazon SNS topics for bounce and complaint notifications. For more information, see `SetIdentityFeedbackForwardingEnabled`.

This action is throttled at one request per second.

For more information about feedback notification, see the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Identity

The identity for which the Amazon SNS topic will be set. You can specify an identity by using its name or by using its Amazon Resource Name (ARN). Examples: `user@example.com`, `example.com`, `arn:aws:ses:us-east-1:123456789012:identity/example.com`.

Type: String

Required: Yes

NotificationType

The type of notifications that will be published to the specified Amazon SNS topic.

Type: String

Valid Values: `Bounce` | `Complaint` | `Delivery`

Required: Yes

SnsTopic

The Amazon Resource Name (ARN) of the Amazon SNS topic. If the parameter is omitted from the request or a null value is passed, `SnsTopic` is cleared and publishing is disabled.

Type: String

Required: No

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
```

```
Date: Sat, 12 May 2012 05:27:54 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=3+KQ4VHx991T7Kb41HmFcZJxuHz4/6mf2H5Fxy+tuLc=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 203
```

```
AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=SetIdentityNotificationTopic
&Identity=user@example.com
&SnsTopic=arn%3Aaws%3Asns%3Aus-east-1%3A123456789012%3Aexample
&NotificationType=Bounce
&Timestamp=2012-05-12T05%3A27%3A54.000Z&Version=2010-12-01
```

Sample Response

```
<SetIdentityNotificationTopicResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <SetIdentityNotificationTopicResult/>
  <ResponseMetadata>
    <RequestId>299f4af4-b72a-11e1-901f-1fbd90e8104f</RequestId>
  </ResponseMetadata>
</SetIdentityNotificationTopicResponse>
```

VerifyDomainDkim

Returns a set of DKIM tokens for a domain. DKIM *tokens* are character strings that represent your domain's identity. Using these tokens, you will need to create DNS CNAME records that point to DKIM public keys hosted by Amazon SES. Amazon Web Services will eventually detect that you have updated your DNS records; this detection process may take up to 72 hours. Upon successful detection, Amazon SES will be able to DKIM-sign email originating from that domain.

This action is throttled at one request per second.

To enable or disable Easy DKIM signing for a domain, use the `SetIdentityDkimEnabled` action.

For more information about creating DNS records using DKIM tokens, go to the [Amazon SES Developer Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Domain

The name of the domain to be verified for Easy DKIM signing.

Type: String

Required: Yes

Response Elements

The following element is returned.

DkimTokens

A set of character strings that represent the domain's identity. If the identity is an email address, the tokens represent the domain of that address.

Using these tokens, you will need to create DNS CNAME records that point to DKIM public keys hosted by Amazon SES. Amazon Web Services will eventually detect that you have updated your DNS records; this detection process may take up to 72 hours. Upon successful detection, Amazon SES will be able to DKIM-sign emails originating from that domain.

For more information about creating DNS records using DKIM tokens, go to the [Amazon SES Developer Guide](#).

Type: String list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Fri, 29 Jun 2012 22:43:30 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=roXhd+JhEjeBBo5tSERhrptRHSw4XHz6Ra4BXyHIduk=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 136

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=VerifyDomainDkim
&Domain=example.com
&Timestamp=2012-06-29T22%3A43%3A30.000Z
&Version=2010-12-01
```

Sample Response

```
<VerifyDomainDkimResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <VerifyDomainDkimResult>
    <DkimTokens>
      <member>vvjuipp74whm76gqoni7qmwn4w4qusjiainivf6sf</member>
      <member>3frqe7jn4obpuxjppolz6ipb3k5nvt2nhjpik2oy</member>
      <member>wrqplteh7oodxnad7hsl4mixg2uavzneazxv5sxi2</member>
    </DkimTokens>
  </VerifyDomainDkimResult>
  <ResponseMetadata>
    <RequestId>9662c15b-c469-11e1-99d1-797d6ecd6414</RequestId>
  </ResponseMetadata>
</VerifyDomainDkimResponse>
```


VerifyDomainIdentity

Verifies a domain.

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

Domain

The domain to be verified.

Type: String

Required: Yes

Response Elements

The following element is returned.

VerificationToken

A TXT record that must be placed in the DNS settings for the domain, in order to complete domain verification.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Sat, 12 May 2012 05:24:02 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=Wt+6RCfV+QgjLki2dtIrlecMK9+RrsDaTG5uWneDAu8=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 139

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=VerifyDomainIdentity
&Domain=domain.com
&Timestamp=2012-05-12T05%3A24%3A02.000Z
&Version=2010-12-01
```

Sample Response

```
<VerifyDomainIdentityResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
  <VerifyDomainIdentityResult>
    <VerificationToken>QTKknzFg2J4ygwa+XvHAXUllhyHoY0gVfZdfjIedHZ0=</Verifica
tionToken>
  </VerifyDomainIdentityResult>
  <ResponseMetadata>
    <RequestId>94f6368e-9bf2-11e1-8ee7-c98a0037a2b6</RequestId>
  </ResponseMetadata>
</VerifyDomainIdentityResponse>
```

VerifyEmailAddress

Verifies an email address. This action causes a confirmation email message to be sent to the specified address.

Important

The VerifyEmailAddress action is deprecated as of the May 15, 2012 release of Domain Verification. The VerifyEmailIdentity action is now preferred.

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

EmailAddress

The email address to be verified.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Thu, 18 Aug 2011 22:28:27 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=o9NK68jraFg5BnaTQiQhpxj2x1dGONOEfHHgsM6o5as=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 132

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=VerifyEmailAddress
&EmailAddress=user%40example.com
&Timestamp=2011-08-18T22%3A28%3A27.000Z
```

Sample Response

```
<VerifyEmailAddressResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">  
  <ResponseMetadata>  
    <RequestId>8edd7eb2-c864-11e0-9f8f-3da8fc215a7e</RequestId>  
  </ResponseMetadata>  
</VerifyEmailAddressResponse>
```

VerifyEmailIdentity

Verifies an email address. This action causes a confirmation email message to be sent to the specified address.

This action is throttled at one request per second.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 56\)](#).

EmailAddress

The email address to be verified.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 58\)](#).

Examples

Sample Request

```
POST / HTTP/1.1
Date: Sat, 12 May 2012 05:21:58 GMT
Host: email.us-east-1.amazonaws.com
Content-Type: application/x-www-form-urlencoded
X-Amzn-Authorization: AWS3 AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE,
  Signature=hQJj2pxypqJHQgU/BW1EZGUiNIYGhkQDf7tI6UgQ2qw=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 151

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=VerifyEmailIdentity
&EmailAddress=user%40domain.com
&Timestamp=2012-05-12T05%3A21%3A58.000Z
&Version=2010-12-01
```

Sample Response

```
<VerifyEmailIdentityResponse xmlns="http://ses.amazonaws.com/doc/2010-12-01/">
```

Amazon Simple Email Service API Reference Examples

```
<VerifyEmailIdentityResult/>
<ResponseMetadata>
  <RequestId>47e0ef1a-9bf2-11e1-9279-0100e8cf109a</RequestId>
</ResponseMetadata>
</VerifyEmailIdentityResponse>
```

Data Types

The Amazon Simple Email Service API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in the response is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [Body](#) (p. 50)
- [Content](#) (p. 51)
- [Destination](#) (p. 51)
- [IdentityDkimAttributes](#) (p. 52)
- [IdentityNotificationAttributes](#) (p. 53)
- [IdentityVerificationAttributes](#) (p. 53)
- [Message](#) (p. 54)
- [RawMessage](#) (p. 54)
- [SendDataPoint](#) (p. 55)

Body

Description

Represents the body of the message. You can specify text, HTML, or both. If you use both, then the message should display correctly in the widest variety of email clients.

Contents

Html

The content of the message, in HTML format. Use this for email clients that can process HTML. You can include clickable links, formatted text, and much more in an HTML message.

Type: [Content](#) (p. 51)

Required: No

Text

The content of the message, in text format. Use this for text-based email clients, or clients on high-latency networks (such as mobile devices).

Type: [Content](#) (p. 51)

Required: No

Content

Description

Represents textual data, plus an optional character set specification.

By default, the text must be 7-bit ASCII, due to the constraints of the SMTP protocol. If the text must contain any other characters, then you must also specify a character set. Examples include UTF-8, ISO-8859-1, and Shift_JIS.

Contents

Charset

The character set of the content.

Type: String

Required: No

Data

The textual data of the content.

Type: String

Required: Yes

Destination

Description

Represents the destination of the message, consisting of To:, CC:, and BCC: fields.

By default, the string must be 7-bit ASCII. If the text must contain any other characters, then you must use MIME encoded-word syntax (RFC 2047) instead of a literal string. MIME encoded-word syntax uses the following form: `=?charset?encoding?encoded-text?='`. For more information, see [RFC 2047](#).

Contents

BccAddresses

The BCC: field(s) of the message.

Type: String list

Required: No

CcAddresses

The CC: field(s) of the message.

Type: String list

Required: No

ToAddresses

The To: field(s) of the message.

Type: String list

Required: No

IdentityDkimAttributes

Description

Represents the DKIM attributes of a verified email address or a domain.

Contents

DkimEnabled

True if DKIM signing is enabled for email sent from the identity; false otherwise.

Type: Boolean

Required: Yes

DkimTokens

A set of character strings that represent the domain's identity. Using these tokens, you will need to create DNS CNAME records that point to DKIM public keys hosted by Amazon SES. Amazon Web Services will eventually detect that you have updated your DNS records; this detection process may take up to 72 hours. Upon successful detection, Amazon SES will be able to DKIM-sign email originating from that domain. (This only applies to domain identities, not email address identities.)

For more information about creating DNS records using DKIM tokens, go to the [Amazon SES Developer Guide](#).

Type: String list

Required: No

DkimVerificationStatus

Describes whether Amazon SES has successfully verified the DKIM DNS records (tokens) published in the domain name's DNS. (This only applies to domain identities, not email address identities.)

Type: String

Valid Values: Pending | Success | Failed | TemporaryFailure | NotStarted

Required: Yes

IdentityNotificationAttributes

Description

Represents the notification attributes of an identity, including whether an identity has Amazon Simple Notification Service (Amazon SNS) topics set for bounce, complaint, and/or delivery notifications, and whether feedback forwarding is enabled for bounce and complaint notifications.

Contents

BounceTopic

The Amazon Resource Name (ARN) of the Amazon SNS topic where Amazon SES will publish bounce notifications.

Type: String

Required: Yes

ComplaintTopic

The Amazon Resource Name (ARN) of the Amazon SNS topic where Amazon SES will publish complaint notifications.

Type: String

Required: Yes

DeliveryTopic

The Amazon Resource Name (ARN) of the Amazon SNS topic where Amazon SES will publish delivery notifications.

Type: String

Required: Yes

ForwardingEnabled

Describes whether Amazon SES will forward bounce and complaint notifications as email. `true` indicates that Amazon SES will forward bounce and complaint notifications as email, while `false` indicates that bounce and complaint notifications will be published only to the specified bounce and complaint Amazon SNS topics.

Type: Boolean

Required: Yes

IdentityVerificationAttributes

Description

Represents the verification attributes of a single identity.

Contents

VerificationStatus

The verification status of the identity: "Pending", "Success", "Failed", or "TemporaryFailure".

Type: String

Valid Values: Pending | Success | Failed | TemporaryFailure | NotStarted

Required: Yes

VerificationToken

The verification token for a domain identity. Null for email address identities.

Type: String

Required: No

Message

Description

Represents the message to be sent, composed of a subject and a body.

Contents

Body

The message body.

Type: [Body \(p. 50\)](#)

Required: Yes

Subject

The subject of the message: A short summary of the content, which will appear in the recipient's inbox.

Type: [Content \(p. 51\)](#)

Required: Yes

RawMessage

Description

Represents the raw data of the message.

Contents

Data

The raw data of the message. The client must ensure that the message format complies with Internet email standards regarding email header fields, MIME types, MIME encoding, and base64 encoding (if necessary).

The To:, CC:, and BCC: headers in the raw message can contain a group list.

If you are using `SendRawEmail` with sending authorization, you can include X-headers in the raw message to specify the "Source," "From," and "Return-Path" addresses. For more information, see the documentation for `SendRawEmail`.

Important

Do not include these X-headers in the DKIM signature, because they are removed by Amazon SES before sending the email.

For more information, go to the [Amazon SES Developer Guide](#).

Type: Blob

Required: Yes

SendDataPoint

Description

Represents sending statistics data. Each `SendDataPoint` contains statistics for a 15-minute period of sending activity.

Contents

Bounces

Number of emails that have bounced.

Type: Long

Required: No

Complaints

Number of unwanted emails that were rejected by recipients.

Type: Long

Required: No

DeliveryAttempts

Number of emails that have been enqueued for sending.

Type: Long

Required: No

Rejects

Number of emails rejected by Amazon SES.

Type: Long

Required: No

Timestamp

Time of the data point.

Type: DateTime

Required: No

Common Parameters

This section lists the request parameters that all actions use. Any action-specific parameters are listed in the topic for the action.

Action

The action to be performed.

Default: None

Type: string

Required: Yes

AuthParams

The parameters that are required to authenticate a Conditional request. Contains:

- AWSAccessKeyID
- SignatureVersion
- Timestamp
- Signature

Default: None

Required: Conditional

AWSAccessKeyID

The access key ID that corresponds to the secret access key that you used to sign the request.

Default: None

Type: string

Required: Yes

Expires

The date and time when the request signature expires, expressed in the format YYYY-MM-DDThh:mm:ssZ, as specified in the ISO 8601 standard.

Condition: Requests must include either *Timestamp* or *Expires*, but not both.

Default: None

Type: string

Required: Conditional

SecurityToken

The temporary security token that was obtained through a call to AWS Security Token Service. For a list of services that support AWS Security Token Service, go to [Using Temporary Security Credentials to Access AWS](#) in **Using Temporary Security Credentials**.

Default: None

Type: string

Required: No

Signature

The digital signature that you created for the request. For information about generating a signature, go to the service's developer documentation.

Default: None

Type: string

Required: Yes

SignatureMethod

The hash algorithm that you used to create the request signature.

Default: None

Type: string

Valid Values: HmacSHA256 | HmacSHA1

Required: Yes

SignatureVersion

The signature version you use to sign the request. Set this to the value that is recommended for your service.

Default: None

Type: string

Required: Yes

Timestamp

The date and time when the request was signed, expressed in the format YYYY-MM-DDThh:mm:ssZ, as specified in the ISO 8601 standard.

Condition: Requests must include either *Timestamp* or *Expires*, but not both.

Default: None

Type: string

Required: Conditional

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Default: None

Type: string

Required: Yes

Common Errors

This section lists the common errors that all actions return. Any action-specific errors are listed in the topic for the action.

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

Throttling

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400