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# Amazon Simple Email Service

## API Reference

API Version 2010-12-01



## Amazon Simple Email Service: API Reference

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# Welcome

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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 February 13, 2015.

# Actions

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The following actions are supported:

- [DeleteIdentity](#) (p. 3)
- [DeleteVerifiedEmailAddress](#) (p. 5)
- [GetIdentityDkimAttributes](#) (p. 7)
- [GetIdentityNotificationAttributes](#) (p. 9)
- [GetIdentityVerificationAttributes](#) (p. 11)
- [GetSendQuota](#) (p. 13)
- [GetSendStatistics](#) (p. 15)
- [ListIdentities](#) (p. 17)
- [ListVerifiedEmailAddresses](#) (p. 19)
- [SendEmail](#) (p. 21)
- [SendRawEmail](#) (p. 24)
- [SetIdentityDkimEnabled](#) (p. 27)
- [SetIdentityFeedbackForwardingEnabled](#) (p. 29)
- [SetIdentityNotificationTopic](#) (p. 31)
- [VerifyDomainDkim](#) (p. 33)
- [VerifyDomainIdentity](#) (p. 35)
- [VerifyEmailAddress](#) (p. 37)
- [VerifyEmailIdentity](#) (p. 39)

# DeleteIdentity

## Description

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 \(p. 53\)](#).

### Identity

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

Type: String

Required: Yes

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



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Examples**

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# DeleteVerifiedEmailAddress

## Description

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 \(p. 53\)](#).

### EmailAddress

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

Type: String

Required: Yes

## 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

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

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```
<RequestId>5634af08-c865-11e0-8986-3f99a698f914</RequestId>  
</ResponseMetadata>  
</DeleteVerifiedEmailAddressResponse>
```

# GetIdentityDkimAttributes

## Description

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 \(p. 53\)](#).

### **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 in a structure named `GetIdentityDkimAttributesResult`.

### **DkimAttributes**

The DKIM attributes for an email address or a domain.

Type: String to [IdentityDkimAttributes \(p. 45\)](#) map

## Examples

### Sample Request

```
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>vvjuipp74whm76gqoni7qmwn4w4qusjiainivf6f</member>
            <member>3frqe7jn4obpuxjpwpolz6ipb3k5nvt2nhjpik2oy</member>
            <member>wrqplteh7oodxnad7hsl4mixg2uavznezv5sxi2</member>
          </DkimTokens>
        </value>
      </entry>
    </DkimAttributes>
  </GetIdentityDkimAttributesResult>
  <ResponseMetadata>
    <RequestId>bb5a105d-c468-11e1-82eb-dff885ccc06a</RequestId>
  </ResponseMetadata>
</GetIdentityDkimAttributesResponse>
```

# GetIdentityNotificationAttributes

## Description

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 \(p. 53\)](#).

### **Identities.member.N**

A list of one or more identities.

Type: String list

Required: Yes

## Response Elements

The following element is returned in a structure named `GetIdentityNotificationAttributesResult`.

### **NotificationAttributes**

A map of Identity to IdentityNotificationAttributes.

Type: String to [IdentityNotificationAttributes \(p. 46\)](#) map

## 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.amazonaws.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>
```

# GetIdentityVerificationAttributes

## Description

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 \(p. 53\)](#).

### **Identities.member.N**

A list of identities.

Type: String list

Required: Yes

## Response Elements

The following element is returned in a structure named `GetIdentityVerificationAttributesResult`.

### **VerificationAttributes**

A map of Identities to IdentityVerificationAttributes objects.

Type: String to [IdentityVerificationAttributes \(p. 47\)](#) map

## 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>QTKknzFg2J4ygwa+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

## Description

Returns the user's current sending limits.

This action is throttled at one request per second.

## Response Elements

The following elements are returned in a structure named `GetSendQuotaResult`.

### **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 the user is allowed to send per second.

Type: Double

### **SentLast24Hours**

The number of emails sent during the previous 24 hours.

Type: Double

## 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

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```
<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

## Description

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 in a structure named `GetSendStatisticsResult`.

### SendDataPoints

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

Type: [SendDataPoint](#) (p. 49) list

## 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>
        <DeliveryAttempts>8</DeliveryAttempts>
        <Timestamp>2011-08-03T19:23:00Z</Timestamp>
        <Rejects>0</Rejects>
      </member>
    </SendDataPoints>
  </GetSendStatisticsResult>
</GetSendStatisticsResponse>
```

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```
    <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

## Description

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 \(p. 53\)](#).

### 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 in a structure named `ListIdentitiesResult`.

### Identities

A list of identities.

Type: String list

### NextToken

The token used for pagination.

Type: String

## 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>
```

# ListVerifiedEmailAddresses

## Description

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 in a structure named `ListVerifiedEmailAddressesResult`.

### VerifiedEmailAddresses

A list of email addresses that have been verified.

Type: String list

## 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>
    <VerifiedEmailAddresses>
      <member>example@amazon.com</member>
    </VerifiedEmailAddresses>
  </ListVerifiedEmailAddressesResult>
</ListVerifiedEmailAddressesResponse>
```



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---

```
</ListVerifiedEmailAddressesResult>  
<ResponseMetadata>  
  <RequestId>3dd50e97-c865-11e0-b235-099eb63d928d</RequestId>  
</ResponseMetadata>  
</ListVerifiedEmailAddressesResponse>
```

# SendEmail

## Description

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

### Important

You can only send email from verified email addresses and domains. If you have not requested production access to Amazon SES, 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.

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 \(p. 53\)](#).

### Destination

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

Type: [Destination \(p. 43\)](#)

Required: Yes

### Message

The message to be sent.

Type: [Message \(p. 48\)](#)

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. 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

**Source**

The identity's email address.

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](#).

Type: String

Required: Yes

## Response Elements

The following element is returned in a structure named `SendEmailResult`.

**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 \(p. 55\)](#).

**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
&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

## Description

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.

### Important

You can only send email from verified email addresses and domains. If you have not requested production access to Amazon SES, 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](#).

## Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 53\)](#).

### **Destinations.member.N**

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

Type: String list

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 \(p. 48\)](#)

Required: Yes

### **Source**

The identity's email address.

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

## Response Elements

The following element is returned in a structure named `SendRawEmailResult`.

**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 \(p. 55\)](#).

**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=uN0lHIf14tmMBzwnkHzaWBLrBFvJAVyXCsfSYAvwLuc=,
  Algorithm=HmacSHA256, SignedHeaders=Date;Host
Content-Length: 230

AWSAccessKeyId=AKIAIOSFODNN7EXAMPLE
&Action=SendRawEmail
&RawMessage.Data=U3ViamVjdDogRXhxbXBsZQpGcm9tOiblegFtcGxlQGFTYXpvi5jb20KVG8
6IGV4YW1wbGVAYWlh%0Aem9uLmNvbQpDb250ZW50LVR5cGU6IG1lbHRpcGFydC9hbHRlcm5hdG12
ZTsgYm91bmRhcnc9MDAx%0ANmU2OGY5ZDkyOWNiMDk2MDRhYWE4MzA0MgoKLS0wMDE2ZTY4ZjlkO
```

```
TI5Y2IwOTYwNGFhYTgzMDQy%0ACkNvbnRlbnQtVHlwZTogdGV4dC9wbGFpbjsgY2hhcnNldD1JU0
8tODg1OS0xCgpCb2R5LgoKLS0w%0AMDE2ZTY4ZjlkOTI5Y2IwOTYwNGFhYTgzMDQyCkNvbnRlbnQ
tVHlwZTogdGV4dC9odG1sOyBjaGFy%0Ac2V0PUlTTy04ODU5LTEKCKJvZHkuPGJyPgoKLS0wMDE2
ZTY4ZjlkOTI5Y2IwOTYwNGFhYTgzMDQy%0ALS0%3D%0A
&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

## Description

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 \(p. 53\)](#).

### 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

## 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

## Description

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 \(p. 53\)](#).

### 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

## 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.amazonaws.com/doc/2010-12-01/">
  <SetIdentityFeedbackForwardingEnabledResult/>
  <ResponseMetadata>
    <RequestId>299f4af4-b72a-11e1-901f-1fbd90e8104f</RequestId>
  </ResponseMetadata>
</SetIdentityFeedbackForwardingEnabledResponse>
```

# SetIdentityNotificationTopic

## Description

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 \(p. 53\)](#).

### Identity

The identity for which the Amazon SNS topic will be set. Examples: `user@example.com`, `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

## 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

## Description

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 \(p. 53\)](#).

### Domain

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

Type: String

Required: Yes

## Response Elements

The following element is returned in a structure named `VerifyDomainDkimResult`.

### 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

## 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>3frqe7jn4obpuxjpwpolz6ipb3k5nvt2nhjpik2oy</member>
      <member>wrqplteh7oodxnad7hsl4mixg2uavzneazxv5sxi2</member>
    </DkimTokens>
  </VerifyDomainDkimResult>
  <ResponseMetadata>
    <RequestId>9662c15b-c469-11e1-99d1-797d6ecd6414</RequestId>
  </ResponseMetadata>
</VerifyDomainDkimResponse>
```

# VerifyDomainIdentity

## Description

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 \(p. 53\)](#).

### Domain

The domain to be verified.

Type: String

Required: Yes

## Response Elements

The following element is returned in a structure named `VerifyDomainIdentityResult`.

### VerificationToken

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

Type: String

## 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=Wrl+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+XvHAXU1lhyHoY0gVfZdfjIedHZ0=</Verifica
tionToken>
  </VerifyDomainIdentityResult>
  <ResponseMetadata>
    <RequestId>94f6368e-9bf2-11e1-8ee7-c98a0037a2b6</RequestId>
  </ResponseMetadata>
</VerifyDomainIdentityResponse>
```

# VerifyEmailAddress

## Description

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 \(p. 53\)](#).

### EmailAddress

The email address to be verified.

Type: String

Required: Yes

## 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>
```

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---

```
<RequestId>8edd7eb2-c864-11e0-9f8f-3da8fc215a7e</RequestId>  
</ResponseMetadata>  
</VerifyEmailAddressResponse>
```

# VerifyEmailIdentity

## Description

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 \(p. 53\)](#).

### EmailAddress

The email address to be verified.

Type: String

Required: Yes

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

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---

```
</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. 42)
- [Content](#) (p. 42)
- [DeleteIdentityResult](#) (p. 43)
- [Destination](#) (p. 43)
- [GetIdentityDkimAttributesResult](#) (p. 43)
- [GetIdentityNotificationAttributesResult](#) (p. 44)
- [GetIdentityVerificationAttributesResult](#) (p. 44)
- [GetSendQuotaResult](#) (p. 44)
- [GetSendStatisticsResult](#) (p. 45)
- [IdentityDkimAttributes](#) (p. 45)
- [IdentityNotificationAttributes](#) (p. 46)
- [IdentityVerificationAttributes](#) (p. 47)
- [ListIdentitiesResult](#) (p. 47)
- [ListVerifiedEmailAddressesResult](#) (p. 48)
- [Message](#) (p. 48)
- [RawMessage](#) (p. 48)
- [SendDataPoint](#) (p. 49)
- [SendEmailResult](#) (p. 50)
- [SendRawEmailResult](#) (p. 50)
- [SetIdentityDkimEnabledResult](#) (p. 50)
- [SetIdentityFeedbackForwardingEnabledResult](#) (p. 50)
- [SetIdentityNotificationTopicResult](#) (p. 51)
- [VerifyDomainDkimResult](#) (p. 51)
- [VerifyDomainIdentityResult](#) (p. 51)

- [VerifyEmailIdentityResult](#) (p. 52)

## 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. 42)

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. 42)

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

## DeletelidentityResult

### Description

An empty element. Receiving this element indicates that the request completed successfully.

### Contents

## 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

## GetIdentityDkimAttributesResult

### Description

Represents a list of all the DKIM attributes for the specified identity.

### Contents

#### **DkimAttributes**

The DKIM attributes for an email address or a domain.



Type: String to [IdentityDkimAttributes](#) (p. 45) map

Required: Yes

## GetIdentityNotificationAttributesResult

### Description

Describes whether an identity has Amazon Simple Notification Service (Amazon SNS) topics set for bounce, complaint, and/or delivery notifications, and specifies whether feedback forwarding is enabled for bounce and complaint notifications.

### Contents

#### NotificationAttributes

A map of Identity to IdentityNotificationAttributes.

Type: String to [IdentityNotificationAttributes](#) (p. 46) map

Required: Yes

## GetIdentityVerificationAttributesResult

### Description

Represents the verification attributes for a list of identities.

### Contents

#### VerificationAttributes

A map of Identities to IdentityVerificationAttributes objects.

Type: String to [IdentityVerificationAttributes](#) (p. 47) map

Required: Yes

## GetSendQuotaResult

### Description

Represents the user's current activity limits returned from a successful `GetSendQuota` request.

### Contents

#### 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

Required: No

**MaxSendRate**

The maximum number of emails the user is allowed to send per second.

Type: Double

Required: No

**SentLast24Hours**

The number of emails sent during the previous 24 hours.

Type: Double

Required: No

## GetSendStatisticsResult

### Description

Represents a list of `SendDataPoint` items returned from a successful `GetSendStatistics` request. This list contains aggregated data from the previous two weeks of sending activity.

### Contents

**SendDataPoints**

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

Type: [SendDataPoint](#) (p. 49) 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

## ListIdentitiesResult

### Description

Represents a list of all verified identities for the AWS Account.

### Contents

#### Identities

A list of identities.

Type: String list

Required: Yes

#### NextToken

The token used for pagination.

Type: String

Required: No

# ListVerifiedEmailAddressesResult

## Description

Represents a list of all the email addresses verified for the current user.

## Contents

### VerifiedEmailAddresses

A list of email addresses that have been verified.

Type: String list

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. 42)

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. 42)

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.

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

## SendEmailResult

### Description

Represents a unique message ID returned from a successful `SendEmail` request.

### Contents

**MessageId**

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

Type: String

Required: Yes

## SendRawEmailResult

### Description

Represents a unique message ID returned from a successful `SendRawEmail` request.

### Contents

**MessageId**

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

Type: String

Required: Yes

## SetIdentityDkimEnabledResult

### Description

An empty element. Receiving this element indicates that the request completed successfully.

### Contents

## SetIdentityFeedbackForwardingEnabledResult

### Description

An empty element. Receiving this element indicates that the request completed successfully.

## Contents

### SetIdentityNotificationTopicResult

#### Description

An empty element. Receiving this element indicates that the request completed successfully.

#### Contents

### VerifyDomainDkimResult

#### Description

Represents the DNS records that must be published in the domain name's DNS to complete DKIM setup.

#### Contents

##### 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

Required: Yes

### VerifyDomainIdentityResult

#### Description

Represents a token used for domain ownership verification.

#### Contents

##### VerificationToken

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

Type: String



Required: Yes

## VerifyEmailIdentityResult

### Description

An empty element. Receiving this element indicates that the request completed successfully.

### Contents

# 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