
Amazon Route 53

API Reference



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Welcome

Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service. Route 53 performs four main functions:

- **Domain registration** – Route 53 helps lets you register domain names such as example.com.
- **Domain Name System (DNS) service** – Route 53 translates friendly domains names like www.example.com into IP addresses like 192.0.2.1. Route 53 responds to DNS queries using a global network of authoritative DNS servers, which reduces latency.
- **Health checking** – Route 53 sends automated requests over the internet to your application to verify that it's reachable, available, and functional.
- **Resolver** – Route 53 Resolver lets you forward DNS queries from a VPC that you created using Amazon VPC to DNS resolvers in your network, and from your network to resolvers in your VPC.

This *Amazon Route 53 API Reference* explains how to use API actions to create the following resources:

Public Hosted Zones

A public hosted zone is a container that holds information about how you want to route traffic on the internet for a domain, such as example.com, and its subdomains. See [Public Hosted Zones](#).

Private Hosted Zones

A private hosted zone is a container that holds information about how you want to route traffic for a domain and its subdomains within one or more VPCs that you created with the Amazon VPC service. See [Private Hosted Zones](#).

Reusable Delegation Sets

By default, each hosted zone that you create gets a different set of four name servers—a different delegation set. If you create a lot of hosted zones, maintaining different delegation sets can be difficult and time consuming. Route 53 lets you create a delegation set that you can reuse with multiple hosted zones. See [Reusable Delegation Sets](#).

Resource Record Sets

After you create a hosted zone for your domain, such as example.com, you create resource record sets to tell the Domain Name System (DNS) how to route traffic for that domain. See [Resource Record Sets](#).

Traffic Policies and Traffic Policy Instances

You can create complex routing configurations, known as traffic policies, that use weighted, latency, failover, and geolocation resource record sets. You can then associate a traffic policy with a domain name or subdomain name, such as www.example.com, by creating a traffic policy instance. When users submit DNS queries for the domain or subdomain, Route 53 responds based on the traffic policy that you used to create the traffic policy instance. See [Traffic Policies](#) and [Traffic Policy Instances](#).

Health Checks

Route 53 health checks monitor the health and performance of your web applications, web servers, and other resources. At regular intervals that you specify, Route 53 submits automated requests over the internet to your application, server, or other resource to verify that it's reachable, available, and functional. See [Health Checks](#).

Domain Registrations

When you want to get a new domain name, such as example.com, you can register it with Route 53. You can also transfer the registration for existing domains from other registrars to Route 53. See [Domain Registrations](#).

Query Logs

You can configure Route 53 to log information about the queries that Route 53 receives, such as the domain or subdomain that was requested, the date and time of the request, and the DNS record type (such as A or AAAA). See [DNS Query Logs](#).

Outbound and Inbound Endpoints, and Rules

You can configure Route 53 Resolver to forward DNS queries from your VPC to your network or vice versa. DNS queries pass through an outbound endpoint on their way from a VPC to your network, and they pass through an inbound endpoint on their way from your network to a VPC. For outbound queries, rules let you specify the domain names that you want to forward to your network and the IP addresses of the DNS resolvers in your network. See [Route 53 Resolver \(p. 5\)](#).

Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and a value, both of which you define. You can use tags for a variety of purposes; one common use is to categorize and track your Route 53 costs. See [Tags for Hosted Zones and Health Checks](#) and [Tags for Domains](#).

You can also use the Route 53 API to get the current limit on Route 53 objects that you can create, such as hosted zones and health checks. See [Limits for Accounts, Hosted Zones, and Reusable Delegation Sets](#).

In addition, the *Amazon Route 53 API Reference* includes the following information:

- **Making API Requests** – How to submit HTTP requests to Route 53
- **Traffic Policy Document Format** – Syntax and examples for the document that you include when you create a traffic policy programmatically

For information about Route 53 concepts and about how to use the Route 53 console, see the [Amazon Route 53 Developer Guide](#).

Amazon Route 53 API Actions by Function

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- [Public Hosted Zones](#)
- [Private Hosted Zones](#)
- [Resource Record Sets](#)
- [Health Checks](#)
- [DNS Query Logs](#)
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- [Limits for Accounts, Hosted Zones, and Reusable Delegation Sets](#)
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The following actions are supported by Route 53:

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Amazon Route 53

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- [DeleteVPCAssociationAuthorization](#) (p. 79)

- [DisassociateVPCFromHostedZone](#) (p. 82)
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AssociateVPCWithHostedZone

Service: Amazon Route 53

Associates an Amazon VPC with a private hosted zone.

Note

To perform the association, the VPC and the private hosted zone must already exist. Also, you can't convert a public hosted zone into a private hosted zone.

If you want to associate a VPC that was created by one AWS account with a private hosted zone that was created by a different account, do one of the following:

- Use the AWS account that created the private hosted zone to submit a [CreateVPCAssociationAuthorization](#) request. Then use the account that created the VPC to submit an AssociateVPCWithHostedZone request.
- If a subnet in the VPC was shared with another account, you can use the account that the subnet was shared with to submit an AssociateVPCWithHostedZone request. For more information about sharing subnets, see [Working with Shared VPCs](#).

Request Syntax

```
POST /2013-04-01/hostedzone/Id/associatevpc HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</AssociateVPCWithHostedZoneRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 11)

The ID of the private hosted zone that you want to associate an Amazon VPC with.

Note that you can't associate a VPC with a hosted zone that doesn't have an existing VPC association.

Length Constraints: Maximum length of 32.

Request Body

The request accepts the following data in XML format.

AssociateVPCWithHostedZoneRequest (p. 11)

Root level tag for the AssociateVPCWithHostedZoneRequest parameters.

Required: Yes

Comment (p. 11)

Optional: A comment about the association request.

Type: String

Required: No

VPC (p. 11)

A complex type that contains information about the VPC that you want to associate with a private hosted zone.

Type: [VPC \(p. 460\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</AssociateVPCWithHostedZoneResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

AssociateVPCWithHostedZoneResponse (p. 12)

Root level tag for the AssociateVPCWithHostedZoneResponse parameters.

Required: Yes

ChangeInfo (p. 12)

A complex type that describes the changes made to your hosted zone.

Type: [ChangeInfo \(p. 413\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConflictingDomainExists

The cause of this error depends on the operation that you're performing:

- **Create a public hosted zone:** Two hosted zones that have the same name or that have a parent/child relationship (example.com and test.example.com) can't have any common name servers. You tried to create a hosted zone that has the same name as an existing hosted zone or that's the parent or child of an existing hosted zone, and you specified a delegation set that shares one or more name servers with the existing hosted zone. For more information, see [CreateReusableDelegationSet](#).
- **Create a private hosted zone:** A hosted zone with the specified name already exists and is already associated with the Amazon VPC that you specified.

- **Associate VPCs with a private hosted zone:** The VPC that you specified is already associated with another hosted zone that has the same name.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400

LimitsExceeded

This operation can't be completed either because the current account has reached the limit on reusable delegation sets that it can create or because you've reached the limit on the number of Amazon VPCs that you can associate with a private hosted zone. To get the current limit on the number of reusable delegation sets, see [GetAccountLimit](#). To get the current limit on the number of Amazon VPCs that you can associate with a private hosted zone, see [GetHostedZoneLimit](#). To request a higher limit, [create a case](#) with the AWS Support Center.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

NotAuthorizedException

Associating the specified VPC with the specified hosted zone has not been authorized.

HTTP Status Code: 401

PublicZoneVPCAssociation

You're trying to associate a VPC with a public hosted zone. Amazon Route 53 doesn't support associating a VPC with a public hosted zone.

HTTP Status Code: 400

Examples

Example Request

```
POST /2013-04-01/hostedzone/Z1PA6795UKMFR9/associatevpc HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</AssociateVPCWithHostedZoneRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeInfo>
    <Id>/change/a1b2c3d4</Id>
    <Status>INSYNC</Status>
    <SubmittedAt>2017-03-31T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</AssociateVPCWithHostedZoneResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ChangeResourceRecordSets

Service: Amazon Route 53

Creates, changes, or deletes a resource record set, which contains authoritative DNS information for a specified domain name or subdomain name. For example, you can use `ChangeResourceRecordSets` to create a resource record set that routes traffic for `test.example.com` to a web server that has an IP address of `192.0.2.44`.

Change Batches and Transactional Changes

The request body must include a document with a `ChangeResourceRecordSetsRequest` element. The request body contains a list of change items, known as a change batch. Change batches are considered transactional changes. When using the Amazon Route 53 API to change resource record sets, Route 53 either makes all or none of the changes in a change batch request. This ensures that Route 53 never partially implements the intended changes to the resource record sets in a hosted zone.

For example, a change batch request that deletes the `CNAME` record for `www.example.com` and creates an alias resource record set for `www.example.com`. Route 53 deletes the first resource record set and creates the second resource record set in a single operation. If either the `DELETE` or the `CREATE` action fails, then both changes (plus any other changes in the batch) fail, and the original `CNAME` record continues to exist.

Important

Due to the nature of transactional changes, you can't delete the same resource record set more than once in a single change batch. If you attempt to delete the same change batch more than once, Route 53 returns an `InvalidChangeBatch` error.

Traffic Flow

To create resource record sets for complex routing configurations, use either the traffic flow visual editor in the Route 53 console or the API actions for traffic policies and traffic policy instances. Save the configuration as a traffic policy, then associate the traffic policy with one or more domain names (such as `example.com`) or subdomain names (such as `www.example.com`), in the same hosted zone or in multiple hosted zones. You can roll back the updates if the new configuration isn't performing as expected. For more information, see [Using Traffic Flow to Route DNS Traffic](#) in the *Amazon Route 53 Developer Guide*.

Create, Delete, and Upsert

Use `ChangeResourceRecordsSetsRequest` to perform the following actions:

- **CREATE:** Creates a resource record set that has the specified values.
- **DELETE:** Deletes an existing resource record set that has the specified values.
- **UPSERT:** If a resource record set does not already exist, AWS creates it. If a resource set does exist, Route 53 updates it with the values in the request.

Syntaxes for Creating, Updating, and Deleting Resource Record Sets

The syntax for a request depends on the type of resource record set that you want to create, delete, or update, such as weighted, alias, or failover. The XML elements in your request must appear in the order listed in the syntax.

For syntax examples that show the elements for each kind of resource record set, such as basic, weighted, and alias, see the [Examples](#) section of `ChangeResourceRecordSets`.

Don't refer to the syntax in the "Syntax" section, which includes all of the elements for every kind of resource record set that you can create, delete, or update by using `ChangeResourceRecordSets`.

Change Propagation to Route 53 DNS Servers

When you submit a `ChangeResourceRecordSets` request, Route 53 propagates your changes to all of the Route 53 authoritative DNS servers. While your changes are propagating, `GetChange` returns a status of `PENDING`. When propagation is complete, `GetChange` returns a status of `INSYNC`. Changes generally propagate to all Route 53 name servers within 60 seconds. For more information, see [GetChange](#).

Limits on ChangeResourceRecordSets Requests

For information about the limits on a `ChangeResourceRecordSets` request, see [Limits](#) in the *Amazon Route 53 Developer Guide*.

Request Syntax

```
POST /2013-04-01/hostedzone/Id/rrset/ HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Changes>
      <Change>
        <Action>string</Action>
        <ResourceRecordSet>
          <AliasTarget>
            <DNSName>string</DNSName>
            <EvaluateTargetHealth>boolean</EvaluateTargetHealth>
            <HostedZoneId>string</HostedZoneId>
          </AliasTarget>
          <Failover>string</Failover>
          <GeoLocation>
            <ContinentCode>string</ContinentCode>
            <CountryCode>string</CountryCode>
            <SubdivisionCode>string</SubdivisionCode>
          </GeoLocation>
          <HealthCheckId>string</HealthCheckId>
          <MultiValueAnswer>boolean</MultiValueAnswer>
          <Name>string</Name>
          <Region>string</Region>
          <ResourceRecords>
            <ResourceRecord>
              <Value>string</Value>
            </ResourceRecord>
          </ResourceRecords>
          <SetIdentifier>string</SetIdentifier>
          <TrafficPolicyInstanceId>string</TrafficPolicyInstanceId>
          <TTL>long</TTL>
          <Type>string</Type>
          <Weight>long</Weight>
        </ResourceRecordSet>
      </Change>
    </Changes>
    <Comment>string</Comment>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 16)

The ID of the hosted zone that contains the resource record sets that you want to change.

Length Constraints: Maximum length of 32.

Request Body

The request accepts the following data in XML format.

[ChangeResourceRecordSetsRequest \(p. 16\)](#)

Root level tag for the ChangeResourceRecordSetsRequest parameters.

Required: Yes

[ChangeBatch \(p. 16\)](#)

A complex type that contains an optional comment and the `Changes` element.

Type: [ChangeBatch \(p. 412\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</ChangeResourceRecordSetsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

[ChangeResourceRecordSetsResponse \(p. 17\)](#)

Root level tag for the ChangeResourceRecordSetsResponse parameters.

Required: Yes

[ChangeInfo \(p. 17\)](#)

A complex type that contains information about changes made to your hosted zone.

This element contains an ID that you use when performing a [GetChange](#) action to get detailed information about the change.

Type: [ChangeInfo \(p. 413\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidChangeBatch

This exception contains a list of messages that might contain one or more error messages. Each error message indicates one error in the change batch.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Basic Syntax

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <TTL>time to live in seconds</TTL>
          <ResourceRecords>
            <ResourceRecord>
              <Value>applicable value for the record type</Value>
            </ResourceRecord>
            ...
          </ResourceRecords>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
```



```
</ChangeResourceRecordSetsRequest>
```

Alias Resource Record Set Syntax

For information about alias resource record sets, see [Choosing Between Alias and Non-Alias Resource Record Sets](#) in the *Amazon Route 53 Developer Guide*.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <AliasTarget>
            <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</
HostedZoneId>
            <DNSName>DNS domain name for your AWS resource or another resource record
set in this hosted zone</DNSName>
            <EvaluateTargetHealth>true | false</EvaluateTargetHealth>
          </AliasTarget>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Failover Syntax

For information about configuring Route 53 failover, see the following topics in the *Amazon Route 53 Developer Guide*:

- [Creating Route 53 Health Checks and Configuring DNS Failover](#)
- [Configuring Failover in a Private Hosted Zone](#)

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Failover>PRIMARY | SECONDARY</Failover>
          <TTL>time to live in seconds</TTL>
          <ResourceRecords>
            <ResourceRecord>
              <Value>applicable value for the record type</Value>
            </ResourceRecord>
            ...
          </ResourceRecords>
        </ResourceRecordSet>
      </Change>
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

```
        </ResourceRecords>
        <HealthCheckId>ID of a Route 53 health check</HealthCheckId>
    </ResourceRecordSet>
</Change>
...
</Changes>
</ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Failover Alias Syntax

For more information, see the following topics in the *Amazon Route 53 Developer Guide*:

- [Creating Route 53 Health Checks and Configuring DNS Failover](#)
- [Configuring Failover in a Private Hosted Zone](#)
- [Choosing Between Alias and Non-Alias Resource Record Sets](#)

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
<ChangeBatch>
  <Comment>optional comment about the changes in this change batch request</Comment>
  <Changes>
    <Change>
      <Action>CREATE | DELETE | UPSERT</Action>
      <ResourceRecordSet>
        <Name>fully qualified domain name</Name>
        <Type>DNS record type</Type>
        <SetIdentifier>unique description for this resource record set</SetIdentifier>
        <Failover>PRIMARY | SECONDARY</Failover>
        <AliasTarget>
          <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</
HostedZoneId>
          <DNSName>DNS domain name for your AWS resource or another resource record
set in this hosted zone</DNSName>
          <EvaluateTargetHealth>true | false</EvaluateTargetHealth>
        </AliasTarget>
        <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
      </ResourceRecordSet>
    </Change>
    ...
  </Changes>
</ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Geolocation Syntax

For more information, see [Geolocation Routing](#) in the *Amazon Route 53 Developer Guide*.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
<ChangeBatch>
  <Comment>optional comment about the changes in this
change batch request</Comment>
  <Changes>
    <Change>
      <Action>CREATE | DELETE | UPSERT</Action>
      <ResourceRecordSet>
        <Name>fully qualified domain name</Name>
```

```
<Type>DNS record type</Type>
<SetIdentifier>unique description for this resource record set</SetIdentifier>
<GeoLocation>
  <ContinentCode>two-letter continent code</ContinentCode>
  <CountryCode>two-letter country code</CountryCode>
  <SubdivisionCode>subdivision code</SubdivisionCode>
</GeoLocation>
<TTL>time to live in seconds</TTL>
<ResourceRecords>
  <ResourceRecord>
    <Value>applicable value for the record type</Value>
  </ResourceRecord>
  ...
</ResourceRecords>
<HealthCheckId>ID of a Route 53 health check</HealthCheckId>
</ResourceRecordSet>
</Change>
...
</Changes>
</ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Geolocation Alias Syntax

For more information, see the following topics in the *Amazon Route 53 Developer Guide*:

- [Geolocation Routing](#)
- [Choosing Between Alias and Non-Alias Resource Record Sets](#)

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this
      change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <GeoLocation>
            <ContinentCode>two-letter continent code</ContinentCode>
            <CountryCode>two-letter country code</CountryCode>
            <SubdivisionCode>subdivision code</SubdivisionCode>
          </GeoLocation>
          <AliasTarget>
            <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</
HostedZoneId>
            <DNSName>DNS domain name for your AWS resource or another resource record
set in this hosted zone</DNSName>
            <EvaluateTargetHealth>true | false</EvaluateTargetHealth>
          </AliasTarget>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Latency Resource Record Set Syntax

For information about latency resource record sets, see [Latency-Based Routing](#) in the *Amazon Route 53 Developer Guide*.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Region>Amazon EC2 region name</Region>
          <TTL>time to live in seconds</TTL>
          <ResourceRecords>
            <ResourceRecord>
              <Value>applicable value for the record type</Value>
            </ResourceRecord>
            ...
          </ResourceRecords>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Latency Alias Resource Record Set Syntax

For information about latency resource record sets, see [Latency-Based Routing](#) in the *Amazon Route 53 Developer Guide*. For information about alias resource record sets, see [Choosing Between Alias and Non-Alias Resource Record Sets](#) in the *Amazon Route 53 Developer Guide*.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Region>Amazon EC2 region name</Region>
          <AliasTarget>
            <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</HostedZoneId>
            <DNSName>DNS domain name for your AWS resource or another resource record set in this hosted zone</DNSName>
            <EvaluateTargetHealth>true | false</EvaluateTargetHealth>
          </AliasTarget>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

```
</Changes>
</ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Multivalue Answer Syntax

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <TTL>time to live in seconds</TTL>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <ResourceRecords>
            <ResourceRecord>
              <Value>applicable value for the record type</Value>
            </ResourceRecord>
            ...
          </ResourceRecords>
          <MultiValueAnswer>true</MultiValueAnswer>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Weighted Resource Record Set Syntax

For information about weighted resource record sets, see [Weighted Routing](#) in the *Amazon Route 53 Developer Guide*.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Weight>value between 0 and 255</Weight>
          <TTL>time to live in seconds</TTL>
          <ResourceRecords>
            <ResourceRecord>
              <Value>applicable value for the record type</Value>
            </ResourceRecord>
            ...
          </ResourceRecords>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
```

```
...
</Changes>
</ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Weighted Alias Resource Record Set Syntax

For information about weighted resource record sets, see [Weighted Routing](#) in the *Amazon Route 53 Developer Guide*. For information about alias resource record sets, see [Choosing Between Alias and Non-Alias Resource Record Sets](#) in the *Amazon Route 53 Developer Guide*.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Weight>value between 0 and 255</Weight>
          <AliasTarget>
            <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</
HostedZoneId>
            <DNSName>DNS domain name for your AWS resource or another resource record
set in this hosted zone</DNSName>
            <EvaluateTargetHealth>true | false</EvaluateTargetHealth>
          </AliasTarget>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ChangeTagsForResource

Service: Amazon Route 53

Adds, edits, or deletes tags for a health check or a hosted zone.

For information about using tags for cost allocation, see [Using Cost Allocation Tags](#) in the *AWS Billing and Cost Management User Guide*.

Request Syntax

```
POST /2013-04-01/tags/ResourceType/ResourceId HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeTagsForResourceRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <AddTags>
    <Tag>
      <Key>string</Key>
      <Value>string</Value>
    </Tag>
  </AddTags>
  <RemoveTagKeys>
    <Key>string</Key>
  </RemoveTagKeys>
</ChangeTagsForResourceRequest>
```

URI Request Parameters

The request requires the following URI parameters.

ResourceId (p. 25)

The ID of the resource for which you want to add, change, or delete tags.

Length Constraints: Maximum length of 64.

ResourceType (p. 25)

The type of the resource.

- The resource type for health checks is `healthcheck`.
- The resource type for hosted zones is `hostedzone`.

Valid Values: `healthcheck` | `hostedzone`

Request Body

The request accepts the following data in XML format.

ChangeTagsForResourceRequest (p. 25)

Root level tag for the ChangeTagsForResourceRequest parameters.

Required: Yes

AddTags (p. 25)

A complex type that contains a list of the tags that you want to add to the specified health check or hosted zone and/or the tags that you want to edit `Value` for.

You can add a maximum of 10 tags to a health check or a hosted zone.

Type: Array of [Tag \(p. 452\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

RemoveTagKeys (p. 25)

A complex type that contains a list of the tags that you want to delete from the specified health check or hosted zone. You can specify up to 10 keys.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Maximum length of 128.

Required: No

Response Syntax

`HTTP/1.1 200`

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an `HTTP 400 error (Bad request)`. If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 400

Examples

Example Request

```
POST /2013-04-01/tags/healthcheck/abcdef11-2222-3333-4444-555555fedcba HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeTagsForResourceRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <RemoveTagKeys>
    <Key>Owner</Key>
  </RemoveTagKeys>
  <AddTags>
    <Tag>
      <Key>Cost Center</Key>
      <Value>80432</Value>
    </Tag>
  </AddTags>
</ChangeTagsForResourceRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ChangeTagsForResourceResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
</ChangeTagsForResourceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateHealthCheck

Service: Amazon Route 53

Creates a new health check.

For information about adding health checks to resource record sets, see [HealthCheckId](#) in [ChangeResourceRecordSets](#).

ELB Load Balancers

If you're registering EC2 instances with an Elastic Load Balancing (ELB) load balancer, do not create Amazon Route 53 health checks for the EC2 instances. When you register an EC2 instance with a load balancer, you configure settings for an ELB health check, which performs a similar function to a Route 53 health check.

Private Hosted Zones

You can associate health checks with failover resource record sets in a private hosted zone. Note the following:

- Route 53 health checkers are outside the VPC. To check the health of an endpoint within a VPC by IP address, you must assign a public IP address to the instance in the VPC.
- You can configure a health checker to check the health of an external resource that the instance relies on, such as a database server.
- You can create a CloudWatch metric, associate an alarm with the metric, and then create a health check that is based on the state of the alarm. For example, you might create a CloudWatch metric that checks the status of the Amazon EC2 `StatusCheckFailed` metric, add an alarm to the metric, and then create a health check that is based on the state of the alarm. For information about creating CloudWatch metrics and alarms by using the CloudWatch console, see the [Amazon CloudWatch User Guide](#).

Request Syntax

```
POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>string</CallerReference>
  <HealthCheckConfig>
    <AlarmIdentifier>
      <Name>string</Name>
      <Region>string</Region>
    </AlarmIdentifier>
    <ChildHealthChecks>
      <ChildHealthCheck>string</ChildHealthCheck>
    </ChildHealthChecks>
    <Disabled>boolean</Disabled>
    <EnableSNI>boolean</EnableSNI>
    <FailureThreshold>integer</FailureThreshold>
    <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
    <HealthThreshold>integer</HealthThreshold>
    <InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
    <Inverted>boolean</Inverted>
    <IPAddress>string</IPAddress>
    <MeasureLatency>boolean</MeasureLatency>
    <Port>integer</Port>
    <Regions>
      <Region>string</Region>
    </Regions>
  </HealthCheckConfig>
</CreateHealthCheckRequest>
```

```
<RequestInterval>integer</RequestInterval>
<ResourcePath>string</ResourcePath>
<SearchString>string</SearchString>
<Type>string</Type>
</HealthCheckConfig>
</CreateHealthCheckRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateHealthCheckRequest (p. 28)

Root level tag for the CreateHealthCheckRequest parameters.

Required: Yes

CallerReference (p. 28)

A unique string that identifies the request and that allows you to retry a failed CreateHealthCheck request without the risk of creating two identical health checks:

- If you send a CreateHealthCheck request with the same CallerReference and settings as a previous request, and if the health check doesn't exist, Amazon Route 53 creates the health check. If the health check does exist, Route 53 returns the settings for the existing health check.
- If you send a CreateHealthCheck request with the same CallerReference as a deleted health check, regardless of the settings, Route 53 returns a HealthCheckAlreadyExists error.
- If you send a CreateHealthCheck request with the same CallerReference as an existing health check but with different settings, Route 53 returns a HealthCheckAlreadyExists error.
- If you send a CreateHealthCheck request with a unique CallerReference but settings identical to an existing health check, Route 53 creates the health check.

Type: String

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

Required: Yes

HealthCheckConfig (p. 28)

A complex type that contains settings for a new health check.

Type: [HealthCheckConfig \(p. 425\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckResponse>
  <HealthCheck>
    <CallerReference>string</CallerReference>
```

```
<CloudWatchAlarmConfiguration>
  <ComparisonOperator>string</ComparisonOperator>
  <Dimensions>
    <Dimension>
      <Name>string</Name>
      <Value>string</Value>
    </Dimension>
  </Dimensions>
  <EvaluationPeriods>integer</EvaluationPeriods>
  <MetricName>string</MetricName>
  <Namespace>string</Namespace>
  <Period>integer</Period>
  <Statistic>string</Statistic>
  <Threshold>double</Threshold>
</CloudWatchAlarmConfiguration>
<HealthCheckConfig>
  <AlarmIdentifier>
    <Name>string</Name>
    <Region>string</Region>
  </AlarmIdentifier>
  <ChildHealthChecks>
    <ChildHealthCheck>string</ChildHealthCheck>
  </ChildHealthChecks>
  <Disabled>boolean</Disabled>
  <EnableSNI>boolean</EnableSNI>
  <FailureThreshold>integer</FailureThreshold>
  <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
  <HealthThreshold>integer</HealthThreshold>
  <InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
  <Inverted>boolean</Inverted>
  <IPAddress>string</IPAddress>
  <MeasureLatency>boolean</MeasureLatency>
  <Port>integer</Port>
  <Regions>
    <Region>string</Region>
  </Regions>
  <RequestInterval>integer</RequestInterval>
  <ResourcePath>string</ResourcePath>
  <SearchString>string</SearchString>
  <Type>string</Type>
</HealthCheckConfig>
<HealthCheckVersion>long</HealthCheckVersion>
<Id>string</Id>
<LinkedService>
  <Description>string</Description>
  <ServicePrincipal>string</ServicePrincipal>
</LinkedService>
</HealthCheck>
</CreateHealthCheckResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 29)

The unique URL representing the new health check.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateHealthCheckResponse (p. 29)

Root level tag for the CreateHealthCheckResponse parameters.

Required: Yes

HealthCheck (p. 29)

A complex type that contains identifying information about the health check.

Type: [HealthCheck \(p. 423\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

HealthCheckAlreadyExists

The health check you're attempting to create already exists. Amazon Route 53 returns this error when you submit a request that has the following values:

- The same value for `CallerReference` as an existing health check, and one or more values that differ from the existing health check that has the same caller reference.
- The same value for `CallerReference` as a health check that you created and later deleted, regardless of the other settings in the request.

HTTP Status Code: 409

InvalidInput

The input is not valid.

HTTP Status Code: 400

TooManyHealthChecks

This health check can't be created because the current account has reached the limit on the number of active health checks.

For information about default limits, see [Limits](#) in the *Amazon Route 53 Developer Guide*.

For information about how to get the current limit for an account, see [GetAccountLimit](#). To request a higher limit, [create a case](#) with the AWS Support Center.

You have reached the maximum number of active health checks for an AWS account. To request a higher limit, [create a case](#) with the AWS Support Center.

HTTP Status Code: 400

Examples

Request Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

```
POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>unique description</CallerReference>
  <HealthCheckConfig>
    <EnableSNI>true | false</EnableSNI>
    <FailureThreshold>number of health checks that must pass or fail to change the status
of the health check</FailureThreshold>
```

```

    <FullyQualifiedDomainName>domain name of the endpoint to check</FullyQualifiedDomainName>
    <Inverted>true | false</Inverted>
    <IPAddress>IP address of the endpoint to check</IPAddress>
    <MeasureLatency>true | false</MeasureLatency>
    <Port>port on the endpoint to check</Port>
    <Regions>
        <Region>us-west-1 | us-west-2 | us-east-1 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1</Region>
        ...
    </Regions>
    <RequestInterval>10 | 30</RequestInterval>
    <ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
    <SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search for in the response body from the specified resource</SearchString>
    <Type>HTTP | HTTPS | HTTP_STR_MATCH | HTTPS_STR_MATCH | TCP</Type>
</HealthCheckConfig>
</CreateHealthCheckRequest>

```

Response Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

```

HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
    <HealthCheck>
        <Id>ID that Route 53 assigned to the new health check</Id>
        <CallerReference>unique description</CallerReference>
        <HealthCheckConfig>
            <EnableSNI>true | false</EnableSNI>
            <FailureThreshold>number of health checks that must pass or fail to change the status of the health check</FailureThreshold>
            <FullyQualifiedDomainName>domain name of the endpoint to check</FullyQualifiedDomainName>
            <Inverted>true | false</Inverted>
            <IPAddress>IP address of the endpoint to check</IPAddress>
            <MeasureLatency>true | false</MeasureLatency>
            <Port>port on the endpoint to check</Port>
            <Regions>
                <Region>us-west-1 | us-west-2 | us-east-1 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1</Region>
                ...
            </Regions>
            <RequestInterval>10 | 30</RequestInterval>
            <ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
            <SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search for in the response body from the specified resource</SearchString>
            <Type>HTTP | HTTPS | HTTP_STR_MATCH | HTTPS_STR_MATCH | TCP</Type>
        </HealthCheckConfig>
        <HealthCheckVersion>sequential counter</HealthCheckVersion>
    </HealthCheck>
</CreateHealthCheckResponse>

```

Request Syntax for CLOUDWATCH_METRIC Health Checks

```

POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
        <AlarmIdentifier>
            <Name>name of CloudWatch alarm</Name>
            <Region>region that CloudWatch alarm was created in</Region>
        </AlarmIdentifier>
    </HealthCheckConfig>
</CreateHealthCheckRequest>

```

```
    <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
    <Inverted>true | false</Inverted>
    <Type>CLOUDWATCH_METRIC</Type>
  </HealthCheckConfig>
</CreateHealthCheckRequest>
```

Response Syntax for CLOUDWATCH_METRIC Health Checks

```
POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheck>
    <Id>ID that Route 53 assigned to the new health check</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>name of CloudWatch alarm</Name>
        <Region>region of CloudWatch alarm</Region>
      </AlarmIdentifier>
      <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
      <Inverted>true | false</Inverted>
      <Type>CLOUDWATCH_METRIC</Type>
    </HealthCheckConfig>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>GreaterThanOrEqualToThreshold | GreaterThanThreshold |
      LessThanThreshold | LessThanOrEqualToThreshold</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>name of a dimension for the metric</Name>
          <Value>value of a dimension for the metric</Value>
        </Dimension>
        ...
      </Dimensions>
      <EvaluationPeriods>number of periods that metric is compared to threshold</EvaluationPeriods>
      <MetricName>name of the metric that's associated with the alarm</MetricName>
      <Namespace>namespace of the metric that the alarm is associated with</Namespace>
      <Period>duration of a period in seconds</Period>
      <Statistic>statistic applied to the CloudWatch metric</Statistic>
      <Threshold>value the metric is compared with</Threshold>
    </CloudWatchAlarmConfiguration>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</CreateHealthCheckResponse>
```

Request Syntax for CALCULATED Health Checks

```
POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>unique description</CallerReference>
  <HealthCheckConfig>
    <ChildHealthChecks>
      <ChildHealthCheck>health check ID</ChildHealthCheck>
      ...
    </ChildHealthChecks>
    <HealthThreshold>number of the health checks that are associated with a CALCULATED
health check that must be healthy</HealthThreshold>
    <Inverted>true | false</Inverted>
    <Type>CALCULATED</Type>
  </HealthCheckConfig>
```

```
</CreateHealthCheckRequest>
```

Response Syntax for CALCULATED Health Checks

```
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheck>
    <Id>ID that Route 53 assigned to the new health check</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <ChildHealthChecks>
        <ChildHealthCheck>health check ID</ChildHealthCheck>
        ...
      </ChildHealthChecks>
      <HealthThreshold>number of health checks that are associated with a CALCULATED
health check that must be healthy</HealthThreshold>
      <Inverted>true | false</Inverted>
      <Type>CALCULATED</Type>
    </HealthCheckConfig>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</CreateHealthCheckResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateHostedZone

Service: Amazon Route 53

Creates a new public or private hosted zone. You create records in a public hosted zone to define how you want to route traffic on the internet for a domain, such as example.com, and its subdomains (apex.example.com, acme.example.com). You create records in a private hosted zone to define how you want to route traffic for a domain and its subdomains within one or more Amazon Virtual Private Clouds (Amazon VPCs).

Important

You can't convert a public hosted zone to a private hosted zone or vice versa. Instead, you must create a new hosted zone with the same name and create new resource record sets.

For more information about charges for hosted zones, see [Amazon Route 53 Pricing](#).

Note the following:

- You can't create a hosted zone for a top-level domain (TLD) such as .com.
- For public hosted zones, Route 53 automatically creates a default SOA record and four NS records for the zone. For more information about SOA and NS records, see [NS and SOA Records that Route 53 Creates for a Hosted Zone](#) in the *Amazon Route 53 Developer Guide*.

If you want to use the same name servers for multiple public hosted zones, you can optionally associate a reusable delegation set with the hosted zone. See the `DelegationSetId` element.

- If your domain is registered with a registrar other than Route 53, you must update the name servers with your registrar to make Route 53 the DNS service for the domain. For more information, see [Migrating DNS Service for an Existing Domain to Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

When you submit a `CreateHostedZone` request, the initial status of the hosted zone is `PENDING`. For public hosted zones, this means that the NS and SOA records are not yet available on all Route 53 DNS servers. When the NS and SOA records are available, the status of the zone changes to `INSYNC`.

Request Syntax

```
POST /2013-04-01/hostedzone HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>string</CallerReference>
  <DelegationSetId>string</DelegationSetId>
  <HostedZoneConfig>
    <Comment>string</Comment>
    <PrivateZone>boolean</PrivateZone>
  </HostedZoneConfig>
  <Name>string</Name>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</CreateHostedZoneRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateHostedZoneRequest (p. 35)

Root level tag for the CreateHostedZoneRequest parameters.

Required: Yes

CallerReference (p. 35)

A unique string that identifies the request and that allows failed CreateHostedZone requests to be retried without the risk of executing the operation twice. You must use a unique CallerReference string every time you submit a CreateHostedZone request. CallerReference can be any unique string, for example, a date/time stamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

DelegationSetId (p. 35)

If you want to associate a reusable delegation set with this hosted zone, the ID that Amazon Route 53 assigned to the reusable delegation set when you created it. For more information about reusable delegation sets, see [CreateReusableDelegationSet](#).

Type: String

Length Constraints: Maximum length of 32.

Required: No

HostedZoneConfig (p. 35)

(Optional) A complex type that contains the following optional values:

- For public and private hosted zones, an optional comment
- For private hosted zones, an optional PrivateZone element

If you don't specify a comment or the PrivateZone element, omit HostedZoneConfig and the other elements.

Type: [HostedZoneConfig \(p. 436\)](#) object

Required: No

Name (p. 35)

The name of the domain. Specify a fully qualified domain name, for example, *www.example.com*. The trailing dot is optional; Amazon Route 53 assumes that the domain name is fully qualified. This means that Route 53 treats *www.example.com* (without a trailing dot) and *www.example.com.* (with a trailing dot) as identical.

If you're creating a public hosted zone, this is the name you have registered with your DNS registrar. If your domain name is registered with a registrar other than Route 53, change the name servers for your domain to the set of NameServers that CreateHostedZone returns in DelegationSet.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

VPC (p. 35)

(Private hosted zones only) A complex type that contains information about the Amazon VPC that you're associating with this hosted zone.

You can specify only one Amazon VPC when you create a private hosted zone. To associate additional Amazon VPCs with the hosted zone, use [AssociateVPCWithHostedZone](#) after you create a hosted zone.

Type: [VPC \(p. 460\)](#) object

Required: No

Response Syntax

```
HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
  <HostedZone>
    <CallerReference>string</CallerReference>
    <Config>
      <Comment>string</Comment>
      <PrivateZone>boolean</PrivateZone>
    </Config>
    <Id>string</Id>
    <LinkedService>
      <Description>string</Description>
      <ServicePrincipal>string</ServicePrincipal>
    </LinkedService>
    <Name>string</Name>
    <ResourceRecordSetCount>long</ResourceRecordSetCount>
  </HostedZone>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</CreateHostedZoneResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

[Location \(p. 37\)](#)

The unique URL representing the new hosted zone.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateHostedZoneResponse (p. 37)

Root level tag for the CreateHostedZoneResponse parameters.

Required: Yes

ChangeInfo (p. 37)

A complex type that contains information about the CreateHostedZone request.

Type: [ChangeInfo \(p. 413\)](#) object

DelegationSet (p. 37)

A complex type that describes the name servers for this hosted zone.

Type: [DelegationSet \(p. 417\)](#) object

HostedZone (p. 37)

A complex type that contains general information about the hosted zone.

Type: [HostedZone \(p. 434\)](#) object

VPC (p. 37)

A complex type that contains information about an Amazon VPC that you associated with this hosted zone.

Type: [VPC \(p. 460\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConflictingDomainExists

The cause of this error depends on the operation that you're performing:

- **Create a public hosted zone:** Two hosted zones that have the same name or that have a parent/child relationship (example.com and test.example.com) can't have any common name servers. You tried to create a hosted zone that has the same name as an existing hosted zone or that's the parent or child of an existing hosted zone, and you specified a delegation set that shares one or more name servers with the existing hosted zone. For more information, see [CreateReusableDelegationSet](#).
- **Create a private hosted zone:** A hosted zone with the specified name already exists and is already associated with the Amazon VPC that you specified.
- **Associate VPCs with a private hosted zone:** The VPC that you specified is already associated with another hosted zone that has the same name.

HTTP Status Code: 400

DelegationSetNotAvailable

You can create a hosted zone that has the same name as an existing hosted zone (example.com is common), but there is a limit to the number of hosted zones that have the same name. If you get this error, Amazon Route 53 has reached that limit. If you own the domain name and Route 53 generates this error, contact Customer Support.

HTTP Status Code: 400

DelegationSetNotReusable

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

HostedZoneAlreadyExists

The hosted zone you're trying to create already exists. Amazon Route 53 returns this error when a hosted zone has already been created with the specified `CallerReference`.

HTTP Status Code: 409

InvalidDomainName

The specified domain name is not valid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

TooManyHostedZones

This operation can't be completed either because the current account has reached the limit on the number of hosted zones or because you've reached the limit on the number of hosted zones that can be associated with a reusable delegation set.

For information about default limits, see [Limits](#) in the *Amazon Route 53 Developer Guide*.

To get the current limit on hosted zones that can be created by an account, see [GetAccountLimit](#).

To get the current limit on hosted zones that can be associated with a reusable delegation set, see [GetReusableDelegationSetLimit](#).

To request a higher limit, [create a case](#) with the AWS Support Center.

HTTP Status Code: 400

Examples

Example Request (Public Hosted Zone)

```
POST /2013-04-01/hostedzone HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Name>example.com</Name>
  <CallerReference>myUniqueIdentifier</CallerReference>
  <HostedZoneConfig>
    <Comment>This is my first hosted zone.</Comment>
  </HostedZoneConfig>
  <DelegationSetId>NZ8X2CISAMPLE</DelegationSetId>
```

```
</CreateHostedZoneRequest>
```

Example Response (Public Hosted Zone)

```
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>myUniqueIdentifier</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>false</PrivateZone>
    </Config>
    <ResourceRecordSetCount>2</ResourceRecordSetCount>
  </HostedZone>
  <ChangeInfo>
    <Id>/change/C1PA6795UKMFR9</Id>
    <Status>PENDING</Status>
    <SubmittedAt>2017-03-15T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
  <DelegationSet>
    <Id>NZ8X2CISAMPLE</Id>
    <CallerReference>2017-03-01T11:44:14.448Z</Id>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</CreateHostedZoneResponse>
```

Example Request (Private Hosted Zone)

```
POST /2013-04-01/hostedzone HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Name>example.com</Name>
  <VPC>
    <VPCId>vpc-1a2b3c4d</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
  <CallerReference>myUniqueIdentifier</CallerReference>
  <HostedZoneConfig>
    <Comment>This is my first hosted zone.</Comment>
  </HostedZoneConfig>
</CreateHostedZoneRequest>
```

Example Response (Private Hosted Zone)

```
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZone>
    <Id>/hostedzone/Z1D633PJN98FT9</Id>
    <Name>example.com.</Name>
    <VPC>
      <VPCId>vpc-1a2b3c4d</VPCId>
      <VPCRegion>us-east-2</VPCRegion>
    </VPC>
  </HostedZone>
</CreateHostedZoneResponse>
```

```
</VPC>
<CallerReference>myUniqueIdentifier</CallerReference>
<Config>
  <Comment>This is my first hosted zone.</Comment>
  <PrivateZone>true</PrivateZone>
</Config>
<ResourceRecordSetCount>2</ResourceRecordSetCount>
</HostedZone>
<ChangeInfo>
  <Id>/change/C1PA6795UKMFR9</Id>
  <Status>PENDING</Status>
  <SubmittedAt>2017-03-15T01:36:41.958Z</SubmittedAt>
</ChangeInfo>
</CreateHostedZoneResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateQueryLoggingConfig

Service: Amazon Route 53

Creates a configuration for DNS query logging. After you create a query logging configuration, Amazon Route 53 begins to publish log data to an Amazon CloudWatch Logs log group.

DNS query logs contain information about the queries that Route 53 receives for a specified public hosted zone, such as the following:

- Route 53 edge location that responded to the DNS query
- Domain or subdomain that was requested
- DNS record type, such as A or AAAA
- DNS response code, such as `NoError` or `ServFail`

Log Group and Resource Policy

Before you create a query logging configuration, perform the following operations.

Note

If you create a query logging configuration using the Route 53 console, Route 53 performs these operations automatically.

1. Create a CloudWatch Logs log group, and make note of the ARN, which you specify when you create a query logging configuration. Note the following:
 - You must create the log group in the `us-east-1` region.
 - You must use the same AWS account to create the log group and the hosted zone that you want to configure query logging for.
 - When you create log groups for query logging, we recommend that you use a consistent prefix, for example:

```
/aws/route53/hosted zone name
```

In the next step, you'll create a resource policy, which controls access to one or more log groups and the associated AWS resources, such as Route 53 hosted zones. There's a limit on the number of resource policies that you can create, so we recommend that you use a consistent prefix so you can use the same resource policy for all the log groups that you create for query logging.

2. Create a CloudWatch Logs resource policy, and give it the permissions that Route 53 needs to create log streams and to send query logs to log streams. For the value of `Resource`, specify the ARN for the log group that you created in the previous step. To use the same resource policy for all the CloudWatch Logs log groups that you created for query logging configurations, replace the hosted zone name with `*`, for example:

```
arn:aws:logs:us-east-1:123412341234:log-group:/aws/route53/*
```

Note

You can't use the CloudWatch console to create or edit a resource policy. You must use the CloudWatch API, one of the AWS SDKs, or the AWS CLI.

Log Streams and Edge Locations

When Route 53 finishes creating the configuration for DNS query logging, it does the following:

- Creates a log stream for an edge location the first time that the edge location responds to DNS queries for the specified hosted zone. That log stream is used to log all queries that Route 53 responds to for that edge location.
- Begins to send query logs to the applicable log stream.

The name of each log stream is in the following format:

hosted zone ID/edge location code

The edge location code is a three-letter code and an arbitrarily assigned number, for example, DFW3. The three-letter code typically corresponds with the International Air Transport Association airport code for an airport near the edge location. (These abbreviations might change in the future.) For a list of edge locations, see "The Route 53 Global Network" on the [Route 53 Product Details](#) page.

Queries That Are Logged

Query logs contain only the queries that DNS resolvers forward to Route 53. If a DNS resolver has already cached the response to a query (such as the IP address for a load balancer for example.com), the resolver will continue to return the cached response. It doesn't forward another query to Route 53 until the TTL for the corresponding resource record set expires. Depending on how many DNS queries are submitted for a resource record set, and depending on the TTL for that resource record set, query logs might contain information about only one query out of every several thousand queries that are submitted to DNS. For more information about how DNS works, see [Routing Internet Traffic to Your Website or Web Application](#) in the *Amazon Route 53 Developer Guide*.

Log File Format

For a list of the values in each query log and the format of each value, see [Logging DNS Queries](#) in the *Amazon Route 53 Developer Guide*.

Pricing

For information about charges for query logs, see [Amazon CloudWatch Pricing](#).

How to Stop Logging

If you want Route 53 to stop sending query logs to CloudWatch Logs, delete the query logging configuration. For more information, see [DeleteQueryLoggingConfig](#).

Request Syntax

```
POST /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateQueryLoggingConfigRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CloudWatchLogsLogGroupArn>string</CloudWatchLogsLogGroupArn>
  <HostedZoneId>string</HostedZoneId>
</CreateQueryLoggingConfigRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateQueryLoggingConfigRequest (p. 43)

Root level tag for the CreateQueryLoggingConfigRequest parameters.

Required: Yes

CloudWatchLogsLogGroupArn (p. 43)

The Amazon Resource Name (ARN) for the log group that you want to Amazon Route 53 to send query logs to. This is the format of the ARN:

arn:aws:logs:region:account-id:log-group:log_group_name

To get the ARN for a log group, you can use the CloudWatch console, the [DescribeLogGroups](#) API action, the [describe-log-groups](#) command, or the applicable command in one of the AWS SDKs.

Type: String

Required: Yes

HostedZoneId (p. 43)

The ID of the hosted zone that you want to log queries for. You can log queries only for public hosted zones.

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

Response Syntax

```
HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateQueryLoggingConfigResponse>
  <QueryLoggingConfig>
    <CloudWatchLogsLogGroupArn>string</CloudWatchLogsLogGroupArn>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
  </QueryLoggingConfig>
</CreateQueryLoggingConfigResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 44)

The unique URL representing the new query logging configuration.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateQueryLoggingConfigResponse (p. 44)

Root level tag for the CreateQueryLoggingConfigResponse parameters.

Required: Yes

QueryLoggingConfig (p. 44)

A complex type that contains the ID for a query logging configuration, the ID of the hosted zone that you want to log queries for, and the ARN for the log group that you want Amazon Route 53 to send query logs to.

Type: [QueryLoggingConfig \(p. 439\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InsufficientCloudWatchLogsResourcePolicy

Amazon Route 53 doesn't have the permissions required to create log streams and send query logs to log streams. Possible causes include the following:

- There is no resource policy that specifies the log group ARN in the value for `Resource`.
- The resource policy that includes the log group ARN in the value for `Resource` doesn't have the necessary permissions.
- The resource policy hasn't finished propagating yet.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchCloudWatchLogsLogGroup

There is no CloudWatch Logs log group with the specified ARN.

HTTP Status Code: 404

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

QueryLoggingConfigAlreadyExists

You can create only one query logging configuration for a hosted zone, and a query logging configuration already exists for this hosted zone.

HTTP Status Code: 409

Examples

Example Request

The following request creates a configuration for the hosted zone `Z1D633PJN98FT9`. DNS query logs are sent to the log group with the ARN `arn:aws:logs:us-east-1:111111111111:log-group:example.com:*`.

```
POST /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateQueryLoggingConfigRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CloudWatchLogsLogGroupArn>arn:aws:logs:us-east-1:111111111111:log-group:/aws/route53/
example.com</CloudWatchLogsLogGroupArn>
  <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
```

```
</CreateQueryLoggingConfigRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<CreateQueryLoggingConfigResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <QueryLoggingConfig>
    <CloudWatchLogsLogGroupArn>arn:aws:logs:us-east-1:111111111111:log-group:/aws/
route53/example.com</CloudWatchLogsLogGroupArn>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
  </QueryLoggingConfig>
</CreateQueryLoggingConfigResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateReusableDelegationSet

Service: Amazon Route 53

Creates a delegation set (a group of four name servers) that can be reused by multiple hosted zones that were created by the same AWS account.

You can also create a reusable delegation set that uses the four name servers that are associated with an existing hosted zone. Specify the hosted zone ID in the `CreateReusableDelegationSet` request.

Note

You can't associate a reusable delegation set with a private hosted zone.

For information about using a reusable delegation set to configure white label name servers, see [Configuring White Label Name Servers](#).

The process for migrating existing hosted zones to use a reusable delegation set is comparable to the process for configuring white label name servers. You need to perform the following steps:

1. Create a reusable delegation set.
2. Recreate hosted zones, and reduce the TTL to 60 seconds or less.
3. Recreate resource record sets in the new hosted zones.
4. Change the registrar's name servers to use the name servers for the new hosted zones.
5. Monitor traffic for the website or application.
6. Change TTLs back to their original values.

If you want to migrate existing hosted zones to use a reusable delegation set, the existing hosted zones can't use any of the name servers that are assigned to the reusable delegation set. If one or more hosted zones do use one or more name servers that are assigned to the reusable delegation set, you can do one of the following:

- For small numbers of hosted zones—up to a few hundred—it's relatively easy to create reusable delegation sets until you get one that has four name servers that don't overlap with any of the name servers in your hosted zones.
- For larger numbers of hosted zones, the easiest solution is to use more than one reusable delegation set.
- For larger numbers of hosted zones, you can also migrate hosted zones that have overlapping name servers to hosted zones that don't have overlapping name servers, then migrate the hosted zones again to use the reusable delegation set.

Request Syntax

```
POST /2013-04-01/delegationset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateReusableDelegationSetRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>string</CallerReference>
  <HostedZoneId>string</HostedZoneId>
</CreateReusableDelegationSetRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateReusableDelegationSetRequest (p. 47)

Root level tag for the CreateReusableDelegationSetRequest parameters.

Required: Yes

CallerReference (p. 47)

A unique string that identifies the request, and that allows you to retry failed CreateReusableDelegationSet requests without the risk of executing the operation twice. You must use a unique CallerReference string every time you submit a CreateReusableDelegationSet request. CallerReference can be any unique string, for example a date/time stamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

HostedZoneId (p. 47)

If you want to mark the delegation set for an existing hosted zone as reusable, the ID for that hosted zone.

Type: String

Length Constraints: Maximum length of 32.

Required: No

Response Syntax

```
HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateReusableDelegationSetResponse>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
</CreateReusableDelegationSetResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 48)

The unique URL representing the new reusable delegation set.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateReusableDelegationSetResponse (p. 48)

Root level tag for the CreateReusableDelegationSetResponse parameters.

Required: Yes

DelegationSet (p. 48)

A complex type that contains name server information.

Type: [DelegationSet \(p. 417\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DelegationSetAlreadyCreated

A delegation set with the same owner and caller reference combination has already been created.

HTTP Status Code: 400

DelegationSetAlreadyReusable

The specified delegation set has already been marked as reusable.

HTTP Status Code: 400

DelegationSetNotAvailable

You can create a hosted zone that has the same name as an existing hosted zone (example.com is common), but there is a limit to the number of hosted zones that have the same name. If you get this error, Amazon Route 53 has reached that limit. If you own the domain name and Route 53 generates this error, contact Customer Support.

HTTP Status Code: 400

HostedZoneNotFound

The specified HostedZone can't be found.

HTTP Status Code: 400

InvalidArgument

Parameter name is invalid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

LimitsExceeded

This operation can't be completed either because the current account has reached the limit on reusable delegation sets that it can create or because you've reached the limit on the number of Amazon VPCs that you can associate with a private hosted zone. To get the current limit on the number of reusable delegation sets, see [GetAccountLimit](#). To get the current limit on the number of Amazon VPCs that you can associate with a private hosted zone, see [GetHostedZoneLimit](#). To request a higher limit, [create a case](#) with the AWS Support Center.

HTTP Status Code: 400

Examples

Example Request

```
POST /2013-04-01/delegationset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateReusableDelegationSetRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>2017-03-15T01:36:41.958Z</CallerReference>
  <HostedZoneId>Z1D633PEXAMPLE</HostedZoneId>
</CreateReusableDelegationSetRequest>
```

Example Response

```
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
<CreateReusableDelegationSetResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <DelegationSet>
    <Id>/delegationset/N1PA6795SAMPLE</Id>
    <CallerReference>2017-03-15T01:36:41.958Z</CallerReference>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</CreateReusableDelegationSetResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateTrafficPolicy

Service: Amazon Route 53

Creates a traffic policy, which you use to create multiple DNS resource record sets for one domain name (such as example.com) or one subdomain name (such as www.example.com).

Request Syntax

```
POST /2013-04-01/trafficpolicy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
  <Document>string</Document>
  <Name>string</Name>
</CreateTrafficPolicyRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateTrafficPolicyRequest (p. 51)

Root level tag for the CreateTrafficPolicyRequest parameters.

Required: Yes

Comment (p. 51)

(Optional) Any comments that you want to include about the traffic policy.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

Document (p. 51)

The definition of this traffic policy in JSON format. For more information, see [Traffic Policy Document Format](#).

Type: String

Length Constraints: Maximum length of 102400.

Required: Yes

Name (p. 51)

The name of the traffic policy.

Type: String

Length Constraints: Maximum length of 512.

Required: Yes

Response Syntax

```
HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyResponse>
  <TrafficPolicy>
    <Comment>string</Comment>
    <Document>string</Document>
    <Id>string</Id>
    <Name>string</Name>
    <Type>string</Type>
    <Version>integer</Version>
  </TrafficPolicy>
</CreateTrafficPolicyResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 52)

A unique URL that represents a new traffic policy.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateTrafficPolicyResponse (p. 52)

Root level tag for the CreateTrafficPolicyResponse parameters.

Required: Yes

TrafficPolicy (p. 52)

A complex type that contains settings for the new traffic policy.

Type: [TrafficPolicy \(p. 453\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidTrafficPolicyDocument

The format of the traffic policy document that you specified in the Document element is invalid.

HTTP Status Code: 400

TooManyTrafficPolicies

This traffic policy can't be created because the current account has reached the limit on the number of traffic policies.

For information about default limits, see [Limits](#) in the *Amazon Route 53 Developer Guide*.

To get the current limit for an account, see [GetAccountLimit](#).

To request a higher limit, [create a case](#) with the AWS Support Center.

HTTP Status Code: 400

TrafficPolicyAlreadyExists

A traffic policy that has the same value for `Name` already exists.

HTTP Status Code: 409

Examples

Example Request

```
POST /2013-04-01/trafficpolicy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Name>MyTrafficPolicy</Name>
  <Document>traffic policy definition in JSON format</Document>
  <Comment>First traffic policy</Comment>
</CreateTrafficPolicyRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicy>
    <Id>12345</Id>
    <Version>1</Version>
    <Name>MyTrafficPolicy</Name>
    <Type>A</Type>
    <Document>traffic policy definition in JSON format</Document>
    <Comment>First traffic policy</Comment>
  </TrafficPolicy>
</CreateTrafficPolicyResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateTrafficPolicyInstance

Service: Amazon Route 53

Creates resource record sets in a specified hosted zone based on the settings in a specified traffic policy version. In addition, `CreateTrafficPolicyInstance` associates the resource record sets with a specified domain name (such as `example.com`) or subdomain name (such as `www.example.com`). Amazon Route 53 responds to DNS queries for the domain or subdomain name by using the resource record sets that `CreateTrafficPolicyInstance` created.

Request Syntax

```
POST /2013-04-01/trafficpolicyinstance HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyInstanceRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZoneId>string</HostedZoneId>
  <Name>string</Name>
  <TrafficPolicyId>string</TrafficPolicyId>
  <TrafficPolicyVersion>integer</TrafficPolicyVersion>
  <TTL>long</TTL>
</CreateTrafficPolicyInstanceRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateTrafficPolicyInstanceRequest (p. 55)

Root level tag for the `CreateTrafficPolicyInstanceRequest` parameters.

Required: Yes

HostedZoneId (p. 55)

The ID of the hosted zone that you want Amazon Route 53 to create resource record sets in by using the configuration in a traffic policy.

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

Name (p. 55)

The domain name (such as `example.com`) or subdomain name (such as `www.example.com`) for which Amazon Route 53 responds to DNS queries by using the resource record sets that Route 53 creates for this traffic policy instance.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

TrafficPolicyId (p. 55)

The ID of the traffic policy that you want to use to create resource record sets in the specified hosted zone.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

[TrafficPolicyVersion \(p. 55\)](#)

The version of the traffic policy that you want to use to create resource record sets in the specified hosted zone.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

[TTL \(p. 55\)](#)

(Optional) The TTL that you want Amazon Route 53 to assign to all of the resource record sets that it creates in the specified hosted zone.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: Yes

Response Syntax

```
HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyInstanceResponse>
  <TrafficPolicyInstance>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
    <Message>string</Message>
    <Name>string</Name>
    <State>string</State>
    <TrafficPolicyId>string</TrafficPolicyId>
    <TrafficPolicyType>string</TrafficPolicyType>
    <TrafficPolicyVersion>integer</TrafficPolicyVersion>
    <TTL>long</TTL>
  </TrafficPolicyInstance>
</CreateTrafficPolicyInstanceResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

[Location \(p. 56\)](#)

A unique URL that represents a new traffic policy instance.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateTrafficPolicyInstanceResponse (p. 56)

Root level tag for the CreateTrafficPolicyInstanceResponse parameters.

Required: Yes

TrafficPolicyInstance (p. 56)

A complex type that contains settings for the new traffic policy instance.

Type: [TrafficPolicyInstance \(p. 455\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

TooManyTrafficPolicyInstances

This traffic policy instance can't be created because the current account has reached the limit on the number of traffic policy instances.

For information about default limits, see [Limits](#) in the *Amazon Route 53 Developer Guide*.

For information about how to get the current limit for an account, see [GetAccountLimit](#).

To request a higher limit, [create a case](#) with the AWS Support Center.

HTTP Status Code: 400

TrafficPolicyInstanceAlreadyExists

There is already a traffic policy instance with the specified ID.

HTTP Status Code: 409

Examples

Example Request

```
POST /2013-04-01/trafficpolicyinstance HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyInstanceRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
  <Name>www.example.com</Name>
```

```
<TTL>300</TTL>
<TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
<TrafficPolicyVersion>3</TrafficPolicyVersion>
</CreateTrafficPolicyInstanceRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyInstanceResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicyInstance>
    <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <Name>www.example.com</Name>
    <TTL>300</TTL>
    <State>Applied</State>
    <Message/>
    <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
    <TrafficPolicyVersion>3</TrafficPolicyVersion>
    <TrafficPolicyType>A</TrafficPolicyType>
  </TrafficPolicyInstance>
</CreateTrafficPolicyInstanceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateTrafficPolicyVersion

Service: Amazon Route 53

Creates a new version of an existing traffic policy. When you create a new version of a traffic policy, you specify the ID of the traffic policy that you want to update and a JSON-formatted document that describes the new version. You use traffic policies to create multiple DNS resource record sets for one domain name (such as example.com) or one subdomain name (such as www.example.com). You can create a maximum of 1000 versions of a traffic policy. If you reach the limit and need to create another version, you'll need to start a new traffic policy.

Request Syntax

```
POST /2013-04-01/trafficpolicy/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyVersionRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
  <Document>string</Document>
</CreateTrafficPolicyVersionRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 59)

The ID of the traffic policy for which you want to create a new version.

Length Constraints: Minimum length of 1. Maximum length of 36.

Request Body

The request accepts the following data in XML format.

CreateTrafficPolicyVersionRequest (p. 59)

Root level tag for the CreateTrafficPolicyVersionRequest parameters.

Required: Yes

Comment (p. 59)

The comment that you specified in the CreateTrafficPolicyVersion request, if any.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

Document (p. 59)

The definition of this version of the traffic policy, in JSON format. You specified the JSON in the CreateTrafficPolicyVersion request. For more information about the JSON format, see [CreateTrafficPolicy](#).

Type: String

Length Constraints: Maximum length of 102400.

Required: Yes

Response Syntax

```
HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyVersionResponse>
  <TrafficPolicy>
    <Comment>string</Comment>
    <Document>string</Document>
    <Id>string</Id>
    <Name>string</Name>
    <Type>string</Type>
    <Version>integer</Version>
  </TrafficPolicy>
</CreateTrafficPolicyVersionResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 60)

A unique URL that represents a new traffic policy version.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateTrafficPolicyVersionResponse (p. 60)

Root level tag for the CreateTrafficPolicyVersionResponse parameters.

Required: Yes

TrafficPolicy (p. 60)

A complex type that contains settings for the new version of the traffic policy.

Type: [TrafficPolicy \(p. 453\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidTrafficPolicyDocument

The format of the traffic policy document that you specified in the `Document` element is invalid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

TooManyTrafficPolicyVersionsForCurrentPolicy

This traffic policy version can't be created because you've reached the limit of 1000 on the number of versions that you can create for the current traffic policy.

To create more traffic policy versions, you can use [GetTrafficPolicy](#) to get the traffic policy document for a specified traffic policy version, and then use [CreateTrafficPolicy](#) to create a new traffic policy using the traffic policy document.

HTTP Status Code: 400

Examples

Example Request

```
POST /2013-04-01/trafficpolicy/traffic policy ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyVersionRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Document>updated traffic policy definition in JSON format</Document>
  <Comment>Added us-east-2 region to traffic policy</Comment>
</CreateTrafficPolicyVersionRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyVersionResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicy>
    <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
    <Version>2</Version>
    <Name>MyTrafficPolicy</Name>
    <Type>A</Type>
    <Document>updated traffic policy definition in JSON format</Document>
    <Comment>Added us-east-2 region to traffic policy</Comment>
  </TrafficPolicy>
</CreateTrafficPolicyVersionResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateVPCAssociationAuthorization

Service: Amazon Route 53

Authorizes the AWS account that created a specified VPC to submit an AssociateVPCWithHostedZone request to associate the VPC with a specified hosted zone that was created by a different account. To submit a CreateVPCAssociationAuthorization request, you must use the account that created the hosted zone. After you authorize the association, use the account that created the VPC to submit an AssociateVPCWithHostedZone request.

Note

If you want to associate multiple VPCs that you created by using one account with a hosted zone that you created by using a different account, you must submit one authorization request for each VPC.

Request Syntax

```
POST /2013-04-01/hostedzone/Id/authorizevpcassociation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateVPCAssociationAuthorizationRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 63)

The ID of the private hosted zone that you want to authorize associating a VPC with.

Length Constraints: Maximum length of 32.

Request Body

The request accepts the following data in XML format.

CreateVPCAssociationAuthorizationRequest (p. 63)

Root level tag for the CreateVPCAssociationAuthorizationRequest parameters.

Required: Yes

VPC (p. 63)

A complex type that contains the VPC ID and region for the VPC that you want to authorize associating with your hosted zone.

Type: [VPC \(p. 460\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateVPCAssociationAuthorizationResponse>
  <HostedZoneId>string</HostedZoneId>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

CreateVPCAssociationAuthorizationResponse (p. 63)

Root level tag for the CreateVPCAssociationAuthorizationResponse parameters.

Required: Yes

HostedZoneId (p. 63)

The ID of the hosted zone that you authorized associating a VPC with.

Type: String

Length Constraints: Maximum length of 32.

VPC (p. 63)

The VPC that you authorized associating with a hosted zone.

Type: [VPC \(p. 460\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

TooManyVPCAssociationAuthorizations

You've created the maximum number of authorizations that can be created for the specified hosted zone. To authorize another VPC to be associated with the hosted zone, submit a `DeleteVPCAssociationAuthorization` request to remove an existing authorization. To get a list of existing authorizations, submit a `ListVPCAssociationAuthorizations` request.

HTTP Status Code: 400

Examples

Example request

```
POST /2013-04-01/hostedzone/Z1PA6795UKMFR9/authorizevpcassociation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateVPCAssociationAuthorizationRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationRequest>
```

Example Response

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CreateVPCAssociationAuthorizationResponse>
  <HostedZoneId>Z1PA6795UKMFR9</HostedZoneId>
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteHealthCheck

Service: Amazon Route 53

Deletes a health check.

Important

Amazon Route 53 does not prevent you from deleting a health check even if the health check is associated with one or more resource record sets. If you delete a health check and you don't update the associated resource record sets, the future status of the health check can't be predicted and may change. This will affect the routing of DNS queries for your DNS failover configuration. For more information, see [Replacing and Deleting Health Checks](#) in the *Amazon Route 53 Developer Guide*.

If you're using AWS Cloud Map and you configured Cloud Map to create a Route 53 health check when you register an instance, you can't use the Route 53 `DeleteHealthCheck` command to delete the health check. The health check is deleted automatically when you deregister the instance; there can be a delay of several hours before the health check is deleted from Route 53.

Request Syntax

```
DELETE /2013-04-01/healthcheck/HealthCheckId HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

HealthCheckId (p. 66)

The ID of the health check that you want to delete.

Length Constraints: Maximum length of 64.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

HealthCheckInUse

This error has been deprecated.

This error code is not in use.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
DELETE /2013-04-01/healthcheck/abcdef11-2222-3333-4444-555555fedcba
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<DeleteHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
</DeleteHealthCheckResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteHostedZone

Service: Amazon Route 53

Deletes a hosted zone.

If the hosted zone was created by another service, such as AWS Cloud Map, see [Deleting Public Hosted Zones That Were Created by Another Service](#) in the *Amazon Route 53 Developer Guide* for information about how to delete it. (The process is the same for public and private hosted zones that were created by another service.)

If you want to keep your domain registration but you want to stop routing internet traffic to your website or web application, we recommend that you delete resource record sets in the hosted zone instead of deleting the hosted zone.

Important

If you delete a hosted zone, you can't undelete it. You must create a new hosted zone and update the name servers for your domain registration, which can require up to 48 hours to take effect. (If you delegated responsibility for a subdomain to a hosted zone and you delete the child hosted zone, you must update the name servers in the parent hosted zone.) In addition, if you delete a hosted zone, someone could hijack the domain and route traffic to their own resources using your domain name.

If you want to avoid the monthly charge for the hosted zone, you can transfer DNS service for the domain to a free DNS service. When you transfer DNS service, you have to update the name servers for the domain registration. If the domain is registered with Route 53, see [UpdateDomainNameservers](#) for information about how to replace Route 53 name servers with name servers for the new DNS service. If the domain is registered with another registrar, use the method provided by the registrar to update name servers for the domain registration. For more information, perform an internet search on "free DNS service."

You can delete a hosted zone only if it contains only the default SOA record and NS resource record sets. If the hosted zone contains other resource record sets, you must delete them before you can delete the hosted zone. If you try to delete a hosted zone that contains other resource record sets, the request fails, and Route 53 returns a `HostedZoneNotEmpty` error. For information about deleting records from your hosted zone, see [ChangeResourceRecordSets](#).

To verify that the hosted zone has been deleted, do one of the following:

- Use the `GetHostedZone` action to request information about the hosted zone.
- Use the `ListHostedZones` action to get a list of the hosted zones associated with the current AWS account.

Request Syntax

```
DELETE /2013-04-01/hostedzone/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 68)

The ID of the hosted zone you want to delete.

Length Constraints: Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DeleteHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</DeleteHostedZoneResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

DeleteHostedZoneResponse (p. 69)

Root level tag for the DeleteHostedZoneResponse parameters.

Required: Yes

ChangeInfo (p. 69)

A complex type that contains the ID, the status, and the date and time of a request to delete a hosted zone.

Type: [ChangeInfo](#) (p. 413) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

HostedZoneNotEmpty

The hosted zone contains resource records that are not SOA or NS records.

HTTP Status Code: 400

InvalidDomainName

The specified domain name is not valid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an `HTTP 400 error (Bad request)`. If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Example Request

```
DELETE /2013-04-01/hostedzone/Z1PA6795UKMFR9
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<DeleteHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeInfo>
    <Id>/change/C1PA6795UKMFR9</Id>
    <Status>PENDING</Status>
    <SubmittedAt>2017-03-10T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</DeleteHostedZoneResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteQueryLoggingConfig

Service: Amazon Route 53

Deletes a configuration for DNS query logging. If you delete a configuration, Amazon Route 53 stops sending query logs to CloudWatch Logs. Route 53 doesn't delete any logs that are already in CloudWatch Logs.

For more information about DNS query logs, see [CreateQueryLoggingConfig](#).

Request Syntax

```
DELETE /2013-04-01/queryloggingconfig/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 71)

The ID of the configuration that you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 36.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchQueryLoggingConfig

There is no DNS query logging configuration with the specified ID.

HTTP Status Code: 404

Examples

Example Request

The following request deletes the configuration with the ID 87654321-dcba-1234-abcd-1a2b3c4d5e6f.

```
DELETE /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DeleteQueryLoggingConfigRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
</DeleteQueryLoggingConfigRequest>
```

Example Response

```
HTTP/1.1 200 OK
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteReusableDelegationSet

Service: Amazon Route 53

Deletes a reusable delegation set.

Important

You can delete a reusable delegation set only if it isn't associated with any hosted zones.

To verify that the reusable delegation set is not associated with any hosted zones, submit a [GetReusableDelegationSet](#) request and specify the ID of the reusable delegation set that you want to delete.

Request Syntax

```
DELETE /2013-04-01/delegationset/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 73)

The ID of the reusable delegation set that you want to delete.

Length Constraints: Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DelegationSetInUse

The specified delegation contains associated hosted zones which must be deleted before the reusable delegation set can be deleted.

HTTP Status Code: 400

DelegationSetNotReusable

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

Examples

Example Request

```
DELETE /2013-04-01/delegationset/N1PA6795SAMPLE
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<DeleteReusableDelegationSetResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/" />
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteTrafficPolicy

Service: Amazon Route 53

Deletes a traffic policy.

Request Syntax

```
DELETE /2013-04-01/trafficpolicy/Id/Version HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 75)

The ID of the traffic policy that you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 36.

Version (p. 75)

The version number of the traffic policy that you want to delete.

Valid Range: Minimum value of 1. Maximum value of 1000.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

TrafficPolicyInUse

One or more traffic policy instances were created by using the specified traffic policy.

HTTP Status Code: 400

Examples

Example Request

```
DELETE /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/2
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<DeleteTrafficPolicyResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
</DeleteTrafficPolicyResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteTrafficPolicyInstance

Service: Amazon Route 53

Deletes a traffic policy instance and all of the resource record sets that Amazon Route 53 created when you created the instance.

Note

In the Route 53 console, traffic policy instances are known as policy records.

Request Syntax

```
DELETE /2013-04-01/trafficpolicyinstance/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 77)

The ID of the traffic policy instance that you want to delete.

Important

When you delete a traffic policy instance, Amazon Route 53 also deletes all of the resource record sets that were created when you created the traffic policy instance.

Length Constraints: Minimum length of 1. Maximum length of 36.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an `HTTP 400 error (Bad request)`. If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Example Request

```
DELETE /2013-04-01/trafficpolicyinstance/12131415-abac-5432-caba-6f5e4d3c2b1a
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<DeleteTrafficPolicyInstanceResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
</DeleteTrafficPolicyInstanceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteVPCAssociationAuthorization

Service: Amazon Route 53

Removes authorization to submit an `AssociateVPCWithHostedZone` request to associate a specified VPC with a hosted zone that was created by a different account. You must use the account that created the hosted zone to submit a `DeleteVPCAssociationAuthorization` request.

Important

Sending this request only prevents the AWS account that created the VPC from associating the VPC with the Amazon Route 53 hosted zone in the future. If the VPC is already associated with the hosted zone, `DeleteVPCAssociationAuthorization` won't disassociate the VPC from the hosted zone. If you want to delete an existing association, use `DisassociateVPCFromHostedZone`.

Request Syntax

```
POST /2013-04-01/hostedzone/Id/deauthorizevpcassociation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DeleteVPCAssociationAuthorizationRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</DeleteVPCAssociationAuthorizationRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 79)

When removing authorization to associate a VPC that was created by one AWS account with a hosted zone that was created with a different AWS account, the ID of the hosted zone.

Length Constraints: Maximum length of 32.

Request Body

The request accepts the following data in XML format.

DeleteVPCAssociationAuthorizationRequest (p. 79)

Root level tag for the `DeleteVPCAssociationAuthorizationRequest` parameters.

Required: Yes

VPC (p. 79)

When removing authorization to associate a VPC that was created by one AWS account with a hosted zone that was created with a different AWS account, a complex type that includes the ID and region of the VPC.

Type: [VPC \(p. 460\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

VPCAssociationAuthorizationNotFound

The VPC that you specified is not authorized to be associated with the hosted zone.

HTTP Status Code: 404

Examples

Example Request

```
POST /2013-04-01/hostedzone/Z1PA6795UKMFR9/deauthorizevpcassociation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DeleteVPCAssociationAuthorizationRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</DeleteVPCAssociationAuthorizationRequest>
```

Example Response

HTTP/1.1 200

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateVPCFromHostedZone

Service: Amazon Route 53

Disassociates a VPC from a Amazon Route 53 private hosted zone. Note the following:

- You can't disassociate the last VPC from a private hosted zone.
- You can't convert a private hosted zone into a public hosted zone.
- You can submit a `DisassociateVPCFromHostedZone` request using either the account that created the hosted zone or the account that created the VPC.

Request Syntax

```
POST /2013-04-01/hostedzone/Id/disassociatevpc HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DisassociateVPCFromHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</DisassociateVPCFromHostedZoneRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 82)

The ID of the private hosted zone that you want to disassociate a VPC from.

Length Constraints: Maximum length of 32.

Request Body

The request accepts the following data in XML format.

DisassociateVPCFromHostedZoneRequest (p. 82)

Root level tag for the `DisassociateVPCFromHostedZoneRequest` parameters.

Required: Yes

Comment (p. 82)

Optional: A comment about the disassociation request.

Type: String

Required: No

VPC (p. 82)

A complex type that contains information about the VPC that you're disassociating from the specified hosted zone.

Type: [VPC \(p. 460\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DisassociateVPCFromHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</DisassociateVPCFromHostedZoneResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

DisassociateVPCFromHostedZoneResponse (p. 83)

Root level tag for the DisassociateVPCFromHostedZoneResponse parameters.

Required: Yes

ChangeInfo (p. 83)

A complex type that describes the changes made to the specified private hosted zone.

Type: [ChangeInfo \(p. 413\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400

LastVPCAssociation

The VPC that you're trying to disassociate from the private hosted zone is the last VPC that is associated with the hosted zone. Amazon Route 53 doesn't support disassociating the last VPC from a hosted zone.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

VPCAssociationNotFound

The specified VPC and hosted zone are not currently associated.

HTTP Status Code: 404

Examples

Example Request

```
POST /2013-04-01/hostedzone/Z1PA6795UKMFR9/disassociatevpc HTTP/1.1
<?xml version="1.0"?>
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</DisassociateVPCFromHostedZoneRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<DisassociateVPCFromHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeInfo>
    <Id>/change/a1b2c3d4</Id>
    <Status>INSYNC</Status>
    <SubmittedAt>2017-03-31T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</DisassociateVPCFromHostedZoneResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetAccountLimit

Service: Amazon Route 53

Gets the specified limit for the current account, for example, the maximum number of health checks that you can create using the account.

For the default limit, see [Limits](#) in the *Amazon Route 53 Developer Guide*. To request a higher limit, [open a case](#).

Note

You can also view account limits in AWS Trusted Advisor. Sign in to the AWS Management Console and open the Trusted Advisor console at <https://console.aws.amazon.com/trustedadvisor/>. Then choose **Service limits** in the navigation pane.

Request Syntax

```
GET /2013-04-01/accountlimit/Type HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Type (p. 85)

The limit that you want to get. Valid values include the following:

- **MAX_HEALTH_CHECKS_BY_OWNER**: The maximum number of health checks that you can create using the current account.
- **MAX_HOSTED_ZONES_BY_OWNER**: The maximum number of hosted zones that you can create using the current account.
- **MAX_REUSABLE_DELEGATION_SETS_BY_OWNER**: The maximum number of reusable delegation sets that you can create using the current account.
- **MAX_TRAFFIC_POLICIES_BY_OWNER**: The maximum number of traffic policies that you can create using the current account.
- **MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER**: The maximum number of traffic policy instances that you can create using the current account. (Traffic policy instances are referred to as traffic flow policy records in the Amazon Route 53 console.)

Valid Values: MAX_HEALTH_CHECKS_BY_OWNER | MAX_HOSTED_ZONES_BY_OWNER
| MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER |
MAX_REUSABLE_DELEGATION_SETS_BY_OWNER | MAX_TRAFFIC_POLICIES_BY_OWNER

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetAccountLimitResponse>
  <Count>long</Count>
  <Limit>
    <Type>string</Type>
    <Value>long</Value>
```

```
</Limit>  
</GetAccountLimitResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetAccountLimitResponse (p. 85)

Root level tag for the GetAccountLimitResponse parameters.

Required: Yes

Count (p. 85)

The current number of entities that you have created of the specified type. For example, if you specified `MAX_HEALTH_CHECKS_BY_OWNER` for the value of `Type` in the request, the value of `Count` is the current number of health checks that you have created using the current account.

Type: Long

Valid Range: Minimum value of 0.

Limit (p. 85)

The current setting for the specified limit. For example, if you specified `MAX_HEALTH_CHECKS_BY_OWNER` for the value of `Type` in the request, the value of `Limit` is the maximum number of health checks that you can create using the current account.

Type: [AccountLimit](#) (p. 404) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetChange

Service: Amazon Route 53

Returns the current status of a change batch request. The status is one of the following values:

- `PENDING` indicates that the changes in this request have not propagated to all Amazon Route 53 DNS servers. This is the initial status of all change batch requests.
- `INSYNC` indicates that the changes have propagated to all Route 53 DNS servers.

Request Syntax

```
GET /2013-04-01/change/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 88)

The ID of the change batch request. The value that you specify here is the value that `ChangeResourceRecordSets` returned in the `Id` element when you submitted the request.

Length Constraints: Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetChangeResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</GetChangeResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetChangeResponse (p. 88)

Root level tag for the `GetChangeResponse` parameters.

Required: Yes

ChangeInfo (p. 88)

A complex type that contains information about the specified change batch.

Type: [ChangeInfo](#) (p. 413) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchChange

A change with the specified change ID does not exist.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/change/C2682N5HXP0BZ4
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetChangeResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeInfo>
    <Id>C2682N5HXP0BZ4</Id>
    <Status>INSYNC</Status>
    <SubmittedAt>2017-03-10T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</GetChangeResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetCheckerIpRanges

Service: Amazon Route 53

Important

`GetCheckerIpRanges` still works, but we recommend that you download `ip-ranges.json`, which includes IP address ranges for all AWS services. For more information, see [IP Address Ranges of Amazon Route 53 Servers](#) in the *Amazon Route 53 Developer Guide*.

Request Syntax

```
GET /2013-04-01/checkeripranges HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetCheckerIpRangesResponse>
  <CheckerIpRanges>
    <INVALID-TYPE-NAME>string</INVALID-TYPE-NAME>
  </CheckerIpRanges>
</GetCheckerIpRangesResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

[GetCheckerIpRangesResponse \(p. 90\)](#)

Root level tag for the `GetCheckerIpRangesResponse` parameters.

Required: Yes

[CheckerIpRanges \(p. 90\)](#)

A complex type that contains sorted list of IP ranges in CIDR format for Amazon Route 53 health checkers.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetGeoLocation

Service: Amazon Route 53

Gets information about whether a specified geographic location is supported for Amazon Route 53 geolocation resource record sets.

Use the following syntax to determine whether a continent is supported for geolocation:

```
GET /2013-04-01/geolocation?continentcode=two-letter abbreviation for a continent
```

Use the following syntax to determine whether a country is supported for geolocation:

```
GET /2013-04-01/geolocation?countrycode=two-character country code
```

Use the following syntax to determine whether a subdivision of a country is supported for geolocation:

```
GET /2013-04-01/geolocation?countrycode=two-character country code&subdivisioncode=subdivision code
```

Request Syntax

```
GET /2013-04-01/geolocation?  
continentcode=ContinentCode&countrycode=CountryCode&subdivisioncode=SubdivisionCode  
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

continentcode (p. 92)

For geolocation resource record sets, a two-letter abbreviation that identifies a continent. Amazon Route 53 supports the following continent codes:

- **AF**: Africa
- **AN**: Antarctica
- **AS**: Asia
- **EU**: Europe
- **OC**: Oceania
- **NA**: North America
- **SA**: South America

Length Constraints: Fixed length of 2.

countrycode (p. 92)

Amazon Route 53 uses the two-letter country codes that are specified in [ISO standard 3166-1 alpha-2](#).

Length Constraints: Minimum length of 1. Maximum length of 2.

subdivisioncode (p. 92)

For SubdivisionCode, Amazon Route 53 supports only states of the United States. For a list of state abbreviations, see [Appendix B: Two-Letter State and Possession Abbreviations](#) on the United States Postal Service website.

If you specify `subdivisioncode`, you must also specify `US` for `CountryCode`.

Length Constraints: Minimum length of 1. Maximum length of 3.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetGeoLocationResponse>
  <GeoLocationDetails>
    <ContinentCode>string</ContinentCode>
    <ContinentName>string</ContinentName>
    <CountryCode>string</CountryCode>
    <CountryName>string</CountryName>
    <SubdivisionCode>string</SubdivisionCode>
    <SubdivisionName>string</SubdivisionName>
  </GeoLocationDetails>
</GetGeoLocationResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetGeoLocationResponse (p. 93)

Root level tag for the `GetGeoLocationResponse` parameters.

Required: Yes

GeoLocationDetails (p. 93)

A complex type that contains the codes and full continent, country, and subdivision names for the specified geolocation code.

Type: [GeoLocationDetails](#) (p. 421) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchGeoLocation

Amazon Route 53 doesn't support the specified geographic location. For a list of supported geolocation codes, see the [GeoLocation](#) data type.

HTTP Status Code: 404

Examples

Example Request

To determine whether France (FR) is supported for Route 53 geolocation, submit the following request.

```
GET /2013-04-01/geolocation?countrycode=FR
```

Example Response

The following response shows that France is supported for geolocation. If France were not supported, Route 53 would return `NoSuchGeoLocation`.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetGeoLocationResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <GetGeoLocationDetails>
    <CountryCode>FR</CountryCode>
    <CountryName>France</CountryName>
  </GetGeoLocationDetails>
</GetGeoLocationResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetHealthCheck

Service: Amazon Route 53

Gets information about a specified health check.

Request Syntax

```
GET /2013-04-01/healthcheck/HealthCheckId HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

HealthCheckId (p. 95)

The identifier that Amazon Route 53 assigned to the health check when you created it. When you add or update a resource record set, you use this value to specify which health check to use. The value can be up to 64 characters long.

Length Constraints: Maximum length of 64.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckResponse>
  <HealthCheck>
    <CallerReference>string</CallerReference>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>string</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>string</Name>
          <Value>string</Value>
        </Dimension>
      </Dimensions>
      <EvaluationPeriods>integer</EvaluationPeriods>
      <MetricName>string</MetricName>
      <Namespace>string</Namespace>
      <Period>integer</Period>
      <Statistic>string</Statistic>
      <Threshold>double</Threshold>
    </CloudWatchAlarmConfiguration>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>string</Name>
        <Region>string</Region>
      </AlarmIdentifier>
      <ChildHealthChecks>
        <ChildHealthCheck>string</ChildHealthCheck>
      </ChildHealthChecks>
      <Disabled>boolean</Disabled>
      <EnableSNI>boolean</EnableSNI>
      <FailureThreshold>integer</FailureThreshold>
```

```
<FullyQualifiedDomainName>string</FullyQualifiedDomainName>
<HealthThreshold>integer</HealthThreshold>
<InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
<Inverted>boolean</Inverted>
<IPAddress>string</IPAddress>
<MeasureLatency>boolean</MeasureLatency>
<Port>integer</Port>
<Regions>
  <Region>string</Region>
</Regions>
<RequestInterval>integer</RequestInterval>
<ResourcePath>string</ResourcePath>
<SearchString>string</SearchString>
<Type>string</Type>
</HealthCheckConfig>
<HealthCheckVersion>long</HealthCheckVersion>
<Id>string</Id>
<LinkedService>
  <Description>string</Description>
  <ServicePrincipal>string</ServicePrincipal>
</LinkedService>
</HealthCheck>
</GetHealthCheckResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHealthCheckResponse (p. 95)

Root level tag for the GetHealthCheckResponse parameters.

Required: Yes

HealthCheck (p. 95)

A complex type that contains information about one health check that is associated with the current AWS account.

Type: [HealthCheck \(p. 423\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

IncompatibleVersion

The resource you're trying to access is unsupported on this Amazon Route 53 endpoint.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/healthcheck/018927304987
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheck>
    <Id>abcdef11-2222-3333-4444-555555fedcba</Id>
    <CallerReference>example.com 192.0.2.17</CallerReference>
    <HealthCheckConfig>
      <IPAddress>192.0.2.17</IPAddress>
      <Port>80</Port>
      <Type>HTTP</Type>
      <ResourcePath>/docs/route-53-health-check.html</ResourcePath>
      <FullyQualifiedDomainName>example.com</FullyQualifiedDomainName>
      <RequestInterval>30</RequestInterval>
      <FailureThreshold>3</FailureThreshold>
      <MeasureLatency>true</MeasureLatency>
      <EnableSNI>true</EnableSNI>
      <Regions>
        <Region>ap-southeast-1</Region>
        <Region>ap-southeast-2</Region>
        <Region>ap-northeast-1</Region>
      </Regions>
      <Inverted>false</Inverted>
    </HealthCheckConfig>
    <HealthCheckVersion>2</HealthCheckVersion>
  </HealthCheck>
</GetHealthCheckResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetHealthCheckCount

Service: Amazon Route 53

Retrieves the number of health checks that are associated with the current AWS account.

Request Syntax

```
GET /2013-04-01/healthcheckcount HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckCountResponse>
  <HealthCheckCount>Long</HealthCheckCount>
</GetHealthCheckCountResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

[GetHealthCheckCountResponse \(p. 98\)](#)

Root level tag for the GetHealthCheckCountResponse parameters.

Required: Yes

[HealthCheckCount \(p. 98\)](#)

The number of health checks associated with the current AWS account.

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

Examples

Example Request

```
GET /2013-04-01/healthcheckcount
```


Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckCountResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheckCount>42</HealthCheckCount>
</GetHealthCheckCountResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetHealthCheckLastFailureReason

Service: Amazon Route 53

Gets the reason that a specified health check failed most recently.

Request Syntax

```
GET /2013-04-01/healthcheck/HealthCheckId/lastfailurereason HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

HealthCheckId (p. 100)

The ID for the health check for which you want the last failure reason. When you created the health check, `CreateHealthCheck` returned the ID in the response, in the `HealthCheckId` element.

Note

If you want to get the last failure reason for a calculated health check, you must use the Amazon Route 53 console or the CloudWatch console. You can't use `GetHealthCheckLastFailureReason` for a calculated health check.

Length Constraints: Maximum length of 64.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckLastFailureReasonResponse>
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>string</IPAddress>
      <Region>string</Region>
      <StatusReport>
        <CheckedTime>timestamp</CheckedTime>
        <Status>string</Status>
      </StatusReport>
    </HealthCheckObservation>
  </HealthCheckObservations>
</GetHealthCheckLastFailureReasonResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHealthCheckLastFailureReasonResponse (p. 100)

Root level tag for the `GetHealthCheckLastFailureReasonResponse` parameters.

Required: Yes

HealthCheckObservations (p. 100)

A list that contains one `Observation` element for each Amazon Route 53 health checker that is reporting a last failure reason.

Type: Array of [HealthCheckObservation \(p. 432\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/healthcheck/018927304987/lastfailurereason
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckLastFailureReasonResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>192.0.2.197</IPAddress>
      <StatusReport>
        <Status>Failure: The health checker could not establish a connection within the
timeout limit.</Status>
        <CheckedTime>2014-10-25T23:51:20.603Z</CheckedTime>
      </StatusReport>
    </HealthCheckObservation>
    <HealthCheckObservation>
      <IPAddress>192.0.2.226</IPAddress>
      <StatusReport>
        <Status>The health check endpoint has not failed since the Route 53 health
checker for this endpoint restarted at 2014-10-24T02:55:12.106+00:00</Status>
        <CheckedTime>2014-10-24T03:02:48.809Z</CheckedTime>
      </StatusReport>
    </HealthCheckObservation>
    ...
  </HealthCheckObservations>
</GetHealthCheckLastFailureReasonResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetHealthCheckStatus

Service: Amazon Route 53

Gets status of a specified health check.

Request Syntax

```
GET /2013-04-01/healthcheck/HealthCheckId/status HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

HealthCheckId (p. 103)

The ID for the health check that you want the current status for. When you created the health check, `CreateHealthCheck` returned the ID in the response, in the `HealthCheckId` element.

Note

If you want to check the status of a calculated health check, you must use the Amazon Route 53 console or the CloudWatch console. You can't use `GetHealthCheckStatus` to get the status of a calculated health check.

Length Constraints: Maximum length of 64.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckStatusResponse>
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>string</IPAddress>
      <Region>string</Region>
      <StatusReport>
        <CheckedTime>timestamp</CheckedTime>
        <Status>string</Status>
      </StatusReport>
    </HealthCheckObservation>
  </HealthCheckObservations>
</GetHealthCheckStatusResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHealthCheckStatusResponse (p. 103)

Root level tag for the `GetHealthCheckStatusResponse` parameters.

Required: Yes

HealthCheckObservations (p. 103)

A list that contains one `HealthCheckObservation` element for each Amazon Route 53 health checker that is reporting a status about the health check endpoint.

Type: Array of [HealthCheckObservation \(p. 432\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/healthcheck/018927304987/status
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckStatusResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>192.0.2.226</IPAddress>
      <Region>us-east-2</Region>
      <StatusReport>
        <Status>Success: HTTP Status Code: 200. Resolved IP: 192.0.2.2. OK</Status>
        <CheckedTime>2014-10-27T17:48:25.038Z</CheckedTime>
      </StatusReport>
    </HealthCheckObservation>
    <HealthCheckObservation>
      <IPAddress>192.0.2.56</IPAddress>
      <Region>us-west-1</Region>
      <StatusReport>
        <Status>Success: HTTP Status Code: 200. Resolved IP: 192.0.2.14. OK</Status>
        <CheckedTime>2014-10-27T17:48:16.751Z</CheckedTime>
      </StatusReport>
    </HealthCheckObservation>
    ...
  </HealthCheckObservations>
</GetHealthCheckStatusResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetHostedZone

Service: Amazon Route 53

Gets information about a specified hosted zone including the four name servers assigned to the hosted zone.

Request Syntax

```
GET /2013-04-01/hostedzone/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 106)

The ID of the hosted zone that you want to get information about.

Length Constraints: Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneResponse>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
  <HostedZone>
    <CallerReference>string</CallerReference>
    <Config>
      <Comment>string</Comment>
      <PrivateZone>boolean</PrivateZone>
    </Config>
    <Id>string</Id>
    <LinkedService>
      <Description>string</Description>
      <ServicePrincipal>string</ServicePrincipal>
    </LinkedService>
    <Name>string</Name>
    <ResourceRecordSetCount>long</ResourceRecordSetCount>
  </HostedZone>
  <VPCs>
    <VPC>
      <VPCId>string</VPCId>
      <VPCRegion>string</VPCRegion>
    </VPC>
  </VPCs>
</GetHostedZoneResponse>
```


Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHostedZoneResponse (p. 106)

Root level tag for the GetHostedZoneResponse parameters.

Required: Yes

DelegationSet (p. 106)

A complex type that lists the Amazon Route 53 name servers for the specified hosted zone.

Type: [DelegationSet](#) (p. 417) object

HostedZone (p. 106)

A complex type that contains general information about the specified hosted zone.

Type: [HostedZone](#) (p. 434) object

VPCs (p. 106)

A complex type that contains information about the VPCs that are associated with the specified hosted zone.

Type: Array of [VPC](#) (p. 460) objects

Array Members: Minimum number of 1 item.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/hostedzone/Z1PA6795UKMFR9
```

Example Response (Public Hosted Zone, Default Delegation Set Assigned by Route 53)

```
HTTP/1.1 200 OK
```

```
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>2017-03-01T11:22:14Z</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>false</PrivateZone>
    </Config>
    <ResourceRecordSetCount>17</ResourceRecordSetCount>
  </HostedZone>
  <DelegationSet>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</GetHostedZoneResponse>
```

Example Response (Public Hosted Zone, Reusable Delegation Set)

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>2017-03-02T10:44:04Z</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>false</PrivateZone>
    </Config>
    <ResourceRecordSetCount>17</ResourceRecordSetCount>
  </HostedZone>
  <DelegationSet>
    <Id>NU241VPSAMPLE</Id>
    <CallerReference>2017-03-01T11:22:14Z</CallerReference>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</GetHostedZoneResponse>
```

Example Response (Private Hosted Zone)

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>myUniqueIdentifier</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>true</PrivateZone>
    </Config>
    <ResourceRecordSetCount>17</ResourceRecordSetCount>
  </HostedZone>
</GetHostedZoneResponse>
```

```
</HostedZone>
<VPCs>
  <VPC>
    <VPCRegion>us-east-2</VPCRegion>
    <VPCId>vpc-1a2b3c4d</VPCId>
  </VPC>
</VPCs>
</GetHostedZoneResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetHostedZoneCount

Service: Amazon Route 53

Retrieves the number of hosted zones that are associated with the current AWS account.

Request Syntax

```
GET /2013-04-01/hostedzonecount HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneCountResponse>
  <HostedZoneCount>Long</HostedZoneCount>
</GetHostedZoneCountResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHostedZoneCountResponse (p. 110)

Root level tag for the GetHostedZoneCountResponse parameters.

Required: Yes

HostedZoneCount (p. 110)

The total number of public and private hosted zones that are associated with the current AWS account.

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/hostedzonecount
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneCountResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZoneCount>42</HostedZoneCount>
</GetHostedZoneCountResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetHostedZoneLimit

Service: Amazon Route 53

Gets the specified limit for a specified hosted zone, for example, the maximum number of records that you can create in the hosted zone.

For the default limit, see [Limits](#) in the *Amazon Route 53 Developer Guide*. To request a higher limit, [open a case](#).

Request Syntax

```
GET /2013-04-01/hostedzonelimit/Id/Type HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 112)

The ID of the hosted zone that you want to get a limit for.

Length Constraints: Maximum length of 32.

Type (p. 112)

The limit that you want to get. Valid values include the following:

- **MAX_RRSETS_BY_ZONE**: The maximum number of records that you can create in the specified hosted zone.
- **MAX_VPCS_ASSOCIATED_BY_ZONE**: The maximum number of Amazon VPCs that you can associate with the specified private hosted zone.

Valid Values: `MAX_RRSETS_BY_ZONE` | `MAX_VPCS_ASSOCIATED_BY_ZONE`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneLimitResponse>
  <Count>long</Count>
  <Limit>
    <Type>string</Type>
    <Value>long</Value>
  </Limit>
</GetHostedZoneLimitResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHostedZoneLimitResponse (p. 112)

Root level tag for the GetHostedZoneLimitResponse parameters.

Required: Yes

Count (p. 112)

The current number of entities that you have created of the specified type. For example, if you specified `MAX_RRSETS_BY_ZONE` for the value of `Type` in the request, the value of `Count` is the current number of records that you have created in the specified hosted zone.

Type: Long

Valid Range: Minimum value of 0.

Limit (p. 112)

The current setting for the specified limit. For example, if you specified `MAX_RRSETS_BY_ZONE` for the value of `Type` in the request, the value of `Limit` is the maximum number of records that you can create in the specified hosted zone.

Type: [HostedZoneLimit \(p. 437\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

HostedZoneNotPrivate

The specified hosted zone is a public hosted zone, not a private hosted zone.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetQueryLoggingConfig

Service: Amazon Route 53

Gets information about a specified configuration for DNS query logging.

For more information about DNS query logs, see [CreateQueryLoggingConfig](#) and [Logging DNS Queries](#).

Request Syntax

```
GET /2013-04-01/queryloggingconfig/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 115)

The ID of the configuration for DNS query logging that you want to get information about.

Length Constraints: Minimum length of 1. Maximum length of 36.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetQueryLoggingConfigResponse>
  <QueryLoggingConfig>
    <CloudWatchLogsLogGroupArn>string</CloudWatchLogsLogGroupArn>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
  </QueryLoggingConfig>
</GetQueryLoggingConfigResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetQueryLoggingConfigResponse (p. 115)

Root level tag for the GetQueryLoggingConfigResponse parameters.

Required: Yes

QueryLoggingConfig (p. 115)

A complex type that contains information about the query logging configuration that you specified in a [GetQueryLoggingConfig](#) request.

Type: [QueryLoggingConfig](#) (p. 439) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchQueryLoggingConfig

There is no DNS query logging configuration with the specified ID.

HTTP Status Code: 404

Examples

Example Request

The following request gets information about the configuration with the ID 87654321-dcba-1234-abcd-1a2b3c4d5e6f.

```
GET /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<GetQueryLoggingConfigRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
</GetQueryLoggingConfigRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetQueryLoggingConfigResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <QueryLoggingConfig>
    <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <CloudWatchLogsLogGroupArn>arn:aws:logs:us-east-1:111111111111:log-
group:example.com:*</CloudWatchLogsLogGroupArn>
  </QueryLoggingConfig>
</GetQueryLoggingConfigResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetReusableDelegationSet

Service: Amazon Route 53

Retrieves information about a specified reusable delegation set, including the four name servers that are assigned to the delegation set.

Request Syntax

```
GET /2013-04-01/delegationset/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 118)

The ID of the reusable delegation set that you want to get a list of name servers for.

Length Constraints: Maximum length of 32.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetReusableDelegationSetResponse>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
</GetReusableDelegationSetResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetReusableDelegationSetResponse (p. 118)

Root level tag for the GetReusableDelegationSetResponse parameters.

Required: Yes

DelegationSet (p. 118)

A complex type that contains information about the reusable delegation set.

Type: [DelegationSet \(p. 417\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DelegationSetNotReusable

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/delegationset/N1PA6795SAMPLE
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetReusableDelegationSetResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <DelegationSet>
    <Id>/delegationset/N1PA6795SAMPLE</Id>
    <CallerReference>2014-10-13T16:30:01Z</CallerReference>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</GetReusableDelegationSetResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

GetReusableDelegationSetLimit

Service: Amazon Route 53

Gets the maximum number of hosted zones that you can associate with the specified reusable delegation set.

For the default limit, see [Limits](#) in the *Amazon Route 53 Developer Guide*. To request a higher limit, [open a case](#).

Request Syntax

```
GET /2013-04-01/reusabledelegationsetlimit/Id/Type HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 121)

The ID of the delegation set that you want to get the limit for.

Length Constraints: Maximum length of 32.

Type (p. 121)

Specify `MAX_ZONES_BY_REUSABLE_DELEGATION_SET` to get the maximum number of hosted zones that you can associate with the specified reusable delegation set.

Valid Values: `MAX_ZONES_BY_REUSABLE_DELEGATION_SET`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetReusableDelegationSetLimitResponse>
  <Count>long</Count>
  <Limit>
    <Type>string</Type>
    <Value>long</Value>
  </Limit>
</GetReusableDelegationSetLimitResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetReusableDelegationSetLimitResponse (p. 121)

Root level tag for the GetReusableDelegationSetLimitResponse parameters.

Required: Yes

Count (p. 121)

The current number of hosted zones that you can associate with the specified reusable delegation set.

Type: Long

Valid Range: Minimum value of 0.

Limit (p. 121)

The current setting for the limit on hosted zones that you can associate with the specified reusable delegation set.

Type: [ReusableDelegationSetLimit \(p. 450\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetTrafficPolicy

Service: Amazon Route 53

Gets information about a specific traffic policy version.

Request Syntax

```
GET /2013-04-01/trafficpolicy/Id/Version HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 123)

The ID of the traffic policy that you want to get information about.

Length Constraints: Minimum length of 1. Maximum length of 36.

Version (p. 123)

The version number of the traffic policy that you want to get information about.

Valid Range: Minimum value of 1. Maximum value of 1000.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyResponse>
  <TrafficPolicy>
    <Comment>string</Comment>
    <Document>string</Document>
    <Id>string</Id>
    <Name>string</Name>
    <Type>string</Type>
    <Version>integer</Version>
  </TrafficPolicy>
</GetTrafficPolicyResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetTrafficPolicyResponse (p. 123)

Root level tag for the GetTrafficPolicyResponse parameters.

Required: Yes

[TrafficPolicy \(p. 123\)](#)

A complex type that contains settings for the specified traffic policy.

Type: [TrafficPolicy \(p. 453\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/2
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicy>
    <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
    <Version>2</Version>
    <Name>MyTrafficPolicy</Name>
    <Type>A</Type>
    <Document>traffic policy definition in JSON format</Document>
    <Comment>New traffic policy version</Comment>
  </TrafficPolicy>
</GetTrafficPolicyResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

GetTrafficPolicyInstance

Service: Amazon Route 53

Gets information about a specified traffic policy instance.

Note

After you submit a `CreateTrafficPolicyInstance` or an `UpdateTrafficPolicyInstance` request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the `State` response element.

Note

In the Route 53 console, traffic policy instances are known as policy records.

Request Syntax

```
GET /2013-04-01/trafficpolicyinstance/Id HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 126)

The ID of the traffic policy instance that you want to get information about.

Length Constraints: Minimum length of 1. Maximum length of 36.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyInstanceResponse>
  <TrafficPolicyInstance>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
    <Message>string</Message>
    <Name>string</Name>
    <State>string</State>
    <TrafficPolicyId>string</TrafficPolicyId>
    <TrafficPolicyType>string</TrafficPolicyType>
    <TrafficPolicyVersion>integer</TrafficPolicyVersion>
    <TTL>long</TTL>
  </TrafficPolicyInstance>
</GetTrafficPolicyInstanceResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetTrafficPolicyInstanceResponse (p. 126)

Root level tag for the GetTrafficPolicyInstanceResponse parameters.

Required: Yes

TrafficPolicyInstance (p. 126)

A complex type that contains settings for the traffic policy instance.

Type: [TrafficPolicyInstance](#) (p. 455) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/trafficpolicyinstance/12131415-abac-5432-caba-6f5e4d3c2b1a
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyInstanceResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicyInstance>
    <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <Name>www.example.com</Name>
    <TTL>300</TTL>
    <State>Applied</State>
    <Message/>
    <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
    <TrafficPolicyVersion>7</TrafficPolicyVersion>
    <TrafficPolicyType>A</TrafficPolicyType>
  </TrafficPolicyInstance>
</GetTrafficPolicyInstanceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetTrafficPolicyInstanceCount

Service: Amazon Route 53

Gets the number of traffic policy instances that are associated with the current AWS account.

Request Syntax

```
GET /2013-04-01/trafficpolicyinstancecount HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyInstanceCountResponse>
  <TrafficPolicyInstanceCount>integer</TrafficPolicyInstanceCount>
</GetTrafficPolicyInstanceCountResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

[GetTrafficPolicyInstanceCountResponse \(p. 129\)](#)

Root level tag for the GetTrafficPolicyInstanceCountResponse parameters.

Required: Yes

[TrafficPolicyInstanceCount \(p. 129\)](#)

The number of traffic policy instances that are associated with the current AWS account.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

Examples

Example Request

```
GET /2013-04-01/trafficpolicyinstancecount/
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyInstanceCountResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicyInstanceCount>42</TrafficPolicyInstanceCount>
</GetTrafficPolicyInstanceCountResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListGeoLocations

Service: Amazon Route 53

Retrieves a list of supported geographic locations.

Countries are listed first, and continents are listed last. If Amazon Route 53 supports subdivisions for a country (for example, states or provinces), the subdivisions for that country are listed in alphabetical order immediately after the corresponding country.

For a list of supported geolocation codes, see the [GeoLocation](#) data type.

Request Syntax

```
GET /2013-04-01/geolocations?
maxitems=MaxItems&startcontinentcode=StartContinentCode&startcountrycode=StartCountryCode&startsubdivisioncode=StartSubdivisionCode
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

maxitems (p. 131)

(Optional) The maximum number of geolocations to be included in the response body for this request. If more than `maxitems` geolocations remain to be listed, then the value of the `IsTruncated` element in the response is `true`.

startcontinentcode (p. 131)

The code for the continent with which you want to start listing locations that Amazon Route 53 supports for geolocation. If Route 53 has already returned a page or more of results, if `IsTruncated` is `true`, and if `NextContinentCode` from the previous response has a value, enter that value in `startcontinentcode` to return the next page of results.

Include `startcontinentcode` only if you want to list continents. Don't include `startcontinentcode` when you're listing countries or countries with their subdivisions.

Length Constraints: Fixed length of 2.

startcountrycode (p. 131)

The code for the country with which you want to start listing locations that Amazon Route 53 supports for geolocation. If Route 53 has already returned a page or more of results, if `IsTruncated` is `true`, and if `NextCountryCode` from the previous response has a value, enter that value in `startcountrycode` to return the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 2.

startsubdivisioncode (p. 131)

The code for the state of the United States with which you want to start listing locations that Amazon Route 53 supports for geolocation. If Route 53 has already returned a page or more of results, if `IsTruncated` is `true`, and if `NextSubdivisionCode` from the previous response has a value, enter that value in `startsubdivisioncode` to return the next page of results.

To list subdivisions (U.S. states), you must include both `startcountrycode` and `startsubdivisioncode`.

Length Constraints: Minimum length of 1. Maximum length of 3.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListGeoLocationsResponse>
  <GeoLocationDetailsList>
    <GeoLocationDetails>
      <ContinentCode>string</ContinentCode>
      <ContinentName>string</ContinentName>
      <CountryCode>string</CountryCode>
      <CountryName>string</CountryName>
      <SubdivisionCode>string</SubdivisionCode>
      <SubdivisionName>string</SubdivisionName>
    </GeoLocationDetails>
  </GeoLocationDetailsList>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <NextContinentCode>string</NextContinentCode>
  <NextCountryCode>string</NextCountryCode>
  <NextSubdivisionCode>string</NextSubdivisionCode>
</ListGeoLocationsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListGeoLocationsResponse (p. 132)

Root level tag for the ListGeoLocationsResponse parameters.

Required: Yes

GeoLocationDetailsList (p. 132)

A complex type that contains one GeoLocationDetails element for each location that Amazon Route 53 supports for geolocation.

Type: Array of [GeoLocationDetails \(p. 421\)](#) objects

IsTruncated (p. 132)

A value that indicates whether more locations remain to be listed after the last location in this response. If so, the value of IsTruncated is true. To get more values, submit another request and include the values of NextContinentCode, NextCountryCode, and NextSubdivisionCode in the startcontinentcode, startcountrycode, and startsubdivisioncode, as applicable.

Type: Boolean

MaxItems (p. 132)

The value that you specified for MaxItems in the request.

Type: String

NextContinentCode (p. 132)

If `IsTruncated` is true, you can make a follow-up request to display more locations. Enter the value of `NextContinentCode` in the `startcontinentcode` parameter in another `ListGeoLocations` request.

Type: String

Length Constraints: Fixed length of 2.

NextCountryCode (p. 132)

If `IsTruncated` is true, you can make a follow-up request to display more locations. Enter the value of `NextCountryCode` in the `startcountrycode` parameter in another `ListGeoLocations` request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2.

NextSubdivisionCode (p. 132)

If `IsTruncated` is true, you can make a follow-up request to display more locations. Enter the value of `NextSubdivisionCode` in the `startsubdivisioncode` parameter in another `ListGeoLocations` request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

The following request lists locations beginning with the United States state of Oregon.

```
GET /2013-04-01/geolocations?startcountrycode=US&startsubdivisioncode=OR&maxitems=2
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListGeoLocationsResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <GeoLocationDetailsList>
    <GeoLocationDetails>
      <CountryCode>US</CountryCode>
      <CountryName>USA</CountryName>
      <SubdivisionCode>OR</SubdivisionCode>
```

```

        <SubdivisionName>Oregon</SubdivisionName>
    </GeoLocationDetails>
    <GeoLocationDetails>
        <CountryCode>US</CountryCode>
        <CountryName>USA</CountryName>
        <SubdivisionCode>PA</SubdivisionCode>
        <SubdivisionName>Pennsylvania</SubdivisionName>
    </GeoLocationDetails>
</GeoLocationDetailsList>
<IsTruncated>true</IsTruncated>
<NextCountryCode>US</NextCountryCode>
<NextSubdivisionCode>RI</NextSubdivisionCode>
<MaxItems>2</MaxItems>
</ListGeoLocationsResponse>

```

Example Follow-up Request

This example shows the follow-up request to the previous request. In this request, the value of `NextCountryCode` from the previous response is specified as the value for `startcountrycode`, and `NextSubdivisionCode` is specified as the value for `startsubdivisioncode`.

```
GET /2013-04-01/geolocations?startcountrycode=US&startsubdivisioncode=RI&maxitems=2
```

Example Follow-up Response

```

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListGeoLocationsResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
    <GeoLocationDetailsList>
        <GeoLocationDetails>
            <CountryCode>US</CountryCode>
            <CountryName>USA</CountryName>
            <SubdivisionCode>RI</SubdivisionCode>
            <SubdivisionName>Rhode Island</SubdivisionName>
        </GeoLocationDetails>
        <GeoLocationDetails>
            <CountryCode>US</CountryCode>
            <CountryName>USA</CountryName>
            <SubdivisionCode>SC</SubdivisionCode>
            <SubdivisionName>South Carolina</SubdivisionName>
        </GeoLocationDetails>
    </GeoLocationDetailsList>
    <IsTruncated>true</IsTruncated>
    <NextCountryCode>US</NextCountryCode>
    <NextSubdivisionCode>SD</NextSubdivisionCode>
    <MaxItems>2</MaxItems>
</ListGeoLocationsResponse>

```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListHealthChecks

Service: Amazon Route 53

Retrieve a list of the health checks that are associated with the current AWS account.

Request Syntax

```
GET /2013-04-01/healthcheck?marker=Marker&maxitems=MaxItems HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

marker (p. 136)

If the value of `IsTruncated` in the previous response was `true`, you have more health checks. To get another group, submit another `ListHealthChecks` request.

For the value of `marker`, specify the value of `NextMarker` from the previous response, which is the ID of the first health check that Amazon Route 53 will return if you submit another request.

If the value of `IsTruncated` in the previous response was `false`, there are no more health checks to get.

Length Constraints: Maximum length of 64.

maxitems (p. 136)

The maximum number of health checks that you want `ListHealthChecks` to return in response to the current request. Amazon Route 53 returns a maximum of 100 items. If you set `MaxItems` to a value greater than 100, Route 53 returns only the first 100 health checks.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListHealthChecksResponse>
  <HealthChecks>
    <HealthCheck>
      <CallerReference>string</CallerReference>
      <CloudWatchAlarmConfiguration>
        <ComparisonOperator>string</ComparisonOperator>
        <Dimensions>
          <Dimension>
            <Name>string</Name>
            <Value>string</Value>
          </Dimension>
        </Dimensions>
        <EvaluationPeriods>integer</EvaluationPeriods>
        <MetricName>string</MetricName>
        <Namespace>string</Namespace>
        <Period>integer</Period>
        <Statistic>string</Statistic>
        <Threshold>double</Threshold>
```

```
</CloudWatchAlarmConfiguration>
<HealthCheckConfig>
  <AlarmIdentifier>
    <Name>string</Name>
    <Region>string</Region>
  </AlarmIdentifier>
  <ChildHealthChecks>
    <ChildHealthCheck>string</ChildHealthCheck>
  </ChildHealthChecks>
  <Disabled>boolean</Disabled>
  <EnableSNI>boolean</EnableSNI>
  <FailureThreshold>integer</FailureThreshold>
  <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
  <HealthThreshold>integer</HealthThreshold>
  <InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
  <Inverted>boolean</Inverted>
  <IPAddress>string</IPAddress>
  <MeasureLatency>boolean</MeasureLatency>
  <Port>integer</Port>
  <Regions>
    <Region>string</Region>
  </Regions>
  <RequestInterval>integer</RequestInterval>
  <ResourcePath>string</ResourcePath>
  <SearchString>string</SearchString>
  <Type>string</Type>
</HealthCheckConfig>
<HealthCheckVersion>long</HealthCheckVersion>
<Id>string</Id>
<LinkedService>
  <Description>string</Description>
  <ServicePrincipal>string</ServicePrincipal>
</LinkedService>
</HealthCheck>
</HealthChecks>
<IsTruncated>boolean</IsTruncated>
<Marker>string</Marker>
<MaxItems>string</MaxItems>
<NextMarker>string</NextMarker>
</ListHealthChecksResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListHealthChecksResponse (p. 136)

Root level tag for the ListHealthChecksResponse parameters.

Required: Yes

HealthChecks (p. 136)

A complex type that contains one HealthCheck element for each health check that is associated with the current AWS account.

Type: Array of [HealthCheck \(p. 423\)](#) objects

IsTruncated (p. 136)

A flag that indicates whether there are more health checks to be listed. If the response was truncated, you can get the next group of health checks by submitting another ListHealthChecks request and specifying the value of NextMarker in the marker parameter.

Type: Boolean

Marker (p. 136)

For the second and subsequent calls to `ListHealthChecks`, `Marker` is the value that you specified for the `marker` parameter in the previous request.

Type: String

Length Constraints: Maximum length of 64.

MaxItems (p. 136)

The value that you specified for the `maxitems` parameter in the call to `ListHealthChecks` that produced the current response.

Type: String

NextMarker (p. 136)

If `IsTruncated` is `true`, the value of `NextMarker` identifies the first health check that Amazon Route 53 returns if you submit another `ListHealthChecks` request and specify the value of `NextMarker` in the `marker` parameter.

Type: String

Length Constraints: Maximum length of 64.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

IncompatibleVersion

The resource you're trying to access is unsupported on this Amazon Route 53 endpoint.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/healthcheck?maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListHealthChecksResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthChecks>
    <HealthCheck>
      <Id>abcdef11-2222-3333-4444-555555fedcba</Id>
      <CallerReference>example.com 192.0.2.17</CallerReference>
      <HealthCheckConfig>
```



```
<IPAddress>192.0.2.17</IPAddress>
<Port>80</Port>
<Type>HTTP</Type>
<ResourcePath>/docs/route-53-health-check.html</ResourcePath>
<FullyQualifiedDomainName>example.com</FullyQualifiedDomainName>
<RequestInterval>30</RequestInterval>
<FailureThreshold>3</FailureThreshold>
<MeasureLatency>true</MeasureLatency>
<EnableSNI>true</EnableSNI>
<Inverted>false</Inverted>
</HealthCheckConfig>
<HealthCheckVersion>2</HealthCheckVersion>
</HealthCheck>
</HealthChecks>
<IsTruncated>true</IsTruncated>
<NextMarker>aaaaaaaa-1234-5678-9012-bbbbbbbccccc</NextMarker>
<MaxItems>1</MaxItems>
</ListHealthChecksResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListHostedZones

Service: Amazon Route 53

Retrieves a list of the public and private hosted zones that are associated with the current AWS account. The response includes a `HostedZones` child element for each hosted zone.

Amazon Route 53 returns a maximum of 100 items in each response. If you have a lot of hosted zones, you can use the `maxitems` parameter to list them in groups of up to 100.

Request Syntax

```
GET /2013-04-01/hostedzone?delegationsetid=DelegationSetId&marker=Marker&maxitems=MaxItems
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

`delegationsetid` (p. 140)

If you're using reusable delegation sets and you want to list all of the hosted zones that are associated with a reusable delegation set, specify the ID of that reusable delegation set.

Length Constraints: Maximum length of 32.

`marker` (p. 140)

If the value of `IsTruncated` in the previous response was `true`, you have more hosted zones. To get more hosted zones, submit another `ListHostedZones` request.

For the value of `marker`, specify the value of `NextMarker` from the previous response, which is the ID of the first hosted zone that Amazon Route 53 will return if you submit another request.

If the value of `IsTruncated` in the previous response was `false`, there are no more hosted zones to get.

Length Constraints: Maximum length of 64.

`maxitems` (p. 140)

(Optional) The maximum number of hosted zones that you want Amazon Route 53 to return. If you have more than `maxitems` hosted zones, the value of `IsTruncated` in the response is `true`, and the value of `NextMarker` is the hosted zone ID of the first hosted zone that Route 53 will return if you submit another request.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesResponse>
  <HostedZones>
    <HostedZone>
      <CallerReference>string</CallerReference>
      <Config>
```

```
        <Comment>string</Comment>
        <PrivateZone>boolean</PrivateZone>
    </Config>
    <Id>string</Id>
    <LinkedService>
        <Description>string</Description>
        <ServicePrincipal>string</ServicePrincipal>
    </LinkedService>
    <Name>string</Name>
    <ResourceRecordSetCount>long</ResourceRecordSetCount>
</HostedZone>
</HostedZones>
<IsTruncated>boolean</IsTruncated>
<Marker>string</Marker>
<MaxItems>string</MaxItems>
<NextMarker>string</NextMarker>
</ListHostedZonesResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListHostedZonesResponse (p. 140)

Root level tag for the ListHostedZonesResponse parameters.

Required: Yes

HostedZones (p. 140)

A complex type that contains general information about the hosted zone.

Type: Array of [HostedZone \(p. 434\)](#) objects

IsTruncated (p. 140)

A flag indicating whether there are more hosted zones to be listed. If the response was truncated, you can get more hosted zones by submitting another ListHostedZones request and specifying the value of NextMarker in the marker parameter.

Type: Boolean

Marker (p. 140)

For the second and subsequent calls to ListHostedZones, Marker is the value that you specified for the marker parameter in the request that produced the current response.

Type: String

Length Constraints: Maximum length of 64.

MaxItems (p. 140)

The value that you specified for the maxitems parameter in the call to ListHostedZones that produced the current response.

Type: String

NextMarker (p. 140)

If IsTruncated is true, the value of NextMarker identifies the first hosted zone in the next group of hosted zones. Submit another ListHostedZones request, and specify the value of NextMarker from the response in the marker parameter.

This element is present only if `IsTruncated` is `true`.

Type: String

Length Constraints: Maximum length of 64.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DelegationSetNotReusable

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/hostedzone?maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZones>
    <HostedZone>
      <Id>/hostedzone/Z111111QQQQQQQ</Id>
      <Name>example.com.</Name>
      <CallerReference>MyUniqueIdentifier1</CallerReference>
      <Config>
        <Comment>This is my first hosted zone.</Comment>
        <PrivateZone>>false</PrivateZone>
      </Config>
      <ResourceRecordSetCount>42</ResourceRecordSetCount>
    </HostedZone>
  </HostedZones>
  <IsTruncated>true</IsTruncated>
  <NextMarker>Z222222VVVVVVV</NextMarker>
  <MaxItems>1</MaxItems>
</ListHostedZonesResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListHostedZonesByName

Service: Amazon Route 53

Retrieves a list of your hosted zones in lexicographic order. The response includes a `HostedZones` child element for each hosted zone created by the current AWS account.

`ListHostedZonesByName` sorts hosted zones by name with the labels reversed. For example:

```
com.example.www.
```

Note the trailing dot, which can change the sort order in some circumstances.

If the domain name includes escape characters or Punycode, `ListHostedZonesByName` alphabetizes the domain name using the escaped or Punycode value, which is the format that Amazon Route 53 saves in its database. For example, to create a hosted zone for `example.com`, you specify `ex\344mple.com` for the domain name. `ListHostedZonesByName` alphabetizes it as:

```
com.ex\344mple.
```

The labels are reversed and alphabetized using the escaped value. For more information about valid domain name formats, including internationalized domain names, see [DNS Domain Name Format](#) in the *Amazon Route 53 Developer Guide*.

Route 53 returns up to 100 items in each response. If you have a lot of hosted zones, use the `MaxItems` parameter to list them in groups of up to 100. The response includes values that help navigate from one group of `MaxItems` hosted zones to the next:

- The `DNSName` and `HostedZoneId` elements in the response contain the values, if any, specified for the `dnsname` and `hostedzoneid` parameters in the request that produced the current response.
- The `MaxItems` element in the response contains the value, if any, that you specified for the `maxitems` parameter in the request that produced the current response.
- If the value of `IsTruncated` in the response is `true`, there are more hosted zones associated with the current AWS account.

If `IsTruncated` is `false`, this response includes the last hosted zone that is associated with the current account. The `NextDNSName` element and `NextHostedZoneId` elements are omitted from the response.

- The `NextDNSName` and `NextHostedZoneId` elements in the response contain the domain name and the hosted zone ID of the next hosted zone that is associated with the current AWS account. If you want to list more hosted zones, make another call to `ListHostedZonesByName`, and specify the value of `NextDNSName` and `NextHostedZoneId` in the `dnsname` and `hostedzoneid` parameters, respectively.

Request Syntax

```
GET /2013-04-01/hostedzonesbyname?  
dnsname=DNSName&hostedzoneid=HostedZoneId&maxitems=MaxItems HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

`dnsname` (p. 144)

(Optional) For your first request to `ListHostedZonesByName`, include the `dnsname` parameter only if you want to specify the name of the first hosted zone in the response. If you don't include

the `dnsname` parameter, Amazon Route 53 returns all of the hosted zones that were created by the current AWS account, in ASCII order. For subsequent requests, include both `dnsname` and `hostedzoneid` parameters. For `dnsname`, specify the value of `NextDNSName` from the previous response.

Length Constraints: Maximum length of 1024.

hostedzoneid (p. 144)

(Optional) For your first request to `ListHostedZonesByName`, do not include the `hostedzoneid` parameter.

If you have more hosted zones than the value of `maxitems`, `ListHostedZonesByName` returns only the first `maxitems` hosted zones. To get the next group of `maxitems` hosted zones, submit another request to `ListHostedZonesByName` and include both `dnsname` and `hostedzoneid` parameters. For the value of `hostedzoneid`, specify the value of the `NextHostedZoneId` element from the previous response.

Length Constraints: Maximum length of 32.

maxitems (p. 144)

The maximum number of hosted zones to be included in the response body for this request. If you have more than `maxitems` hosted zones, then the value of the `IsTruncated` element in the response is `true`, and the values of `NextDNSName` and `NextHostedZoneId` specify the first hosted zone in the next group of `maxitems` hosted zones.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesByNameResponse>
  <DNSName>string</DNSName>
  <HostedZoneId>string</HostedZoneId>
  <HostedZones>
    <HostedZone>
      <CallerReference>string</CallerReference>
      <Config>
        <Comment>string</Comment>
        <PrivateZone>boolean</PrivateZone>
      </Config>
      <Id>string</Id>
      <LinkedService>
        <Description>string</Description>
        <ServicePrincipal>string</ServicePrincipal>
      </LinkedService>
      <Name>string</Name>
      <ResourceRecordSetCount>long</ResourceRecordSetCount>
    </HostedZone>
  </HostedZones>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <NextDNSName>string</NextDNSName>
  <NextHostedZoneId>string</NextHostedZoneId>
</ListHostedZonesByNameResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListHostedZonesByNameResponse (p. 145)

Root level tag for the ListHostedZonesByNameResponse parameters.

Required: Yes

DNSName (p. 145)

For the second and subsequent calls to `ListHostedZonesByName`, `DNSName` is the value that you specified for the `dnsname` parameter in the request that produced the current response.

Type: String

Length Constraints: Maximum length of 1024.

HostedZoneId (p. 145)

The ID that Amazon Route 53 assigned to the hosted zone when you created it.

Type: String

Length Constraints: Maximum length of 32.

HostedZones (p. 145)

A complex type that contains general information about the hosted zone.

Type: Array of [HostedZone \(p. 434\)](#) objects

IsTruncated (p. 145)

A flag that indicates whether there are more hosted zones to be listed. If the response was truncated, you can get the next group of `maxitems` hosted zones by calling `ListHostedZonesByName` again and specifying the values of `NextDNSName` and `NextHostedZoneId` elements in the `dnsname` and `hostedzoneid` parameters.

Type: Boolean

MaxItems (p. 145)

The value that you specified for the `maxitems` parameter in the call to `ListHostedZonesByName` that produced the current response.

Type: String

NextDNSName (p. 145)

If `IsTruncated` is true, the value of `NextDNSName` is the name of the first hosted zone in the next group of `maxitems` hosted zones. Call `ListHostedZonesByName` again and specify the value of `NextDNSName` and `NextHostedZoneId` in the `dnsname` and `hostedzoneid` parameters, respectively.

This element is present only if `IsTruncated` is true.

Type: String

Length Constraints: Maximum length of 1024.

NextHostedZoneId (p. 145)

If `IsTruncated` is true, the value of `NextHostedZoneId` identifies the first hosted zone in the next group of `maxitems` hosted zones. Call `ListHostedZonesByName` again and specify the value of `NextDNSName` and `NextHostedZoneId` in the `dnsname` and `hostedzoneid` parameters, respectively.

This element is present only if `IsTruncated` is true.

Type: String

Length Constraints: Maximum length of 32.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidDomainName

The specified domain name is not valid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/hostedzonesbyname?maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesByNameResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZones>
    <HostedZone>
      <Id>/hostedzone/Z111111QQQQQQQ</Id>
      <Name>example.com.</Name>
      <CallerReference>MyUniqueIdentifier1</CallerReference>
      <Config>
        <Comment>This is my first hosted zone.</Comment>
        <PrivateZone>>false</PrivateZone>
      </Config>
      <ResourceRecordSetCount>42</ResourceRecordSetCount>
    </HostedZone>
  </HostedZones>
  <IsTruncated>true</IsTruncated>
  <NextDNSName>example2.com</NextDNSName>
  <NextHostedZoneId>Z222222VVVVVVV</NextHostedZoneId>
  <MaxItems>1</MaxItems>
</ListHostedZonesByNameResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListQueryLoggingConfigs

Service: Amazon Route 53

Lists the configurations for DNS query logging that are associated with the current AWS account or the configuration that is associated with a specified hosted zone.

For more information about DNS query logs, see [CreateQueryLoggingConfig](#). Additional information, including the format of DNS query logs, appears in [Logging DNS Queries](#) in the *Amazon Route 53 Developer Guide*.

Request Syntax

```
GET /2013-04-01/queryloggingconfig?
hostedzoneid=HostedZoneId&maxresults=MaxResults&nexttoken=NextToken HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

hostedzoneid (p. 149)

(Optional) If you want to list the query logging configuration that is associated with a hosted zone, specify the ID in `HostedZoneId`.

If you don't specify a hosted zone ID, `ListQueryLoggingConfigs` returns all of the configurations that are associated with the current AWS account.

Length Constraints: Maximum length of 32.

maxresults (p. 149)

(Optional) The maximum number of query logging configurations that you want Amazon Route 53 to return in response to the current request. If the current AWS account has more than `MaxResults` configurations, use the value of `NextToken` in the response to get the next page of results.

If you don't specify a value for `MaxResults`, Route 53 returns up to 100 configurations.

nexttoken (p. 149)

(Optional) If the current AWS account has more than `MaxResults` query logging configurations, use `NextToken` to get the second and subsequent pages of results.

For the first `ListQueryLoggingConfigs` request, omit this value.

For the second and subsequent requests, get the value of `NextToken` from the previous response and specify that value for `NextToken` in the request.

Length Constraints: Maximum length of 256.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
```

```
<ListQueryLoggingConfigsResponse>
  <NextToken>string</NextToken>
  <QueryLoggingConfigs>
    <QueryLoggingConfig>
      <CloudWatchLogsLogGroupArn>string</CloudWatchLogsLogGroupArn>
      <HostedZoneId>string</HostedZoneId>
      <Id>string</Id>
    </QueryLoggingConfig>
  </QueryLoggingConfigs>
</ListQueryLoggingConfigsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListQueryLoggingConfigsResponse (p. 149)

Root level tag for the ListQueryLoggingConfigsResponse parameters.

Required: Yes

NextToken (p. 149)

If a response includes the last of the query logging configurations that are associated with the current AWS account, `NextToken` doesn't appear in the response.

If a response doesn't include the last of the configurations, you can get more configurations by submitting another [ListQueryLoggingConfigs](#) request. Get the value of `NextToken` that Amazon Route 53 returned in the previous response and include it in `NextToken` in the next request.

Type: String

Length Constraints: Maximum length of 256.

QueryLoggingConfigs (p. 149)

An array that contains one [QueryLoggingConfig](#) element for each configuration for DNS query logging that is associated with the current AWS account.

Type: Array of [QueryLoggingConfig](#) (p. 439) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidPaginationToken

The value that you specified to get the second or subsequent page of results is invalid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

The following request gets the configuration that is associated with the hosted zone Z1D633PJN98FT9.

```
GET /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ListQueryLoggingConfigsRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
  <MaxResults>1</MaxResults>
</ListQueryLoggingConfigsRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListQueryLoggingConfigsResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <NextToken>87654321-dcba-1234-abcd-1a2b3c4d5e70</NextToken>
  <QueryLoggingConfigs>
    <QueryLoggingConfig>
      <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
      <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
      <CloudWatchLogsLogGroupArn>arn:aws:logs:us-east-1:111111111111:log-
group:example.com:*</CloudWatchLogsLogGroupArn>
    </QueryLoggingConfig>
  </QueryLoggingConfigs>
</ListQueryLoggingConfigsResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListResourceRecordSets

Service: Amazon Route 53

Lists the resource record sets in a specified hosted zone.

`ListResourceRecordSets` returns up to 100 resource record sets at a time in ASCII order, beginning at a position specified by the `Name` and `Type` elements.

Sort order

`ListResourceRecordSets` sorts results first by DNS name with the labels reversed, for example:

```
com.example.www.
```

Note the trailing dot, which can change the sort order when the record name contains characters that appear before `.` (decimal 46) in the ASCII table. These characters include the following: `! " # $ % & ' () * + , -`

When multiple records have the same DNS name, `ListResourceRecordSets` sorts results by the record type.

Specifying where to start listing records

You can use the `Name` and `Type` elements to specify the resource record set that the list begins with:

If you do not specify `Name` or `Type`

The results begin with the first resource record set that the hosted zone contains.

If you specify `Name` but not `Type`

The results begin with the first resource record set in the list whose name is greater than or equal to `Name`.

If you specify `Type` but not `Name`

Amazon Route 53 returns the `InvalidInput` error.

If you specify both `Name` and `Type`

The results begin with the first resource record set in the list whose name is greater than or equal to `Name`, and whose type is greater than or equal to `Type`.

Resource record sets that are PENDING

This action returns the most current version of the records. This includes records that are `PENDING`, and that are not yet available on all Route 53 DNS servers.

Changing resource record sets

To ensure that you get an accurate listing of the resource record sets for a hosted zone at a point in time, do not submit a `ChangeResourceRecordSets` request while you're paging through the results of a `ListResourceRecordSets` request. If you do, some pages may display results without the latest changes while other pages display results with the latest changes.

Displaying the next page of results

If a `ListResourceRecordSets` command returns more than one page of results, the value of `IsTruncated` is `true`. To display the next page of results, get the values of `NextRecordName`, `NextRecordType`, and `NextRecordIdentifier` (if any) from the response. Then submit another `ListResourceRecordSets` request, and specify those values for `StartRecordName`, `StartRecordType`, and `StartRecordIdentifier`.

Request Syntax

```
GET /2013-04-01/hostedzone/Id/rrset?
identifier=StartRecordIdentifier&maxitems=MaxItems&name=StartRecordName&type=StartRecordType
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 153)

The ID of the hosted zone that contains the resource record sets that you want to list.

Length Constraints: Maximum length of 32.

identifier (p. 153)

Resource record sets that have a routing policy other than simple: If results were truncated for a given DNS name and type, specify the value of `NextRecordIdentifier` from the previous response to get the next resource record set that has the current DNS name and type.

Length Constraints: Minimum length of 1. Maximum length of 128.

maxitems (p. 153)

(Optional) The maximum number of resource records sets to include in the response body for this request. If the response includes more than `maxitems` resource record sets, the value of the `IsTruncated` element in the response is `true`, and the values of the `NextRecordName` and `NextRecordType` elements in the response identify the first resource record set in the next group of `maxitems` resource record sets.

name (p. 153)

The first name in the lexicographic ordering of resource record sets that you want to list. If the specified record name doesn't exist, the results begin with the first resource record set that has a name greater than the value of `name`.

Length Constraints: Maximum length of 1024.

type (p. 153)

The type of resource record set to begin the record listing from.

Valid values for basic resource record sets: A | AAAA | CAA | CNAME | MX | NAPTR | NS | PTR | SOA | SPF | SRV | TXT

Values for weighted, latency, geolocation, and failover resource record sets: A | AAAA | CAA | CNAME | MX | NAPTR | PTR | SPF | SRV | TXT

Values for alias resource record sets:

- **API Gateway custom regional API or edge-optimized API:** A
- **CloudFront distribution:** A or AAAA
- **Elastic Beanstalk environment that has a regionalized subdomain:** A
- **Elastic Load Balancing load balancer:** A | AAAA
- **S3 bucket:** A
- **VPC interface VPC endpoint:** A
- **Another resource record set in this hosted zone:** The type of the resource record set that the alias references.

Constraint: Specifying type without specifying name returns an InvalidInput error.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListResourceRecordSetsResponse>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <NextRecordIdentifier>string</NextRecordIdentifier>
  <NextRecordName>string</NextRecordName>
  <NextRecordType>string</NextRecordType>
  <ResourceRecordSets>
    <ResourceRecordSet>
      <AliasTarget>
        <DNSName>string</DNSName>
        <EvaluateTargetHealth>boolean</EvaluateTargetHealth>
        <HostedZoneId>string</HostedZoneId>
      </AliasTarget>
      <Failover>string</Failover>
      <GeoLocation>
        <ContinentCode>string</ContinentCode>
        <CountryCode>string</CountryCode>
        <SubdivisionCode>string</SubdivisionCode>
      </GeoLocation>
      <HealthCheckId>string</HealthCheckId>
      <MultiValueAnswer>boolean</MultiValueAnswer>
      <Name>string</Name>
      <Region>string</Region>
      <ResourceRecords>
        <ResourceRecord>
          <Value>string</Value>
        </ResourceRecord>
      </ResourceRecords>
      <SetIdentifier>string</SetIdentifier>
      <TrafficPolicyInstanceId>string</TrafficPolicyInstanceId>
      <TTL>long</TTL>
      <Type>string</Type>
      <Weight>long</Weight>
    </ResourceRecordSet>
  </ResourceRecordSets>
</ListResourceRecordSetsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListResourceRecordSetsResponse (p. 154)

Root level tag for the ListResourceRecordSetsResponse parameters.

Required: Yes

IsTruncated (p. 154)

A flag that indicates whether more resource record sets remain to be listed. If your results were truncated, you can make a follow-up pagination request by using the `NextRecordName` element.

Type: Boolean

MaxItems (p. 154)

The maximum number of records you requested.

Type: String

NextRecordIdentifier (p. 154)

Resource record sets that have a routing policy other than simple: If results were truncated for a given DNS name and type, the value of `SetIdentifier` for the next resource record set that has the current DNS name and type.

For information about routing policies, see [Choosing a Routing Policy](#) in the *Amazon Route 53 Developer Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

NextRecordName (p. 154)

If the results were truncated, the name of the next record in the list.

This element is present only if `IsTruncated` is true.

Type: String

Length Constraints: Maximum length of 1024.

NextRecordType (p. 154)

If the results were truncated, the type of the next record in the list.

This element is present only if `IsTruncated` is true.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

ResourceRecordSets (p. 154)

Information about multiple resource record sets.

Type: Array of [ResourceRecordSet](#) (p. 441) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/hostedzone/Z1PA6795UKMFR9/rrset?maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListResourceRecordSetsResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ResourceRecordSets>
    <ResourceRecordSet>
      <Name>example.com.</Name>
      <Type>SOA</Type>
      <TTL>900</TTL>
      <ResourceRecords>
        <ResourceRecord>
          <Value>ns-2048.awsdns-64.net. hostmaster.awsdns.com. 1 7200 900 1209600
86400</Value>
        </ResourceRecord>
      </ResourceRecords>
    </ResourceRecordSet>
  </ResourceRecordSets>
  <IsTruncated>true</IsTruncated>
  <MaxItems>1</MaxItems>
  <NextRecordName>example.com.</NextRecordName>
  <NextRecordType>NS</NextRecordType>
</ListResourceRecordSetsResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListReusableDelegationSets

Service: Amazon Route 53

Retrieves a list of the reusable delegation sets that are associated with the current AWS account.

Request Syntax

```
GET /2013-04-01/delegationset?marker=Marker&maxitems=MaxItems HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

marker (p. 157)

If the value of `IsTruncated` in the previous response was `true`, you have more reusable delegation sets. To get another group, submit another `ListReusableDelegationSets` request.

For the value of `marker`, specify the value of `NextMarker` from the previous response, which is the ID of the first reusable delegation set that Amazon Route 53 will return if you submit another request.

If the value of `IsTruncated` in the previous response was `false`, there are no more reusable delegation sets to get.

Length Constraints: Maximum length of 64.

maxitems (p. 157)

The number of reusable delegation sets that you want Amazon Route 53 to return in the response to this request. If you specify a value greater than 100, Route 53 returns only the first 100 reusable delegation sets.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListReusableDelegationSetsResponse>
  <DelegationSets>
    <DelegationSet>
      <CallerReference>string</CallerReference>
      <Id>string</Id>
      <NameServers>
        <NameServer>string</NameServer>
      </NameServers>
    </DelegationSet>
  </DelegationSets>
  <IsTruncated>boolean</IsTruncated>
  <Marker>string</Marker>
  <MaxItems>string</MaxItems>
  <NextMarker>string</NextMarker>
</ListReusableDelegationSetsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListReusableDelegationSetsResponse (p. 157)

Root level tag for the ListReusableDelegationSetsResponse parameters.

Required: Yes

DelegationSets (p. 157)

A complex type that contains one DelegationSet element for each reusable delegation set that was created by the current AWS account.

Type: Array of [DelegationSet \(p. 417\)](#) objects

IsTruncated (p. 157)

A flag that indicates whether there are more reusable delegation sets to be listed.

Type: Boolean

Marker (p. 157)

For the second and subsequent calls to ListReusableDelegationSets, Marker is the value that you specified for the marker parameter in the request that produced the current response.

Type: String

Length Constraints: Maximum length of 64.

MaxItems (p. 157)

The value that you specified for the maxitems parameter in the call to ListReusableDelegationSets that produced the current response.

Type: String

NextMarker (p. 157)

If IsTruncated is true, the value of NextMarker identifies the next reusable delegation set that Amazon Route 53 will return if you submit another ListReusableDelegationSets request and specify the value of NextMarker in the marker parameter.

Type: String

Length Constraints: Maximum length of 64.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/delegationset?maxitems=2
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListReusableDelegationSetsResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <DelegationSets>
    <DelegationSet>
      <Id>/delegationset/N1PA6795SAMPLE</Id>
      <CallerReference>2017-03-15T01:36:41.958Z</CallerReference>
      <NameServers>
        <NameServer>ns-2042.awsdns-64.com</NameServer>
        <NameServer>ns-2043.awsdns-65.net</NameServer>
        <NameServer>ns-2044.awsdns-66.org</NameServer>
        <NameServer>ns-2045.awsdns-67.co.uk</NameServer>
      </NameServers>
    </DelegationSet>
    <DelegationSet>
      <Id>/delegationset/N1PA7000SAMPLE</Id>
      <CallerReference>2017-03-16T01:37:42.959Z</CallerReference>
      <NameServers>
        <NameServer>ns-2046.awsdns-68.com</NameServer>
        <NameServer>ns-2047.awsdns-69.net</NameServer>
        <NameServer>ns-2048.awsdns-70.org</NameServer>
        <NameServer>ns-2049.awsdns-71.co.uk</NameServer>
      </NameServers>
    </DelegationSet>
  </DelegationSets>
  <IsTruncated>true</IsTruncated>
  <NextMarker>N1PA6797SAMPLE</NextMarker>
  <MaxItems>2</MaxItems>
</ListReusableDelegationSetsResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: Amazon Route 53

Lists tags for one health check or hosted zone.

For information about using tags for cost allocation, see [Using Cost Allocation Tags](#) in the *AWS Billing and Cost Management User Guide*.

Request Syntax

```
GET /2013-04-01/tags/ResourceType/ResourceId HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

[ResourceId](#) (p. 160)

The ID of the resource for which you want to retrieve tags.

Length Constraints: Maximum length of 64.

[ResourceType](#) (p. 160)

The type of the resource.

- The resource type for health checks is `healthcheck`.
- The resource type for hosted zones is `hostedzone`.

Valid Values: `healthcheck` | `hostedzone`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourceResponse>
  <ResourceTagSet>
    <ResourceId>string</ResourceId>
    <ResourceType>string</ResourceType>
    <Tags>
      <Tag>
        <Key>string</Key>
        <Value>string</Value>
      </Tag>
    </Tags>
  </ResourceTagSet>
</ListTagsForResourceResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTagsForResourceResponse (p. 160)

Root level tag for the ListTagsForResourceResponse parameters.

Required: Yes

ResourceTagSet (p. 160)

A ResourceTagSet containing tags associated with the specified resource.

Type: [ResourceTagSet \(p. 449\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an `HTTP 400 error (Bad request)`. If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/tags/healthcheck/abcdef11-2222-3333-4444-555555fedcba
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourceResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
```

```
<ResourceTagSet>
  <ResourceType>healthcheck</ResourceType>
  <ResourceId>abcdef11-2222-3333-4444-555555fedcba</ResourceId>
  <Tags>
    <Tag>
      <Key>Owner<Key>
      <Value>dbadmin<Value>
    </Tag>
    <Tag>
      <Key>Cost Center<Key>
      <Value>80432<Value>
    </Tag>
  </Tags>
</ResourceTagSet>
</ListTagsForResourceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResources

Service: Amazon Route 53

Lists tags for up to 10 health checks or hosted zones.

For information about using tags for cost allocation, see [Using Cost Allocation Tags](#) in the *AWS Billing and Cost Management User Guide*.

Request Syntax

```
POST /2013-04-01/tags/ResourceType HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourcesRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ResourceIds>
    <ResourceId>string</ResourceId>
  </ResourceIds>
</ListTagsForResourcesRequest>
```

URI Request Parameters

The request requires the following URI parameters.

ResourceType (p. 163)

The type of the resources.

- The resource type for health checks is `healthcheck`.
- The resource type for hosted zones is `hostedzone`.

Valid Values: `healthcheck` | `hostedzone`

Request Body

The request accepts the following data in XML format.

ListTagsForResourcesRequest (p. 163)

Root level tag for the ListTagsForResourcesRequest parameters.

Required: Yes

ResourceIds (p. 163)

A complex type that contains the ResourceId element for each resource for which you want to get a list of tags.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Maximum length of 64.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourcesResponse>
  <ResourceTagSets>
    <ResourceTagSet>
      <ResourceId>string</ResourceId>
      <ResourceType>string</ResourceType>
      <Tags>
        <Tag>
          <Key>string</Key>
          <Value>string</Value>
        </Tag>
      </Tags>
    </ResourceTagSet>
  </ResourceTagSets>
</ListTagsForResourcesResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTagsForResourcesResponse (p. 163)

Root level tag for the ListTagsForResourcesResponse parameters.

Required: Yes

ResourceTagSets (p. 163)

A list of ResourceTagSets containing tags associated with the specified resources.

Type: Array of [ResourceTagSet \(p. 449\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/tags/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourceRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ResourceIds>
    <ResourceId>abcdef11-2222-3333-4444-555555fedcba</ResourceId>
    <ResourceId>aaaaaaaa-1234-5678-9012-bbbbbbbccccc</ResourceId>
  </ResourceIds>
</ListTagsForResourceRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourceResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ResourceTagSets>
    <ResourceTagSet>
      <ResourceType>healthcheck</ResourceType>
      <ResourceId>abcdef11-2222-3333-4444-555555fedcba</ResourceId>
      <Tags>
        <Tag>
          <Key>Owner</Key>
          <Value>dbadmin</Value>
        </Tag>
      </Tags>
    </ResourceTagSet>
    <ResourceTagSet>
      <ResourceType>healthcheck</ResourceType>
      <ResourceId>aaaaaaaa-1234-5678-9012-bbbbbbbccccc</ResourceId>
      <Tags>
        <Tag>
          <Key>Cost Center</Key>
          <Value>80432</Value>
        </Tag>
      </Tags>
    </ResourceTagSet>
  </ResourceTagSets>
</ListTagsForResourceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTrafficPolicies

Service: Amazon Route 53

Gets information about the latest version for every traffic policy that is associated with the current AWS account. Policies are listed in the order that they were created in.

Request Syntax

```
GET /2013-04-01/trafficpolicies?maxitems=MaxItems&trafficpolicyid=TrafficPolicyIdMarker
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

maxitems (p. 167)

(Optional) The maximum number of traffic policies that you want Amazon Route 53 to return in response to this request. If you have more than *MaxItems* traffic policies, the value of *IsTruncated* in the response is *true*, and the value of *TrafficPolicyIdMarker* is the ID of the first traffic policy that Route 53 will return if you submit another request.

trafficpolicyid (p. 167)

(Conditional) For your first request to *ListTrafficPolicies*, don't include the *TrafficPolicyIdMarker* parameter.

If you have more traffic policies than the value of *MaxItems*, *ListTrafficPolicies* returns only the first *MaxItems* traffic policies. To get the next group of policies, submit another request to *ListTrafficPolicies*. For the value of *TrafficPolicyIdMarker*, specify the value of *TrafficPolicyIdMarker* that was returned in the previous response.

Length Constraints: Minimum length of 1. Maximum length of 36.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPoliciesResponse>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicyIdMarker>string</TrafficPolicyIdMarker>
  <TrafficPolicySummaries>
    <TrafficPolicySummary>
      <Id>string</Id>
      <LatestVersion>integer</LatestVersion>
      <Name>string</Name>
      <TrafficPolicyCount>integer</TrafficPolicyCount>
      <Type>string</Type>
    </TrafficPolicySummary>
  </TrafficPolicySummaries>
</ListTrafficPoliciesResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTrafficPoliciesResponse (p. 167)

Root level tag for the ListTrafficPoliciesResponse parameters.

Required: Yes

IsTruncated (p. 167)

A flag that indicates whether there are more traffic policies to be listed. If the response was truncated, you can get the next group of traffic policies by submitting another `ListTrafficPolicies` request and specifying the value of `TrafficPolicyIdMarker` in the `TrafficPolicyIdMarker` request parameter.

Type: Boolean

MaxItems (p. 167)

The value that you specified for the `MaxItems` parameter in the `ListTrafficPolicies` request that produced the current response.

Type: String

TrafficPolicyIdMarker (p. 167)

If the value of `IsTruncated` is true, `TrafficPolicyIdMarker` is the ID of the first traffic policy in the next group of `MaxItems` traffic policies.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

TrafficPolicySummaries (p. 167)

A list that contains one `TrafficPolicySummary` element for each traffic policy that was created by the current AWS account.

Type: Array of [TrafficPolicySummary \(p. 458\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

```
GET /2013-04-01/trafficpolicies?maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPoliciesResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicySummaries>
    <TrafficPolicySummary>
      <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
      <Name>MyTrafficPolicy</Name>
      <Type>A</Type>
      <LatestVersion>77</LatestVersion>
      <TrafficPolicyCount>44</TrafficPolicyCount>
    </TrafficPolicySummary>
  </TrafficPolicySummaries>
  <IsTruncated>true</IsTruncated>
  <TrafficPolicyIdMarker>12345678-abcd-9876-fedc-1a2b3c4de5f7</TrafficPolicyIdMarker>
  <MaxItems>1</MaxItems>
</ListTrafficPoliciesResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTrafficPolicyInstances

Service: Amazon Route 53

Gets information about the traffic policy instances that you created by using the current AWS account.

Note

After you submit an `UpdateTrafficPolicyInstance` request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the `State` response element.

Route 53 returns a maximum of 100 items in each response. If you have a lot of traffic policy instances, you can use the `MaxItems` parameter to list them in groups of up to 100.

Request Syntax

```
GET /2013-04-01/trafficpolicyinstances?
hostedzoneid=HostedZoneIdMarker&maxitems=MaxItems&trafficpolicyinstancename=TrafficPolicyInstanceNameMarker
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

hostedzoneid (p. 170)

If the value of `IsTruncated` in the previous response was `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstances` request. For the value of `HostedZoneId`, specify the value of `HostedZoneIdMarker` from the previous response, which is the hosted zone ID of the first traffic policy instance in the next group of traffic policy instances.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 32.

maxitems (p. 170)

The maximum number of traffic policy instances that you want Amazon Route 53 to return in response to a `ListTrafficPolicyInstances` request. If you have more than `MaxItems` traffic policy instances, the value of the `IsTruncated` element in the response is `true`, and the values of `HostedZoneIdMarker`, `TrafficPolicyInstanceNameMarker`, and `TrafficPolicyInstanceTypeMarker` represent the first traffic policy instance in the next group of `MaxItems` traffic policy instances.

trafficpolicyinstancename (p. 170)

If the value of `IsTruncated` in the previous response was `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstances` request. For the value of `trafficpolicyinstancename`, specify the value of `TrafficPolicyInstanceNameMarker` from the previous response, which is the name of the first traffic policy instance in the next group of traffic policy instances.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 1024.

trafficpolicyinstancetype (p. 170)

If the value of `IsTruncated` in the previous response was `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstances` request. For the value of `trafficpolicyinstancetype`, specify the value of `TrafficPolicyInstanceTypeMarker` from the previous response, which is the type of the first traffic policy instance in the next group of traffic policy instances.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesResponse>
  <HostedZoneIdMarker>string</HostedZoneIdMarker>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicyInstanceNameMarker>string</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <HostedZoneId>string</HostedZoneId>
      <Id>string</Id>
      <Message>string</Message>
      <Name>string</Name>
      <State>string</State>
      <TrafficPolicyId>string</TrafficPolicyId>
      <TrafficPolicyType>string</TrafficPolicyType>
      <TrafficPolicyVersion>integer</TrafficPolicyVersion>
      <TTL>long</TTL>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <TrafficPolicyInstanceTypeMarker>string</TrafficPolicyInstanceTypeMarker>
</ListTrafficPolicyInstancesResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTrafficPolicyInstancesResponse (p. 171)

Root level tag for the `ListTrafficPolicyInstancesResponse` parameters.

Required: Yes

HostedZoneIdMarker (p. 171)

If `IsTruncated` is `true`, `HostedZoneIdMarker` is the ID of the hosted zone of the first traffic policy instance that Route 53 will return if you submit another `ListTrafficPolicyInstances` request.

Type: String

Length Constraints: Maximum length of 32.

IsTruncated (p. 171)

A flag that indicates whether there are more traffic policy instances to be listed. If the response was truncated, you can get more traffic policy instances by calling `ListTrafficPolicyInstances` again and specifying the values of the `HostedZoneIdMarker`, `TrafficPolicyInstanceNameMarker`, and `TrafficPolicyInstanceTypeMarker` in the corresponding request parameters.

Type: Boolean

MaxItems (p. 171)

The value that you specified for the `MaxItems` parameter in the call to `ListTrafficPolicyInstances` that produced the current response.

Type: String

TrafficPolicyInstanceNameMarker (p. 171)

If `IsTruncated` is true, `TrafficPolicyInstanceNameMarker` is the name of the first traffic policy instance that Route 53 will return if you submit another `ListTrafficPolicyInstances` request.

Type: String

Length Constraints: Maximum length of 1024.

TrafficPolicyInstances (p. 171)

A list that contains one `TrafficPolicyInstance` element for each traffic policy instance that matches the elements in the request.

Type: Array of [TrafficPolicyInstance \(p. 455\)](#) objects

TrafficPolicyInstanceTypeMarker (p. 171)

If `IsTruncated` is true, `TrafficPolicyInstanceTypeMarker` is the DNS type of the resource record sets that are associated with the first traffic policy instance that Amazon Route 53 will return if you submit another `ListTrafficPolicyInstances` request.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

The following example shows a request after the first request. (For the first request, you'd specify only the `maxitems` parameter.)

```
GET /2013-04-01/trafficpolicyinstances?hostedzoneid=Z1D633PJN98FT9
    &trafficpolicyinstancename=www.example.com
    &trafficpolicyinstancetype=A
    &maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
      <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
      <Name>www.example.com</Name>
      <TTL>300</TTL>
      <State>Applied</State>
      <Message/>
      <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
      <TrafficPolicyVersion>7</TrafficPolicyVersion>
      <TrafficPolicyType>A</TrafficPolicyType>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <HostedZoneIdMarker>Z217DLHR85079R</HostedZoneIdMarker>
  <TrafficPolicyInstanceNameMarker>www.example.net</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstanceTypeMarker>A</TrafficPolicyInstanceTypeMarker>
  <IsTruncated>true</IsTruncated>
  <MaxItems>1</MaxItems>
</ListTrafficPolicyInstancesResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTrafficPolicyInstancesByHostedZone

Service: Amazon Route 53

Gets information about the traffic policy instances that you created in a specified hosted zone.

Note

After you submit a `CreateTrafficPolicyInstance` or an `UpdateTrafficPolicyInstance` request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the `State` response element.

Route 53 returns a maximum of 100 items in each response. If you have a lot of traffic policy instances, you can use the `MaxItems` parameter to list them in groups of up to 100.

Request Syntax

```
GET /2013-04-01/trafficpolicyinstances/hostedzone?
id=HostedZoneId&maxitems=MaxItems&trafficpolicyinstancename=TrafficPolicyInstanceNameMarker&trafficpoli
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

`id` (p. 174)

The ID of the hosted zone that you want to list traffic policy instances for.

Length Constraints: Maximum length of 32.

`maxitems` (p. 174)

The maximum number of traffic policy instances to be included in the response body for this request. If you have more than `MaxItems` traffic policy instances, the value of the `IsTruncated` element in the response is `true`, and the values of `HostedZoneIdMarker`, `TrafficPolicyInstanceNameMarker`, and `TrafficPolicyInstanceTypeMarker` represent the first traffic policy instance that Amazon Route 53 will return if you submit another request.

`trafficpolicyinstancename` (p. 174)

If the value of `IsTruncated` in the previous response is `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstances` request. For the value of `trafficpolicyinstancename`, specify the value of `TrafficPolicyInstanceNameMarker` from the previous response, which is the name of the first traffic policy instance in the next group of traffic policy instances.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 1024.

`trafficpolicyinstancetype` (p. 174)

If the value of `IsTruncated` in the previous response is `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstances` request. For the value of `trafficpolicyinstancetype`, specify the value of `TrafficPolicyInstanceTypeMarker` from the previous response, which is the type of the first traffic policy instance in the next group of traffic policy instances.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesByHostedZoneResponse>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicyInstanceNameMarker>string</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <HostedZoneId>string</HostedZoneId>
      <Id>string</Id>
      <Message>string</Message>
      <Name>string</Name>
      <State>string</State>
      <TrafficPolicyId>string</TrafficPolicyId>
      <TrafficPolicyType>string</TrafficPolicyType>
      <TrafficPolicyVersion>integer</TrafficPolicyVersion>
      <TTL>long</TTL>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <TrafficPolicyInstanceTypeMarker>string</TrafficPolicyInstanceTypeMarker>
</ListTrafficPolicyInstancesByHostedZoneResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTrafficPolicyInstancesByHostedZoneResponse (p. 175)

Root level tag for the ListTrafficPolicyInstancesByHostedZoneResponse parameters.

Required: Yes

IsTruncated (p. 175)

A flag that indicates whether there are more traffic policy instances to be listed. If the response was truncated, you can get the next group of traffic policy instances by submitting another ListTrafficPolicyInstancesByHostedZone request and specifying the values of HostedZoneIdMarker, TrafficPolicyInstanceNameMarker, and TrafficPolicyInstanceTypeMarker in the corresponding request parameters.

Type: Boolean

MaxItems (p. 175)

The value that you specified for the MaxItems parameter in the ListTrafficPolicyInstancesByHostedZone request that produced the current response.

Type: String

TrafficPolicyInstanceNameMarker (p. 175)

If `IsTruncated` is true, `TrafficPolicyInstanceNameMarker` is the name of the first traffic policy instance in the next group of traffic policy instances.

Type: String

Length Constraints: Maximum length of 1024.

TrafficPolicyInstances (p. 175)

A list that contains one `TrafficPolicyInstance` element for each traffic policy instance that matches the elements in the request.

Type: Array of [TrafficPolicyInstance \(p. 455\)](#) objects

TrafficPolicyInstanceTypeMarker (p. 175)

If `IsTruncated` is true, `TrafficPolicyInstanceTypeMarker` is the DNS type of the resource record sets that are associated with the first traffic policy instance in the next group of traffic policy instances.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

The following example shows a request after the first request. For the first request, you'd specify only the `maxitems` parameter or no parameters at all.

```
GET /2013-04-01/trafficpolicyinstances/hostedzone?id=Z1D633PJN98FT9
&trafficpolicyinstancename=www.example.com
&trafficpolicyinstancetype=A
```

```
&maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesByHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
      <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
      <Name>www.example.com</Name>
      <TTL>300</TTL>
      <State>Applied</State>
      <Message/>
      <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
      <TrafficPolicyVersion>7</TrafficPolicyVersion>
      <TrafficPolicyType>A</TrafficPolicyType>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <HostedZoneIdMarker>Z217DLHR85079R</HostedZoneIdMarker>
  <TrafficPolicyInstanceNameMarker>wwwtest.example.com</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstanceTypeMarker>A</TrafficPolicyInstanceTypeMarker>
  <IsTruncated>true</IsTruncated>
  <MaxItems>1</MaxItems>
</ListTrafficPolicyInstancesByHostedZoneResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTrafficPolicyInstancesByPolicy

Service: Amazon Route 53

Gets information about the traffic policy instances that you created by using a specific traffic policy version.

Note

After you submit a `CreateTrafficPolicyInstance` or an `UpdateTrafficPolicyInstance` request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the `State` response element.

Route 53 returns a maximum of 100 items in each response. If you have a lot of traffic policy instances, you can use the `MaxItems` parameter to list them in groups of up to 100.

Request Syntax

```
GET /2013-04-01/trafficpolicyinstances/trafficpolicy?
hostedzoneid=HostedZoneIdMarker&id=TrafficPolicyId&maxitems=MaxItems&trafficpolicyinstancename=TrafficPolicyInstanceNameMarker
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

hostedzoneid (p. 178)

If the value of `IsTruncated` in the previous response was `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstancesByPolicy` request.

For the value of `hostedzoneid`, specify the value of `HostedZoneIdMarker` from the previous response, which is the hosted zone ID of the first traffic policy instance that Amazon Route 53 will return if you submit another request.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 32.

id (p. 178)

The ID of the traffic policy for which you want to list traffic policy instances.

Length Constraints: Minimum length of 1. Maximum length of 36.

maxitems (p. 178)

The maximum number of traffic policy instances to be included in the response body for this request. If you have more than `MaxItems` traffic policy instances, the value of the `IsTruncated` element in the response is `true`, and the values of `HostedZoneIdMarker`, `TrafficPolicyInstanceNameMarker`, and `TrafficPolicyInstanceTypeMarker` represent the first traffic policy instance that Amazon Route 53 will return if you submit another request.

trafficpolicyinstancename (p. 178)

If the value of `IsTruncated` in the previous response was `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstancesByPolicy` request.

For the value of `trafficpolicyinstancename`, specify the value of `TrafficPolicyInstanceNameMarker` from the previous response, which is the name of the first traffic policy instance that Amazon Route 53 will return if you submit another request.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 1024.

trafficpolicyinstancetype (p. 178)

If the value of `IsTruncated` in the previous response was `true`, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstancesByPolicy` request.

For the value of `trafficpolicyinstancetype`, specify the value of `TrafficPolicyInstanceTypeMarker` from the previous response, which is the name of the first traffic policy instance that Amazon Route 53 will return if you submit another request.

If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

version (p. 178)

The version of the traffic policy for which you want to list traffic policy instances. The version must be associated with the traffic policy that is specified by `TrafficPolicyId`.

Valid Range: Minimum value of 1. Maximum value of 1000.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesByPolicyResponse>
  <HostedZoneIdMarker>string</HostedZoneIdMarker>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicyInstanceNameMarker>string</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <HostedZoneId>string</HostedZoneId>
      <Id>string</Id>
      <Message>string</Message>
      <Name>string</Name>
      <State>string</State>
      <TrafficPolicyId>string</TrafficPolicyId>
      <TrafficPolicyType>string</TrafficPolicyType>
      <TrafficPolicyVersion>integer</TrafficPolicyVersion>
      <TTL>long</TTL>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <TrafficPolicyInstanceTypeMarker>string</TrafficPolicyInstanceTypeMarker>
</ListTrafficPolicyInstancesByPolicyResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTrafficPolicyInstancesByPolicyResponse (p. 179)

Root level tag for the ListTrafficPolicyInstancesByPolicyResponse parameters.

Required: Yes

HostedZoneIdMarker (p. 179)

If `IsTruncated` is `true`, `HostedZoneIdMarker` is the ID of the hosted zone of the first traffic policy instance in the next group of traffic policy instances.

Type: String

Length Constraints: Maximum length of 32.

IsTruncated (p. 179)

A flag that indicates whether there are more traffic policy instances to be listed. If the response was truncated, you can get the next group of traffic policy instances by calling `ListTrafficPolicyInstancesByPolicy` again and specifying the values of the `HostedZoneIdMarker`, `TrafficPolicyInstanceNameMarker`, and `TrafficPolicyInstanceTypeMarker` elements in the corresponding request parameters.

Type: Boolean

MaxItems (p. 179)

The value that you specified for the `MaxItems` parameter in the call to `ListTrafficPolicyInstancesByPolicy` that produced the current response.

Type: String

TrafficPolicyInstanceNameMarker (p. 179)

If `IsTruncated` is `true`, `TrafficPolicyInstanceNameMarker` is the name of the first traffic policy instance in the next group of `MaxItems` traffic policy instances.

Type: String

Length Constraints: Maximum length of 1024.

TrafficPolicyInstances (p. 179)

A list that contains one `TrafficPolicyInstance` element for each traffic policy instance that matches the elements in the request.

Type: Array of [TrafficPolicyInstance \(p. 455\)](#) objects

TrafficPolicyInstanceTypeMarker (p. 179)

If `IsTruncated` is `true`, `TrafficPolicyInstanceTypeMarker` is the DNS type of the resource record sets that are associated with the first traffic policy instance in the next group of `MaxItems` traffic policy instances.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

The following example shows a request after the first request. For the first request, you'd specify only the `TrafficPolicyId`, `TrafficPolicyVersion`, and (optionally) `MaxItems` parameters.

```
GET /2013-04-01/trafficpolicyinstances/trafficpolicy?id=12345678-abcd-9876-
fedc-1a2b3c4de5f6
&version=42
&hostedzoneid=Z1D633PJN98FT9
&trafficpolicyinstancename=www.example.com
&trafficpolicyinstancetype=A
&maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesByPolicyResponse xmlns="https://route53.amazonaws.com/
doc/2013-04-01/">
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
      <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
      <Name>www.example.com</Name>
      <TTL>300</TTL>
      <State>Applied</State>
      <Message/>
      <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
      <TrafficPolicyVersion>42</TrafficPolicyVersion>
      <TrafficPolicyType>A</TrafficPolicyType>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <HostedZoneIdMarker>Z217DLHR85079R</HostedZoneIdMarker>
  <TrafficPolicyInstanceNameMarker>www-test.example.com</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstanceTypeMarker>A</TrafficPolicyInstanceTypeMarker>
  <IsTruncated>true</IsTruncated>
  <MaxItems>1</MaxItems>
```

```
</ListTrafficPolicyInstancesByPolicyResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTrafficPolicyVersions

Service: Amazon Route 53

Gets information about all of the versions for a specified traffic policy.

Traffic policy versions are listed in numerical order by `VersionNumber`.

Request Syntax

```
GET /2013-04-01/trafficpolicies/Id/versions?  
maxitems=MaxItems&trafficpolicyversion=TrafficPolicyVersionMarker HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

`Id` (p. 183)

Specify the value of `Id` of the traffic policy for which you want to list all versions.

Length Constraints: Minimum length of 1. Maximum length of 36.

`maxitems` (p. 183)

The maximum number of traffic policy versions that you want Amazon Route 53 to include in the response body for this request. If the specified traffic policy has more than `MaxItems` versions, the value of `IsTruncated` in the response is `true`, and the value of the `TrafficPolicyVersionMarker` element is the ID of the first version that Route 53 will return if you submit another request.

`trafficpolicyversion` (p. 183)

For your first request to `ListTrafficPolicyVersions`, don't include the `TrafficPolicyVersionMarker` parameter.

If you have more traffic policy versions than the value of `MaxItems`, `ListTrafficPolicyVersions` returns only the first group of `MaxItems` versions. To get more traffic policy versions, submit another `ListTrafficPolicyVersions` request. For the value of `TrafficPolicyVersionMarker`, specify the value of `TrafficPolicyVersionMarker` in the previous response.

Length Constraints: Maximum length of 4.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
<?xml version="1.0" encoding="UTF-8"?>  
<ListTrafficPolicyVersionsResponse>  
  <IsTruncated>boolean</IsTruncated>  
  <MaxItems>string</MaxItems>  
  <TrafficPolicies>  
    <TrafficPolicy>  
      <Comment>string</Comment>
```

```
<Document>string</Document>
<Id>string</Id>
<Name>string</Name>
<Type>string</Type>
<Version>integer</Version>
</TrafficPolicy>
</TrafficPolicies>
<TrafficPolicyVersionMarker>string</TrafficPolicyVersionMarker>
</ListTrafficPolicyVersionsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTrafficPolicyVersionsResponse (p. 183)

Root level tag for the ListTrafficPolicyVersionsResponse parameters.

Required: Yes

IsTruncated (p. 183)

A flag that indicates whether there are more traffic policies to be listed. If the response was truncated, you can get the next group of traffic policies by submitting another ListTrafficPolicyVersions request and specifying the value of NextMarker in the marker parameter.

Type: Boolean

MaxItems (p. 183)

The value that you specified for the maxitems parameter in the ListTrafficPolicyVersions request that produced the current response.

Type: String

TrafficPolicies (p. 183)

A list that contains one TrafficPolicy element for each traffic policy version that is associated with the specified traffic policy.

Type: Array of TrafficPolicy (p. 453) objects

TrafficPolicyVersionMarker (p. 183)

If IsTruncated is true, the value of TrafficPolicyVersionMarker identifies the first traffic policy that Amazon Route 53 will return if you submit another request. Call ListTrafficPolicyVersions again and specify the value of TrafficPolicyVersionMarker in the TrafficPolicyVersionMarker request parameter.

This element is present only if IsTruncated is true.

Type: String

Length Constraints: Maximum length of 4.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/versions?maxitems=1
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyVersionsResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicies>
    <TrafficPolicy>
      <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
      <VersionNumber>77</VersionNumber>
      <Name>MyTrafficPolicy</Name>
      <Type>A</Type>
      <Document>JSON-formatted definition of this traffic policy</Definition>
      <Comment>First traffic policy</Comment>
    </TrafficPolicy>
  </TrafficPolicies>
  <IsTruncated>true</IsTruncated>
  <TrafficPolicyVersionMarker>12345678-abcd-9876-fedc-1a2b3c4de5f7</TrafficPolicyVersionMarker>
  <MaxItems>1</MaxItems>
</ListTrafficPolicyVersionsResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListVPCAssociationAuthorizations

Service: Amazon Route 53

Gets a list of the VPCs that were created by other accounts and that can be associated with a specified hosted zone because you've submitted one or more `CreateVPCAssociationAuthorization` requests.

The response includes a `VPCs` element with a `VPC` child element for each VPC that can be associated with the hosted zone.

Request Syntax

```
GET /2013-04-01/hostedzone/Id/authorizevpcassociation?
maxresults=MaxResults&nexttoken=NextToken HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

`Id` (p. 186)

The ID of the hosted zone for which you want a list of VPCs that can be associated with the hosted zone.

Length Constraints: Maximum length of 32.

`maxresults` (p. 186)

Optional: An integer that specifies the maximum number of VPCs that you want Amazon Route 53 to return. If you don't specify a value for `MaxResults`, Route 53 returns up to 50 VPCs per page.

`nexttoken` (p. 186)

Optional: If a response includes a `NextToken` element, there are more VPCs that can be associated with the specified hosted zone. To get the next page of results, submit another request, and include the value of `NextToken` from the response in the `nexttoken` parameter in another `ListVPCAssociationAuthorizations` request.

Length Constraints: Maximum length of 256.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListVPCAssociationAuthorizationsResponse>
  <HostedZoneId>string</HostedZoneId>
  <NextToken>string</NextToken>
  <VPCs>
    <VPC>
      <VPCId>string</VPCId>
      <VPCRegion>string</VPCRegion>
    </VPC>
  </VPCs>
```



```
</ListVPCAssociationAuthorizationsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListVPCAssociationAuthorizationsResponse (p. 186)

Root level tag for the ListVPCAssociationAuthorizationsResponse parameters.

Required: Yes

HostedZoneId (p. 186)

The ID of the hosted zone that you can associate the listed VPCs with.

Type: String

Length Constraints: Maximum length of 32.

NextToken (p. 186)

When the response includes a NextToken element, there are more VPCs that can be associated with the specified hosted zone. To get the next page of VPCs, submit another ListVPCAssociationAuthorizations request, and include the value of the NextToken element from the response in the nexttoken request parameter.

Type: String

Length Constraints: Maximum length of 256.

VPCs (p. 186)

The list of VPCs that are authorized to be associated with the specified hosted zone.

Type: Array of [VPC \(p. 460\)](#) objects

Array Members: Minimum number of 1 item.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidPaginationToken

The value that you specified to get the second or subsequent page of results is invalid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/hostedzone/Z1PA6795UKMFR9/authorizevpcassociation&maxresults=1 HTTP/1.1
```

Example Response

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListVPCAssociationAuthorizationsResponse>
  <HostedZoneId>Z1PA6795UKMFR9</HostedZoneId>
  <NextToken>Z222222VVVVVVV</NextToken>
  <VPCs>
    <VPC>
      <VPCId>vpc-a1b2c3d4e5</VPCId>
      <VPCRegion>us-east-2</VPCRegion>
    </VPC>
  </VPCs>
</ListVPCAssociationAuthorizationsResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TestDNSAnswer

Service: Amazon Route 53

Gets the value that Amazon Route 53 returns in response to a DNS request for a specified record name and type. You can optionally specify the IP address of a DNS resolver, an EDNS0 client subnet IP address, and a subnet mask.

Request Syntax

```
GET /2013-04-01/testdnsanswer?
edns0clientsubnetip=EDNS0ClientSubnetIP&edns0clientsubnetmask=EDNS0ClientSubnetMask&hostedzoneid=HostedZoneId
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

edns0clientsubnetip (p. 189)

If the resolver that you specified for resolverip supports EDNS0, specify the IPv4 or IPv6 address of a client in the applicable location, for example, 192.0.2.44 or 2001:db8:85a3::8a2e:370:7334.

Length Constraints: Maximum length of 45.

Pattern: ([^]((([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}([0-9]|1[0-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))#|^((([0-9a-fA-F]{1,4}:){7,7}([0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,7}|([0-9a-fA-F]{1,4}:){1,6}:([0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,5}|(:[0-9a-fA-F]{1,4}){1,2}|([0-9a-fA-F]{1,4}:){1,4}|(:[0-9a-fA-F]{1,4}){1,3}|([0-9a-fA-F]{1,4}:){1,3}|(:[0-9a-fA-F]{1,4}){1,2}|([0-9a-fA-F]{1,4}:){1,2}|(:[0-9a-fA-F]{1,4}){1,5}|[0-9a-fA-F]{1,4}:((:[0-9a-fA-F]{1,4}){1,6})|:((:[0-9a-fA-F]{1,4}){1,7}|:)|fe80:(:[0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,}|:|ffff:(:[0-1,4]){0,1}|:|(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}|(25[0-5]|(2[0-4]|1{0,1}[0-9]))\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))\$)

edns0clientsubnetmask (p. 189)

If you specify an IP address for edns0clientsubnetip, you can optionally specify the number of bits of the IP address that you want the checking tool to include in the DNS query. For example, if you specify 192.0.2.44 for edns0clientsubnetip and 24 for edns0clientsubnetmask, the checking tool will simulate a request from 192.0.2.0/24. The default value is 24 bits for IPv4 addresses and 64 bits for IPv6 addresses.

The range of valid values depends on whether edns0clientsubnetip is an IPv4 or an IPv6 address:

- **IPv4:** Specify a value between 0 and 32
- **IPv6:** Specify a value between 0 and 128

Length Constraints: Minimum length of 0. Maximum length of 3.

hostedzoneid (p. 189)

The ID of the hosted zone that you want Amazon Route 53 to simulate a query for.

Length Constraints: Maximum length of 32.

recordname (p. 189)

The name of the resource record set that you want Amazon Route 53 to simulate a query for.

Length Constraints: Maximum length of 1024.

recordtype (p. 189)

The type of the resource record set.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

resolverip (p. 189)

If you want to simulate a request from a specific DNS resolver, specify the IP address for that resolver. If you omit this value, `TestDnsAnswer` uses the IP address of a DNS resolver in the AWS US East (N. Virginia) Region (`us-east-1`).

Length Constraints: Maximum length of 45.

Pattern: `(^(((0-9)|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}((0-9)|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))$|^((0-9a-fA-F){1,4}:){7,7}([0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,7}|([0-9a-fA-F]{1,4}:){1,6}:([0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){1,2}|([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){1,3}|([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){1,4}|([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){1,5}|[0-9a-fA-F]{1,4}:(:[0-9a-fA-F]{1,4}){1,6})|(:[0-9a-fA-F]{1,4}){1,7}|:)|fe80:(:[0-9a-fA-F]{1,4}){0,4}:[0-9a-fA-F]{1,4}%[0-9a-zA-Z]{1,}|:|::ffff(:0{1,4}){0,1}:(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}:(25[0-5]|(2[0-4]|1{0,1}[0-9]))\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}:(25[0-5]|(2[0-4]|1{0,1}[0-9]))\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}:(25[0-5]|(2[0-4]|1{0,1}[0-9]))$)`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<TestDNSAnswerResponse>
  <Nameserver>string</Nameserver>
  <Protocol>string</Protocol>
  <RecordData>
    <RecordDataEntry>string</RecordDataEntry>
  </RecordData>
  <RecordName>string</RecordName>
  <RecordType>string</RecordType>
  <ResponseCode>string</ResponseCode>
</TestDNSAnswerResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

TestDNSAnswerResponse (p. 190)

Root level tag for the `TestDNSAnswerResponse` parameters.

Required: Yes

Nameserver (p. 190)

The Amazon Route 53 name server used to respond to the request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Protocol (p. 190)

The protocol that Amazon Route 53 used to respond to the request, either UDP or TCP.

Type: String

RecordData (p. 190)

A list that contains values that Amazon Route 53 returned for this resource record set.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 512.

RecordName (p. 190)

The name of the resource record set that you submitted a request for.

Type: String

Length Constraints: Maximum length of 1024.

RecordType (p. 190)

The type of the resource record set that you submitted a request for.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

ResponseCode (p. 190)

A code that indicates whether the request is valid or not. The most common response code is NOERROR, meaning that the request is valid. If the response is not valid, Amazon Route 53 returns a response code that describes the error. For a list of possible response codes, see [DNS RCODES](#) on the IANA website.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

```
GET /2013-04-01/testdnsanswer?
hostedzoneid=Z1111111QQQQQQQ&recordname=www.example.com&recordtype=A&resolverip=192.0.2.44
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<TestDnsAnswerResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Nameserver>ns-2048.awsdns-64.com</Nameserver>
  <RecordName>www.example.com</RecordName>
  <RecordType>A</RecordType>
  <RecordData>
    <RecordDataEntry>198.51.100.222</RecordDataEntry>
  </RecordData>
  <ResponseCode>NOERROR</ResponseCode>
  <Protocol>UDP</Protocol>
</TestDnsAnswerResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateHealthCheck

Service: Amazon Route 53

Updates an existing health check. Note that some values can't be updated.

For more information about updating health checks, see [Creating, Updating, and Deleting Health Checks](#) in the *Amazon Route 53 Developer Guide*.

Request Syntax

```
POST /2013-04-01/healthcheck/HealthCheckId HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <AlarmIdentifier>
    <Name>string</Name>
    <Region>string</Region>
  </AlarmIdentifier>
  <ChildHealthChecks>
    <ChildHealthCheck>string</ChildHealthCheck>
  </ChildHealthChecks>
  <Disabled>boolean</Disabled>
  <EnableSNI>boolean</EnableSNI>
  <FailureThreshold>integer</FailureThreshold>
  <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
  <HealthCheckVersion>long</HealthCheckVersion>
  <HealthThreshold>integer</HealthThreshold>
  <InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
  <Inverted>boolean</Inverted>
  <IPAddress>string</IPAddress>
  <Port>integer</Port>
  <Regions>
    <Region>string</Region>
  </Regions>
  <ResetElements>
    <ResettableElementName>string</ResettableElementName>
  </ResetElements>
  <ResourcePath>string</ResourcePath>
  <SearchString>string</SearchString>
</UpdateHealthCheckRequest>
```

URI Request Parameters

The request requires the following URI parameters.

HealthCheckId (p. 193)

The ID for the health check for which you want detailed information. When you created the health check, `CreateHealthCheck` returned the ID in the response, in the `HealthCheckId` element.

Length Constraints: Maximum length of 64.

Request Body

The request accepts the following data in XML format.

UpdateHealthCheckRequest (p. 193)

Root level tag for the `UpdateHealthCheckRequest` parameters.

Required: Yes

AlarmIdentifier (p. 193)

A complex type that identifies the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether the specified health check is healthy.

Type: [AlarmIdentifier \(p. 405\)](#) object

Required: No

ChildHealthChecks (p. 193)

A complex type that contains one `ChildHealthCheck` element for each health check that you want to associate with a `CALCULATED` health check.

Type: Array of strings

Array Members: Maximum number of 256 items.

Length Constraints: Maximum length of 64.

Required: No

Disabled (p. 193)

Stops Route 53 from performing health checks. When you disable a health check, here's what happens:

- **Health checks that check the health of endpoints:** Route 53 stops submitting requests to your application, server, or other resource.
- **Calculated health checks:** Route 53 stops aggregating the status of the referenced health checks.
- **Health checks that monitor CloudWatch alarms:** Route 53 stops monitoring the corresponding CloudWatch metrics.

After you disable a health check, Route 53 considers the status of the health check to always be healthy. If you configured DNS failover, Route 53 continues to route traffic to the corresponding resources. If you want to stop routing traffic to a resource, change the value of [Inverted](#).

Charges for a health check still apply when the health check is disabled. For more information, see [Amazon Route 53 Pricing](#).

Type: Boolean

Required: No

EnableSNI (p. 193)

Specify whether you want Amazon Route 53 to send the value of `FullyQualifiedDomainName` to the endpoint in the `client_hello` message during TLS negotiation. This allows the endpoint to respond to HTTPS health check requests with the applicable SSL/TLS certificate.

Some endpoints require that HTTPS requests include the host name in the `client_hello` message. If you don't enable SNI, the status of the health check will be `SSL alert handshake_failure`. A health check can also have that status for other reasons. If SNI is enabled and you're still getting the error, check the SSL/TLS configuration on your endpoint and confirm that your certificate is valid.

The SSL/TLS certificate on your endpoint includes a domain name in the `Common Name` field and possibly several more in the `Subject Alternative Names` field. One of the domain names in the certificate should match the value that you specify for `FullyQualifiedDomainName`. If the endpoint responds to the `client_hello` message with a certificate that does not include the domain name that you specified in `FullyQualifiedDomainName`, a health checker will retry the handshake. In the second attempt, the health checker will omit `FullyQualifiedDomainName` from the `client_hello` message.

Type: Boolean

Required: No

FailureThreshold (p. 193)

The number of consecutive health checks that an endpoint must pass or fail for Amazon Route 53 to change the current status of the endpoint from unhealthy to healthy or vice versa. For more information, see [How Amazon Route 53 Determines Whether an Endpoint Is Healthy](#) in the *Amazon Route 53 Developer Guide*.

If you don't specify a value for `FailureThreshold`, the default value is three health checks.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

FullyQualifiedDomainName (p. 193)

Amazon Route 53 behavior depends on whether you specify a value for `IPAddress`.

Note

If a health check already has a value for `IPAddress`, you can change the value. However, you can't update an existing health check to add or remove the value of `IPAddress`.

If you specify a value for `IPAddress`:

Route 53 sends health check requests to the specified IPv4 or IPv6 address and passes the value of `FullyQualifiedDomainName` in the `Host` header for all health checks except TCP health checks. This is typically the fully qualified DNS name of the endpoint on which you want Route 53 to perform health checks.

When Route 53 checks the health of an endpoint, here is how it constructs the `Host` header:

- If you specify a value of 80 for `Port` and `HTTP` or `HTTP_STR_MATCH` for `Type`, Route 53 passes the value of `FullyQualifiedDomainName` to the endpoint in the `Host` header.
- If you specify a value of 443 for `Port` and `HTTPS` or `HTTPS_STR_MATCH` for `Type`, Route 53 passes the value of `FullyQualifiedDomainName` to the endpoint in the `Host` header.
- If you specify another value for `Port` and any value except `TCP` for `Type`, Route 53 passes `FullyQualifiedDomainName:Port` to the endpoint in the `Host` header.

If you don't specify a value for `FullyQualifiedDomainName`, Route 53 substitutes the value of `IPAddress` in the `Host` header in each of the above cases.

If you don't specify a value for `IPAddress`:

If you don't specify a value for `IPAddress`, Route 53 sends a DNS request to the domain that you specify in `FullyQualifiedDomainName` at the interval you specify in `RequestInterval`. Using an IPv4 address that is returned by DNS, Route 53 then checks the health of the endpoint.

Note

If you don't specify a value for `IPAddress`, Route 53 uses only IPv4 to send health checks to the endpoint. If there's no resource record set with a type of A for the name that you specify for `FullyQualifiedDomainName`, the health check fails with a "DNS resolution failed" error.

If you want to check the health of weighted, latency, or failover resource record sets and you choose to specify the endpoint only by `FullyQualifiedDomainName`, we recommend that you create a separate health check for each endpoint. For example, create a health check for each HTTP server that is serving content for `www.example.com`. For the value of `FullyQualifiedDomainName`,

specify the domain name of the server (such as `us-east-2-www.example.com`), not the name of the resource record sets (`www.example.com`).

Important

In this configuration, if the value of `FullyQualifiedDomainName` matches the name of the resource record sets and you then associate the health check with those resource record sets, health check results will be unpredictable.

In addition, if the value of `Type` is `HTTP`, `HTTPS`, `HTTP_STR_MATCH`, or `HTTPS_STR_MATCH`, Route 53 passes the value of `FullyQualifiedDomainName` in the `Host` header, as it does when you specify a value for `IPAddress`. If the value of `Type` is `TCP`, Route 53 doesn't pass a `Host` header.

Type: String

Length Constraints: Maximum length of 255.

Required: No

HealthCheckVersion (p. 193)

A sequential counter that Amazon Route 53 sets to 1 when you create a health check and increments by 1 each time you update settings for the health check.

We recommend that you use `GetHealthCheck` or `ListHealthChecks` to get the current value of `HealthCheckVersion` for the health check that you want to update, and that you include that value in your `UpdateHealthCheck` request. This prevents Route 53 from overwriting an intervening update:

- If the value in the `UpdateHealthCheck` request matches the value of `HealthCheckVersion` in the health check, Route 53 updates the health check with the new settings.
- If the value of `HealthCheckVersion` in the health check is greater, the health check was changed after you got the version number. Route 53 does not update the health check, and it returns a `HealthCheckVersionMismatch` error.

Type: Long

Valid Range: Minimum value of 1.

Required: No

HealthThreshold (p. 193)

The number of child health checks that are associated with a `CALCULATED` health that Amazon Route 53 must consider healthy for the `CALCULATED` health check to be considered healthy. To specify the child health checks that you want to associate with a `CALCULATED` health check, use the `ChildHealthChecks` and `ChildHealthCheck` elements.

Note the following:

- If you specify a number greater than the number of child health checks, Route 53 always considers this health check to be unhealthy.
- If you specify 0, Route 53 always considers this health check to be healthy.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 256.

Required: No

InsufficientDataHealthStatus (p. 193)

When CloudWatch has insufficient data about the metric to determine the alarm state, the status that you want Amazon Route 53 to assign to the health check:

- **Healthy:** Route 53 considers the health check to be healthy.
- **Unhealthy:** Route 53 considers the health check to be unhealthy.
- **LastKnownStatus:** Route 53 uses the status of the health check from the last time CloudWatch had sufficient data to determine the alarm state. For new health checks that have no last known status, the default status for the health check is healthy.

Type: String

Valid Values: `Healthy` | `Unhealthy` | `LastKnownStatus`

Required: No

Inverted (p. 193)

Specify whether you want Amazon Route 53 to invert the status of a health check, for example, to consider a health check unhealthy when it otherwise would be considered healthy.

Type: Boolean

Required: No

IPAddress (p. 193)

The IPv4 or IPv6 IP address for the endpoint that you want Amazon Route 53 to perform health checks on. If you don't specify a value for `IPAddress`, Route 53 sends a DNS request to resolve the domain name that you specify in `FullyQualifiedDomainName` at the interval that you specify in `RequestInterval`. Using an IP address that is returned by DNS, Route 53 then checks the health of the endpoint.

Use one of the following formats for the value of `IPAddress`:

- **IPv4 address:** four values between 0 and 255, separated by periods (`.`), for example, `192.0.2.44`.
- **IPv6 address:** eight groups of four hexadecimal values, separated by colons (`:`), for example, `2001:0db8:85a3:0000:0000:abcd:0001:2345`. You can also shorten IPv6 addresses as described in RFC 5952, for example, `2001:db8:85a3::abcd:1:2345`.

If the endpoint is an EC2 instance, we recommend that you create an Elastic IP address, associate it with your EC2 instance, and specify the Elastic IP address for `IPAddress`. This ensures that the IP address of your instance never changes. For more information, see the applicable documentation:

- Linux: [Elastic IP Addresses \(EIP\)](#) in the *Amazon EC2 User Guide for Linux Instances*
- Windows: [Elastic IP Addresses \(EIP\)](#) in the *Amazon EC2 User Guide for Windows Instances*

Note

If a health check already has a value for `IPAddress`, you can change the value. However, you can't update an existing health check to add or remove the value of `IPAddress`.

For more information, see [FullyQualifiedDomainName](#).

Constraints: Route 53 can't check the health of endpoints for which the IP address is in local, private, non-routable, or multicast ranges. For more information about IP addresses for which you can't create health checks, see the following documents:

- [RFC 5735, Special Use IPv4 Addresses](#)
- [RFC 6598, IANA-Reserved IPv4 Prefix for Shared Address Space](#)
- [RFC 5156, Special-Use IPv6 Addresses](#)

Type: String

Length Constraints: Maximum length of 45.

Pattern: `(^(((0-9)|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}([0-9]|1[0-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))#|^((0-9a-fA-F){1,4}:){7,7}[0-9a-`

```
fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,7}:|([0-9a-fA-F]{1,4}:){1,6}:[0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){1,2}|([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){1,3}|([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){1,4}|([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){1,5}|[0-9a-fA-F]{1,4}:(:[0-9a-fA-F]{1,4}){1,6}|(:[0-9a-fA-F]{1,4}){1,7}|:|fe80:([0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,}|::(ffff(:0{1,4}){0,1}:){0,1}((25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]|([0-9a-fA-F]{1,4}:){1,4}:((25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))$)
```

Required: No

Port (p. 193)

The port on the endpoint that you want Amazon Route 53 to perform health checks on.

Note

Don't specify a value for `Port` when you specify a value for `Type` of `CLOUDWATCH_METRIC` or `CALCULATED`.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

Regions (p. 193)

A complex type that contains one `Region` element for each region that you want Amazon Route 53 health checkers to check the specified endpoint from.

Type: Array of strings

Array Members: Minimum number of 3 items. Maximum number of 64 items.

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

Valid Values: `us-east-1` | `us-west-1` | `us-west-2` | `eu-west-1` | `ap-southeast-1` | `ap-southeast-2` | `ap-northeast-1` | `sa-east-1`

Required: No

ResetElements (p. 193)

A complex type that contains one `ResettableElementName` element for each element that you want to reset to the default value. Valid values for `ResettableElementName` include the following:

- `ChildHealthChecks`: Amazon Route 53 resets `ChildHealthChecks` to null.
- `FullyQualifiedDomainName`: Route 53 resets `FullyQualifiedDomainName` to null.
- `Regions`: Route 53 resets the `Regions` list to the default set of regions.
- `ResourcePath`: Route 53 resets `ResourcePath` to null.

Type: Array of strings

Array Members: Maximum number of 64 items.

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

Valid Values: `FullyQualifiedDomainName` | `Regions` | `ResourcePath` | `ChildHealthChecks`

Required: No

ResourcePath (p. 193)

The path that you want Amazon Route 53 to request when performing health checks. The path can be any value for which your endpoint will return an HTTP status code of 2xx or 3xx when the endpoint is healthy, for example the file `/docs/route53-health-check.html`. You can also include query string parameters, for example, `/welcome.html?language=jp&login=y`.

Specify this value only if you want to change it.

Type: String

Length Constraints: Maximum length of 255.

Required: No

SearchString (p. 193)

If the value of `Type` is `HTTP_STR_MATCH` or `HTTPS_STR_MATCH`, the string that you want Amazon Route 53 to search for in the response body from the specified resource. If the string appears in the response body, Route 53 considers the resource healthy. (You can't change the value of `Type` when you update a health check.)

Type: String

Length Constraints: Maximum length of 255.

Required: No

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckResponse>
  <HealthCheck>
    <CallerReference>string</CallerReference>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>string</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>string</Name>
          <Value>string</Value>
        </Dimension>
      </Dimensions>
      <EvaluationPeriods>integer</EvaluationPeriods>
      <MetricName>string</MetricName>
      <Namespace>string</Namespace>
      <Period>integer</Period>
      <Statistic>string</Statistic>
      <Threshold>double</Threshold>
    </CloudWatchAlarmConfiguration>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>string</Name>
        <Region>string</Region>
      </AlarmIdentifier>
      <ChildHealthChecks>
        <ChildHealthCheck>string</ChildHealthCheck>
      </ChildHealthChecks>
      <Disabled>boolean</Disabled>
      <EnableSNI>boolean</EnableSNI>
      <FailureThreshold>integer</FailureThreshold>
      <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
```

```
<HealthThreshold>integer</HealthThreshold>
<InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
<Inverted>boolean</Inverted>
<IPAddress>string</IPAddress>
<MeasureLatency>boolean</MeasureLatency>
<Port>integer</Port>
<Regions>
  <Region>string</Region>
</Regions>
<RequestInterval>integer</RequestInterval>
<ResourcePath>string</ResourcePath>
<SearchString>string</SearchString>
<Type>string</Type>
</HealthCheckConfig>
<HealthCheckVersion>long</HealthCheckVersion>
<Id>string</Id>
<LinkedService>
  <Description>string</Description>
  <ServicePrincipal>string</ServicePrincipal>
</LinkedService>
</HealthCheck>
</UpdateHealthCheckResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

UpdateHealthCheckResponse (p. 199)

Root level tag for the UpdateHealthCheckResponse parameters.

Required: Yes

HealthCheck (p. 199)

A complex type that contains the response to an UpdateHealthCheck request.

Type: [HealthCheck \(p. 423\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

HealthCheckVersionMismatch

The value of HealthCheckVersion in the request doesn't match the value of HealthCheckVersion in the health check.

HTTP Status Code: 409

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

Examples

Request Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

```
POST /2013-04-01/healthcheck/health check ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <EnableSNI>true | false</EnableSNI>
  <FailureThreshold>number of health checks that must pass or fail to change the status of
the health check</FailureThreshold>
  <FullyQualifiedDomainName>domain name of the endpoint to check</
FullyQualifiedDomainName>
  <HealthCheckVersion>sequential counter</HealthCheckVersion>
  <Inverted>true | false</Inverted>
  <IPAddress>IP address of the endpoint to check</IPAddress>
  <Port>port on the endpoint to check</Port>
  <Regions>
    <Region>us-west-1 | us-west-2 | us-east-1 | eu-west-1 | ap-southeast-1 | ap-
southeast-2 | ap-northeast-1 | sa-east-1</Region>
    ...
  </Regions>
  <ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
  <SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search for in
the response body from the specified resource</SearchString>
</UpdateHealthCheckRequest>
```

Response Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

```
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheck>
    <Id>ID that Route 53 assigned to the health check when you created it</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <EnableSNI>true | false</EnableSNI>
      <FailureThreshold>number of health checks that must pass or fail to change the
status of the health check</FailureThreshold>
      <FullyQualifiedDomainName>domain name of the endpoint to check</
FullyQualifiedDomainName>
      <Inverted>true | false</Inverted>
      <IPAddress>IP address of the endpoint to check</IPAddress>
      <MeasureLatency>true | false</MeasureLatency>
      <Port>port on the endpoint to check</Port>
      <RequestInterval>10 | 30</RequestInterval>
      <ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
      <SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search
for in the response body from the specified resource</SearchString>
      <Type>HTTP | HTTPS | HTTP_STR_MATCH | HTTPS_STR_MATCH | TCP</Type>
    </HealthCheckConfig>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</UpdateHealthCheckResponse>
```

Request Syntax for CLOUDWATCH_METRIC Health Checks

```
POST /2013-04-01/healthcheck/health check ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <AlarmIdentifier>
    <Name>name of CloudWatch alarm</Name>
```

```
<Region>region that CloudWatch alarm was created in</Region>
</AlarmIdentifier>
<HealthCheckVersion>sequential counter</HealthCheckVersion>
<InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</
InsufficientDataHealthStatus>
  <Inverted>true | false</Inverted>
</UpdateHealthCheckRequest>
```

Response Syntax for CLOUDWATCH_METRIC Health Checks

```
POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheck>
    <Id>ID that Route 53 assigned to the health check when you created it</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>name of CloudWatch alarm</Name>
        <Region>region of CloudWatch alarm</Region>
      </AlarmIdentifier>
      <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</
InsufficientDataHealthStatus>
      <Inverted>true | false</Inverted>
      <Type>CLOUDWATCH_METRIC</Type>
    </HealthCheckConfig>
    <CloudWatchAlarmConfiguration>
      <EvaluationPeriods>number of periods that metric is compared to threshold</
EvaluationPeriods>
      <Threshold>value the metric is compared with</Threshold>
      <ComparisonOperator>GreaterThanOrEqualToThreshold | GreaterThanThreshold |
LessThanThreshold | LessThanOrEqualToThreshold</ComparisonOperator>
      <Period>duration of a period in seconds</Period>
      <MetricName>name of the metric that's associated with the alarm</MetricName>
      <Namespace>namespace of the metric that the alarm is associated with</Namespace>
      <Statistic>statistic applied to the CloudWatch metric</Statistic>
      <Dimensions>
        <Dimension>
          <Name>name of a dimension for the metric</Name>
          <Value>value of a dimension for the metric</Value>
        </Dimension>
        ...
      </Dimensions>
    </CloudWatchAlarmConfiguration>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</UpdateHealthCheckResponse>
```

Request Syntax for CALCULATED Health Checks

```
POST /2013-04-01/healthcheck/health check ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChildHealthChecks>
    <ChildHealthCheck>health check ID</ChildHealthCheck>
    ...
  </ChildHealthChecks>
  <HealthCheckVersion>sequential counter</HealthCheckVersion>
  <HealthThreshold>number of health checks that are associated with a CALCULATED health
check that must be healthy</HealthThreshold>
  <Inverted>true | false</Inverted>
</UpdateHealthCheckRequest>
```


Response Syntax for CALCULATED Health Checks

```
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HealthCheck>
    <Id>ID that Route 53 assigned to the health check when you created it</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <ChildHealthChecks>
        <ChildHealthCheck>health check ID</ChildHealthCheck>
        ...
      </ChildHealthChecks>
      <HealthThreshold>number of health checks associated with a CALCULATED health check
that must be healthy</HealthThreshold>
      <Inverted>true | false</Inverted>
      <Type>CALCULATED</Type>
    </HealthCheckConfig>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</UpdateHealthCheckResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateHostedZoneComment

Service: Amazon Route 53

Updates the comment for a specified hosted zone.

Request Syntax

```
POST /2013-04-01/hostedzone/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHostedZoneCommentRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
</UpdateHostedZoneCommentRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 204)

The ID for the hosted zone that you want to update the comment for.

Length Constraints: Maximum length of 32.

Request Body

The request accepts the following data in XML format.

UpdateHostedZoneCommentRequest (p. 204)

Root level tag for the UpdateHostedZoneCommentRequest parameters.

Required: Yes

Comment (p. 204)

The new comment for the hosted zone. If you don't specify a value for Comment, Amazon Route 53 deletes the existing value of the Comment element, if any.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHostedZoneCommentResponse>
  <HostedZone>
    <CallerReference>string</CallerReference>
    <Config>
      <Comment>string</Comment>
      <PrivateZone>boolean</PrivateZone>
    </Config>
    <Id>string</Id>
    <LinkedService>
```

```
<Description>string</Description>
<ServicePrincipal>string</ServicePrincipal>
</LinkedService>
<Name>string</Name>
<ResourceRecordSetCount>long</ResourceRecordSetCount>
</HostedZone>
</UpdateHostedZoneCommentResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

UpdateHostedZoneCommentResponse (p. 204)

Root level tag for the UpdateHostedZoneCommentResponse parameters.

Required: Yes

HostedZone (p. 204)

A complex type that contains the response to the UpdateHostedZoneComment request.

Type: [HostedZone \(p. 434\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

```
POST /2013-04-01/hostedzone/hosted zone ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHostedZoneCommentRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>for internal testing</Comment>
</UpdateHostedZoneCommentRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHostedZoneCommentResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZone>
```

```
<Id>/hostedzone/Z1D633PJN98FT9</Id>
<Name>example.com</Name>
<CallerReference>2014-10-15T01:36:41.958Z</CallerReference>
<Config>
  <Comment>for internal testing</Comment>
  <PrivateZone>>false</PrivateZone>
</Config>
<ResourceRecordSetCount>42</ResourceRecordSetCount>
</HostedZone>
</UpdateHostedZoneCommentResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateTrafficPolicyComment

Service: Amazon Route 53

Updates the comment for a specified traffic policy version.

Request Syntax

```
POST /2013-04-01/trafficpolicy/Id/Version HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyCommentRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
</UpdateTrafficPolicyCommentRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 207)

The value of *Id* for the traffic policy that you want to update the comment for.

Length Constraints: Minimum length of 1. Maximum length of 36.

Version (p. 207)

The value of *Version* for the traffic policy that you want to update the comment for.

Valid Range: Minimum value of 1. Maximum value of 1000.

Request Body

The request accepts the following data in XML format.

UpdateTrafficPolicyCommentRequest (p. 207)

Root level tag for the UpdateTrafficPolicyCommentRequest parameters.

Required: Yes

Comment (p. 207)

The new comment for the specified traffic policy and version.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyCommentResponse>
  <TrafficPolicy>
    <Comment>string</Comment>
    <Document>string</Document>
```

```
<Id>string</Id>
<Name>string</Name>
<Type>string</Type>
<Version>integer</Version>
</TrafficPolicy>
</UpdateTrafficPolicyCommentResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

UpdateTrafficPolicyCommentResponse (p. 207)

Root level tag for the UpdateTrafficPolicyCommentResponse parameters.

Required: Yes

TrafficPolicy (p. 207)

A complex type that contains settings for the specified traffic policy.

Type: [TrafficPolicy \(p. 453\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

```
POST /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/42 HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyCommentRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>Updated comment</Comment>
</UpdateTrafficPolicyCommentRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyCommentResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
  <VersionNumber>42</VersionNumber>
  <Name>MyTrafficPolicy</Name>
  <Type>A</Type>
  <Document>definition of the traffic policy</Document>
  <Comment>Updated comment</Comment>
</UpdateTrafficPolicyCommentResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateTrafficPolicyInstance

Service: Amazon Route 53

Updates the resource record sets in a specified hosted zone that were created based on the settings in a specified traffic policy version.

When you update a traffic policy instance, Amazon Route 53 continues to respond to DNS queries for the root resource record set name (such as example.com) while it replaces one group of resource record sets with another. Route 53 performs the following operations:

1. Route 53 creates a new group of resource record sets based on the specified traffic policy. This is true regardless of how significant the differences are between the existing resource record sets and the new resource record sets.
2. When all of the new resource record sets have been created, Route 53 starts to respond to DNS queries for the root resource record set name (such as example.com) by using the new resource record sets.
3. Route 53 deletes the old group of resource record sets that are associated with the root resource record set name.

Request Syntax

```
POST /2013-04-01/trafficpolicyinstance/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyInstanceRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicyId>string</TrafficPolicyId>
  <TrafficPolicyVersion>integer</TrafficPolicyVersion>
  <TTL>long</TTL>
</UpdateTrafficPolicyInstanceRequest>
```

URI Request Parameters

The request requires the following URI parameters.

Id (p. 210)

The ID of the traffic policy instance that you want to update.

Length Constraints: Minimum length of 1. Maximum length of 36.

Request Body

The request accepts the following data in XML format.

UpdateTrafficPolicyInstanceRequest (p. 210)

Root level tag for the UpdateTrafficPolicyInstanceRequest parameters.

Required: Yes

TrafficPolicyId (p. 210)

The ID of the traffic policy that you want Amazon Route 53 to use to update resource record sets for the specified traffic policy instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

TrafficPolicyVersion (p. 210)

The version of the traffic policy that you want Amazon Route 53 to use to update resource record sets for the specified traffic policy instance.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

TTL (p. 210)

The TTL that you want Amazon Route 53 to assign to all of the updated resource record sets.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: Yes

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyInstanceResponse>
  <TrafficPolicyInstance>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
    <Message>string</Message>
    <Name>string</Name>
    <State>string</State>
    <TrafficPolicyId>string</TrafficPolicyId>
    <TrafficPolicyType>string</TrafficPolicyType>
    <TrafficPolicyVersion>integer</TrafficPolicyVersion>
    <TTL>long</TTL>
  </TrafficPolicyInstance>
</UpdateTrafficPolicyInstanceResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

UpdateTrafficPolicyInstanceResponse (p. 211)

Root level tag for the UpdateTrafficPolicyInstanceResponse parameters.

Required: Yes

TrafficPolicyInstance (p. 211)

A complex type that contains settings for the updated traffic policy instance.

Type: [TrafficPolicyInstance \(p. 455\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

ConflictingTypes

You tried to update a traffic policy instance by using a traffic policy version that has a different DNS type than the current type for the instance. You specified the type in the JSON document in the `CreateTrafficPolicy` or `CreateTrafficPolicyVersion` request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an `HTTP 400 error (Bad request)`. If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Example Request

```
POST /2013-04-01/trafficpolicyinstance/12131415-abac-5432-caba-6f5e4d3c2b1a HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyInstanceRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TTL>300</TTL>
  <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
  <VersionNumber>7</VersionNumber>
</UpdateTrafficPolicyInstanceRequest>
```

Example Response

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyInstanceResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <TrafficPolicyInstance>
    <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <Name>www.example.com</Name>
    <TTL>300</TTL>
```

```
<State>Applied</State>
<Message/>
<TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
<TrafficPolicyVersion>7</TrafficPolicyVersion>
<TrafficPolicyType>A</TrafficPolicyType>
</TrafficPolicyInstance>
</UpdateTrafficPolicyInstanceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Amazon Route 53 Domains

The following actions are supported by Amazon Route 53 Domains:

- [CheckDomainAvailability](#) (p. 215)
- [CheckDomainTransferability](#) (p. 219)
- [DeleteTagsForDomain](#) (p. 222)
- [DisableDomainAutoRenew](#) (p. 224)
- [DisableDomainTransferLock](#) (p. 226)
- [EnableDomainAutoRenew](#) (p. 229)
- [EnableDomainTransferLock](#) (p. 231)
- [GetContactReachabilityStatus](#) (p. 234)
- [GetDomainDetail](#) (p. 237)
- [GetDomainSuggestions](#) (p. 244)
- [GetOperationDetail](#) (p. 247)
- [ListDomains](#) (p. 250)
- [ListOperations](#) (p. 253)
- [ListTagsForDomain](#) (p. 256)
- [RegisterDomain](#) (p. 259)
- [RenewDomain](#) (p. 266)
- [ResendContactReachabilityEmail](#) (p. 269)
- [RetrieveDomainAuthCode](#) (p. 272)
- [TransferDomain](#) (p. 275)
- [UpdateDomainContact](#) (p. 282)
- [UpdateDomainContactPrivacy](#) (p. 287)
- [UpdateDomainNameservers](#) (p. 291)

- [UpdateTagsForDomain](#) (p. 294)
- [ViewBilling](#) (p. 297)

CheckDomainAvailability

Service: Amazon Route 53 Domains

This operation checks the availability of one domain name. Note that if the availability status of a domain is pending, you must submit another request to determine the availability of the domain name.

Request Syntax

```
{  
  "DomainName": "string",  
  "IdnLangCode": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

DomainName (p. 215)

The name of the domain that you want to get availability for. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

The domain name can contain only the following characters:

- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in `example.com`.

Internationalized domain names are not supported for some top-level domains. To determine whether the TLD that you want to use supports internationalized domain names, see [Domains that You Can Register with Amazon Route 53](#). For more information, see [Formatting Internationalized Domain Names](#).

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

IdnLangCode (p. 215)

Reserved for future use.

Type: String

Length Constraints: Maximum length of 3.

Required: No

Response Syntax

```
{
```

```
"Availability": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Availability (p. 215)

Whether the domain name is available for registering.

Note

You can register only domains designated as `AVAILABLE`.

Valid values:

`AVAILABLE`

The domain name is available.

`AVAILABLE_RESERVED`

The domain name is reserved under specific conditions.

`AVAILABLE_PREORDER`

The domain name is available and can be preordered.

`DONT_KNOW`

The TLD registry didn't reply with a definitive answer about whether the domain name is available. Route 53 can return this response for a variety of reasons, for example, the registry is performing maintenance. Try again later.

`PENDING`

The TLD registry didn't return a response in the expected amount of time. When the response is delayed, it usually takes just a few extra seconds. You can resubmit the request immediately.

`RESERVED`

The domain name has been reserved for another person or organization.

`UNAVAILABLE`

The domain name is not available.

`UNAVAILABLE_PREMIUM`

The domain name is not available.

`UNAVAILABLE_RESTRICTED`

The domain name is forbidden.

Type: String

Valid Values: `AVAILABLE` | `AVAILABLE_RESERVED` | `AVAILABLE_PREORDER` | `UNAVAILABLE`
| `UNAVAILABLE_PREMIUM` | `UNAVAILABLE_RESTRICTED` | `RESERVED` | `DONT_KNOW`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

CheckDomainAvailability Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205225Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.CheckDomainAvailability
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
connections:Keep-Alive
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "Availability":"AVAILABLE"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CheckDomainTransferability

Service: Amazon Route 53 Domains

Checks whether a domain name can be transferred to Amazon Route 53.

Request Syntax

```
{  
  "AuthCode": "string",  
  "DomainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

AuthCode (p. 219)

If the registrar for the top-level domain (TLD) requires an authorization code to transfer the domain, the code that you got from the current registrar for the domain.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

DomainName (p. 219)

The name of the domain that you want to transfer to Route 53. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

The domain name can contain only the following characters:

- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in `example.com`.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{  
  "Transferability": {  
    "Transferable": "string"  
  }  
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Transferability (p. 219)

A complex type that contains information about whether the specified domain can be transferred to Route 53.

Type: [DomainTransferability \(p. 470\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

CheckDomainTransferability Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205225Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.CheckDomainTransferability
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
connections:Keep-Alive
{
  "DomainName": "example.com",
  "AuthCode": "T92XJ38"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "Transferability":
    {"Transferable":"TRANSFERABLE"}
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteTagsForDomain

Service: Amazon Route 53 Domains

This operation deletes the specified tags for a domain.

All tag operations are eventually consistent; subsequent operations might not immediately represent all issued operations.

Request Syntax

```
{  
  "DomainName": "string",  
  "TagsToDelete": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

DomainName (p. 222)

The domain for which you want to delete one or more tags.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

TagsToDelete (p. 222)

A list of tag keys to delete.

Type: Array of strings

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

DeleteTagsForDomain Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
                Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
                SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
                Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.DeleteTagsForDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName": "example.com",
  "TagsToDelete": [
    "foo",
    "foo2"
  ]
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisableDomainAutoRenew

Service: Amazon Route 53 Domains

This operation disables automatic renewal of domain registration for the specified domain.

Request Syntax

```
{  
  "DomainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

DomainName (p. 224)

The name of the domain that you want to disable automatic renewal for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

DisableDomainAutoRenew Example

Sample Request

```
POST / HTTP/1.1
```

```
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.DisableDomainAutoRenew
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisableDomainTransferLock

Service: Amazon Route 53 Domains

This operation removes the transfer lock on the domain (specifically the `clientTransferProhibited` status) to allow domain transfers. We recommend you refrain from performing this action unless you intend to transfer the domain to a different registrar. Successful submission returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

Request Syntax

```
{  
  "DomainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

DomainName (p. 226)

The name of the domain that you want to remove the transfer lock for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{  
  "OperationId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 226)

Identifier for tracking the progress of the request. To query the operation status, use [GetOperationDetail](#).

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

DisableDomainTransferLock Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.DisableDomainTransferLock
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"0b370c79-faa4-40fe-94c8-b423069de3f6"
```

```
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

EnableDomainAutoRenew

Service: Amazon Route 53 Domains

This operation configures Amazon Route 53 to automatically renew the specified domain before the domain registration expires. The cost of renewing your domain registration is billed to your AWS account.

The period during which you can renew a domain name varies by TLD. For a list of TLDs and their renewal policies, see ["Renewal, restoration, and deletion times"](#) on the website for our registrar associate, Gandi. Route 53 requires that you renew before the end of the renewal period that is listed on the Gandi website so we can complete processing before the deadline.

Request Syntax

```
{  
  "DomainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

DomainName (p. 229)

The name of the domain that you want to enable automatic renewal for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

EnableDomainAutoRenew Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.EnableDomainAutoRenew
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]{}

```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

EnableDomainTransferLock

Service: Amazon Route 53 Domains

This operation sets the transfer lock on the domain (specifically the `clientTransferProhibited` status) to prevent domain transfers. Successful submission returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

Request Syntax

```
{  
  "DomainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

DomainName (p. 231)

The name of the domain that you want to set the transfer lock for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{  
  "OperationId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 231)

Identifier for tracking the progress of the request. To use this ID to query the operation status, use `GetOperationDetail`.

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

EnableDomainTransferLock Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.EnableDomainTransferLock
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"0b370c79-faa4-40fe-94c8-b423069de3f6"
```

```
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetContactReachabilityStatus

Service: Amazon Route 53 Domains

For operations that require confirmation that the email address for the registrant contact is valid, such as registering a new domain, this operation returns information about whether the registrant contact has responded.

If you want us to resend the email, use the `ResendContactReachabilityEmail` operation.

Request Syntax

```
{  
  "domainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

domainName (p. 234)

The name of the domain for which you want to know whether the registrant contact has confirmed that the email address is valid.

Type: String

Length Constraints: Maximum length of 255.

Required: No

Response Syntax

```
{  
  "domainName": "string",  
  "status": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

domainName (p. 234)

The domain name for which you requested the reachability status.

Type: String

Length Constraints: Maximum length of 255.

status (p. 234)

Whether the registrant contact has responded. Values include the following:

PENDING

We sent the confirmation email and haven't received a response yet.

DONE

We sent the email and got confirmation from the registrant contact.

EXPIRED

The time limit expired before the registrant contact responded.

Type: String

Valid Values: PENDING | DONE | EXPIRED

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

GetContactReachabilityStatus Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205225Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.GetContactReachabilityStatus
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
connections:Keep-Alive
{
```

```
"domainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "domainName":"example.com",
  "status":"PENDING"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetDomainDetail

Service: Amazon Route 53 Domains

This operation returns detailed information about a specified domain that is associated with the current AWS account. Contact information for the domain is also returned as part of the output.

Request Syntax

```
{
  "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

DomainName (p. 237)

The name of the domain that you want to get detailed information about.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{
  "AbuseContactEmail": "string",
  "AbuseContactPhone": "string",
  "AdminContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  },
  "AdminPrivacy": boolean,
  "AutoRenew": boolean,
  "CreationDate": number,
  "DnsSec": "string",
}
```

```

"DomainName": "string",
"ExpirationDate": number,
"Nameservers": [
  {
    "GlueIps": [ "string" ],
    "Name": "string"
  }
],
"RegistrantContact": {
  "AddressLine1": "string",
  "AddressLine2": "string",
  "City": "string",
  "ContactType": "string",
  "CountryCode": "string",
  "Email": "string",
  "ExtraParams": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "Fax": "string",
  "FirstName": "string",
  "LastName": "string",
  "OrganizationName": "string",
  "PhoneNumber": "string",
  "State": "string",
  "ZipCode": "string"
},
"RegistrantPrivacy": boolean,
"RegistrarName": "string",
"RegistrarUrl": "string",
"RegistryDomainId": "string",
"Reseller": "string",
"StatusList": [ "string" ],
"TechContact": {
  "AddressLine1": "string",
  "AddressLine2": "string",
  "City": "string",
  "ContactType": "string",
  "CountryCode": "string",
  "Email": "string",
  "ExtraParams": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "Fax": "string",
  "FirstName": "string",
  "LastName": "string",
  "OrganizationName": "string",
  "PhoneNumber": "string",
  "State": "string",
  "ZipCode": "string"
},
"TechPrivacy": boolean,
"UpdatedDate": number,
"WhoIsServer": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AbuseContactEmail (p. 237)

Email address to contact to report incorrect contact information for a domain, to report that the domain is being used to send spam, to report that someone is cybersquatting on a domain name, or report some other type of abuse.

Type: String

Length Constraints: Maximum length of 254.

AbuseContactPhone (p. 237)

Phone number for reporting abuse.

Type: String

Length Constraints: Maximum length of 30.

AdminContact (p. 237)

Provides details about the domain administrative contact.

Type: [ContactDetail \(p. 464\)](#) object

AdminPrivacy (p. 237)

Specifies whether contact information is concealed from WHOIS queries. If the value is `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If the value is `false`, WHOIS queries return the information that you entered for the admin contact.

Type: Boolean

AutoRenew (p. 237)

Specifies whether the domain registration is set to renew automatically.

Type: Boolean

CreationDate (p. 237)

The date when the domain was created as found in the response to a WHOIS query. The date and time is in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

DnsSec (p. 237)

Reserved for future use.

Type: String

DomainName (p. 237)

The name of a domain.

Type: String

Length Constraints: Maximum length of 255.

ExpirationDate (p. 237)

The date when the registration for the domain is set to expire. The date and time is in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

Nameservers (p. 237)

The name of the domain.

Type: Array of [Nameserver \(p. 476\)](#) objects

RegistrantContact (p. 237)

Provides details about the domain registrant.

Type: [ContactDetail \(p. 464\)](#) object

RegistrantPrivacy (p. 237)

Specifies whether contact information is concealed from WHOIS queries. If the value is `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If the value is `false`, WHOIS queries return the information that you entered for the registrant contact (domain owner).

Type: Boolean

RegistrarName (p. 237)

Name of the registrar of the domain as identified in the registry. Domains with a .com, .net, or .org TLD are registered by Amazon Registrar. All other domains are registered by our registrar associate, Gandi. The value for domains that are registered by Gandi is "GANDI SAS".

Type: String

RegistrarUrl (p. 237)

Web address of the registrar.

Type: String

RegistryDomainId (p. 237)

Reserved for future use.

Type: String

Reseller (p. 237)

Reseller of the domain. Domains registered or transferred using Route 53 domains will have "Amazon" as the reseller.

Type: String

StatusList (p. 237)

An array of domain name status codes, also known as Extensible Provisioning Protocol (EPP) status codes.

ICANN, the organization that maintains a central database of domain names, has developed a set of domain name status codes that tell you the status of a variety of operations on a domain name, for example, registering a domain name, transferring a domain name to another registrar, renewing the registration for a domain name, and so on. All registrars use this same set of status codes.

For a current list of domain name status codes and an explanation of what each code means, go to the [ICANN website](#) and search for `epp status codes`. (Search on the ICANN website; web searches sometimes return an old version of the document.)

Type: Array of strings

TechContact (p. 237)

Provides details about the domain technical contact.

Type: [ContactDetail](#) (p. 464) object

[TechPrivacy](#) (p. 237)

Specifies whether contact information is concealed from WHOIS queries. If the value is `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If the value is `false`, WHOIS queries return the information that you entered for the technical contact.

Type: Boolean

[UpdatedDate](#) (p. 237)

The last updated date of the domain as found in the response to a WHOIS query. The date and time is in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

[WholsServer](#) (p. 237)

The fully qualified name of the WHOIS server that can answer the WHOIS query for the domain.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

GetDomainDetail Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.GetDomainDetail
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
```

```
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "AbuseContactEmail":"abuse@support.gandi.net",
  "AbuseContactPhone":"+33.170377661",
  "AdminContact":{
    "AddressLine1":"1 Any Street",
    "AddressLine2":"",
    "City":"Anytown",
    "CountryCode":"US",
    "Email":"john@example.com",
    "ExtraParams":[
    ],
    "FirstName":"John",
    "LastName":"Doe",
    "PhoneNumber":"+2065550100",
    "State":"WA",
    "ZipCode":"98101"
  },
  "AdminPrivacy":true,
  "AutoRenew":true,
  "CreationDate":1400010459,
  "DomainName":"example.com",
  "ExpirationDate":1431539259,
  "Nameservers":[
    {
      "GlueIps":[
      ],
      "Name":"ns-2048.awsdns-64.com"
    },
    {
      "GlueIps":[
      ],
      "Name":"ns-2051.awsdns-67.co.uk"
    },
    {
      "GlueIps":[
      ],
      "Name":"ns-2050.awsdns-66.org"
    },
    {
      "GlueIps":[
      ],
      "Name":"ns-2049.awsdns-65.net"
    }
  ],
  "RegistrantContact":{
    "AddressLine1":"1 Any Street",
    "AddressLine2":"",
    "City":"Anytown",
    "CountryCode":"US",
    "Email":"john@example.com",
    "ExtraParams":[
    ],
    "FirstName":"John",
    "LastName":"Doe",
    "PhoneNumber":"+2065550100",
```



```
        "State": "WA",
        "ZipCode": "98101"
    },
    "RegistrantPrivacy": true,
    "RegistrarName": "GANDI SAS",
    "RegistrarUrl": "http://www.gandi.net",
    "Reseller": "Amazon",
    "StatusList": [
        "clientTransferProhibited"
    ],
    "TechContact": {
        "AddressLine1": "1 Any Street",
        "AddressLine2": "",
        "City": "Anytown",
        "CountryCode": "US",
        "Email": "john@example.com",
        "ExtraParams": [
        ],
        "FirstName": "John",
        "LastName": "Doe",
        "PhoneNumber": "+2065550100",
        "State": "WA",
        "ZipCode": "98101"
    },
    "TechPrivacy": true,
    "UpdatedDate": 1400010459,
    "WhoIsServer": "whois.gandi.net"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetDomainSuggestions

Service: Amazon Route 53 Domains

The GetDomainSuggestions operation returns a list of suggested domain names.

Request Syntax

```
{  
  "DomainName": "string",  
  "OnlyAvailable": boolean,  
  "SuggestionCount": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

DomainName (p. 244)

A domain name that you want to use as the basis for a list of possible domain names. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

The domain name can contain only the following characters:

- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in `example.com`.

Internationalized domain names are not supported for some top-level domains. To determine whether the TLD that you want to use supports internationalized domain names, see [Domains that You Can Register with Amazon Route 53](#).

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

OnlyAvailable (p. 244)

If `OnlyAvailable` is `true`, Route 53 returns only domain names that are available. If `OnlyAvailable` is `false`, Route 53 returns domain names without checking whether they're available to be registered. To determine whether the domain is available, you can call `checkDomainAvailability` for each suggestion.

Type: Boolean

Required: Yes

SuggestionCount (p. 244)

The number of suggested domain names that you want Route 53 to return. Specify a value between 1 and 50.

Type: Integer

Required: Yes

Response Syntax

```
{
  "SuggestionsList": [
    {
      "Availability": "string",
      "DomainName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

SuggestionsList (p. 245)

A list of possible domain names. If you specified `true` for `OnlyAvailable` in the request, the list contains only domains that are available for registration.

Type: Array of [DomainSuggestion](#) (p. 467) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

GetDomainSuggestions Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
```

```
target,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.GetDomainSuggestions
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName": "example.com",
    "SuggestionCount": 8,
    "OnlyAvailable": false
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "SuggestionsList":[
        {"DomainName": "example.net"},
        {"DomainName": "example.org"},
        {"DomainName": "example.io"},
        {"DomainName": "example.com.au"},
        {"DomainName": "example.co.uk"},
        {"DomainName": "example.de"},
        {"DomainName": "example.co"},
        {"DomainName": "example.info"}
    ]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetOperationDetail

Service: Amazon Route 53 Domains

This operation returns the current status of an operation that is not completed.

Request Syntax

```
{  
  "OperationId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

OperationId (p. 247)

The identifier for the operation for which you want to get the status. Route 53 returned the identifier in the response to the original request.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{  
  "DomainName": "string",  
  "Message": "string",  
  "OperationId": "string",  
  "Status": "string",  
  "SubmittedDate": number,  
  "Type": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

DomainName (p. 247)

The name of a domain.

Type: String

Length Constraints: Maximum length of 255.

Message (p. 247)

Detailed information on the status including possible errors.

Type: String

OperationId (p. 247)

The identifier for the operation.

Type: String

Length Constraints: Maximum length of 255.

Status (p. 247)

The current status of the requested operation in the system.

Type: String

Valid Values: SUBMITTED | IN_PROGRESS | ERROR | SUCCESSFUL | FAILED

SubmittedDate (p. 247)

The date when the request was submitted.

Type: Timestamp

Type (p. 247)

The type of operation that was requested.

Type: String

Valid Values: REGISTER_DOMAIN | DELETE_DOMAIN | TRANSFER_IN_DOMAIN |
UPDATE_DOMAIN_CONTACT | UPDATE_NAMESERVER | CHANGE_PRIVACY_PROTECTION
| DOMAIN_LOCK | ENABLE_AUTORENEW | DISABLE_AUTORENEW | ADD_DNSSEC |
REMOVE_DNSSEC | EXPIRE_DOMAIN | TRANSFER_OUT_DOMAIN | CHANGE_DOMAIN_OWNER |
RENEW_DOMAIN | PUSH_DOMAIN

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

Example

GetOperationDetail Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
```

```
        SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
        Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.GetOperationDetail
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "OperationId":"43884ce5-e30a-4801-858f-7aa86356c127"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "DomainName":"happierdomain.ca",
  "OperationId":"43884ce5-e30a-4801-858f-7aa86356c127",
  "Status":"WORKFLOW_IN_PROGRESS",
  "SubmittedDate" : 1402630939.057,
  "Type" : "REGISTER_DOMAIN"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDomains

Service: Amazon Route 53 Domains

This operation returns all the domain names registered with Amazon Route 53 for the current AWS account.

Request Syntax

```
{  
  "Marker": "string",  
  "MaxItems": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

Marker (p. 250)

For an initial request for a list of domains, omit this element. If the number of domains that are associated with the current AWS account is greater than the value that you specified for `MaxItems`, you can use `Marker` to return additional domains. Get the value of `NextPageMarker` from the previous response, and submit another request that includes the value of `NextPageMarker` in the `Marker` element.

Constraints: The marker must match the value specified in the previous request.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

MaxItems (p. 250)

Number of domains to be returned.

Default: 20

Type: Integer

Valid Range: Maximum value of 100.

Required: No

Response Syntax

```
{  
  "Domains": [  
    {  
      "AutoRenew": boolean,  
      "DomainName": "string",  
      "Expiry": number,  
      "TransferLock": boolean  
    }  
  ]  
}
```



```
    ],  
    "NextPageMarker": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Domains (p. 250)

A summary of domains.

Type: Array of [DomainSummary](#) (p. 469) objects

NextPageMarker (p. 250)

If there are more domains than you specified for `MaxItems` in the request, submit another request and include the value of `NextPageMarker` in the value of `Marker`.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

Example

ListDomains Example

Sample Request

```
POST / HTTP/1.1  
host:route53domains.us-east-1.amazonaws.com  
x-amz-date:20140711T205230Z  
authorization:AWS4-HMAC-SHA256  
                Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/  
aws4_request,  
                SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-  
target,  
                Signature=[calculated-signature]  
x-amz-target:Route53Domains_v20140515.ListDomains  
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-  
b09/1.7.0_60  
content-type:application/x-amz-json-1.1  
content-length:[number of characters in the JSON string]  
{  
    "Marker": "AxDAClaROQAXasf29GHWAiKPLA=",
```

```
    "MaxItems":20
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "Domains":[
    {
      "AutoRenew":false,
      "DomainName":"example.com",
      "Expiry":1431203765,
      "TransferLock":false
    },
    {
      "AutoRenew":false,
      "DomainName":"example.net",
      "Expiry":1431539260,
      "TransferLock":false
    },
    {
      "AutoRenew":false,
      "DomainName":"example.org",
      "Expiry":1431240024,
      "TransferLock":false
    },
    {
      "AutoRenew":false,
      "DomainName":"example.test",
      "Expiry":1431539259,
      "TransferLock":false
    }
  ]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListOperations

Service: Amazon Route 53 Domains

Returns information about all of the operations that return an operation ID and that have ever been performed on domains that were registered by the current account.

Request Syntax

```
{  
  "Marker": "string",  
  "MaxItems": number,  
  "SubmittedSince": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

Marker (p. 253)

For an initial request for a list of operations, omit this element. If the number of operations that are not yet complete is greater than the value that you specified for `MaxItems`, you can use `Marker` to return additional operations. Get the value of `NextPageMarker` from the previous response, and submit another request that includes the value of `NextPageMarker` in the `Marker` element.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

MaxItems (p. 253)

Number of domains to be returned.

Default: 20

Type: Integer

Valid Range: Maximum value of 100.

Required: No

SubmittedSince (p. 253)

An optional parameter that lets you get information about all the operations that you submitted after a specified date and time. Specify the date and time in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

Required: No

Response Syntax

```
{
```

```
"NextPageMarker": "string",
"Operations": [
  {
    "OperationId": "string",
    "Status": "string",
    "SubmittedDate": number,
    "Type": "string"
  }
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextPageMarker (p. 253)

If there are more operations than you specified for `MaxItems` in the request, submit another request and include the value of `NextPageMarker` in the value of `Marker`.

Type: String

Length Constraints: Maximum length of 4096.

Operations (p. 253)

Lists summaries of the operations.

Type: Array of [OperationSummary \(p. 477\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

Example

ListOperations Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
                  Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
                  SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
                  Signature=[calculated-signature]
```

```
x-amz-target:Route53Domains_v20140515.ListOperations
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "MaxItems" : 2
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "Operations":[
    {
      "OperationId":"4ced3d4a-e011-45ee-b94f-1e2d73477562",
      "Status":"WORKFLOW_IN_PROGRESS",
      "SubmittedDate":1403548979.088,
      "Type":"CHANGE_PRIVACY_PROTECTION"
    },
    {
      "OperationId":"2e3ac45b-89b3-47ea-a042-f56dcd1b6883",
      "Status":"WORKFLOW_IN_PROGRESS",
      "SubmittedDate":1403548986.429,
      "Type":"DOMAIN_LOCK"
    }
  ]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForDomain

Service: Amazon Route 53 Domains

This operation returns all of the tags that are associated with the specified domain.

All tag operations are eventually consistent; subsequent operations might not immediately represent all issued operations.

Request Syntax

```
{
  "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

DomainName (p. 256)

The domain for which you want to get a list of tags.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{
  "TagList": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TagList (p. 256)

A list of the tags that are associated with the specified domain.

Type: Array of [Tag](#) (p. 478) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

ListTagsForDomain Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.ListTagsForDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "tagList":[
    {
      "Key": "foo",
      "Value": "bar"
    }, {
      "Key": "foo2",
      "Value": ""
    }
  ]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RegisterDomain

Service: Amazon Route 53 Domains

This operation registers a domain. Domains are registered either by Amazon Registrar (for .com, .net, and .org domains) or by our registrar associate, Gandi (for all other domains). For some top-level domains (TLDs), this operation requires extra parameters.

When you register a domain, Amazon Route 53 does the following:

- Creates a Route 53 hosted zone that has the same name as the domain. Route 53 assigns four name servers to your hosted zone and automatically updates your domain registration with the names of these name servers.
- Enables autorenew, so your domain registration will renew automatically each year. We'll notify you in advance of the renewal date so you can choose whether to renew the registration.
- Optionally enables privacy protection, so WHOIS queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you don't enable privacy protection, WHOIS queries return the information that you entered for the registrant, admin, and tech contacts.
- If registration is successful, returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant is notified by email.
- Charges your AWS account an amount based on the top-level domain. For more information, see [Amazon Route 53 Pricing](#).

Request Syntax

```
{
  "AdminContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  },
  "AutoRenew": boolean,
  "DomainName": "string",
  "DurationInYears": number,
  "IdnLangCode": "string",
  "PrivacyProtectAdminContact": boolean,
  "PrivacyProtectRegistrantContact": boolean,
  "PrivacyProtectTechContact": boolean,
  "RegistrantContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
```

```
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  },
  "TechContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

AdminContact (p. 259)

Provides detailed contact information. For information about the values that you specify for each element, see [ContactDetail](#).

Type: [ContactDetail](#) (p. 464) object

Required: Yes

AutoRenew (p. 259)

Indicates whether the domain will be automatically renewed (`true`) or not (`false`). Autorenewal only takes effect after the account is charged.

Default: `true`

Type: Boolean

Required: No

DomainName (p. 259)

The domain name that you want to register. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

The domain name can contain only the following characters:

- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in `example.com`.

Internationalized domain names are not supported for some top-level domains. To determine whether the TLD that you want to use supports internationalized domain names, see [Domains that You Can Register with Amazon Route 53](#). For more information, see [Formatting Internationalized Domain Names](#).

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

DurationInYears (p. 259)

The number of years that you want to register the domain for. Domains are registered for a minimum of one year. The maximum period depends on the top-level domain. For the range of valid values for your domain, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

Default: 1

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

IdnLangCode (p. 259)

Reserved for future use.

Type: String

Length Constraints: Maximum length of 3.

Required: No

PrivacyProtectAdminContact (p. 259)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the admin contact.

Default: `true`

Type: Boolean

Required: No

PrivacyProtectRegistrantContact (p. 259)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the registrant contact (the domain owner).

Default: `true`

Type: Boolean

Required: No

PrivacyProtectTechContact (p. 259)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the technical contact.

Default: `true`

Type: Boolean

Required: No

RegistrantContact (p. 259)

Provides detailed contact information. For information about the values that you specify for each element, see [ContactDetail](#).

Type: [ContactDetail \(p. 464\)](#) object

Required: Yes

TechContact (p. 259)

Provides detailed contact information. For information about the values that you specify for each element, see [ContactDetail](#).

Type: [ContactDetail \(p. 464\)](#) object

Required: Yes

Response Syntax

```
{
  "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 262)

Identifier for tracking the progress of the request. To query the operation status, use [GetOperationDetail](#).

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DomainLimitExceeded

The number of domains has exceeded the allowed threshold for the account.

HTTP Status Code: 400

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

RegisterDomain Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
```

```
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.RegisterDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "DurationInYears":1,
  "AutoRenew":true,
  "AdminContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  },
  "RegistrantContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  },
  "TechContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  },
  "PrivacyProtectAdminContact":true,
  "PrivacyProtectRegistrantContact":true,
  "PrivacyProtectTechContact":true
}
```

```
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"308c56712-faa4-40fe-94c8-b423069de3f6"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RenewDomain

Service: Amazon Route 53 Domains

This operation renews a domain for the specified number of years. The cost of renewing your domain is billed to your AWS account.

We recommend that you renew your domain several weeks before the expiration date. Some TLD registries delete domains before the expiration date if you haven't renewed far enough in advance. For more information about renewing domain registration, see [Renewing Registration for a Domain](#) in the *Amazon Route 53 Developer Guide*.

Request Syntax

```
{  
  "CurrentExpiryYear": number,  
  "DomainName": "string",  
  "DurationInYears": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

CurrentExpiryYear (p. 266)

The year when the registration for the domain is set to expire. This value must match the current expiration date for the domain.

Type: Integer

Required: Yes

DomainName (p. 266)

The name of the domain that you want to renew.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

DurationInYears (p. 266)

The number of years that you want to renew the domain for. The maximum number of years depends on the top-level domain. For the range of valid values for your domain, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

Default: 1

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

Response Syntax

```
{  
  "OperationId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 267)

Identifier for tracking the progress of the request. To query the operation status, use [GetOperationDetail](#).

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

RenewDomain Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
    x-amz-target:Route53Domains_v20140515.RenewDomain
    user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot
(TM)_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "DurationInYears":"6",
  "CurrentExpiryYear":"2017"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ResendContactReachabilityEmail

Service: Amazon Route 53 Domains

For operations that require confirmation that the email address for the registrant contact is valid, such as registering a new domain, this operation resends the confirmation email to the current email address for the registrant contact.

Request Syntax

```
{  
  "domainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

domainName (p. 269)

The name of the domain for which you want Route 53 to resend a confirmation email to the registrant contact.

Type: String

Length Constraints: Maximum length of 255.

Required: No

Response Syntax

```
{  
  "domainName": "string",  
  "emailAddress": "string",  
  "isAlreadyVerified": boolean  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

domainName (p. 269)

The domain name for which you requested a confirmation email.

Type: String

Length Constraints: Maximum length of 255.

emailAddress (p. 269)

The email address for the registrant contact at the time that we sent the verification email.

Type: String

Length Constraints: Maximum length of 254.

isAlreadyVerified (p. 269)

True if the email address for the registrant contact has already been verified, and false otherwise. If the email address has already been verified, we don't send another confirmation email.

Type: Boolean

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

ResendContactReachabilityEmail Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205225Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.ResendContactReachabilityEmail
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
connections:Keep-Alive
{
  "domainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "domainName":"example.com",
  "emailAddress":"jdoe@example.com",
  "status":"PENDING"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RetrieveDomainAuthCode

Service: Amazon Route 53 Domains

This operation returns the AuthCode for the domain. To transfer a domain to another registrar, you provide this value to the new registrar.

Request Syntax

```
{  
  "DomainName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

DomainName (p. 272)

The name of the domain that you want to get an authorization code for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{  
  "AuthCode": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AuthCode (p. 272)

The authorization code for the domain.

Type: String

Length Constraints: Maximum length of 1024.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

RetrieveDomainAuthCode Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
                Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
                SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
                Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.RetrieveDomainAuthCode
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "AuthCode":"rqL3*REjYH"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TransferDomain

Service: Amazon Route 53 Domains

Transfers a domain from another registrar to Amazon Route 53. When the transfer is complete, the domain is registered either with Amazon Registrar (for .com, .net, and .org domains) or with our registrar associate, Gandi (for all other TLDs).

For more information about transferring domains, see the following topics:

- For transfer requirements, a detailed procedure, and information about viewing the status of a domain that you're transferring to Route 53, see [Transferring Registration for a Domain to Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.
- For information about how to transfer a domain from one AWS account to another, see [Transferring a Domain to a Different AWS Account](#) in the *Amazon Route 53 Developer Guide*.
- For information about how to transfer a domain to another domain registrar, see [Transferring a Domain from Amazon Route 53 to Another Registrar](#) in the *Amazon Route 53 Developer Guide*.

If the registrar for your domain is also the DNS service provider for the domain, we highly recommend that you transfer your DNS service to Route 53 or to another DNS service provider before you transfer your registration. Some registrars provide free DNS service when you purchase a domain registration. When you transfer the registration, the previous registrar will not renew your domain registration and could end your DNS service at any time.

Important

If the registrar for your domain is also the DNS service provider for the domain and you don't transfer DNS service to another provider, your website, email, and the web applications associated with the domain might become unavailable.

If the transfer is successful, this method returns an operation ID that you can use to track the progress and completion of the action. If the transfer doesn't complete successfully, the domain registrant will be notified by email.

Request Syntax

```
{
  "AdminContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  },
  "AuthCode": "string",
  "AutoRenew": boolean,
  "DomainName": "string",
  "DurationInYears": number,
```

```

    "IdnLangCode": "string",
    "Nameservers": [
      {
        "GlueIps": [ "string" ],
        "Name": "string"
      }
    ],
    "PrivacyProtectAdminContact": boolean,
    "PrivacyProtectRegistrantContact": boolean,
    "PrivacyProtectTechContact": boolean,
    "RegistrantContact": {
      "AddressLine1": "string",
      "AddressLine2": "string",
      "City": "string",
      "ContactType": "string",
      "CountryCode": "string",
      "Email": "string",
      "ExtraParams": [
        {
          "Name": "string",
          "Value": "string"
        }
      ],
      "Fax": "string",
      "FirstName": "string",
      "LastName": "string",
      "OrganizationName": "string",
      "PhoneNumber": "string",
      "State": "string",
      "ZipCode": "string"
    },
    "TechContact": {
      "AddressLine1": "string",
      "AddressLine2": "string",
      "City": "string",
      "ContactType": "string",
      "CountryCode": "string",
      "Email": "string",
      "ExtraParams": [
        {
          "Name": "string",
          "Value": "string"
        }
      ],
      "Fax": "string",
      "FirstName": "string",
      "LastName": "string",
      "OrganizationName": "string",
      "PhoneNumber": "string",
      "State": "string",
      "ZipCode": "string"
    }
  }
}

```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

AdminContact (p. 275)

Provides detailed contact information.

Type: [ContactDetail \(p. 464\)](#) object

Required: Yes

[AuthCode \(p. 275\)](#)

The authorization code for the domain. You get this value from the current registrar.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

[AutoRenew \(p. 275\)](#)

Indicates whether the domain will be automatically renewed (true) or not (false). Autorenewal only takes effect after the account is charged.

Default: true

Type: Boolean

Required: No

[DomainName \(p. 275\)](#)

The name of the domain that you want to transfer to Route 53. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

The domain name can contain only the following characters:

- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in `example.com`.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

[DurationInYears \(p. 275\)](#)

The number of years that you want to register the domain for. Domains are registered for a minimum of one year. The maximum period depends on the top-level domain.

Default: 1

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

[IdnLangCode \(p. 275\)](#)

Reserved for future use.

Type: String

Length Constraints: Maximum length of 3.

Required: No

Nameservers (p. 275)

Contains details for the host and glue IP addresses.

Type: Array of [Nameserver \(p. 476\)](#) objects

Required: No

PrivacyProtectAdminContact (p. 275)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the admin contact.

Default: `true`

Type: Boolean

Required: No

PrivacyProtectRegistrantContact (p. 275)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the registrant contact (domain owner).

Default: `true`

Type: Boolean

Required: No

PrivacyProtectTechContact (p. 275)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the technical contact.

Default: `true`

Type: Boolean

Required: No

RegistrantContact (p. 275)

Provides detailed contact information.

Type: [ContactDetail \(p. 464\)](#) object

Required: Yes

TechContact (p. 275)

Provides detailed contact information.

Type: [ContactDetail \(p. 464\)](#) object

Required: Yes

Response Syntax

```
{  
  "OperationId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 279)

Identifier for tracking the progress of the request. To query the operation status, use [GetOperationDetail](#).

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DomainLimitExceeded

The number of domains has exceeded the allowed threshold for the account.

HTTP Status Code: 400

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

TransferDomain Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.TransferDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "DurationInYears":1,
  "Nameservers":[
    {
      "Name":"ns-2048.awsdns-64.com",
      "GlueIps":[
        "192.0.2.11"
      ]
    },
    {
      "Name":"ns-2049.awsdns-65.net",
      "GlueIps":[
        "192.0.2.12"
      ]
    }
  ],
  "AuthCode":"a42qxjz1",
  "AutoRenew":true,
  "AdminContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+206555-0101"
  },
  "RegistrantContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
```

```
    "State": "WA",
    "CountryCode": "US",
    "ZipCode": "98101",
    "PhoneNumber": "+2065550100",
    "Email": "john@example.com",
    "Fax": "+206555-0101"
  },
  "TechContact": {
    "FirstName": "John",
    "MiddleName": "Richard",
    "LastName": "Doe",
    "ContactType": "PERSON",
    "OrganizationName": "",
    "AddressLine1": "123 Any Street",
    "AddressLine2": "",
    "City": "Any Town",
    "State": "WA",
    "CountryCode": "US",
    "ZipCode": "98101",
    "PhoneNumber": "+2065550100",
    "Email": "john@example.com",
    "Fax": "+206555-0101"
  },
  "PrivacyProtectAdminContact": true,
  "PrivacyProtectRegistrantContact": true,
  "PrivacyProtectTechContact": true,
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId": "308c56712-faa4-40fe-94c8-b423069de3f6"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDomainContact

Service: Amazon Route 53 Domains

This operation updates the contact information for a particular domain. You must specify information for at least one contact: registrant, administrator, or technical.

If the update is successful, this method returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

Request Syntax

```
{
  "AdminContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  },
  "DomainName": "string",
  "RegistrantContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  },
  "TechContact": {
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
```



```
    "ExtraParams": [  
      {  
        "Name": "string",  
        "Value": "string"  
      }  
    ],  
    "Fax": "string",  
    "FirstName": "string",  
    "LastName": "string",  
    "OrganizationName": "string",  
    "PhoneNumber": "string",  
    "State": "string",  
    "ZipCode": "string"  
  }  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

AdminContact (p. 282)

Provides detailed contact information.

Type: [ContactDetail](#) (p. 464) object

Required: No

DomainName (p. 282)

The name of the domain that you want to update contact information for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

RegistrantContact (p. 282)

Provides detailed contact information.

Type: [ContactDetail](#) (p. 464) object

Required: No

TechContact (p. 282)

Provides detailed contact information.

Type: [ContactDetail](#) (p. 464) object

Required: No

Response Syntax

```
{  
  "OperationId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 283)

Identifier for tracking the progress of the request. To query the operation status, use [GetOperationDetail](#).

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

UpdateDomainContact Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
```

```
SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.UpdateDomainContact
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "RegistrantContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  },
  "AdminContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  },
  "TechContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  }
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
```

```
{  
  "OperationId": "308c56712-faa4-40fe-94c8-b423069de3f6"  
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDomainContactPrivacy

Service: Amazon Route 53 Domains

This operation updates the specified domain contact's privacy setting. When privacy protection is enabled, contact information such as email address is replaced either with contact information for Amazon Registrar (for .com, .net, and .org domains) or with contact information for our registrar associate, Gandi.

This operation affects only the contact information for the specified contact type (registrant, administrator, or tech). If the request succeeds, Amazon Route 53 returns an operation ID that you can use with [GetOperationDetail](#) to track the progress and completion of the action. If the request doesn't complete successfully, the domain registrant will be notified by email.

Important

By disabling the privacy service via API, you consent to the publication of the contact information provided for this domain via the public WHOIS database. You certify that you are the registrant of this domain name and have the authority to make this decision. You may withdraw your consent at any time by enabling privacy protection using either `UpdateDomainContactPrivacy` or the Route 53 console. Enabling privacy protection removes the contact information provided for this domain from the WHOIS database. For more information on our privacy practices, see <https://aws.amazon.com/privacy/>.

Request Syntax

```
{  
  "AdminPrivacy": boolean,  
  "DomainName": "string",  
  "RegistrantPrivacy": boolean,  
  "TechPrivacy": boolean  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

AdminPrivacy (p. 287)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the admin contact.

Type: Boolean

Required: No

DomainName (p. 287)

The name of the domain that you want to update the privacy setting for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

RegistrantPrivacy (p. 287)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the registrant contact (domain owner).

Type: Boolean

Required: No

TechPrivacy (p. 287)

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the technical contact.

Type: Boolean

Required: No

Response Syntax

```
{  
  "OperationId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 288)

Identifier for tracking the progress of the request. To use this ID to query the operation status, use `GetOperationDetail`.

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

UpdateDomainContactPrivacy Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
                Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
                SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
                Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.UpdateDomainContactPrivacy
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "AdminPrivacy":true,
  "RegistrantPrivacy":true,
  "TechPrivacy":true,
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"777bc5da-fbf7-482c-b2ba-8946884a7dd6"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDomainNameservers

Service: Amazon Route 53 Domains

This operation replaces the current set of name servers for the domain with the specified set of name servers. If you use Amazon Route 53 as your DNS service, specify the four name servers in the delegation set for the hosted zone for the domain.

If successful, this operation returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

Request Syntax

```
{
  "DomainName": "string",
  "FIAuthKey": "string",
  "Nameservers": [
    {
      "GlueIps": [ "string" ],
      "Name": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

DomainName (p. 291)

The name of the domain that you want to change name servers for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

FIAuthKey (p. 291)

This parameter has been deprecated.

The authorization key for .fi domains

Type: String

Required: No

Nameservers (p. 291)

A list of new name servers for the domain.

Type: Array of [Nameserver](#) (p. 476) objects

Required: Yes

Response Syntax

```
{  
  "OperationId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 292)

Identifier for tracking the progress of the request. To query the operation status, use [GetOperationDetail](#).

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

UpdateDomainNameservers Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
                Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
                SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
                Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.UpdateDomainNameservers
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "Nameservers":[
    {
      "Name":"ns1.example.net"
    },
    {
      "Name":"ns1.example.com",
      "GlueIps":[
        "192.0.2.44"
      ]
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"0b370c79-faa4-40fe-94c8-b423069de3f6"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateTagsForDomain

Service: Amazon Route 53 Domains

This operation adds or updates tags for a specified domain.

All tag operations are eventually consistent; subsequent operations might not immediately represent all issued operations.

Request Syntax

```
{
  "DomainName": "string",
  "TagsToUpdate": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

DomainName (p. 294)

The domain for which you want to add or update tags.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

TagsToUpdate (p. 294)

A list of the tag keys and values that you want to add or update. If you specify a key that already exists, the corresponding value will be replaced.

Type: Array of [Tag](#) (p. 478) objects

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InvalidInput

The requested item is not acceptable. For example, for an OperationId it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Example

UpdateTagsForDomain Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
                Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
                SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
                Signature=[calculated-signature]
x-amz-target:Route53Domain_v20140515.UpdateTagsForDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName": "example.com",
  "TagsToUpdate":[
    {
      "Key": "foo",
      "Value": "bar"
    }, {
      "Key": "foo2",
      "Value": ""
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ViewBilling

Service: Amazon Route 53 Domains

Returns all the domain-related billing records for the current AWS account for a specified period

Request Syntax

```
{  
  "End": number,  
  "Marker": "string",  
  "MaxItems": number,  
  "Start": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

End (p. 297)

The end date and time for the time period for which you want a list of billing records. Specify the date and time in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

Required: No

Marker (p. 297)

For an initial request for a list of billing records, omit this element. If the number of billing records that are associated with the current AWS account during the specified period is greater than the value that you specified for `MaxItems`, you can use `Marker` to return additional billing records. Get the value of `NextPageMarker` from the previous response, and submit another request that includes the value of `NextPageMarker` in the `Marker` element.

Constraints: The marker must match the value of `NextPageMarker` that was returned in the previous response.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

MaxItems (p. 297)

The number of billing records to be returned.

Default: 20

Type: Integer

Valid Range: Maximum value of 100.

Required: No

Start (p. 297)

The beginning date and time for the time period for which you want a list of billing records. Specify the date and time in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

Required: No

Response Syntax

```
{
  "BillingRecords": [
    {
      "BillDate": number,
      "DomainName": "string",
      "InvoiceId": "string",
      "Operation": "string",
      "Price": number
    }
  ],
  "NextPageMarker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

BillingRecords (p. 298)

A summary of billing records.

Type: Array of [BillingRecord \(p. 462\)](#) objects

NextPageMarker (p. 298)

If there are more billing records than you specified for `MaxItems` in the request, submit another request and include the value of `NextPageMarker` in the value of `Marker`.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InvalidInput

The requested item is not acceptable. For example, for an `OperationId` it might refer to the ID of an operation that is already completed. For a domain name, it might not be a valid domain name or belong to the requester account.

HTTP Status Code: 400

Example

ViewBilling Example

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.ViewBilling
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "Start": 1461006299,
    "End": 1463598304,
    "MaxItems": 20
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "BillingRecords": [
        {
            "BillDate": 1431211111,
            "DomainName": "example.net",
            "InvoiceId": "1111111111",
            "Operation": "REGISTER_DOMAIN",
            "Price": 12
        }, {
            "BillDate": 1431222222,
            "DomainName": "example.com",
            "InvoiceId": "2222222222",
            "Operation": "TRANSFER_IN_DOMAIN",
            "Price": 12
        }, {
            "BillDate": 1431233333,
            "DomainName": "example.org",
            "InvoiceId": "3333333333",
            "Operation": "RENEW_DOMAIN",
            "Price": 12
        }
    ]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Amazon Route 53 Resolver

The following actions are supported by Amazon Route 53 Resolver:

- [AssociateResolverEndpointIpAddress](#) (p. 301)
- [AssociateResolverRule](#) (p. 305)
- [CreateResolverEndpoint](#) (p. 309)
- [CreateResolverRule](#) (p. 314)
- [DeleteResolverEndpoint](#) (p. 319)
- [DeleteResolverRule](#) (p. 322)
- [DisassociateResolverEndpointIpAddress](#) (p. 325)
- [DisassociateResolverRule](#) (p. 329)
- [GetResolverEndpoint](#) (p. 332)
- [GetResolverRule](#) (p. 335)
- [GetResolverRuleAssociation](#) (p. 338)
- [GetResolverRulePolicy](#) (p. 341)
- [ListResolverEndpointIpAddresses](#) (p. 344)
- [ListResolverEndpoints](#) (p. 348)
- [ListResolverRuleAssociations](#) (p. 352)
- [ListResolverRules](#) (p. 356)
- [ListTagsForResource](#) (p. 360)
- [PutResolverRulePolicy](#) (p. 364)
- [TagResource](#) (p. 367)
- [UntagResource](#) (p. 370)
- [UpdateResolverEndpoint](#) (p. 373)
- [UpdateResolverRule](#) (p. 376)

AssociateResolverEndpointIpAddress

Service: Amazon Route 53 Resolver

Adds IP addresses to an inbound or an outbound Resolver endpoint. If you want to add more than one IP address, submit one `AssociateResolverEndpointIpAddress` request for each IP address.

To remove an IP address from an endpoint, see [DisassociateResolverEndpointIpAddress](#).

Request Syntax

```
{
  "IpAddress": {
    "Ip": "string",
    "IpId": "string",
    "SubnetId": "string"
  },
  "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

IpAddress (p. 301)

Either the IPv4 address that you want to add to a Resolver endpoint or a subnet ID. If you specify a subnet ID, Resolver chooses an IP address for you from the available IPs in the specified subnet.

Type: [IpAddressUpdate](#) (p. 485) object

Required: Yes

ResolverEndpointId (p. 301)

The ID of the Resolver endpoint that you want to associate IP addresses with.

Type: String

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

Required: Yes

Response Syntax

```
{
  "ResolverEndpoint": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "Direction": "string",
    "HostVPCId": "string",
    "Id": "string",
    "IpAddressCount": number,
    "ModificationTime": "string",
    "Name": "string",

```

```
    "SecurityGroupIds": [ "string" ],  
    "Status": "string",  
    "StatusMessage": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 301)

The response to an `AssociateResolverEndpointIpAddress` request.

Type: [ResolverEndpoint](#) (p. 486) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

AssociateResolverEndpointIpAddress Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: Route53Resolver.AssociateResolverEndpointIpAddress
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "IpAddress": {
    "SubnetId": "subnet-02f91e0e98example"
  },
  "ResolverEndpointId": "rslvr-in-60b9fd8fdbexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 479
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
  "ResolverEndpoint": {
    "Arn": "arn:aws:route53resolver:us-east-2:0123456789012:resolver-endpoint/rslvr-in-60b9fd8fdbexample",
    "CreationTime": "2018-11-01T18:44:50.372Z",
    "CreatorRequestId": "1234",
    "Direction": "INBOUND",
    "HostVPCId": "vpc-03cf94c75cexample",
    "Id": "rslvr-in-60b9fd8fdbexample",
    "IpAddressCount": 3,
    "ModificationTime": "2018-11-01T18:44:50.372Z",
    "Name": "MyInbound",
    "SecurityGroupIds": [
      "sg-020a3554aexample"
    ],
    "Status": "UPDATING",
    "StatusMessage": "Updating the Resolver Endpoint"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateResolverRule

Service: Amazon Route 53 Resolver

Associates a Resolver rule with a VPC. When you associate a rule with a VPC, Resolver forwards all DNS queries for the domain name that is specified in the rule and that originate in the VPC. The queries are forwarded to the IP addresses for the DNS resolvers that are specified in the rule. For more information about rules, see [CreateResolverRule](#).

Request Syntax

```
{  
  "Name": "string",  
  "ResolverRuleId": "string",  
  "VPCId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

Name (p. 305)

A name for the association that you're creating between a Resolver rule and a VPC.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+\$)([a-z0-9-_' ']+)

Required: No

ResolverRuleId (p. 305)

The ID of the Resolver rule that you want to associate with the VPC. To list the existing Resolver rules, use [ListResolverRules](#).

Type: String

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

Required: Yes

VPCId (p. 305)

The ID of the VPC that you want to associate the Resolver rule with.

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
"ResolverRuleAssociation": {  
  "Id": "string",  
  "Name": "string",  
  "ResolverRuleId": "string",  
  "Status": "string",  
  "StatusMessage": "string",  
  "VPCId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRuleAssociation (p. 305)

Information about the AssociateResolverRule request, including the status of the request.

Type: [ResolverRuleAssociation \(p. 492\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ResourceUnavailableException

The specified resource isn't available.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

AssociateResolverRule Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 82
X-Amz-Target: Route53Resolver.AssociateResolverRule
X-Amz-Date: 20181101T192826Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "VPCId": "vpc-03cf94c75cexample",
  "ResolverRuleId": "rslvr-rr-5328a0899aexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:28:27 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 258
x-amzn-RequestId: 9827eb40-87e6-44d6-bee7-a1116example
Connection: keep-alive

{
  "ResolverRuleAssociation": {
    "Id": "rslvr-rrassoc-97242eaf88example",
    "Name": "forward example.com for gamma VPC",
    "ResolverRuleId": "rslvr-rr-5328a0899example",
    "Status": "CREATING",
    "StatusMessage": "[Trace id: 1-5bdb53db-75f3852c8384ad30fexample], Creating the association.",
    "VPCId": "vpc-03cf94c75cexample"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateResolverEndpoint

Service: Amazon Route 53 Resolver

Creates a Resolver endpoint. There are two types of Resolver endpoints, inbound and outbound:

- An *inbound Resolver endpoint* forwards DNS queries to the DNS service for a VPC from your network.
- An *outbound Resolver endpoint* forwards DNS queries from the DNS service for a VPC to your network.

Request Syntax

```
{
  "CreatorRequestId": "string",
  "Direction": "string",
  "IpAddresses": [
    {
      "Ip": "string",
      "SubnetId": "string"
    }
  ],
  "Name": "string",
  "SecurityGroupIds": [ "string" ],
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

CreatorRequestId (p. 309)

A unique string that identifies the request and that allows failed requests to be retried without the risk of executing the operation twice. `CreatorRequestId` can be any unique string, for example, a date/time stamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Direction (p. 309)

Specify the applicable value:

- **INBOUND**: Resolver forwards DNS queries to the DNS service for a VPC from your network
- **OUTBOUND**: Resolver forwards DNS queries from the DNS service for a VPC to your network

Type: String

Valid Values: **INBOUND** | **OUTBOUND**

Required: Yes

IpAddresses (p. 309)

The subnets and IP addresses in your VPC that DNS queries originate from (for outbound endpoints) or that you forward DNS queries to (for inbound endpoints). The subnet ID uniquely identifies a VPC.

Type: Array of [IpAddressRequest \(p. 482\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

Name (p. 309)

A friendly name that lets you easily find a configuration in the Resolver dashboard in the Route 53 console.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+\$)([a-zA-Z0-9-_' ']+)

Required: No

SecurityGroupIds (p. 309)

The ID of one or more security groups that you want to use to control access to this VPC. The security group that you specify must include one or more inbound rules (for inbound Resolver endpoints) or outbound rules (for outbound Resolver endpoints). Inbound and outbound rules must allow TCP and UDP access. For inbound access, open port 53. For outbound access, open the port that you're using for DNS queries on your network.

Type: Array of strings

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

Required: Yes

Tags (p. 309)

A list of the tag keys and values that you want to associate with the endpoint.

Type: Array of [Tag \(p. 495\)](#) objects

Required: No

Response Syntax

```
{
  "ResolverEndpoint": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "Direction": "string",
    "HostVPCId": "string",
    "Id": "string",
    "IpAddressCount": number,
    "ModificationTime": "string",
    "Name": "string",
    "SecurityGroupIds": [ "string" ],
```

```
    "Status": "string",  
    "StatusMessage": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 310)

Information about the `CreateResolverEndpoint` request, including the status of the request.

Type: [ResolverEndpoint \(p. 486\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

CreateResolverEndpoint Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 283
X-Amz-Target: Route53Resolver.CreateResolverEndpoint
X-Amz-Date: 20181101T191344Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]

{
  "Direction": "OUTBOUND",
  "Name": "MyOutbound",
  "Tags": [
    {
      "Key": "LineOfBusiness",
      "Value": "Engineering"
    }
  ],
  "CreatorRequestId": "5678",
  "SecurityGroupIds": [
    "sg-071b99f42example"
  ],
  "IpAddresses": [
    {
      "SubnetId": "subnet-0bca4d363dexample"
    },
    {
      "SubnetId": "subnet-0bca4d363dexample"
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:13:44 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 531
x-amzn-RequestId: 08afd081-9d67-4281-a277-b3880example
Connection: keep-alive

{
  "ResolverEndpoint": {
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-endpoint/rslvr-out-fdc049932dexample",
    "CreationTime": "2018-11-01T19:13:44.830Z",
    "CreatorRequestId": "5678",
    "Direction": "OUTBOUND",
    "HostVPCId": "vpc-0dd415a0edexample",
    "Id": "rslvr-out-fdc049932dexample",
    "IpAddressCount": 2,
    "ModificationTime": "2018-11-01T19:13:44.830Z",
```

```
    "Name": "MyOutbound",
    "SecurityGroupIds": [
      "sg-071b99f42example"
    ],
    "Status": "CREATING",
    "StatusMessage": "[Trace id: 1-5bdb5068-e0bdc4d232b1a3fe9c344c10] Creating the
Resolver Endpoint"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateResolverRule

Service: Amazon Route 53 Resolver

For DNS queries that originate in your VPCs, specifies which Resolver endpoint the queries pass through, one domain name that you want to forward to your network, and the IP addresses of the DNS resolvers in your network.

Request Syntax

```
{
  "CreatorRequestId": "string",
  "DomainName": "string",
  "Name": "string",
  "ResolverEndpointId": "string",
  "RuleType": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "TargetIps": [
    {
      "Ip": "string",
      "Port": number
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

CreatorRequestId (p. 314)

A unique string that identifies the request and that allows failed requests to be retried without the risk of executing the operation twice. `CreatorRequestId` can be any unique string, for example, a date/time stamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

DomainName (p. 314)

DNS queries for this domain name are forwarded to the IP addresses that you specify in `TargetIps`. If a query matches multiple Resolver rules (example.com and www.example.com), outbound DNS queries are routed using the Resolver rule that contains the most specific domain name (www.example.com).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Name (p. 314)

A friendly name that lets you easily find a rule in the Resolver dashboard in the Route 53 console.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?!^[0-9]+$)([a-zA-Z0-9-_' ']+)`

Required: No

ResolverEndpointId (p. 314)

The ID of the outbound Resolver endpoint that you want to use to route DNS queries to the IP addresses that you specify in `TargetIps`.

Type: String

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

Required: No

RuleType (p. 314)

When you want to forward DNS queries for specified domain name to resolvers on your network, specify `FORWARD`.

When you have a forwarding rule to forward DNS queries for a domain to your network and you want Resolver to process queries for a subdomain of that domain, specify `SYSTEM`.

For example, to forward DNS queries for `example.com` to resolvers on your network, you create a rule and specify `FORWARD` for `RuleType`. To then have Resolver process queries for `apex.example.com`, you create a rule and specify `SYSTEM` for `RuleType`.

Currently, only Resolver can create rules that have a value of `RECURSIVE` for `RuleType`.

Type: String

Valid Values: `FORWARD` | `SYSTEM` | `RECURSIVE`

Required: Yes

Tags (p. 314)

A list of the tag keys and values that you want to associate with the endpoint.

Type: Array of [Tag \(p. 495\)](#) objects

Required: No

TargetIps (p. 314)

The IPs that you want Resolver to forward DNS queries to. You can specify only IPv4 addresses. Separate IP addresses with a comma.

`TargetIps` is available only when the value of `RuleType` is `FORWARD`.

Type: Array of [TargetAddress \(p. 496\)](#) objects

Array Members: Minimum number of 1 item.

Required: No

Response Syntax

```
{
  "ResolverRule": {
    "Arn": "string",
    "CreatorRequestId": "string",
    "DomainName": "string",
    "Id": "string",
    "Name": "string",
    "OwnerId": "string",
    "ResolverEndpointId": "string",
    "RuleType": "string",
    "ShareStatus": "string",
    "Status": "string",
    "StatusMessage": "string",
    "TargetIps": [
      {
        "Ip": "string",
        "Port": number
      }
    ]
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRule (p. 316)

Information about the CreateResolverRule request, including the status of the request.

Type: [ResolverRule \(p. 489\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ResourceUnavailableException

The specified resource isn't available.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

CreateResolverRule Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 170
X-Amz-Target: Route53Resolver.CreateResolverRule
X-Amz-Date: 20181101T192331Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "CreatorRequestId": "999",
  "DomainName": "example.com",
  "Name": "MyRule",
  "ResolverEndpointId": "rslvr-out-fdc049932dexample",
  "RuleType": "FORWARD",
  "TargetIps": [
    {
      "Ip": "192.0.2.6"
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:23:31 GMT
```

```
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: f51a7bc8-e9c6-4399-b408-086ecexample
Connection: keep-alive

{
  "ResolverRule": {
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-rr-5328a0899aexample",
    "CreatorRequestId": "999",
    "DomainName": "example.com",
    "Id": "rslvr-rr-5328a0899aexample",
    "Name": "MyRule",
    "OwnerId": "123456789012",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
    "RuleType": "FORWARD",
    "ShareStatus": "NOT_SHARED",
    "Status": "COMPLETE",
    "StatusMessage": "[Trace id: 1-5bdb52b3-68082ffc336d18153example] Successfully created Resolver Rule.",
    "TargetIps": [
      {
        "Ip": "192.0.2.6",
        "Port": 53
      }
    ]
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteResolverEndpoint

Service: Amazon Route 53 Resolver

Deletes a Resolver endpoint. The effect of deleting a Resolver endpoint depends on whether it's an inbound or an outbound Resolver endpoint:

- **Inbound:** DNS queries from your network are no longer routed to the DNS service for the specified VPC.
- **Outbound:** DNS queries from a VPC are no longer routed to your network.

Request Syntax

```
{  
  "ResolverEndpointId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

ResolverEndpointId (p. 319)

The ID of the Resolver endpoint that you want to delete.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "ResolverEndpoint": {  
    "Arn": "string",  
    "CreationTime": "string",  
    "CreatorRequestId": "string",  
    "Direction": "string",  
    "HostVPCId": "string",  
    "Id": "string",  
    "IpAddressCount": number,  
    "ModificationTime": "string",  
    "Name": "string",  
    "SecurityGroupIds": [ "string" ],  
    "Status": "string",  
    "StatusMessage": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 319)

Information about the DeleteResolverEndpoint request, including the status of the request.

Type: [ResolverEndpoint \(p. 486\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

DeleteResolverEndpoint Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 283
X-Amz-Target: Route53Resolver.DeleteResolverEndpoint
X-Amz-Date: 20181101T191344Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]
```

```
{
  "ResolverEndpointId": "rslvr-out-fdc049932dexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:13:44 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 531
x-amzn-RequestId: 08afd081-9d67-4281-a277-b3880example
Connection: keep-alive

{
  "ResolverEndpoint": {
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-endpoint/rslvr-out-fdc049932dexample",
    "CreationTime": "2018-11-01T19:13:44.830Z",
    "CreatorRequestId": "5678",
    "Direction": "OUTBOUND",
    "HostVPCId": "vpc-0dd415a0edexample",
    "Id": "rslvr-out-fdc049932dexample",
    "IpAddressCount": 2,
    "ModificationTime": "2018-11-01T19:13:44.830Z",
    "Name": "MyOutbound",
    "SecurityGroupIds": [
      "sg-071b99f42example"
    ],
    "Status": "CREATING",
    "StatusMessage": "[Trace id: 1-5bdb5068-e0bdc4d232b1a3fe9c344c10] Successfully deleted Resolver Endpoint"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteResolverRule

Service: Amazon Route 53 Resolver

Deletes a Resolver rule. Before you can delete a Resolver rule, you must disassociate it from all the VPCs that you associated the Resolver rule with. For more information, see [DisassociateResolverRule](#).

Request Syntax

```
{  
  "ResolverRuleId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

[ResolverRuleId](#) (p. 322)

The ID of the Resolver rule that you want to delete.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "ResolverRule": {  
    "Arn": "string",  
    "CreatorRequestId": "string",  
    "DomainName": "string",  
    "Id": "string",  
    "Name": "string",  
    "OwnerId": "string",  
    "ResolverEndpointId": "string",  
    "RuleType": "string",  
    "ShareStatus": "string",  
    "Status": "string",  
    "StatusMessage": "string",  
    "TargetIps": [  
      {  
        "Ip": "string",  
        "Port": number  
      }  
    ]  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRule (p. 322)

Information about the DeleteResolverRule request, including the status of the request.

Type: [ResolverRule \(p. 489\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceInUseException

The resource that you tried to update or delete is currently in use.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

DeleteResolverRule Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 170
X-Amz-Target: Route53Resolver.DeleteResolverRule
X-Amz-Date: 20181101T192331Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]
```

```
{
  "ResolverRuleId": "rslvr-rr-5328a0899aexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:23:31 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: f51a7bc8-e9c6-4399-b408-086ecexample
Connection: keep-alive

{
  "ResolverRule": {
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-rr-5328a0899aexample",
    "CreatorRequestId": "999",
    "DomainName": "example.com",
    "Id": "rslvr-rr-5328a0899aexample",
    "OwnerId": "123456789012",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
    "RuleType": "FORWARD",
    "Status": "COMPLETE",
    "StatusMessage": "[Trace id: 1-5bdb52b3-68082ffc336d18153example] Successfully deleted Resolver Rule.",
    "TargetIps": [
      {
        "Ip": "192.0.2.6",
        "Port": 53
      }
    ]
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateResolverEndpointIpAddress

Service: Amazon Route 53 Resolver

Removes IP addresses from an inbound or an outbound Resolver endpoint. If you want to remove more than one IP address, submit one `DisassociateResolverEndpointIpAddress` request for each IP address.

To add an IP address to an endpoint, see [AssociateResolverEndpointIpAddress](#).

Request Syntax

```
{
  "IpAddress": {
    "Ip": "string",
    "IpId": "string",
    "SubnetId": "string"
  },
  "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

IpAddress (p. 325)

The IPv4 address that you want to remove from a Resolver endpoint.

Type: [IpAddressUpdate](#) (p. 485) object

Required: Yes

ResolverEndpointId (p. 325)

The ID of the Resolver endpoint that you want to disassociate an IP address from.

Type: String

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

Required: Yes

Response Syntax

```
{
  "ResolverEndpoint": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "Direction": "string",
    "HostVPCId": "string",
    "Id": "string",
    "IpAddressCount": number,
    "ModificationTime": "string",
    "Name": "string",
    "SecurityGroupIds": [ "string" ],
    "Status": "string",

```

```
    "StatusMessage": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 325)

The response to an `DisassociateResolverEndpointIpAddress` request.

Type: [ResolverEndpoint \(p. 486\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

DisassociateResolverEndpointIpAddress Example

Sample Request

```
POST / HTTP/1.1
```

```
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: Route53Resolver.DisassociateResolverEndpointIpAddress
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "IpAddress": {
    "SubnetId": "subnet-02f91e0e98example"
  }
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 479
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
  "ResolverEndpoint": {
    "Arn": "arn:aws:route53resolver:us-east-2:0123456789012:resolver-endpoint/rslvr-
in-60b9fd8fdbexample",
    "CreationTime": "2018-11-01T18:44:50.372Z",
    "CreatorRequestId": "1234",
    "Direction": "INBOUND",
    "HostVPCId": "vpc-03cf94c75cexample",
    "Id": "rslvr-in-60b9fd8fdbexample",
    "IpAddressCount": 3,
    "ModificationTime": "2018-11-01T18:44:50.372Z",
    "Name": "MyInbound",
    "SecurityGroupIds": [
      "sg-020a3554aexample"
    ],
    "Status": "UPDATING",
    "StatusMessage": "Disassociating a Resolver endpoint IP address"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DisassociateResolverRule

Service: Amazon Route 53 Resolver

Removes the association between a specified Resolver rule and a specified VPC.

Important

If you disassociate a Resolver rule from a VPC, Resolver stops forwarding DNS queries for the domain name that you specified in the Resolver rule.

Request Syntax

```
{  
  "ResolverRuleId": "string",  
  "VPCId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

ResolverRuleId (p. 329)

The ID of the Resolver rule that you want to disassociate from the specified VPC.

Type: String

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

Required: Yes

VPCId (p. 329)

The ID of the VPC that you want to disassociate the Resolver rule from.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "ResolverRuleAssociation": {  
    "Id": "string",  
    "Name": "string",  
    "ResolverRuleId": "string",  
    "Status": "string",  
    "StatusMessage": "string",  
    "VPCId": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRuleAssociation (p. 329)

Information about the `DisassociateResolverRule` request, including the status of the request.

Type: [ResolverRuleAssociation \(p. 492\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

DisassociateResolverRule Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 82
X-Amz-Target: Route53Resolver.DisassociateResolverRule
X-Amz-Date: 20181101T192826Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "ResolverRuleId": "rslvr-rr-5328a0899aexample"
  "VPCId": "vpc-03cf94c75cexample",
}
```


Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:28:27 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 258
x-amzn-RequestId: 9827eb40-87e6-44d6-bee7-a1116example
Connection: keep-alive

{
  "ResolverRuleAssociation":{
    "Id":"rslvr-rrassoc-97242eaf88example",
    "Name":"forward example.com for gamma VPC",
    "ResolverRuleId":"rslvr-rr-5328a0899example",
    "Status":"DELETING",
    "StatusMessage":"[Trace id: 1-5bdb53db-75f3852c8384ad30fexample], Deleting the
association.",
    "VPCId":"vpc-03cf94c75cexample"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResolverEndpoint

Service: Amazon Route 53 Resolver

Gets information about a specified Resolver endpoint, such as whether it's an inbound or an outbound Resolver endpoint, and the current status of the endpoint.

Request Syntax

```
{  
  "ResolverEndpointId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

ResolverEndpointId (p. 332)

The ID of the Resolver endpoint that you want to get information about.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "ResolverEndpoint": {  
    "Arn": "string",  
    "CreationTime": "string",  
    "CreatorRequestId": "string",  
    "Direction": "string",  
    "HostVPCId": "string",  
    "Id": "string",  
    "IpAddressCount": number,  
    "ModificationTime": "string",  
    "Name": "string",  
    "SecurityGroupIds": [ "string" ],  
    "Status": "string",  
    "StatusMessage": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 332)

Information about the Resolver endpoint that you specified in a `GetResolverEndpoint` request.

Type: [ResolverEndpoint](#) (p. 486) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

GetResolverEndpoint Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 52
X-Amz-Target: Route53Resolver.GetResolverEndpoint
X-Amz-Date: 20181101T184736Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{"ResolverEndpointId": "rslvr-in-60b9fd8fdbexample"}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:47:36 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 490
x-amzn-RequestId: 98d13818-b790-4aa8-8ed8-87a1eexample
Connection: keep-alive
```

```
{
  "ResolverEndpoint": {
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-endpoint/rslvr-in-60b9fd8fdbexample",
    "CreationTime": "2018-11-01T18:44:50.372Z",
    "CreatorRequestId": "1234",
    "Direction": "INBOUND",
    "HostVPCId": "vpc-03cf94c75cexample",
    "Id": "rslvr-in-60b9fd8fdbexample",
    "IpAddressCount": 2,
    "ModificationTime": "2018-11-01T18:44:50.372Z",
    "Name": "MyInbound",
    "SecurityGroupIds": [
      "sg-020a3554aexample"
    ],
    "Status": "OPERATIONAL",
    "StatusMessage": "This Resolver Endpoint is operational."
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResolverRule

Service: Amazon Route 53 Resolver

Gets information about a specified Resolver rule, such as the domain name that the rule forwards DNS queries for and the ID of the outbound Resolver endpoint that the rule is associated with.

Request Syntax

```
{  
  "ResolverRuleId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

ResolverRuleId (p. 335)

The ID of the Resolver rule that you want to get information about.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "ResolverRule": {  
    "Arn": "string",  
    "CreatorRequestId": "string",  
    "DomainName": "string",  
    "Id": "string",  
    "Name": "string",  
    "OwnerId": "string",  
    "ResolverEndpointId": "string",  
    "RuleType": "string",  
    "ShareStatus": "string",  
    "Status": "string",  
    "StatusMessage": "string",  
    "TargetIps": [  
      {  
        "Ip": "string",  
        "Port": number  
      }  
    ]  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRule (p. 335)

Information about the Resolver rule that you specified in a `GetResolverRule` request.

Type: [ResolverRule \(p. 489\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

GetResolverRule Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverRule
X-Amz-Date: 20181101T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "ResolverRuleId": "rslvr-rr-5328a0899aexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive

{
  "ResolverRule": {
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-rr-5328a0899aexample",
    "CreatorRequestId": "999",
    "DomainName": "example.com",
    "Id": "rslvr-rr-5328a0899aexample",
    "OwnerId": "123456789012",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
    "RuleType": "FORWARD",
    "Status": "COMPLETE",
    "StatusMessage": "[Trace id: 1-5bdb52b3-68082ffc336d18153example] Successfully created Resolver Rule.",
    "TargetIps": [
      {
        "Ip": "192.0.2.6",
        "Port": 53
      }
    ]
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResolverRuleAssociation

Service: Amazon Route 53 Resolver

Gets information about an association between a specified Resolver rule and a VPC. You associate a Resolver rule and a VPC using [AssociateResolverRule](#).

Request Syntax

```
{  
  "ResolverRuleAssociationId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

[ResolverRuleAssociationId](#) (p. 338)

The ID of the Resolver rule association that you want to get information about.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "ResolverRuleAssociation": {  
    "Id": "string",  
    "Name": "string",  
    "ResolverRuleId": "string",  
    "Status": "string",  
    "StatusMessage": "string",  
    "VPCId": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[ResolverRuleAssociation](#) (p. 338)

Information about the Resolver rule association that you specified in a `GetResolverRuleAssociation` request.

Type: [ResolverRuleAssociation](#) (p. 492) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

GetResolverRuleAssociation Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverRuleAssociation
X-Amz-Date: 20181101T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]

{
  "ResolverRuleAssociationId": "rslvr-rrassoc-97242eaf88example"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 314
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive
```

```
{
  "ResolverRuleAssociation":{
    "Id":"rslvr-rrassoc-97242eaf88example",
    "Name":"forward example.com for gamma VPC",
    "ResolverRuleId":"rslvr-rr-5328a0899example",
    "Status":"CREATING",
    "StatusMessage":["Trace id: 1-5bdb53db-75f3852c8384ad30fexample], Creating the
association."],
    "VPCId":"vpc-03cf94c75cexample"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResolverRulePolicy

Service: Amazon Route 53 Resolver

Gets information about a Resolver rule policy. A Resolver rule policy specifies the Resolver operations and resources that you want to allow another AWS account to be able to use.

Request Syntax

```
{  
  "Arn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

Arn (p. 341)

The ID of the Resolver rule policy that you want to get information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Response Syntax

```
{  
  "ResolverRulePolicy": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRulePolicy (p. 341)

Information about the Resolver rule policy that you specified in a `GetResolverRulePolicy` request.

Type: String

Length Constraints: Maximum length of 5000.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

UnknownResourceException

The specified resource doesn't exist.

HTTP Status Code: 400

Example

GetResolverRulePolicy Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverRulePolicy
X-Amz-Date: 20181101T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "Arn": "arn:aws:route53resolver:us-east-2:0123456789012:resolver-endpoint/rslvr-
in-60b9fd8fdbexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 314
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive

{
  "ResolverRulePolicy":{
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListResolverEndpointIpAddresses

Service: Amazon Route 53 Resolver

Gets the IP addresses for a specified Resolver endpoint.

Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "ResolverEndpointId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

MaxResults (p. 344)

The maximum number of IP addresses that you want to return in the response to a `ListResolverEndpointIpAddresses` request. If you don't specify a value for `MaxResults`, Resolver returns up to 100 IP addresses.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 344)

For the first `ListResolverEndpointIpAddresses` request, omit this value.

If the specified Resolver endpoint has more than `MaxResults` IP addresses, you can submit another `ListResolverEndpointIpAddresses` request to get the next group of IP addresses. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Required: No

ResolverEndpointId (p. 344)

The ID of the Resolver endpoint that you want to get IP addresses for.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "IpAddresses": [  
      
  ]  
}
```

```
{
  "CreationTime": "string",
  "Ip": "string",
  "IpId": "string",
  "ModificationTime": "string",
  "Status": "string",
  "StatusMessage": "string",
  "SubnetId": "string"
},
"MaxResults": number,
"NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

IpAddresses (p. 344)

Information about the IP addresses in your VPC that DNS queries originate from (for outbound endpoints) or that you forward DNS queries to (for inbound endpoints).

Type: Array of [IpAddressResponse](#) (p. 483) objects

MaxResults (p. 344)

The value that you specified for `MaxResults` in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 344)

If the specified endpoint has more than `MaxResults` IP addresses, you can submit another `ListResolverEndpointIpAddresses` request to get the next group of IP addresses. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for `NextToken` in a `List` request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

ListResolverEndpointIpAddresses Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 52
X-Amz-Target: Route53Resolver.ListResolverEndpointIpAddresses
X-Amz-Date: 20181101T193143Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]

{
  "ResolverEndpointId": "rslvr-in-60b9fd8fdbexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:31:43 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 780
x-amzn-RequestId: df6722d0-49a0-4300-a491-fe290example
Connection: keep-alive

{
  "IpAddresses": [
    {
      "CreationTime": "2018-11-01T18:44:50.375Z",
      "Ip": "192.0.2.42",
      "IpId": "rni-42ed238be6example",
      "ModificationTime": "2018-11-01T18:45:10.956Z",
      "Status": "ATTACHED",
      "StatusMessage": "This IP address is operational.",
      "SubnetId": "subnet-02f91e0e98example"
    },
    {
      "CreationTime": "2018-11-01T18:44:50.379Z",
      "Ip": "192.0.2.18",
      "IpId": "rni-2cf1fc97bfexample",

```



```
        "ModificationTime": "2018-11-01T18:45:10.724Z",
        "Status": "ATTACHED",
        "StatusMessage": "This IP address is operational.",
        "SubnetId": "subnet-02f91e0e98example"
    },
    {
        "CreationTime": "2018-11-01T18:52:22.471Z",
        "Ip": "192.0.2.40",
        "IpId": "rni-e6b5f1b6e6example",
        "ModificationTime": "2018-11-01T18:52:45.886Z",
        "Status": "ATTACHED",
        "StatusMessage": "This IP address is operational.",
        "SubnetId": "subnet-02f91e0e98example"
    }
],
"MaxResults": 10
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListResolverEndpoints

Service: Amazon Route 53 Resolver

Lists all the Resolver endpoints that were created using the current AWS account.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

Filters (p. 348)

An optional specification to return a subset of Resolver endpoints, such as all inbound Resolver endpoints.

Note

If you submit a second or subsequent `ListResolverEndpoints` request and specify the `NextToken` parameter, you must use the same values for `Filters`, if any, as in the previous request.

Type: Array of [Filter \(p. 480\)](#) objects

Required: No

MaxResults (p. 348)

The maximum number of Resolver endpoints that you want to return in the response to a `ListResolverEndpoints` request. If you don't specify a value for `MaxResults`, Resolver returns up to 100 Resolver endpoints.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 348)

For the first `ListResolverEndpoints` request, omit this value.

If you have more than `MaxResults` Resolver endpoints, you can submit another `ListResolverEndpoints` request to get the next group of Resolver endpoints. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Required: No

Response Syntax

```
{
  "MaxResults": number,
  "NextToken": "string",
  "ResolverEndpoints": [
    {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "Direction": "string",
      "HostVPCId": "string",
      "Id": "string",
      "IpAddressCount": number,
      "ModificationTime": "string",
      "Name": "string",
      "SecurityGroupIds": [ "string" ],
      "Status": "string",
      "StatusMessage": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MaxResults (p. 349)

The value that you specified for `MaxResults` in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 349)

If more than `MaxResults` IP addresses match the specified criteria, you can submit another `ListResolverEndpoint` request to get the next group of results. In the next request, specify the value of `NextToken` from the previous response.

Type: String

ResolverEndpoints (p. 349)

The Resolver endpoints that were created by using the current AWS account, and that match the specified filters, if any.

Type: Array of [ResolverEndpoint \(p. 486\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for `NextToken` in a `List` request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

ListResolverEndpoints Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.ListResolverEndpoints
X-Amz-Date: 20181101T191920Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]

{}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:19:20 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 983
x-amzn-RequestId: 35a62daa-889c-47e4-994e-5a4dbd9818fb
Connection: keep-alive

{
  "MaxResults": 10,
  "ResolverEndpoints": [
    {
      "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-endpoint/rslvr-
in-60b9fd8fdbexample",
      "CreationTime": "2018-11-01T18:44:50.372Z",
```

```
    "CreatorRequestId": "1234",
    "Direction": "INBOUND",
    "HostVPCId": "vpc-03cf94c75cexample",
    "Id": "rslvr-in-60b9fd8fdbexample",
    "IpAddressCount": 3,
    "ModificationTime": "2018-11-01T18:44:50.372Z",
    "Name": "MyInbound",
    "SecurityGroupIds": [
        "sg-020a3554aexample"
    ],
    "Status": "OPERATIONAL",
    "StatusMessage": "This Resolver Endpoint is operational."
},
{
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-endpoint/rslvr-
out-fdc049932d9645ffa",
    "CreationTime": "2018-11-01T19:13:44.830Z",
    "CreatorRequestId": "5678",
    "Direction": "OUTBOUND",
    "HostVPCId": "vpc-0dd415a0edexample",
    "Id": "rslvr-out-fdc049932dexample",
    "IpAddressCount": 2,
    "ModificationTime": "2018-11-01T19:13:44.830Z",
    "Name": "MyOutbound",
    "SecurityGroupIds": [
        "sg-071b99f42example"
    ],
    "Status": "OPERATIONAL",
    "StatusMessage": "This Resolver Endpoint is operational."
}
]
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListResolverRuleAssociations

Service: Amazon Route 53 Resolver

Lists the associations that were created between Resolver rules and VPCs using the current AWS account.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

Filters (p. 352)

An optional specification to return a subset of Resolver rules, such as Resolver rules that are associated with the same VPC ID.

Note

If you submit a second or subsequent `ListResolverRuleAssociations` request and specify the `NextToken` parameter, you must use the same values for `Filters`, if any, as in the previous request.

Type: Array of [Filter](#) (p. 480) objects

Required: No

MaxResults (p. 352)

The maximum number of rule associations that you want to return in the response to a `ListResolverRuleAssociations` request. If you don't specify a value for `MaxResults`, Resolver returns up to 100 rule associations.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 352)

For the first `ListResolverRuleAssociation` request, omit this value.

If you have more than `MaxResults` rule associations, you can submit another `ListResolverRuleAssociation` request to get the next group of rule associations. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Required: No

Response Syntax

```
{
  "MaxResults": number,
  "NextToken": "string",
  "ResolverRuleAssociations": [
    {
      "Id": "string",
      "Name": "string",
      "ResolverRuleId": "string",
      "Status": "string",
      "StatusMessage": "string",
      "VPCId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MaxResults (p. 353)

The value that you specified for `MaxResults` in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 353)

If more than `MaxResults` rule associations match the specified criteria, you can submit another `ListResolverRuleAssociation` request to get the next group of results. In the next request, specify the value of `NextToken` from the previous response.

Type: String

ResolverRuleAssociations (p. 353)

The associations that were created between Resolver rules and VPCs using the current AWS account, and that match the specified filters, if any.

Type: Array of [ResolverRuleAssociation \(p. 492\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for `NextToken` in a `List` request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

ListResolverRuleAssociations Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.ListResolverRuleAssociations
X-Amz-Date: 20181101T193011Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]

{}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:30:11 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 277
x-amzn-RequestId: 5ad8f14f-64c0-4cb0-a4f9-e5c48example
Connection: keep-alive

{
  "MaxResults": 30,
  "ResolverRuleAssociations": [
    {
      "Id": "rslvr-rrassoc-97242eaf88example",
      "Name": "forward example.com for gamma VPC",
      "ResolverRuleId": "rslvr-rr-5328a0899aexample",
      "Status": "COMPLETE",
      "StatusMessage": "[Trace id: 1-5bdb53db-75f3852c8384ad30fexample] Creating the association.",
      "VPCId": "vpc-03cf94c75eexample"
    }
  ]
}
```



```
}  
  ]  
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListResolverRules

Service: Amazon Route 53 Resolver

Lists the Resolver rules that were created using the current AWS account.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

Filters (p. 356)

An optional specification to return a subset of Resolver rules, such as all Resolver rules that are associated with the same Resolver endpoint.

Note

If you submit a second or subsequent `ListResolverRules` request and specify the `NextToken` parameter, you must use the same values for `Filters`, if any, as in the previous request.

Type: Array of [Filter \(p. 480\)](#) objects

Required: No

MaxResults (p. 356)

The maximum number of Resolver rules that you want to return in the response to a `ListResolverRules` request. If you don't specify a value for `MaxResults`, Resolver returns up to 100 Resolver rules.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 356)

For the first `ListResolverRules` request, omit this value.

If you have more than `MaxResults` Resolver rules, you can submit another `ListResolverRules` request to get the next group of Resolver rules. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Required: No

Response Syntax

```
{
  "MaxResults": number,
  "NextToken": "string",
  "ResolverRules": [
    {
      "Arn": "string",
      "CreatorRequestId": "string",
      "DomainName": "string",
      "Id": "string",
      "Name": "string",
      "OwnerId": "string",
      "ResolverEndpointId": "string",
      "RuleType": "string",
      "ShareStatus": "string",
      "Status": "string",
      "StatusMessage": "string",
      "TargetIps": [
        {
          "Ip": "string",
          "Port": number
        }
      ]
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

MaxResults (p. 357)

The value that you specified for `MaxResults` in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken (p. 357)

If more than `MaxResults` Resolver rules match the specified criteria, you can submit another `ListResolverRules` request to get the next group of results. In the next request, specify the value of `NextToken` from the previous response.

Type: String

ResolverRules (p. 357)

The Resolver rules that were created using the current AWS account and that match the specified filters, if any.

Type: Array of [ResolverRule \(p. 489\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for `NextToken` in a `List` request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

ListResolverRules Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.ListResolverRules
X-Amz-Date: 20181101T192600Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:00 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 483
x-amzn-RequestId: cfa09aaa-6619-40d4-8791-064c6example
Connection: keep-alive

{
  "MaxResults": 30,
```

```
    "ResolverRules": [
      {
        "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-rr-5328a0899aexample",
        "CreatorRequestId": "999",
        "DomainName": "example.com",
        "Id": "rslvr-rr-5328a0899aexample",
        "OwnerId": "123456789012",
        "ResolverEndpointId": "rslvr-out-fdc049932dexample",
        "RuleType": "FORWARD",
        "Status": "COMPLETE",
        "StatusMessage": "[Trace id: 1-5bdb52b3-68082ffc336d18153example] Successfully created Resolver Rule.",
        "TargetIps": [
          {
            "Ip": "192.0.2.6",
            "Port": 53
          }
        ]
      }
    ]
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: Amazon Route 53 Resolver

Lists the tags that you associated with the specified resource.

Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "ResourceArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

MaxResults (p. 360)

The maximum number of tags that you want to return in the response to a `ListTagsForResource` request. If you don't specify a value for `MaxResults`, Resolver returns up to 100 tags.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 360)

For the first `ListTagsForResource` request, omit this value.

If you have more than `MaxResults` tags, you can submit another `ListTagsForResource` request to get the next group of tags for the resource. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Required: No

ResourceArn (p. 360)

The Amazon Resource Name (ARN) for the resource that you want to list tags for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Response Syntax

```
{  
  "NextToken": "string",  
  "Tags": [  
    {  
      "Key": "string",  
      "Value": "string"  
    }  
  ]  
}
```

```
    "Key": "string",  
    "Value": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken (p. 360)

If more than `MaxResults` tags match the specified criteria, you can submit another `ListTagsForResource` request to get the next group of results. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Tags (p. 360)

The tags that are associated with the resource that you specified in the `ListTagsForResource` request.

Type: Array of [Tag \(p. 495\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for `NextToken` in a `List` request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

ListTagsForResource Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 134
X-Amz-Target: Route53Resolver.ListTagsForResource
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]

{
  "MaxResults": 10,
  "ResourceArn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-
rr-5328a0899aexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 107
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
  "Tags": [
    {
      "Key": "account-id",
      "Value": "12345"
    }
  ]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

PutResolverRulePolicy

Service: Amazon Route 53 Resolver

Specifies an AWS account that you want to share rules with, the Resolver rules that you want to share, and the operations that you want the account to be able to perform on those rules.

Request Syntax

```
{  
  "Arn": "string",  
  "ResolverRulePolicy": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

Arn (p. 364)

The Amazon Resource Name (ARN) of the account that you want to share rules with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

ResolverRulePolicy (p. 364)

An AWS Identity and Access Management policy statement that lists the rules that you want to share with another AWS account and the operations that you want the account to be able to perform. You can specify the following operations in the `Actions` section of the statement:

- `route53resolver:GetResolverRule`
- `route53resolver:AssociateResolverRule`
- `route53resolver:DisassociateResolverRule`
- `route53resolver:ListResolverRules`
- `route53resolver:ListResolverRuleAssociations`

In the `Resource` section of the statement, you specify the ARNs for the rules that you want to share with the account that you specified in `Arn`.

Type: String

Length Constraints: Maximum length of 5000.

Required: Yes

Response Syntax

```
{  
  "ReturnValue": boolean  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ReturnValue (p. 364)

Whether the PutResolverRulePolicy request was successful.

Type: Boolean

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidPolicyDocument

The specified Resolver rule policy is invalid.

HTTP Status Code: 400

UnknownResourceException

The specified resource doesn't exist.

HTTP Status Code: 400

Example

PutResolverRulePolicy Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.PutResolverRulePolicy
X-Amz-Date: 20181101T192600Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]
```

```
{
  "Arn": "[ARN for the account that you want to share operations and resources with]",
  "ResolverRulePolicy": "{
    "Version": "2012-10-17",
    "Statement": [
      {
        "Effect" : "Allow",
        "Principal" : {"AWS" : [ "123456789012" ] },
        "Action" : [
          "route53resolver:GetResolverRule",
          "route53resolver:AssociateResolverRule",
          "route53resolver:DisassociateResolverRule",
          "route53resolver:ListResolverRules",
          "route53resolver:ListResolverRuleAssociations"
        ],
        "Resource" : [
          "arn:aws:route53resolver:[region]:[account-id]:resolver-rule/[rule-id]"
        ]
      }
    ]
  }"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:00 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 27
x-amzn-RequestId: cfa09aaa-6619-40d4-8791-064c6example
Connection: keep-alive

{
  "ReturnValue": true
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Service: Amazon Route 53 Resolver

Adds one or more tags to a specified resource.

Request Syntax

```
{
  "ResourceArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 497\)](#).

The request accepts the following data in JSON format.

ResourceArn (p. 367)

The Amazon Resource Name (ARN) for the resource that you want to add tags to. To get the ARN for a resource, use the applicable `Get` or `List` command:

- [GetResolverEndpoint](#)
- [GetResolverRule](#)
- [GetResolverRuleAssociation](#)
- [ListResolverEndpoints](#)
- [ListResolverRuleAssociations](#)
- [ListResolverRules](#)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Tags (p. 367)

The tags that you want to add to the specified resource.

Type: Array of [Tag \(p. 495\)](#) objects

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidTagException

The specified tag is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

TagResource Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 217
X-Amz-Target: Route53Resolver.TagResource
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "ResourceArn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-
rr-5328a0899aexample",
  "Tags": [
    {
      "Key": "account-id",
      "Value": "12345"
    }
  ]
}
```

```
]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 2
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Service: Amazon Route 53 Resolver

Removes one or more tags from a specified resource.

Request Syntax

```
{  
  "ResourceArn": "string",  
  "TagKeys": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

ResourceArn (p. 370)

The Amazon Resource Name (ARN) for the resource that you want to remove tags from. To get the ARN for a resource, use the applicable `Get` or `List` command:

- [GetResolverEndpoint](#)
- [GetResolverRule](#)
- [GetResolverRuleAssociation](#)
- [ListResolverEndpoints](#)
- [ListResolverRuleAssociations](#)
- [ListResolverRules](#)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

TagKeys (p. 370)

The tags that you want to remove to the specified resource.

Type: Array of strings

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 499).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

UntagResource Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 165
X-Amz-Target: Route53Resolver.UntagResource
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                  Signature=[calculated-signature]

{
  "ResourceArn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-
rr-5328a0899aexample",
  "TagKeys": [
    "Key": "account-id"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 2
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateResolverEndpoint

Service: Amazon Route 53 Resolver

Updates the name of an inbound or an outbound Resolver endpoint.

Request Syntax

```
{  
  "Name": "string",  
  "ResolverEndpointId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

Name (p. 373)

The name of the Resolver endpoint that you want to update.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+\$)([a-zA-Z0-9-_' ']+)

Required: No

ResolverEndpointId (p. 373)

The ID of the Resolver endpoint that you want to update.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "ResolverEndpoint": {  
    "Arn": "string",  
    "CreationTime": "string",  
    "CreatorRequestId": "string",  
    "Direction": "string",  
    "HostVPCId": "string",  
    "Id": "string",  
    "IpAddressCount": number,  
    "ModificationTime": "string",  
    "Name": "string",  
    "SecurityGroupIds": [ "string" ],  
    "Status": "string",  
    "StatusMessage": "string"  
  }  
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 373)

The response to an `UpdateResolverEndpoint` request.

Type: [ResolverEndpoint \(p. 486\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

UpdateResolverEndpoint Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.UpdateResolverEndpoint
X-Amz-Date: 20181101T192600Z
```

```
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "Name": "MyInbound",
  "ResolverEndpointId": "rslvr-in-60b9fd8fdbexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 479
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
  "ResolverEndpoint": {
    "Arn": "arn:aws:route53resolver:us-east-2:0123456789012:resolver-endpoint/rslvr-
in-60b9fd8fdbexample",
    "CreationTime": "2018-11-01T18:44:50.372Z",
    "CreatorRequestId": "1234",
    "Direction": "INBOUND",
    "HostVPCId": "vpc-03cf94c75cexample",
    "Id": "rslvr-in-60b9fd8fdbexample",
    "IpAddressCount": 3,
    "ModificationTime": "2018-11-01T18:44:50.372Z",
    "Name": "MyInbound",
    "SecurityGroupIds": [
      "sg-020a3554aexample"
    ],
    "Status": "UPDATING",
    "StatusMessage": "Updating the Resolver Endpoint"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateResolverRule

Service: Amazon Route 53 Resolver

Updates settings for a specified Resolver rule. `ResolverRuleId` is required, and all other parameters are optional. If you don't specify a parameter, it retains its current value.

Request Syntax

```
{
  "Config": {
    "Name": "string",
    "ResolverEndpointId": "string",
    "TargetIps": [
      {
        "Ip": "string",
        "Port": number
      }
    ]
  },
  "ResolverRuleId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 497).

The request accepts the following data in JSON format.

Config (p. 376)

The new settings for the Resolver rule.

Type: [ResolverRuleConfig](#) (p. 494) object

Required: Yes

ResolverRuleId (p. 376)

The ID of the Resolver rule that you want to update.

Type: String

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

Required: Yes

Response Syntax

```
{
  "ResolverRule": {
    "Arn": "string",
    "CreatorRequestId": "string",
    "DomainName": "string",
    "Id": "string",
    "Name": "string",
    "OwnerId": "string",
    "ResolverEndpointId": "string",
    "RuleType": "string",
  }
}
```

```
"ShareStatus": "string",
"Status": "string",
"StatusMessage": "string",
"TargetIps": [
  {
    "Ip": "string",
    "Port": number
  }
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRule (p. 376)

The response to an `UpdateResolverRule` request.

Type: [ResolverRule \(p. 489\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 499\)](#).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ResourceUnavailableException

The specified resource isn't available.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Example

UpdateResolverRule Example

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 170
X-Amz-Target: Route53Resolver.UpdateResolverRule
X-Amz-Date: 20181101T192331Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
                Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
                SignedHeaders=content-type;host;x-amz-date;x-amz-target,
                Signature=[calculated-signature]

{
  "Config": {
    "Name": "MyRule",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
    "TargetIps": [
      {
        "Ip": "192.0.2.6"
      }
    ]
  },
  "ResolverRuleId": "rslvr-rr-5328a0899aexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:23:31 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: f51a7bc8-e9c6-4399-b408-086ecexample
Connection: keep-alive

{
  "ResolverRule": {
    "Arn": "arn:aws:route53resolver:us-east-2:123456789012:resolver-rule/rslvr-rr-5328a0899aexample",
    "CreatorRequestId": "999",
    "DomainName": "example.net",
    "Id": "rslvr-rr-5328a0899aexample",
    "Name": "MyRule",
    "OwnerId": "123456789012",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
    "RuleType": "FORWARD",
    "ShareStatus": "NOT_SHARED",
    "Status": "COMPLETE",
  }
}
```



```
    "StatusMessage": "[Trace id: 1-5bdb52b3-68082ffc336d18153example] Successfully  
updated Resolver Rule.",  
    "TargetIps": [  
        {  
            "Ip": "192.0.2.6",  
            "Port": 53  
        }  
    ]  
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Making API Requests

Topics

- [Making API Requests for Hosted Zones, Resource Record Sets, Health Checks, and Cost Allocation Tags \(p. 380\)](#)
- [Making API Requests for Domain Registration and for Route 53 Resolver \(p. 384\)](#)
- [Signing Amazon Route 53 API Requests \(p. 386\)](#)

This section describes how to make requests to the two Route 53 APIs:

- A REST API for hosted zones, resource record sets, health checks, and cost allocation tags
- RPC APIs for domain registration and for Route 53 Resolver

For each API, we describe the components of requests and the content of responses. We also describe how to authenticate requests.

Making API Requests for Hosted Zones, Resource Record Sets, Health Checks, and Cost Allocation Tags

Topics

- [REST Requests \(p. 381\)](#)
- [REST Responses \(p. 383\)](#)

This section describes how to make REST requests to the Amazon Route 53 API for creating and managing your hosted zones, resource record sets, health checks, and cost allocation tags. We'll acquaint you with the components of requests, the content of responses, and how to authenticate requests.

Note

To register and manage domains, use the Route 53 API for domain registration. For more information, see [Making API Requests for Domain Registration and for Route 53 Resolver \(p. 384\)](#).

REST Requests

Amazon Route 53 REST requests are HTTPS requests, as defined by RFC 2616 (for more information, go to <http://www.ietf.org/rfc/rfc2616.txt>). This section describes the structure of an Route 53 REST request.

A typical REST action consists of sending a single HTTPS request to Route 53, and waiting for the response. Like any HTTP request, a REST request to Route 53 contains a request method, a URI, request headers, and sometimes a query string or request body. The response contains an HTTP status code, response headers, and sometimes a response body.

Request URI

The request URI always starts with a forward slash and then the version of the Route 53 API you use (for example, 2013-04-01). The remainder of the URI indicates the particular resource you want to act on. For example, following is the URI you use when creating a new hosted zone. (For more information, see [CreateHostedZone](#) (p. 35).)

```
/2013-04-01/hostedzone
```

About the Request Time Stamp

You must provide the time stamp in either the HTTP `Date` header or the AWS `x-amz-date` header (some HTTP client libraries don't let you set the `Date` header). When an `x-amz-date` header is present, the system ignores any `Date` header when authenticating the request.

The time stamp must be within 5 minutes of the AWS system time when the request is received. If it isn't, the request fails with the `RequestExpired` error code. This is to prevent replays of your requests by an adversary.

The date must be specified in ISO 8601 format, for example, `2016-03-03T19:20:25.177Z`. For more information about ISO 8601 format, see the Wikipedia article [ISO 8601](#).

Request Body

Many of the Route 53 API actions require you to include XML in the body of the request. The XML conforms to the Route 53 schema.

Example Example Request

The following example request uses a simple XML statement to create a hosted zone named `example.com` with the reference identifier, *myUniquelIdentifier*.

The XML elements in your request must appear in the order listed.

```
POST /2013-04-01/hostedzone HTTP/1.1
host:route53.amazonaws.com
x-amz-date: date and time of the request
authorization: AWS4-HMAC-SHA256
                Credential=AKIAIOSFODNN7EXAMPLE/date of the request in yyyymmdd format/us-
east-1/route53domains/aws4_request,
                SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
                Signature=computed signature
[Other required headers]

<?xml version="1.0" encoding="UTF-8"?>
```

```
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Name>example.com.</Name>
  <CallerReference>myUniqueIdentifier</CallerReference>
  <HostedZoneConfig>
    <Comment>This is my hosted zone.</Comment>
  </HostedZoneConfig>
</CreateHostedZoneRequest>
```

REST Responses

Amazon Route 53 responses are just standard HTTP responses. Some of the Route 53 actions return special information specific to Route 53 in the form of an HTTP header or XML in the body of the response. The specific details are covered in the API reference topic for the particular action.

Each response contains a request ID that you can use if you need to troubleshoot a request with Route 53. The ID is contained in an HTTP header called `x-amz-request-id`. An example of a request ID is `647cd254-e0d1-44a9-af61-1d6d86ea6b77`.

The following example shows a response to a request to create a hosted zone. The `CreatedHostedZoneResponse` element contains information about the hosted zone including an Route 53 identifier, the domain that the hosted zone is associated with, and a reference description and comment. The change request itself is associated with a submittal time, an identifier and a status, shown as `PENDING`. Most importantly, the `CreatedHostedZoneResponse` includes the Route 53 name servers assigned to the hosted zone; this information is contained in the `DelegationSet` element.

Example Example Response

```
HTTP/1.1 201 Created
x-amz-request-id: request_id

<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>myUniqueIdentifier</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
    </Config>
  </HostedZone>
  <ChangeInfo>
    <Id>/change/C1PA6795UKMFR9</Id>
    <Status>PENDING</Status>
    <SubmittedAt>2010-09-10T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
  <DelegationSet>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</CreateHostedZoneResponse>
```

Error Responses

If a REST request results in an error, the HTTP response has:

- An XML error document as the response body
- Content-Type header: `text/xml`
- An appropriate 3xx, 4xx, or 5xx HTTP status code

Following is an example of the XML error document in a REST error response.

```
<ErrorResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Error>
    <Type>Sender</Type>
    <Code>InvalidInput</Code>
    <Message>The input is not valid.</Message>
  </Error>
  <RequestId>410c2a4b-e435-49c9-8382-3770d80d7d4c</RequestId>
</ErrorResponse>
```

Making API Requests for Domain Registration and for Route 53 Resolver

Topics

- [RPC Requests \(p. 385\)](#)
- [RPC Responses \(p. 386\)](#)

This section describes how to make RPC requests to two Amazon Route 53 APIs. You use one to register and manage domains, and you use the other to manage Route 53 Resolver. We'll acquaint you with the components of requests, the content of responses, and how to authenticate requests.

Note

To create and manage hosted zones, resource record sets, health checks, and cost allocation tags, use the applicable Route 53 API. For more information, see [Making API Requests for Hosted Zones, Resource Record Sets, Health Checks, and Cost Allocation Tags \(p. 380\)](#).

RPC Requests

Amazon Route 53 RPC requests are HTTPS requests, as defined by RFC 2616 (for more information, go to <http://www.ietf.org/rfc/rfc2616.txt>). This section describes the structure of an Route 53 RPC request.

For an RPC action, you send an HTTPS request to Route 53 and wait for the response. An RPC request to Route 53 contains request headers and sometimes a query string or request body. The response contains an HTTP status code, response headers, and sometimes a response body.

About the Request Time Stamp

You must provide the time stamp in either the HTTP `Date` header or the AWS `x-amz-date` header (some HTTP client libraries don't let you set the `Date` header). When an `x-amz-date` header is present, the system ignores any `Date` header when authenticating the request.

The time stamp must be within 5 minutes of the AWS system time when the request is received. If it isn't, the request fails with the `RequestExpired` error code. This helps prevent someone else from resubmitting a request.

The date must be specified in ISO 8601 format, for example, `2016-03-03T19:20:25.177Z`. For more information, see the Wikipedia article [ISO 8601](#).

Request Body

Many Route 53 API actions require you to include JSON in the body of the request. The JSON conforms to the Route 53 schema for either domain registration or Route 53 Resolver.

Example Example Request

The following example request uses a simple JSON statement to determine whether the domain name `example.com` is available.

The JSON elements in your request must appear in the order listed.

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date: date and time of the request
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/date of the request in yyyyymmdd format/us-
east-1/route53domains/aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=computed signature
x-amz-target:Route53Domains_v20140515.CheckDomainAvailability
user-agent:information about the source of the request
content-type:application/x-amz-json- 1.1
content-length:length
connections:Keep-Alive
{
  "DomainName":"example.com"
}
```

RPC Responses

Amazon Route 53 responses are just standard HTTP responses. Some of the Route 53 actions return special information specific to Route 53 in the form of an HTTP header or JSON in the body of the response. The specific details are covered in the documentation for the action.

Each response contains a request ID that you can use if you need to troubleshoot a request with Route 53. The ID is contained in an HTTP header called `x-amz-request-id`. An example of a request ID is `647cd254-e0d1-44a9-af61-1d6d86ea6b77`.

The following example shows a response to a request to check the availability of a specified domain name. The `Availability` element indicates whether the domain that you specified in the request is available.

Example Example Response

```
HTTP/1.1 200
Content-Length: number of characters in the JSON string
{
  "Availability": "308c56712-faa4-40fe-94c8-b423069de3f6"
}
```

Error Responses

If an RPC request results in an error, the HTTP response has:

- An error document in JSON format as the response body
- Content-Type header: `text/xml`
- An appropriate 3xx, 4xx, or 5xx HTTP status code

Following is an example of the JSON error document in an RPC error response.

```
{
  "__type": "com.amazon.coral.service#UnrecognizedClientException",
  "message": "The security token included in the request is invalid."
}
```

Signing Amazon Route 53 API Requests

Requests must be signed using an access key ID and a secret access key. We strongly recommend that you do not use your AWS account credentials for everyday work with Route 53. You can use the credentials for an IAM user or you can use AWS STS to generate temporary security credentials.

To sign your API requests, we recommend that you use AWS Signature Version 4. For more information, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

In addition, you might also be interested in the following topics:

- [AWS Security Credentials](#) – Provides general information about the types of credentials used for accessing AWS.
- [IAM Best Practices](#) – Presents a list of suggestions for using IAM service to help secure your AWS resources.
- [Temporary Security Credentials](#) – Describes how to create and use temporary security credentials.

Traffic Policy Document Format

When you create a traffic policy programmatically by using the Amazon Route 53 API, one of the AWS SDKs, the AWS CLI, or AWS Tools for Windows PowerShell, you specify the definition of the traffic policy in a `Document` element in JSON format.

For more information about traffic policies, see [Using Traffic Flow to Route DNS Traffic](#) in the *Amazon Route 53 Developer Guide*.

Topics

- [Basic Syntax \(p. 387\)](#)
- [Syntax for Endpoint Definitions \(p. 388\)](#)
- [Syntax for Rule Definitions \(p. 389\)](#)
- [Examples \(p. 395\)](#)

Basic Syntax

Here is the basic syntax for a traffic policy document:

```
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "DNS type for all resource record sets created by this traffic policy",
  "StartEndpoint | StartRule": "ID that you assign to an endpoint or rule",
  "Endpoints": {
    "Endpoint ID that you assign": {
      Endpoint definition
    },
    ...
  },
  "Rules": {
    "Rule ID that you assign": {
      Rule definition
    },
    ...
  }
}
```

The basic syntax for a traffic policy document contains the following objects:

AWSPolicyFormatVersion

The version of the traffic policy format, currently 2015-10-01.

RecordType

The DNS type of all of the resource record sets that Amazon Route 53 will create based on this traffic policy. If you want to route traffic to the following AWS resources, choose the applicable value:

- **CloudFront distribution** – Choose **A: IP address in IPv4 format**.
- **ELB load balancer** – Choose either **A: IP address in IPv4 format** or **AAAA: IP address in IPv6 format**.
- **Amazon S3 bucket configured as a website endpoint**: Choose **A: IP address in IPv4 format**.

If you want to route traffic to other resources, choose the applicable type for the resource. For example, if you want to route traffic to mail servers, specify `MX`. For the list of DNS types that Route 53 supports, see [Supported DNS Resource Record Types](#) in the *Amazon Route 53 Developer Guide*.

StartEndpoint | StartRule

Whether you want the starting point for the traffic policy to be an endpoint or a rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

Endpoints

The definitions of the endpoints that you want to use in this traffic policy. For more information, see [Syntax for Endpoint Definitions \(p. 388\)](#).

Rules

The definitions of the rules that you want to use in this traffic policy. For more information, see [Syntax for Rule Definitions \(p. 389\)](#).

Syntax for Endpoint Definitions

Here is the syntax for the endpoint definitions that you specify in a traffic policy document:

```
{
  "Type": value | cloudfront | elastic-load-balancer | s3-website,
  "Region": "AWS region that you created your Amazon S3 bucket in"
  "Value": "value applicable to the type of endpoint"
}
```

The syntax for an endpoint definition contains the following objects:

Type

Specify the applicable value:

value

To route traffic to a resource other than a CloudFront distribution, an ELB load balancer, or an Amazon S3 bucket that is configured as a website endpoint, specify `value` for `Type`.

cloudfront

To route traffic to a CloudFront distribution, specify `cloudfront` for `Type`.

elastic-load-balancer

To route traffic to an ELB load balancer, specify `elastic-load-balancer` for `Type`.

s3-website

To route traffic to an Amazon S3 bucket that is configured as a website endpoint, specify `s3-website` for `Type`.

Region

To route traffic to an Amazon S3 bucket that is configured as a website endpoint, specify the region in which you created the bucket for `Region`. For any other resource, omit `Region`.

Value

Specify the applicable value:

value

To route traffic to a resource other than a CloudFront distribution, an ELB load balancer, or an Amazon S3 bucket that is configured as a website endpoint, specify the value that corresponds with the value that you specified for `RecordType`. For example, if you specified `A` for `RecordType`, specify an IP address in IPv4 format for `Value`.

cloudfront

If you specified `cloudfront` for `Type`, specify the domain name that CloudFront assigned to your CloudFront distribution when you created it, for example, `d111111abcdef8.cloudfront.net`.

elastic-load-balancer

If you specified `elastic-load-balancer` for `Type`, specify the DNS name for your load balancer. Use the value that begins with `dualstack`, for example, `dualstack.my-load-balancer-1234567890.us-west-2.elb.amazonaws.com`.

s3-website

If you specified `s3-website` for `Type`, specify the name of your Amazon S3 bucket, for example, `example.com.s3-website-us-east-1.amazonaws.com`.

Important

When you create a traffic policy instance based on this traffic policy, the bucket that you specify here must match the domain name (such as `www.example.com`) that you specify for `Name` in the [CreateTrafficPolicyInstance](#) (p. 55) request. If `Value` and `Name` don't match, Amazon S3 won't respond to DNS queries for the domain name.

Syntax for Rule Definitions

There are different syntaxes for the rule definitions that you specify in a traffic policy document, depending on the type of routing policy that you want to use: failover, geolocation, geoproximity, latency, multivalue answer, or weighted.

Topics

- [Failover Rules](#) (p. 389)
- [Geolocation Rules](#) (p. 390)
- [Geoproximity Rules](#) (p. 391)
- [Latency Rules](#) (p. 393)
- [Multivalue Answer Rules](#) (p. 394)
- [Weighted Rules](#) (p. 394)

Failover Rules

For more information, see [Configuring DNS Failover](#) in the *Amazon Route 53 Developer Guide*.

```
{
  "RuleType": "failover",
  "Primary": {
    "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint
that this rule routes traffic to",
    "EvaluateTargetHealth": "true" | "false",
    "HealthCheck": "optional health check ID"
  },
}
```

```

    "Secondary": {
      "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint
that this rule routes traffic to",
      "EvaluateTargetHealth": "true" | "false",
      "HealthCheck": "optional health check ID"
    }
  }
}

```

When you define a failover rule, you specify the following objects:

RuleType

Specify failover.

Primary | Secondary

For the Primary object, specify settings for the rule or endpoint that you want to route traffic to whenever the corresponding resources are available.

For the Secondary object, specify settings for the rule or endpoint that you want to route traffic to whenever the primary resources are not available.

EndpointReference | RuleReference

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

EvaluateTargetHealth

A Boolean that indicates whether you want Amazon Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see [EvaluateTargetHealth](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

HealthCheck

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see [HealthCheckId](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

Geolocation Rules

When you add a geolocation rule, you configure your traffic policy to route your traffic based on the geographic location of your users. For more information, see [Geolocation Routing](#) in the *Amazon Route 53 Developer Guide*.

```

{
  "RuleType": "geo",
  "Locations": [
    {
      "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint
that this rule routes traffic to",
      "IsDefault": "true" | "false",
      "Continent": "continent name",
      "Country": "country name",
      "Subdivision": "subdivision name",
      "EvaluateTargetHealth": "true" | "false",
      "HealthCheck": "optional health check ID"
    },
    ...
  ]
}

```

When you define a geolocation rule, you specify the following objects:

RuleType

Specify geo.

Locations

Specify one set of values (`EndpointReference | RuleReference`, `IsDefault`, `Continent`, `Country`, `Subdivision`, `EvaluateTargetHealth`, and `HealthCheck`) for each of the geographic locations that you want to route traffic to.

EndpointReference | RuleReference

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

IsDefault

A Boolean that indicates whether this set of values represents the default location. For more information about `IsDefault`, see the explanation about specifying `*` as the value for the `CountryCode` element when you create or update a resource record set in the description for `GeoLocation`.

Continent, Country, Subdivision

Values that indicate the geographic location of users whose traffic you want to route to a rule or endpoint. For more information, see the following element descriptions in the documentation about [ChangeResourceRecordSets \(p. 15\)](#):

- `GeoLocation`
- `ContinentCode`
- `CountryCode`
- `SubdivisionCode`

EvaluateTargetHealth

A Boolean that indicates whether you want Amazon Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see [EvaluateTargetHealth](#) in the documentation about [ChangeResourceRecordSets \(p. 15\)](#).

HealthCheck

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see [HealthCheckId](#) in the documentation about [ChangeResourceRecordSets \(p. 15\)](#).

Geoproximity Rules

When you add a geoproximity rule, you configure Amazon Route 53 to route traffic to your resources based on the geographic location of your resources. You can also optionally choose to route more traffic or less to a given endpoint or rule by specifying a bias. You use a bias to expand or shrink the size of the geographic region from which traffic is routed to an endpoint or rule. For more information, see [Geoproximity Routing](#) in the *Amazon Route 53 Developer Guide*.

```
{
  "RuleType": "geoproximity",
  "GeoproximityLocations": [
    {
      "EndpointReference | RuleReference": "ID that you assigned to the endpoint or rule
that this rule routes traffic to",
```

```

    "Region": "AWS Region",
    "Bias": "optional value to expand or shrink the geographic region for this rule,
-99 to 99",
    "EvaluateTargetHealth": "true | false",
    "HealthCheck": "optional health check ID"
  },
  {
    "EndpointReference | RuleReference": "ID that you assigned to the endpoint or rule
that this rule routes traffic to",
    "Latitude": "location south (negative) or north (positive) of the equator, -90 to
90 degrees",
    "Longitude": "location west (negative) or east (positive) of the prime meridian,
-180 to 180 degrees",
    "Bias": "optional value to expand or shrink the geographic region for this rule,
-99 to 99",
    "EvaluateTargetHealth": "true | false",
    "HealthCheck": "optional health check ID"
  }
]
}

```

When you define a geoproximity rule, you specify the following objects:

RuleType

Specify geoproximity.

GeoproximityLocations

Specify one set of values for each resource that you want to route traffic to. You can specify either an AWS Region or the latitude and longitude of a geographic location.

EndpointReference | RuleReference

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

Region

If your endpoint is an AWS resource, specify the AWS Region that you created the resource in. Use the following format:

aws:route53:*region-code*

For a list of valid region codes, see [Region](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

Latitude and Longitude

If your endpoint is not an AWS resource, enter the latitude and longitude of the location of the resource. Note the following:

- Latitude represents the location south (negative) or north (positive) of the equator. Valid values are -90 degrees to 90 degrees.
- Longitude represents the location west (negative) or east (positive) of the prime meridian. Valid values are -180 degrees to 180 degrees.
- You can get latitude and longitude from some online mapping applications. For example, in Google Maps, the URL for a location specifies the latitude and longitude:

<https://www.google.com/maps/@47.6086111,-122.3409953,20z>

- You can enter up to two decimals of precision, for example, 47.61. If you specify a value with greater precision, Route 53 returns an error. For latitude and for longitude at the equator, 0.01 degree is approximately 0.69 miles.

Bias

Specify a value for `Bias` if you want to route more traffic to an endpoint from nearby endpoints (positive values) or route less traffic to an endpoint (negative values). The range of valid values is -99 to 99; the default value is 0.

Important

The value of `Bias` is relative, based on the location of other resources, rather than absolute, based on distance. As a result, the effect of a change is difficult to predict. For example, depending on where your resources are, changing the bias from 10 to 15 can mean the difference between adding or subtracting a significant amount of traffic from the New York City metropolitan area. We recommend that you change the bias in small increments and evaluate the results, and then make additional changes if appropriate.

EvaluateTargetHealth

A Boolean that indicates whether you want Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see [EvaluateTargetHealth](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

HealthCheck

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see [HealthCheckId](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

Latency Rules

When you add a latency rule, you configure your traffic policy to route your traffic based on the latency (the time delay) between your users and the AWS regions where you've created AWS resources such as ELB load balancers and Amazon S3 buckets. For more information, see [Latency Routing](#) in the *Amazon Route 53 Developer Guide*.

```
{
  "RuleType": "latency",
  "Regions": [
    {
      "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint
that this rule routes traffic to",
      "Region": "AWS region that you want to route traffic to",
      "EvaluateTargetHealth": "true" | "false",
      "HealthCheck": "optional health check ID"
    },
    ...
  ]
}
```

When you define a latency rule, you specify the following objects:

RuleType

Specify latency.

Regions

Specify one set of values (`EndpointReference | RuleReference`, `Region`, `EvaluateTargetHealth`, and `HealthCheck`) for each of the regions that you want to route traffic to.

EndpointReference | RuleReference

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

Region

The region code for the AWS Region that you created the resource in. For a list of valid region codes, see [Region](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

EvaluateTargetHealth

A Boolean that indicates whether you want Amazon Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see [EvaluateTargetHealth](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

HealthCheck

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see [HealthCheckId](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

Multivalue Answer Rules

When you add a multivalue answer rule, you configure your traffic policy to route traffic approximately randomly to your healthy resources. Amazon Route 53 responds to DNS queries with up to eight healthy records; if you have eight or fewer healthy records, Route 53 responds to all DNS queries with all the healthy records. For more information, see [MultiValueAnswer](#).

```
{
  "RuleType": "multivalue",
  "Items": [
    {
      "EndpointReference": "ID that you assigned to the endpoint that this rule routes
traffic to",
      "HealthCheck": "optional health check ID"
    },
    ...
  ]
}
```

When you define a multivalue answer rule, you specify the following objects:

RuleType

Specify `multivalue`.

Items

Specify one set of values (`EndpointReference` and `HealthCheck`) for each of the multivalue answer rules or endpoints that you want to route traffic to.

EndpointReference

The ID that you assigned to the endpoint elsewhere in the traffic policy document.

HealthCheck

If you want to associate a health check with the endpoint, specify the ID of the health check. For more information, see [HealthCheckId](#).

Weighted Rules

When you add a weighted rule, you configure your traffic policy to route traffic based on proportions that you specify. For example, you might specify weights of 4, 5, 5, and 6 (sum=20). The result is that

4/20ths of your traffic, on average, is routed to the first endpoint or rule, 5/20ths is routed both to the second and third endpoints or rules, and 6/20ths is routed to the last endpoint or rule. For more information, see [Weighted Routing](#) in the *Amazon Route 53 Developer Guide*.

```
{
  "RuleType": "weighted",
  "Items": [
    {
      "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint
that this rule routes traffic to",
      "Weight": "value between 0 and 255",
      "EvaluateTargetHealth": "true" | "false",
      "HealthCheck": "optional health check ID"
    },
    ...
  ]
}
```

When you define a weighted rule, you specify the following objects:

RuleType

Specify weighted.

Items

Specify one set of values (`EndpointReference | RuleReference`, `Weight`, `EvaluateTargetHealth`, and `HealthCheck`) for each of the weighted rules or endpoints that you want to route traffic to.

EndpointReference | RuleReference

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

Weight

A value between 0 and 255 that determines the proportion of traffic that is routed to the corresponding endpoint or rule. For more information, see [Weight](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

EvaluateTargetHealth

A Boolean that indicates whether you want Amazon Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see [EvaluateTargetHealth](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

HealthCheck

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see [HealthCheckId](#) in the documentation about [ChangeResourceRecordSets](#) (p. 15).

Examples

The following examples show how to use failover, geolocation, geoproximity, latency, and weighted rules, and how to use multiple types of rules in the same traffic policy.

Topics

- [Failover Example](#) (p. 396)

- [Geolocation Example \(p. 396\)](#)
- [Geoproximity Example \(p. 397\)](#)
- [Latency Example \(p. 398\)](#)
- [Weighted Example \(p. 398\)](#)
- [Example with Failover, Latency, and Geolocation Rules \(p. 399\)](#)

Failover Example

```
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "site_switch",
  "Endpoints": {
    "my_elb": {
      "Type": "elastic-load-balancer",
      "Value": "elb-111111.us-east-1.elb.amazonaws.com"
    },
    "site_down_banner": {
      "Type": "s3-website",
      "Region": "us-east-1",
      "Value": "www.example.com"
    }
  },
  "Rules": {
    "site_switch": {
      "RuleType": "failover",
      "Primary": {
        "EndpointReference": "my_elb"
      },
      "Secondary": {
        "EndpointReference": "site_down_banner"
      }
    }
  }
}
```

Geolocation Example

```
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "geo_dest",
  "Endpoints": {
    "english": {
      "Type": "value",
      "Value": "192.0.2.1"
    },
    "french": {
      "Type": "value",
      "Value": "192.0.2.2"
    },
    "german": {
      "Type": "value",
      "Value": "192.0.2.3"
    }
  },
  "Rules": {
    "geo_dest": {
      "RuleType": "geo",

```

```
"Locations":[
  {
    "EndpointReference":"english",
    "IsDefault":true,
    "HealthCheck":"11111111-1111-1111-1111-111111111111"
  },
  {
    "EndpointReference":"french",
    "Country":"FR",
    "HealthCheck":"22222222-2222-2222-2222-222222222222"
  },
  {
    "EndpointReference":"french",
    "Country":"BE",
    "HealthCheck":"22222222-2222-2222-2222-222222222222"
  },
  {
    "EndpointReference":"german",
    "Country":"DE",
    "HealthCheck":"33333333-3333-3333-3333-333333333333"
  }
]
}
```

Geoproximity Example

```
{
  "AWSPolicyFormatVersion":"2015-10-01",
  "RecordType":"A",
  "StartRule":"geoprox-rule",
  "Endpoints":{
    "aws-us-west-1-region":{
      "Type":"elastic-load-balancer",
      "Value":"elb-123456.us-east-1.elb.amazonaws.com"
    },
    "london-data-center":{
      "Type":"value",
      "Value":"192.0.2.1"
    }
  },
  "Rules":{
    "geoprox-rule":{
      "RuleType": "geoproximity",
      "GeoproximityLocations": [
        {
          "EndpointReference": "aws-us-west-1-region",
          "Region": "us-west-1",
          "Bias": "10",
          "HealthCheck": "11111111-1111-1111-1111-111111111111"
        },
        {
          "EndpointReference": "london-data-center",
          "Latitude": "51.50",
          "Longitude": "-0.16",
          "Bias": "0",
          "HealthCheck": "22222222-2222-2222-2222-222222222222"
        }
      ]
    }
  }
}
```

Latency Example

```
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "region_selector",
  "Endpoints": {
    "us_lb": {
      "Type": "elastic-load-balancer",
      "Value": "elb-123456.us-east-1.elb.amazonaws.com"
    },
    "europe_lb": {
      "Type": "elastic-load-balancer",
      "Value": "elb-654321.eu-west-1.elb.amazonaws.com"
    }
  },
  "Rules": {
    "region_selector": {
      "RuleType": "latency",
      "Regions": [
        {
          "Region": "us-east-1",
          "EndpointReference": "us_lb"
        },
        {
          "Region": "eu-west-1",
          "EndpointReference": "europe_lb"
        }
      ]
    }
  }
}
```

Weighted Example

```
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "round_robin",
  "Endpoints": {
    "srv1": {
      "Type": "value",
      "Value": "192.0.2.1"
    },
    "srv2": {
      "Type": "value",
      "Value": "192.0.2.2"
    },
    "srv3": {
      "Type": "value",
      "Value": "192.0.2.3"
    }
  },
  "Rules": {
    "round_robin": {
      "RuleType": "weighted",
      "Items": [
        {
          "EndpointReference": "srv1",
          "Weight": "3",
          "HealthCheck": "11111111-1111-1111-1111-111111111111"
        }
      ]
    }
  }
}
```

```
{
  "EndpointReference": "srv2",
  "Weight": "1",
  "HealthCheck": "22222222-2222-2222-2222-222222222222"
},
{
  "EndpointReference": "srv3",
  "Weight": "1",
  "HealthCheck": "33333333-3333-3333-3333-333333333333"
}
]
}
}
```

Example with Failover, Latency, and Geolocation Rules

```
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "geo_restriction",
  "Endpoints": {
    "east_coast_lb1": {
      "Type": "elastic-load-balancer",
      "Value": "elb-111111.us-east-1.elb.amazonaws.com"
    },
    "east_coast_lb2": {
      "Type": "elastic-load-balancer",
      "Value": "elb-222222.us-east-1.elb.amazonaws.com"
    },
    "west_coast_lb1": {
      "Type": "elastic-load-balancer",
      "Value": "elb-111111.us-west-1.elb.amazonaws.com"
    },
    "west_coast_lb2": {
      "Type": "elastic-load-balancer",
      "Value": "elb-222222.us-west-1.elb.amazonaws.com"
    },
    "denied_message": {
      "Type": "s3-website",
      "Region": "us-east-1",
      "Value": "video.example.com"
    }
  },
  "Rules": {
    "geo_restriction": {
      "RuleType": "geo",
      "Locations": [
        {
          "EndpointReference": "denied_message",
          "IsDefault": true
        },
        {
          "RuleReference": "region_selector",
          "Country": "US"
        }
      ]
    },
    "region_selector": {
      "RuleType": "latency",
      "Regions": [

```

```
{
  {
    "Region": "us-east-1",
    "RuleReference": "east_coast_region"
  },
  {
    "Region": "us-west-1",
    "RuleReference": "west_coast_region"
  }
],
"east_coast_region": {
  "RuleType": "failover",
  "Primary": {
    "EndpointReference": "east_coast_lb1"
  },
  "Secondary": {
    "EndpointReference": "east_coast_lb2"
  }
},
"west_coast_region": {
  "RuleType": "failover",
  "Primary": {
    "EndpointReference": "west_coast_lb1"
  },
  "Secondary": {
    "EndpointReference": "west_coast_lb2"
  }
}
}
```

Data Types

The following data types are supported by Amazon Route 53:

- [AccountLimit](#) (p. 404)
- [AlarmIdentifier](#) (p. 405)
- [AliasTarget](#) (p. 406)
- [Change](#) (p. 411)
- [ChangeBatch](#) (p. 412)
- [ChangeInfo](#) (p. 413)
- [CloudWatchAlarmConfiguration](#) (p. 415)
- [DelegationSet](#) (p. 417)
- [Dimension](#) (p. 418)
- [GeoLocation](#) (p. 419)
- [GeoLocationDetails](#) (p. 421)
- [HealthCheck](#) (p. 423)
- [HealthCheckConfig](#) (p. 425)
- [HealthCheckObservation](#) (p. 432)
- [HostedZone](#) (p. 434)
- [HostedZoneConfig](#) (p. 436)
- [HostedZoneLimit](#) (p. 437)
- [LinkedService](#) (p. 438)
- [QueryLoggingConfig](#) (p. 439)
- [ResourceRecord](#) (p. 440)
- [ResourceRecordSet](#) (p. 441)
- [ResourceTagSet](#) (p. 449)
- [ReusableDelegationSetLimit](#) (p. 450)
- [StatusReport](#) (p. 451)
- [Tag](#) (p. 452)
- [TrafficPolicy](#) (p. 453)
- [TrafficPolicyInstance](#) (p. 455)
- [TrafficPolicySummary](#) (p. 458)
- [VPC](#) (p. 460)

The following data types are supported by Amazon Route 53 Domains:

- [BillingRecord](#) (p. 462)
- [ContactDetail](#) (p. 464)
- [DomainSuggestion](#) (p. 467)
- [DomainSummary](#) (p. 469)
- [DomainTransferability](#) (p. 470)
- [ExtraParam](#) (p. 471)
- [Nameserver](#) (p. 476)
- [OperationSummary](#) (p. 477)

- [Tag](#) (p. 478)

The following data types are supported by Amazon Route 53 Resolver:

- [Filter](#) (p. 480)
- [IpAddressRequest](#) (p. 482)
- [IpAddressResponse](#) (p. 483)
- [IpAddressUpdate](#) (p. 485)
- [ResolverEndpoint](#) (p. 486)
- [ResolverRule](#) (p. 489)
- [ResolverRuleAssociation](#) (p. 492)
- [ResolverRuleConfig](#) (p. 494)
- [Tag](#) (p. 495)
- [TargetAddress](#) (p. 496)

Amazon Route 53

The following data types are supported by Amazon Route 53:

- [AccountLimit](#) (p. 404)
- [AlarmIdentifier](#) (p. 405)
- [AliasTarget](#) (p. 406)
- [Change](#) (p. 411)
- [ChangeBatch](#) (p. 412)
- [ChangeInfo](#) (p. 413)
- [CloudWatchAlarmConfiguration](#) (p. 415)
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- [GeoLocation](#) (p. 419)
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- [ResourceRecord](#) (p. 440)
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- [ResourceTagSet](#) (p. 449)
- [ReusableDelegationSetLimit](#) (p. 450)
- [StatusReport](#) (p. 451)
- [Tag](#) (p. 452)
- [TrafficPolicy](#) (p. 453)
- [TrafficPolicyInstance](#) (p. 455)

- [TrafficPolicySummary](#) (p. 458)
- [VPC](#) (p. 460)

AccountLimit

Service: Amazon Route 53

A complex type that contains the type of limit that you specified in the request and the current value for that limit.

Contents

Type

The limit that you requested. Valid values include the following:

- **MAX_HEALTH_CHECKS_BY_OWNER**: The maximum number of health checks that you can create using the current account.
- **MAX_HOSTED_ZONES_BY_OWNER**: The maximum number of hosted zones that you can create using the current account.
- **MAX_REUSABLE_DELEGATION_SETS_BY_OWNER**: The maximum number of reusable delegation sets that you can create using the current account.
- **MAX_TRAFFIC_POLICIES_BY_OWNER**: The maximum number of traffic policies that you can create using the current account.
- **MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER**: The maximum number of traffic policy instances that you can create using the current account. (Traffic policy instances are referred to as traffic flow policy records in the Amazon Route 53 console.)

Type: String

Valid Values: `MAX_HEALTH_CHECKS_BY_OWNER` | `MAX_HOSTED_ZONES_BY_OWNER`
| `MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER` |
`MAX_REUSABLE_DELEGATION_SETS_BY_OWNER` | `MAX_TRAFFIC_POLICIES_BY_OWNER`

Required: Yes

Value

The current value for the limit that is specified by [Type](#).

Type: Long

Valid Range: Minimum value of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

AlarmIdentifier

Service: Amazon Route 53

A complex type that identifies the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether the specified health check is healthy.

Contents

Name

The name of the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether this health check is healthy.

Note

Route 53 supports CloudWatch alarms with the following features:

- Standard-resolution metrics. High-resolution metrics aren't supported. For more information, see [High-Resolution Metrics](#) in the *Amazon CloudWatch User Guide*.
- Statistics: Average, Minimum, Maximum, Sum, and SampleCount. Extended statistics aren't supported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Region

For the CloudWatch alarm that you want Route 53 health checkers to use to determine whether this health check is healthy, the region that the alarm was created in.

For the current list of CloudWatch regions, see [Amazon CloudWatch](#) in the *AWS Service Endpoints* chapter of the *Amazon Web Services General Reference*.

Type: String

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

Valid Values: us-east-1 | us-east-2 | us-west-1 | us-west-2 | ca-central-1 | eu-central-1 | eu-west-1 | eu-west-2 | eu-west-3 | ap-east-1 | me-south-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-northeast-3 | eu-north-1 | sa-east-1 | cn-northwest-1 | cn-north-1

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

AliasTarget

Service: Amazon Route 53

Alias resource record sets only: Information about the AWS resource, such as a CloudFront distribution or an Amazon S3 bucket, that you want to route traffic to.

When creating resource record sets for a private hosted zone, note the following:

- Creating geolocation alias resource record sets or latency alias resource record sets in a private hosted zone is unsupported.
- For information about creating failover resource record sets in a private hosted zone, see [Configuring Failover in a Private Hosted Zone](#).

Contents

DNSName

Alias resource record sets only: The value that you specify depends on where you want to route queries:

Amazon API Gateway custom regional APIs and edge-optimized APIs

Specify the applicable domain name for your API. You can get the applicable value using the AWS CLI command [get-domain-names](#):

- For regional APIs, specify the value of `regionalDomainName`.
- For edge-optimized APIs, specify the value of `distributionDomainName`. This is the name of the associated CloudFront distribution, such as `da1b2c3d4e5.cloudfront.net`.

Note

The name of the record that you're creating must match a custom domain name for your API, such as `api.example.com`.

Amazon Virtual Private Cloud interface VPC endpoint

Enter the API endpoint for the interface endpoint, such as `vpce-123456789abcdef01-example-us-east-1a.elasticloadbalancing.us-east-1.vpce.amazonaws.com`. For edge-optimized APIs, this is the domain name for the corresponding CloudFront distribution. You can get the value of `DnsName` using the AWS CLI command [describe-vpc-endpoints](#).

CloudFront distribution

Specify the domain name that CloudFront assigned when you created your distribution.

Your CloudFront distribution must include an alternate domain name that matches the name of the resource record set. For example, if the name of the resource record set is `acme.example.com`, your CloudFront distribution must include `acme.example.com` as one of the alternate domain names. For more information, see [Using Alternate Domain Names \(CNAMEs\)](#) in the *Amazon CloudFront Developer Guide*.

You can't create a resource record set in a private hosted zone to route traffic to a CloudFront distribution.

Note

For failover alias records, you can't specify a CloudFront distribution for both the primary and secondary records. A distribution must include an alternate domain name that matches the name of the record. However, the primary and secondary records have the same name, and you can't include the same alternate domain name in more than one distribution.

Elastic Beanstalk environment

If the domain name for your Elastic Beanstalk environment includes the region that you deployed the environment in, you can create an alias record that routes traffic to the environment. For example, the domain name `my-environment.us-west-2.elasticbeanstalk.com` is a regionalized domain name.

Important

For environments that were created before early 2016, the domain name doesn't include the region. To route traffic to these environments, you must create a CNAME record instead of an alias record. Note that you can't create a CNAME record for the root domain name. For example, if your domain name is `example.com`, you can create a record that routes traffic for `acme.example.com` to your Elastic Beanstalk environment, but you can't create a record that routes traffic for `example.com` to your Elastic Beanstalk environment.

For Elastic Beanstalk environments that have regionalized subdomains, specify the `CNAME` attribute for the environment. You can use the following methods to get the value of the CNAME attribute:

- **AWS Management Console:** For information about how to get the value by using the console, see [Using Custom Domains with AWS Elastic Beanstalk](#) in the *AWS Elastic Beanstalk Developer Guide*.
- **Elastic Beanstalk API:** Use the `DescribeEnvironments` action to get the value of the `CNAME` attribute. For more information, see [DescribeEnvironments](#) in the *AWS Elastic Beanstalk API Reference*.
- **AWS CLI:** Use the `describe-environments` command to get the value of the `CNAME` attribute. For more information, see [describe-environments](#) in the *AWS CLI Command Reference*.

ELB load balancer

Specify the DNS name that is associated with the load balancer. Get the DNS name by using the AWS Management Console, the ELB API, or the AWS CLI.

- **AWS Management Console:** Go to the EC2 page, choose **Load Balancers** in the navigation pane, choose the load balancer, choose the **Description** tab, and get the value of the **DNS name** field.

If you're routing traffic to a Classic Load Balancer, get the value that begins with **dualstack**. If you're routing traffic to another type of load balancer, get the value that applies to the record type, A or AAAA.

- **Elastic Load Balancing API:** Use `DescribeLoadBalancers` to get the value of `DNSName`. For more information, see the applicable guide:
 - Classic Load Balancers: [DescribeLoadBalancers](#)
 - Application and Network Load Balancers: [DescribeLoadBalancers](#)
- **AWS CLI:** Use `describe-load-balancers` to get the value of `DNSName`. For more information, see the applicable guide:
 - Classic Load Balancers: [describe-load-balancers](#)
 - Application and Network Load Balancers: [describe-load-balancers](#)

AWS Global Accelerator accelerator

Specify the DNS name for your accelerator:

- **Global Accelerator API:** To get the DNS name, use [DescribeAccelerator](#).
- **AWS CLI:** To get the DNS name, use [describe-accelerator](#).

Amazon S3 bucket that is configured as a static website

Specify the domain name of the Amazon S3 website endpoint that you created the bucket in, for example, `s3-website.us-east-2.amazonaws.com`. For more information about

valid values, see the table [Amazon S3 Website Endpoints](#) in the *Amazon Web Services General Reference*. For more information about using S3 buckets for websites, see [Getting Started with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*.

Another Route 53 resource record set

Specify the value of the `Name` element for a resource record set in the current hosted zone.

Note

If you're creating an alias record that has the same name as the hosted zone (known as the zone apex), you can't specify the domain name for a record for which the value of `Type` is `CNAME`. This is because the alias record must have the same type as the record that you're routing traffic to, and creating a `CNAME` record for the zone apex isn't supported even for an alias record.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

EvaluateTargetHealth

Applies only to alias, failover alias, geolocation alias, latency alias, and weighted alias resource record sets: When `EvaluateTargetHealth` is `true`, an alias resource record set inherits the health of the referenced AWS resource, such as an ELB load balancer or another resource record set in the hosted zone.

Note the following:

CloudFront distributions

You can't set `EvaluateTargetHealth` to `true` when the alias target is a CloudFront distribution.

Elastic Beanstalk environments that have regionalized subdomains

If you specify an Elastic Beanstalk environment in `DNSName` and the environment contains an ELB load balancer, Elastic Load Balancing routes queries only to the healthy Amazon EC2 instances that are registered with the load balancer. (An environment automatically contains an ELB load balancer if it includes more than one Amazon EC2 instance.) If you set `EvaluateTargetHealth` to `true` and either no Amazon EC2 instances are healthy or the load balancer itself is unhealthy, Route 53 routes queries to other available resources that are healthy, if any.

If the environment contains a single Amazon EC2 instance, there are no special requirements.

ELB load balancers

Health checking behavior depends on the type of load balancer:

- **Classic Load Balancers:** If you specify an ELB Classic Load Balancer in `DNSName`, Elastic Load Balancing routes queries only to the healthy Amazon EC2 instances that are registered with the load balancer. If you set `EvaluateTargetHealth` to `true` and either no EC2 instances are healthy or the load balancer itself is unhealthy, Route 53 routes queries to other resources.
- **Application and Network Load Balancers:** If you specify an ELB Application or Network Load Balancer and you set `EvaluateTargetHealth` to `true`, Route 53 routes queries to the load balancer based on the health of the target groups that are associated with the load balancer:
 - For an Application or Network Load Balancer to be considered healthy, every target group that contains targets must contain at least one healthy target. If any target group contains only unhealthy targets, the load balancer is considered unhealthy, and Route 53 routes queries to other resources.
 - A target group that has no registered targets is considered unhealthy.

Note

When you create a load balancer, you configure settings for Elastic Load Balancing health checks; they're not Route 53 health checks, but they perform a similar function. Do not create Route 53 health checks for the EC2 instances that you register with an ELB load balancer.

S3 buckets

There are no special requirements for setting `EvaluateTargetHealth` to `true` when the alias target is an S3 bucket.

Other records in the same hosted zone

If the AWS resource that you specify in `DNSName` is a record or a group of records (for example, a group of weighted records) but is not another alias record, we recommend that you associate a health check with all of the records in the alias target. For more information, see [What Happens When You Omit Health Checks?](#) in the *Amazon Route 53 Developer Guide*.

For more information and examples, see [Amazon Route 53 Health Checks and DNS Failover](#) in the *Amazon Route 53 Developer Guide*.

Type: Boolean

Required: Yes

HostedZoneId

Alias resource records sets only: The value used depends on where you want to route traffic:

Amazon API Gateway custom regional APIs and edge-optimized APIs

Specify the hosted zone ID for your API. You can get the applicable value using the AWS CLI command [get-domain-names](#):

- For regional APIs, specify the value of `regionalHostedZoneId`.
- For edge-optimized APIs, specify the value of `distributionHostedZoneId`.

Amazon Virtual Private Cloud interface VPC endpoint

Specify the hosted zone ID for your interface endpoint. You can get the value of `HostedZoneId` using the AWS CLI command [describe-vpc-endpoints](#).

CloudFront distribution

Specify `Z2FDTNDATAQYW2`.

Note

Alias resource record sets for CloudFront can't be created in a private zone.

Elastic Beanstalk environment

Specify the hosted zone ID for the region that you created the environment in. The environment must have a regionalized subdomain. For a list of regions and the corresponding hosted zone IDs, see [AWS Elastic Beanstalk](#) in the "AWS Service Endpoints" chapter of the *Amazon Web Services General Reference*.

ELB load balancer

Specify the value of the hosted zone ID for the load balancer. Use the following methods to get the hosted zone ID:

- [Service Endpoints](#) table in the "Elastic Load Balancing Endpoints and Quotas" topic in the *Amazon Web Services General Reference*: Use the value that corresponds with the region that you created your load balancer in. Note that there are separate columns for Application and Classic Load Balancers and for Network Load Balancers.

- **AWS Management Console:** Go to the Amazon EC2 page, choose **Load Balancers** in the navigation pane, select the load balancer, and get the value of the **Hosted zone** field on the **Description** tab.
- **Elastic Load Balancing API:** Use `DescribeLoadBalancers` to get the applicable value. For more information, see the applicable guide:
 - Classic Load Balancers: Use [DescribeLoadBalancers](#) to get the value of `CanonicalHostedZoneNameId`.
 - Application and Network Load Balancers: Use [DescribeLoadBalancers](#) to get the value of `CanonicalHostedZoneId`.
- **AWS CLI:** Use `describe-load-balancers` to get the applicable value. For more information, see the applicable guide:
 - Classic Load Balancers: Use [describe-load-balancers](#) to get the value of `CanonicalHostedZoneNameId`.
 - Application and Network Load Balancers: Use [describe-load-balancers](#) to get the value of `CanonicalHostedZoneId`.

AWS Global Accelerator accelerator

Specify `Z2BJ6XQ5FK7U4H`.

An Amazon S3 bucket configured as a static website

Specify the hosted zone ID for the region that you created the bucket in. For more information about valid values, see the table [Amazon S3 Website Endpoints](#) in the *Amazon Web Services General Reference*.

Another Route 53 resource record set in your hosted zone

Specify the hosted zone ID of your hosted zone. (An alias resource record set can't reference a resource record set in a different hosted zone.)

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Change

Service: Amazon Route 53

The information for each resource record set that you want to change.

Contents

Action

The action to perform:

- **CREATE**: Creates a resource record set that has the specified values.
- **DELETE**: Deletes a existing resource record set.

Important

To delete the resource record set that is associated with a traffic policy instance, use [DeleteTrafficPolicyInstance](#). Amazon Route 53 will delete the resource record set automatically. If you delete the resource record set by using `ChangeResourceRecordSets`, Route 53 doesn't automatically delete the traffic policy instance, and you'll continue to be charged for it even though it's no longer in use.

- **UPSERT**: If a resource record set doesn't already exist, Route 53 creates it. If a resource record set does exist, Route 53 updates it with the values in the request.

Type: String

Valid Values: `CREATE` | `DELETE` | `UPSERT`

Required: Yes

ResourceRecordSet

Information about the resource record set to create, delete, or update.

Type: [ResourceRecordSet](#) (p. 441) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ChangeBatch

Service: Amazon Route 53

The information for a change request.

Contents

Changes

Information about the changes to make to the record sets.

Type: Array of [Change \(p. 411\)](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

Comment

Optional: Any comments you want to include about a change batch request.

Type: String

Length Constraints: Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ChangeInfo

Service: Amazon Route 53

A complex type that describes change information about changes made to your hosted zone.

Contents

Comment

A complex type that describes change information about changes made to your hosted zone.

This element contains an ID that you use when performing a [GetChange](#) action to get detailed information about the change.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Id

The ID of the request.

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

Status

The current state of the request. `PENDING` indicates that this request has not yet been applied to all Amazon Route 53 DNS servers.

Type: String

Valid Values: `PENDING` | `INSYNC`

Required: Yes

SubmittedAt

The date and time that the change request was submitted in [ISO 8601 format](#) and Coordinated Universal Time (UTC). For example, the value `2017-03-27T17:48:16.751Z` represents March 27, 2017 at 17:48:16.751 UTC.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

CloudWatchAlarmConfiguration

Service: Amazon Route 53

A complex type that contains information about the CloudWatch alarm that Amazon Route 53 is monitoring for this health check.

Contents

ComparisonOperator

For the metric that the CloudWatch alarm is associated with, the arithmetic operation that is used for the comparison.

Type: String

Valid Values: `GreaterThanOrEqualToThreshold` | `GreaterThanThreshold` | `LessThanThreshold` | `LessThanOrEqualToThreshold`

Required: Yes

Dimensions

For the metric that the CloudWatch alarm is associated with, a complex type that contains information about the dimensions for the metric. For information, see [Amazon CloudWatch Namespaces, Dimensions, and Metrics Reference](#) in the *Amazon CloudWatch User Guide*.

Type: Array of [Dimension \(p. 418\)](#) objects

Array Members: Maximum number of 10 items.

Required: No

EvaluationPeriods

For the metric that the CloudWatch alarm is associated with, the number of periods that the metric is compared to the threshold.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

MetricName

The name of the CloudWatch metric that the alarm is associated with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Namespace

The namespace of the metric that the alarm is associated with. For more information, see [Amazon CloudWatch Namespaces, Dimensions, and Metrics Reference](#) in the *Amazon CloudWatch User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Period

For the metric that the CloudWatch alarm is associated with, the duration of one evaluation period in seconds.

Type: Integer

Valid Range: Minimum value of 60.

Required: Yes

Statistic

For the metric that the CloudWatch alarm is associated with, the statistic that is applied to the metric.

Type: String

Valid Values: `Average` | `Sum` | `SampleCount` | `Maximum` | `Minimum`

Required: Yes

Threshold

For the metric that the CloudWatch alarm is associated with, the value the metric is compared with.

Type: Double

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

DelegationSet

Service: Amazon Route 53

A complex type that lists the name servers in a delegation set, as well as the `CallerReference` and the `ID` for the delegation set.

Contents

CallerReference

The value that you specified for `CallerReference` when you created the reusable delegation set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Id

The ID that Amazon Route 53 assigns to a reusable delegation set.

Type: String

Length Constraints: Maximum length of 32.

Required: No

NameServers

A complex type that contains a list of the authoritative name servers for a hosted zone or for a reusable delegation set.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 1024.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Dimension

Service: Amazon Route 53

For the metric that the CloudWatch alarm is associated with, a complex type that contains information about one dimension.

Contents

Name

For the metric that the CloudWatch alarm is associated with, the name of one dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Value

For the metric that the CloudWatch alarm is associated with, the value of one dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

GeoLocation

Service: Amazon Route 53

A complex type that contains information about a geographic location.

Contents

ContinentCode

The two-letter code for the continent.

Amazon Route 53 supports the following continent codes:

- **AF**: Africa
- **AN**: Antarctica
- **AS**: Asia
- **EU**: Europe
- **OC**: Oceania
- **NA**: North America
- **SA**: South America

Constraint: Specifying `ContinentCode` with either `CountryCode` or `SubdivisionCode` returns an `InvalidInput` error.

Type: String

Length Constraints: Fixed length of 2.

Required: No

CountryCode

For geolocation resource record sets, the two-letter code for a country.

Amazon Route 53 uses the two-letter country codes that are specified in [ISO standard 3166-1 alpha-2](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2.

Required: No

SubdivisionCode

For geolocation resource record sets, the two-letter code for a state of the United States. Route 53 doesn't support any other values for `SubdivisionCode`. For a list of state abbreviations, see [Appendix B: Two-Letter State and Possession Abbreviations](#) on the United States Postal Service website.

If you specify `subdivisioncode`, you must also specify `US` for `CountryCode`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

GeoLocationDetails

Service: Amazon Route 53

A complex type that contains the codes and full continent, country, and subdivision names for the specified `geolocation` code.

Contents

ContinentCode

The two-letter code for the continent.

Type: String

Length Constraints: Fixed length of 2.

Required: No

ContinentName

The full name of the continent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

CountryCode

The two-letter code for the country.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2.

Required: No

CountryName

The name of the country.

Type: String

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

Required: No

SubdivisionCode

The code for the subdivision. Route 53 currently supports only states in the United States.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3.

Required: No

SubdivisionName

The full name of the subdivision. Route 53 currently supports only states in the United States.

Type: String

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

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

HealthCheck

Service: Amazon Route 53

A complex type that contains information about one health check that is associated with the current AWS account.

Contents

CallerReference

A unique string that you specified when you created the health check.

Type: String

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

Required: Yes

CloudWatchAlarmConfiguration

A complex type that contains information about the CloudWatch alarm that Amazon Route 53 is monitoring for this health check.

Type: [CloudWatchAlarmConfiguration \(p. 415\)](#) object

Required: No

HealthCheckConfig

A complex type that contains detailed information about one health check.

Type: [HealthCheckConfig \(p. 425\)](#) object

Required: Yes

HealthCheckVersion

The version of the health check. You can optionally pass this value in a call to `UpdateHealthCheck` to prevent overwriting another change to the health check.

Type: Long

Valid Range: Minimum value of 1.

Required: Yes

Id

The identifier that Amazon Route 53 assigned to the health check when you created it. When you add or update a resource record set, you use this value to specify which health check to use. The value can be up to 64 characters long.

Type: String

Length Constraints: Maximum length of 64.

Required: Yes

LinkedService

If the health check was created by another service, the service that created the health check. When a health check is created by another service, you can't edit or delete it using Amazon Route 53.

Type: [LinkedService \(p. 438\)](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

HealthCheckConfig

Service: Amazon Route 53

A complex type that contains information about the health check.

Contents

AlarmIdentifier

A complex type that identifies the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether the specified health check is healthy.

Type: [AlarmIdentifier \(p. 405\)](#) object

Required: No

ChildHealthChecks

(CALCULATED Health Checks Only) A complex type that contains one `ChildHealthCheck` element for each health check that you want to associate with a `CALCULATED` health check.

Type: Array of strings

Array Members: Maximum number of 256 items.

Length Constraints: Maximum length of 64.

Required: No

Disabled

Stops Route 53 from performing health checks. When you disable a health check, here's what happens:

- **Health checks that check the health of endpoints:** Route 53 stops submitting requests to your application, server, or other resource.
- **Calculated health checks:** Route 53 stops aggregating the status of the referenced health checks.
- **Health checks that monitor CloudWatch alarms:** Route 53 stops monitoring the corresponding CloudWatch metrics.

After you disable a health check, Route 53 considers the status of the health check to always be healthy. If you configured DNS failover, Route 53 continues to route traffic to the corresponding resources. If you want to stop routing traffic to a resource, change the value of [Inverted](#).

Charges for a health check still apply when the health check is disabled. For more information, see [Amazon Route 53 Pricing](#).

Type: Boolean

Required: No

EnableSNI

Specify whether you want Amazon Route 53 to send the value of `FullyQualifiedDomainName` to the endpoint in the `client_hello` message during TLS negotiation. This allows the endpoint to respond to `HTTPS` health check requests with the applicable SSL/TLS certificate.

Some endpoints require that `HTTPS` requests include the host name in the `client_hello` message. If you don't enable SNI, the status of the health check will be `SSL alert handshake_failure`. A health check can also have that status for other reasons. If SNI is enabled and you're still getting the error, check the SSL/TLS configuration on your endpoint and confirm that your certificate is valid.

The SSL/TLS certificate on your endpoint includes a domain name in the `Common Name` field and possibly several more in the `Subject Alternative Names` field. One of the domain names in the certificate should match the value that you specify for `FullyQualifiedDomainName`. If the endpoint responds to the `client_hello` message with a certificate that does not include the domain name that you specified in `FullyQualifiedDomainName`, a health checker will retry the handshake. In the second attempt, the health checker will omit `FullyQualifiedDomainName` from the `client_hello` message.

Type: Boolean

Required: No

FailureThreshold

The number of consecutive health checks that an endpoint must pass or fail for Amazon Route 53 to change the current status of the endpoint from unhealthy to healthy or vice versa. For more information, see [How Amazon Route 53 Determines Whether an Endpoint Is Healthy](#) in the *Amazon Route 53 Developer Guide*.

If you don't specify a value for `FailureThreshold`, the default value is three health checks.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

FullyQualifiedDomainName

Amazon Route 53 behavior depends on whether you specify a value for `IPAddress`.

If you specify a value for `IPAddress`:

Amazon Route 53 sends health check requests to the specified IPv4 or IPv6 address and passes the value of `FullyQualifiedDomainName` in the `Host` header for all health checks except TCP health checks. This is typically the fully qualified DNS name of the endpoint on which you want Route 53 to perform health checks.

When Route 53 checks the health of an endpoint, here is how it constructs the `Host` header:

- If you specify a value of 80 for `Port` and `HTTP` or `HTTP_STR_MATCH` for `Type`, Route 53 passes the value of `FullyQualifiedDomainName` to the endpoint in the `Host` header.
- If you specify a value of 443 for `Port` and `HTTPS` or `HTTPS_STR_MATCH` for `Type`, Route 53 passes the value of `FullyQualifiedDomainName` to the endpoint in the `Host` header.
- If you specify another value for `Port` and any value except `TCP` for `Type`, Route 53 passes `FullyQualifiedDomainName:Port` to the endpoint in the `Host` header.

If you don't specify a value for `FullyQualifiedDomainName`, Route 53 substitutes the value of `IPAddress` in the `Host` header in each of the preceding cases.

If you don't specify a value for `IPAddress` :

Route 53 sends a DNS request to the domain that you specify for `FullyQualifiedDomainName` at the interval that you specify for `RequestInterval`. Using an IPv4 address that DNS returns, Route 53 then checks the health of the endpoint.

Note

If you don't specify a value for `IPAddress`, Route 53 uses only IPv4 to send health checks to the endpoint. If there's no resource record set with a type of `A` for the name that you specify for `FullyQualifiedDomainName`, the health check fails with a "DNS resolution failed" error.

If you want to check the health of weighted, latency, or failover resource record sets and you choose to specify the endpoint only by `FullyQualifiedDomainName`, we recommend that you create a separate health check for each endpoint. For example, create a health check for each HTTP server that is serving content for `www.example.com`. For the value of `FullyQualifiedDomainName`, specify the domain name of the server (such as `us-east-2-www.example.com`), not the name of the resource record sets (`www.example.com`).

Important

In this configuration, if you create a health check for which the value of `FullyQualifiedDomainName` matches the name of the resource record sets and you then associate the health check with those resource record sets, health check results will be unpredictable.

In addition, if the value that you specify for `Type` is `HTTP`, `HTTPS`, `HTTP_STR_MATCH`, or `HTTPS_STR_MATCH`, Route 53 passes the value of `FullyQualifiedDomainName` in the `Host` header, as it does when you specify a value for `IPAddress`. If the value of `Type` is `TCP`, Route 53 doesn't pass a `Host` header.

Type: String

Length Constraints: Maximum length of 255.

Required: No

HealthThreshold

The number of child health checks that are associated with a `CALCULATED` health check that Amazon Route 53 must consider healthy for the `CALCULATED` health check to be considered healthy. To specify the child health checks that you want to associate with a `CALCULATED` health check, use the [ChildHealthChecks](#) element.

Note the following:

- If you specify a number greater than the number of child health checks, Route 53 always considers this health check to be unhealthy.
- If you specify 0, Route 53 always considers this health check to be healthy.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 256.

Required: No

InsufficientDataHealthStatus

When CloudWatch has insufficient data about the metric to determine the alarm state, the status that you want Amazon Route 53 to assign to the health check:

- `Healthy`: Route 53 considers the health check to be healthy.
- `Unhealthy`: Route 53 considers the health check to be unhealthy.
- `LastKnownStatus`: Route 53 uses the status of the health check from the last time that CloudWatch had sufficient data to determine the alarm state. For new health checks that have no last known status, the default status for the health check is healthy.

Type: String

Valid Values: `Healthy` | `Unhealthy` | `LastKnownStatus`

Required: No

Inverted

Specify whether you want Amazon Route 53 to invert the status of a health check, for example, to consider a health check unhealthy when it otherwise would be considered healthy.

Type: Boolean

Required: No

IPAddress

The IPv4 or IPv6 IP address of the endpoint that you want Amazon Route 53 to perform health checks on. If you don't specify a value for `IPAddress`, Route 53 sends a DNS request to resolve the domain name that you specify in `FullyQualifiedDomainName` at the interval that you specify in `RequestInterval`. Using an IP address returned by DNS, Route 53 then checks the health of the endpoint.

Use one of the following formats for the value of `IPAddress`:

- **IPv4 address:** four values between 0 and 255, separated by periods (.), for example, 192.0.2.44.
- **IPv6 address:** eight groups of four hexadecimal values, separated by colons (:), for example, 2001:0db8:85a3:0000:0000:abcd:0001:2345. You can also shorten IPv6 addresses as described in RFC 5952, for example, 2001:db8:85a3::abcd:1:2345.

If the endpoint is an EC2 instance, we recommend that you create an Elastic IP address, associate it with your EC2 instance, and specify the Elastic IP address for `IPAddress`. This ensures that the IP address of your instance will never change.

For more information, see [FullyQualifiedDomainName](#).

Constraints: Route 53 can't check the health of endpoints for which the IP address is in local, private, non-routable, or multicast ranges. For more information about IP addresses for which you can't create health checks, see the following documents:

- [RFC 5735, Special Use IPv4 Addresses](#)
- [RFC 6598, IANA-Reserved IPv4 Prefix for Shared Address Space](#)
- [RFC 5156, Special-Use IPv6 Addresses](#)

When the value of `Type` is `CALCULATED` or `CLOUDWATCH_METRIC`, omit `IPAddress`.

Type: String

Length Constraints: Maximum length of 45.

Pattern: `(^(((0-9)|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}((0-9)|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))$|^((0-9a-fA-F){1,4}:){7,7}([0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,7}|([0-9a-fA-F]{1,4}:){1,6}:([0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,5}:([0-9a-fA-F]{1,4}){1,2}|([0-9a-fA-F]{1,4}:){1,4}:([0-9a-fA-F]{1,4}){1,3}|([0-9a-fA-F]{1,4}:){1,3}:([0-9a-fA-F]{1,4}){1,4}|([0-9a-fA-F]{1,4}:){1,2}:([0-9a-fA-F]{1,4}){1,5}|([0-9a-fA-F]{1,4}:)(:([0-9a-fA-F]{1,4}){1,6})|:(:([0-9a-fA-F]{1,4}){1,7}|:)|fe80:([0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,}|:(ffff:(0{1,4}){0,1}|:(25[0-5]|(2[0-4]|1{0,1}[0-9])|1{0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])\.){3,3})$)`

Required: No

MeasureLatency

Specify whether you want Amazon Route 53 to measure the latency between health checkers in multiple AWS regions and your endpoint, and to display CloudWatch latency graphs on the **Health Checks** page in the Route 53 console.

Important

You can't change the value of `MeasureLatency` after you create a health check.

Type: Boolean

Required: No

Port

The port on the endpoint that you want Amazon Route 53 to perform health checks on.

Note

Don't specify a value for `Port` when you specify a value for `Type` of `CLOUDWATCH_METRIC` or `CALCULATED`.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

Regions

A complex type that contains one `Region` element for each region from which you want Amazon Route 53 health checkers to check the specified endpoint.

If you don't specify any regions, Route 53 health checkers automatically performs checks from all of the regions that are listed under **Valid Values**.

If you update a health check to remove a region that has been performing health checks, Route 53 will briefly continue to perform checks from that region to ensure that some health checkers are always checking the endpoint (for example, if you replace three regions with four different regions).

Type: Array of strings

Array Members: Minimum number of 3 items. Maximum number of 64 items.

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

Valid Values: `us-east-1` | `us-west-1` | `us-west-2` | `eu-west-1` | `ap-southeast-1` | `ap-southeast-2` | `ap-northeast-1` | `sa-east-1`

Required: No

RequestInterval

The number of seconds between the time that Amazon Route 53 gets a response from your endpoint and the time that it sends the next health check request. Each Route 53 health checker makes requests at this interval.

Important

You can't change the value of `RequestInterval` after you create a health check.

If you don't specify a value for `RequestInterval`, the default value is 30 seconds.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 30.

Required: No

ResourcePath

The path, if any, that you want Amazon Route 53 to request when performing health checks. The path can be any value for which your endpoint will return an HTTP status code of 2xx or 3xx when the endpoint is healthy, for example, the file `/docs/route53-health-check.html`. You can also include query string parameters, for example, `/welcome.html?language=jp&login=y`.

Type: String

Length Constraints: Maximum length of 255.

Required: No

SearchString

If the value of `Type` is `HTTP_STR_MATCH` or `HTTPS_STR_MATCH`, the string that you want Amazon Route 53 to search for in the response body from the specified resource. If the string appears in the response body, Route 53 considers the resource healthy.

Route 53 considers case when searching for `SearchString` in the response body.

Type: String

Length Constraints: Maximum length of 255.

Required: No

Type

The type of health check that you want to create, which indicates how Amazon Route 53 determines whether an endpoint is healthy.

Important

You can't change the value of `Type` after you create a health check.

You can create the following types of health checks:

- **HTTP:** Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTP request and waits for an HTTP status code of 200 or greater and less than 400.
- **HTTPS:** Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTPS request and waits for an HTTP status code of 200 or greater and less than 400.

Important

If you specify `HTTPS` for the value of `Type`, the endpoint must support TLS v1.0 or later.

- **HTTP_STR_MATCH:** Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTP request and searches the first 5,120 bytes of the response body for the string that you specify in `SearchString`.
- **HTTPS_STR_MATCH:** Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTPS request and searches the first 5,120 bytes of the response body for the string that you specify in `SearchString`.
- **TCP:** Route 53 tries to establish a TCP connection.
- **CLOUDWATCH_METRIC:** The health check is associated with a CloudWatch alarm. If the state of the alarm is `OK`, the health check is considered healthy. If the state is `ALARM`, the health check is considered unhealthy. If CloudWatch doesn't have sufficient data to determine whether the state is `OK` or `ALARM`, the health check status depends on the setting for `InsufficientDataHealthStatus`: `Healthy`, `Unhealthy`, or `LastKnownStatus`.
- **CALCULATED:** For health checks that monitor the status of other health checks, Route 53 adds up the number of health checks that Route 53 health checkers consider to be healthy and compares that number with the value of `HealthThreshold`.

For more information, see [How Route 53 Determines Whether an Endpoint Is Healthy](#) in the *Amazon Route 53 Developer Guide*.

Type: String

Valid Values: `HTTP` | `HTTPS` | `HTTP_STR_MATCH` | `HTTPS_STR_MATCH` | `TCP` | `CALCULATED` | `CLOUDWATCH_METRIC`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

HealthCheckObservation

Service: Amazon Route 53

A complex type that contains the last failure reason as reported by one Amazon Route 53 health checker.

Contents

IPAddress

The IP address of the Amazon Route 53 health checker that provided the failure reason in `StatusReport`.

Type: String

Length Constraints: Maximum length of 45.

Pattern: `(^(((0-9)|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}([0-9]|1[0-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))#|^((0-9a-fA-F){1,4}:){7,7}(0-9a-fA-F){1,4}|([0-9a-fA-F]{1,4}:){1,7}:|([0-9a-fA-F]{1,4}:){1,6}:([0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){1,2}|([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){1,3}|([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){1,4}|([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){1,5}|[0-9a-fA-F]{1,4}:((:[0-9a-fA-F]{1,4}){1,6})|:((:[0-9a-fA-F]{1,4}){1,7}|:)|fe80:(:[0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,}|:(ffff(:0{1,4}){0,1}:){0,1}((25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))|([0-9a-fA-F]{1,4}:){1,4}:(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))#)`

Required: No

Region

The region of the Amazon Route 53 health checker that provided the status in `StatusReport`.

Type: String

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

Valid Values: `us-east-1` | `us-west-1` | `us-west-2` | `eu-west-1` | `ap-southeast-1` | `ap-southeast-2` | `ap-northeast-1` | `sa-east-1`

Required: No

StatusReport

A complex type that contains the last failure reason as reported by one Amazon Route 53 health checker and the time of the failed health check.

Type: [StatusReport \(p. 451\)](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)

- [AWS SDK for Ruby V3](#)

HostedZone

Service: Amazon Route 53

A complex type that contains general information about the hosted zone.

Contents

CallerReference

The value that you specified for `CallerReference` when you created the hosted zone.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Config

A complex type that includes the `Comment` and `PrivateZone` elements. If you omitted the `HostedZoneConfig` and `Comment` elements from the request, the `Config` and `Comment` elements don't appear in the response.

Type: [HostedZoneConfig \(p. 436\)](#) object

Required: No

Id

The ID that Amazon Route 53 assigned to the hosted zone when you created it.

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

LinkedService

If the hosted zone was created by another service, the service that created the hosted zone. When a hosted zone is created by another service, you can't edit or delete it using Route 53.

Type: [LinkedService \(p. 438\)](#) object

Required: No

Name

The name of the domain. For public hosted zones, this is the name that you have registered with your DNS registrar.

For information about how to specify characters other than a–z, 0–9, and – (hyphen) and how to specify internationalized domain names, see [CreateHostedZone](#).

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

ResourceRecordSetCount

The number of resource record sets in the hosted zone.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

HostedZoneConfig

Service: Amazon Route 53

A complex type that contains an optional comment about your hosted zone. If you don't want to specify a comment, omit both the `HostedZoneConfig` and `Comment` elements.

Contents

Comment

Any comments that you want to include about the hosted zone.

Type: String

Length Constraints: Maximum length of 256.

Required: No

PrivateZone

A value that indicates whether this is a private hosted zone.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

HostedZoneLimit

Service: Amazon Route 53

A complex type that contains the type of limit that you specified in the request and the current value for that limit.

Contents

Type

The limit that you requested. Valid values include the following:

- **MAX_RRSETS_BY_ZONE**: The maximum number of records that you can create in the specified hosted zone.
- **MAX_VPCS_ASSOCIATED_BY_ZONE**: The maximum number of Amazon VPCs that you can associate with the specified private hosted zone.

Type: String

Valid Values: `MAX_RRSETS_BY_ZONE` | `MAX_VPCS_ASSOCIATED_BY_ZONE`

Required: Yes

Value

The current value for the limit that is specified by `Type`.

Type: Long

Valid Range: Minimum value of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

LinkedService

Service: Amazon Route 53

If a health check or hosted zone was created by another service, `LinkedService` is a complex type that describes the service that created the resource. When a resource is created by another service, you can't edit or delete it using Amazon Route 53.

Contents

Description

If the health check or hosted zone was created by another service, an optional description that can be provided by the other service. When a resource is created by another service, you can't edit or delete it using Amazon Route 53.

Type: String

Length Constraints: Maximum length of 256.

Required: No

ServicePrincipal

If the health check or hosted zone was created by another service, the service that created the resource. When a resource is created by another service, you can't edit or delete it using Amazon Route 53.

Type: String

Length Constraints: Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

QueryLoggingConfig

Service: Amazon Route 53

A complex type that contains information about a configuration for DNS query logging.

Contents

CloudWatchLogsLogGroupArn

The Amazon Resource Name (ARN) of the CloudWatch Logs log group that Amazon Route 53 is publishing logs to.

Type: String

Required: Yes

HostedZoneId

The ID of the hosted zone that CloudWatch Logs is logging queries for.

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

Id

The ID for a configuration for DNS query logging.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ResourceRecord

Service: Amazon Route 53

Information specific to the resource record.

Note

If you're creating an alias resource record set, omit `ResourceRecord`.

Contents

Value

The current or new DNS record value, not to exceed 4,000 characters. In the case of a `DELETE` action, if the current value does not match the actual value, an error is returned. For descriptions about how to format `Value` for different record types, see [Supported DNS Resource Record Types](#) in the *Amazon Route 53 Developer Guide*.

You can specify more than one value for all record types except `CNAME` and `SOA`.

Note

If you're creating an alias resource record set, omit `Value`.

Type: String

Length Constraints: Maximum length of 4000.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ResourceRecordSet

Service: Amazon Route 53

Information about the resource record set to create or delete.

Contents

AliasTarget

Alias resource record sets only: Information about the AWS resource, such as a CloudFront distribution or an Amazon S3 bucket, that you want to route traffic to.

If you're creating resource records sets for a private hosted zone, note the following:

- You can't create an alias resource record set in a private hosted zone to route traffic to a CloudFront distribution.
- Creating geolocation alias resource record sets or latency alias resource record sets in a private hosted zone is unsupported.
- For information about creating failover resource record sets in a private hosted zone, see [Configuring Failover in a Private Hosted Zone](#) in the *Amazon Route 53 Developer Guide*.

Type: [AliasTarget](#) (p. 406) object

Required: No

Failover

Failover resource record sets only: To configure failover, you add the `Failover` element to two resource record sets. For one resource record set, you specify `PRIMARY` as the value for `Failover`; for the other resource record set, you specify `SECONDARY`. In addition, you include the `HealthCheckId` element and specify the health check that you want Amazon Route 53 to perform for each resource record set.

Except where noted, the following failover behaviors assume that you have included the `HealthCheckId` element in both resource record sets:

- When the primary resource record set is healthy, Route 53 responds to DNS queries with the applicable value from the primary resource record set regardless of the health of the secondary resource record set.
- When the primary resource record set is unhealthy and the secondary resource record set is healthy, Route 53 responds to DNS queries with the applicable value from the secondary resource record set.
- When the secondary resource record set is unhealthy, Route 53 responds to DNS queries with the applicable value from the primary resource record set regardless of the health of the primary resource record set.
- If you omit the `HealthCheckId` element for the secondary resource record set, and if the primary resource record set is unhealthy, Route 53 always responds to DNS queries with the applicable value from the secondary resource record set. This is true regardless of the health of the associated endpoint.

You can't create non-failover resource record sets that have the same values for the `Name` and `Type` elements as failover resource record sets.

For failover alias resource record sets, you must also include the `EvaluateTargetHealth` element and set the value to `true`.

For more information about configuring failover for Route 53, see the following topics in the *Amazon Route 53 Developer Guide*:

- [Route 53 Health Checks and DNS Failover](#)

- [Configuring Failover in a Private Hosted Zone](#)

Type: String

Valid Values: PRIMARY | SECONDARY

Required: No

GeoLocation

Geolocation resource record sets only: A complex type that lets you control how Amazon Route 53 responds to DNS queries based on the geographic origin of the query. For example, if you want all queries from Africa to be routed to a web server with an IP address of 192.0.2.111, create a resource record set with a `Type` of `A` and a `ContinentCode` of `AF`.

Note

Although creating geolocation and geolocation alias resource record sets in a private hosted zone is allowed, it's not supported.

If you create separate resource record sets for overlapping geographic regions (for example, one resource record set for a continent and one for a country on the same continent), priority goes to the smallest geographic region. This allows you to route most queries for a continent to one resource and to route queries for a country on that continent to a different resource.

You can't create two geolocation resource record sets that specify the same geographic location.

The value `*` in the `CountryCode` element matches all geographic locations that aren't specified in other geolocation resource record sets that have the same values for the `Name` and `Type` elements.

Important

Geolocation works by mapping IP addresses to locations. However, some IP addresses aren't mapped to geographic locations, so even if you create geolocation resource record sets that cover all seven continents, Route 53 will receive some DNS queries from locations that it can't identify. We recommend that you create a resource record set for which the value of `CountryCode` is `*`. Two groups of queries are routed to the resource that you specify in this record: queries that come from locations for which you haven't created geolocation resource record sets and queries from IP addresses that aren't mapped to a location. If you don't create a `*` resource record set, Route 53 returns a "no answer" response for queries from those locations.

You can't create non-geolocation resource record sets that have the same values for the `Name` and `Type` elements as geolocation resource record sets.

Type: [GeoLocation](#) (p. 419) object

Required: No

HealthCheckId

If you want Amazon Route 53 to return this resource record set in response to a DNS query only when the status of a health check is healthy, include the `HealthCheckId` element and specify the ID of the applicable health check.

Route 53 determines whether a resource record set is healthy based on one of the following:

- By periodically sending a request to the endpoint that is specified in the health check
- By aggregating the status of a specified group of health checks (calculated health checks)
- By determining the current state of a CloudWatch alarm (CloudWatch metric health checks)

Important

Route 53 doesn't check the health of the endpoint that is specified in the resource record set, for example, the endpoint specified by the IP address in the `Value` element. When you

add a `HealthCheckId` element to a resource record set, Route 53 checks the health of the endpoint that you specified in the health check.

For more information, see the following topics in the *Amazon Route 53 Developer Guide*:

- [How Amazon Route 53 Determines Whether an Endpoint Is Healthy](#)
- [Route 53 Health Checks and DNS Failover](#)
- [Configuring Failover in a Private Hosted Zone](#)

When to Specify HealthCheckId

Specifying a value for `HealthCheckId` is useful only when Route 53 is choosing between two or more resource record sets to respond to a DNS query, and you want Route 53 to base the choice in part on the status of a health check. Configuring health checks makes sense only in the following configurations:

- **Non-alias resource record sets:** You're checking the health of a group of non-alias resource record sets that have the same routing policy, name, and type (such as multiple weighted records named `www.example.com` with a type of A) and you specify health check IDs for all the resource record sets.

If the health check status for a resource record set is healthy, Route 53 includes the record among the records that it responds to DNS queries with.

If the health check status for a resource record set is unhealthy, Route 53 stops responding to DNS queries using the value for that resource record set.

If the health check status for all resource record sets in the group is unhealthy, Route 53 considers all resource record sets in the group healthy and responds to DNS queries accordingly.

- **Alias resource record sets:** You specify the following settings:
 - You set `EvaluateTargetHealth` to true for an alias resource record set in a group of resource record sets that have the same routing policy, name, and type (such as multiple weighted records named `www.example.com` with a type of A).
 - You configure the alias resource record set to route traffic to a non-alias resource record set in the same hosted zone.
 - You specify a health check ID for the non-alias resource record set.

If the health check status is healthy, Route 53 considers the alias resource record set to be healthy and includes the alias record among the records that it responds to DNS queries with.

If the health check status is unhealthy, Route 53 stops responding to DNS queries using the alias resource record set.

Note

The alias resource record set can also route traffic to a *group* of non-alias resource record sets that have the same routing policy, name, and type. In that configuration, associate health checks with all of the resource record sets in the group of non-alias resource record sets.

Geolocation Routing

For geolocation resource record sets, if an endpoint is unhealthy, Route 53 looks for a resource record set for the larger, associated geographic region. For example, suppose you have resource record sets for a state in the United States, for the entire United States, for North America, and a resource record set that has * for `CountryCode` is *, which applies to all locations. If the endpoint for the state resource record set is unhealthy, Route 53 checks for healthy resource record sets in the following order until it finds a resource record set for which the endpoint is healthy:

- The United States
- North America

- The default resource record set

Specifying the Health Check Endpoint by Domain Name

If your health checks specify the endpoint only by domain name, we recommend that you create a separate health check for each endpoint. For example, create a health check for each HTTP server that is serving content for `www.example.com`. For the value of `FullyQualifiedDomainName`, specify the domain name of the server (such as `us-east-2-www.example.com`), not the name of the resource record sets (`www.example.com`).

Important

Health check results will be unpredictable if you do the following:

- Create a health check that has the same value for `FullyQualifiedDomainName` as the name of a resource record set.
- Associate that health check with the resource record set.

Type: String

Length Constraints: Maximum length of 64.

Required: No

MultiValueAnswer

Multivalue answer resource record sets only: To route traffic approximately randomly to multiple resources, such as web servers, create one multivalue answer record for each resource and specify `true` for `MultiValueAnswer`. Note the following:

- If you associate a health check with a multivalue answer resource record set, Amazon Route 53 responds to DNS queries with the corresponding IP address only when the health check is healthy.
- If you don't associate a health check with a multivalue answer record, Route 53 always considers the record to be healthy.
- Route 53 responds to DNS queries with up to eight healthy records; if you have eight or fewer healthy records, Route 53 responds to all DNS queries with all the healthy records.
- If you have more than eight healthy records, Route 53 responds to different DNS resolvers with different combinations of healthy records.
- When all records are unhealthy, Route 53 responds to DNS queries with up to eight unhealthy records.
- If a resource becomes unavailable after a resolver caches a response, client software typically tries another of the IP addresses in the response.

You can't create multivalue answer alias records.

Type: Boolean

Required: No

Name

For `ChangeResourceRecordSets` requests, the name of the record that you want to create, update, or delete. For `ListResourceRecordSets` responses, the name of a record in the specified hosted zone.

ChangeResourceRecordSets Only

Enter a fully qualified domain name, for example, `www.example.com`. You can optionally include a trailing dot. If you omit the trailing dot, Amazon Route 53 assumes that the domain name that you specify is fully qualified. This means that Route 53 treats `www.example.com` (without a trailing dot) and `www.example.com.` (with a trailing dot) as identical.

For information about how to specify characters other than a–z, 0–9, and – (hyphen) and how to specify internationalized domain names, see [DNS Domain Name Format](#) in the *Amazon Route 53 Developer Guide*.

You can use the asterisk (*) wildcard to replace the leftmost label in a domain name, for example, *.example.com. Note the following:

- The * must replace the entire label. For example, you can't specify *prod.example.com or prod*.example.com.
- The * can't replace any of the middle labels, for example, marketing*.example.com.
- If you include * in any position other than the leftmost label in a domain name, DNS treats it as an * character (ASCII 42), not as a wildcard.

Important

You can't use the * wildcard for resource records sets that have a type of NS.

You can use the * wildcard as the leftmost label in a domain name, for example, *.example.com. You can't use an * for one of the middle labels, for example, marketing*.example.com. In addition, the * must replace the entire label; for example, you can't specify prod*.example.com.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

Region

Latency-based resource record sets only: The Amazon EC2 Region where you created the resource that this resource record set refers to. The resource typically is an AWS resource, such as an EC2 instance or an ELB load balancer, and is referred to by an IP address or a DNS domain name, depending on the record type.

Note

Although creating latency and latency alias resource record sets in a private hosted zone is allowed, it's not supported.

When Amazon Route 53 receives a DNS query for a domain name and type for which you have created latency resource record sets, Route 53 selects the latency resource record set that has the lowest latency between the end user and the associated Amazon EC2 Region. Route 53 then returns the value that is associated with the selected resource record set.

Note the following:

- You can only specify one ResourceRecord per latency resource record set.
- You can only create one latency resource record set for each Amazon EC2 Region.
- You aren't required to create latency resource record sets for all Amazon EC2 Regions. Route 53 will choose the region with the best latency from among the regions that you create latency resource record sets for.
- You can't create non-latency resource record sets that have the same values for the Name and Type elements as latency resource record sets.

Type: String

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

Valid Values: us-east-1 | us-east-2 | us-west-1 | us-west-2 | ca-central-1 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-northeast-3 | eu-north-1 | sa-east-1 | cn-north-1 | cn-northwest-1 | ap-east-1 | me-south-1 | ap-south-1

Required: No

ResourceRecords

Information about the resource records to act upon.

Note

If you're creating an alias resource record set, omit `ResourceRecords`.

Type: Array of [ResourceRecord](#) (p. 440) objects

Array Members: Minimum number of 1 item.

Required: No

SetIdentifier

Resource record sets that have a routing policy other than simple: An identifier that differentiates among multiple resource record sets that have the same combination of name and type, such as multiple weighted resource record sets named `acme.example.com` that have a type of `A`. In a group of resource record sets that have the same name and type, the value of `SetIdentifier` must be unique for each resource record set.

For information about routing policies, see [Choosing a Routing Policy](#) in the *Amazon Route 53 Developer Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

TrafficPolicyInstanceId

When you create a traffic policy instance, Amazon Route 53 automatically creates a resource record set. `TrafficPolicyInstanceId` is the ID of the traffic policy instance that Route 53 created this resource record set for.

Important

To delete the resource record set that is associated with a traffic policy instance, use `DeleteTrafficPolicyInstance`. Route 53 will delete the resource record set automatically. If you delete the resource record set by using `ChangeResourceRecordSets`, Route 53 doesn't automatically delete the traffic policy instance, and you'll continue to be charged for it even though it's no longer in use.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: No

TTL

The resource record cache time to live (TTL), in seconds. Note the following:

- If you're creating or updating an alias resource record set, omit `TTL`. Amazon Route 53 uses the value of `TTL` for the alias target.
- If you're associating this resource record set with a health check (if you're adding a `HealthCheckId` element), we recommend that you specify a `TTL` of 60 seconds or less so clients respond quickly to changes in health status.
- All of the resource record sets in a group of weighted resource record sets must have the same value for `TTL`.
- If a group of weighted resource record sets includes one or more weighted alias resource record sets for which the alias target is an ELB load balancer, we recommend that you specify a `TTL` of 60

seconds for all of the non-alias weighted resource record sets that have the same name and type. Values other than 60 seconds (the TTL for load balancers) will change the effect of the values that you specify for `Weight`.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

Type

The DNS record type. For information about different record types and how data is encoded for them, see [Supported DNS Resource Record Types](#) in the *Amazon Route 53 Developer Guide*.

Valid values for basic resource record sets: `A` | `AAAA` | `CAA` | `CNAME` | `MX` | `NAPTR` | `NS` | `PTR` | `SOA` | `SPF` | `SRV` | `TXT`

Values for weighted, latency, geolocation, and failover resource record sets: `A` | `AAAA` | `CAA` | `CNAME` | `MX` | `NAPTR` | `PTR` | `SPF` | `SRV` | `TXT`. When creating a group of weighted, latency, geolocation, or failover resource record sets, specify the same value for all of the resource record sets in the group.

Valid values for multivalue answer resource record sets: `A` | `AAAA` | `MX` | `NAPTR` | `PTR` | `SPF` | `SRV` | `TXT`

Note

SPF records were formerly used to verify the identity of the sender of email messages. However, we no longer recommend that you create resource record sets for which the value of `Type` is `SPF`. RFC 7208, *Sender Policy Framework (SPF) for Authorizing Use of Domains in Email, Version 1*, has been updated to say, "...[I]ts existence and mechanism defined in [RFC4408] have led to some interoperability issues. Accordingly, its use is no longer appropriate for SPF version 1; implementations are not to use it." In RFC 7208, see section 14.1, [The SPF DNS Record Type](#).

Values for alias resource record sets:

- **Amazon API Gateway custom regional APIs and edge-optimized APIs:** `A`
- **CloudFront distributions:** `A`

If IPv6 is enabled for the distribution, create two resource record sets to route traffic to your distribution, one with a value of `A` and one with a value of `AAAA`.

- **Amazon API Gateway environment that has a regionalized subdomain:** `A`
- **ELB load balancers:** `A` | `AAAA`
- **Amazon S3 buckets:** `A`
- **Amazon Virtual Private Cloud interface VPC endpoints** `A`
- **Another resource record set in this hosted zone:** Specify the type of the resource record set that you're creating the alias for. All values are supported except `NS` and `SOA`.

Note

If you're creating an alias record that has the same name as the hosted zone (known as the zone apex), you can't route traffic to a record for which the value of `Type` is `CNAME`. This is because the alias record must have the same type as the record you're routing traffic to, and creating a `CNAME` record for the zone apex isn't supported even for an alias record.

Type: String

Valid Values: `SOA` | `A` | `TXT` | `NS` | `CNAME` | `MX` | `NAPTR` | `PTR` | `SRV` | `SPF` | `AAAA` | `CAA`

Required: Yes

Weight

Weighted resource record sets only: Among resource record sets that have the same combination of DNS name and type, a value that determines the proportion of DNS queries that Amazon Route 53 responds to using the current resource record set. Route 53 calculates the sum of the weights for the resource record sets that have the same combination of DNS name and type. Route 53 then responds to queries based on the ratio of a resource's weight to the total. Note the following:

- You must specify a value for the `Weight` element for every weighted resource record set.
- You can only specify one `ResourceRecord` per weighted resource record set.
- You can't create latency, failover, or geolocation resource record sets that have the same values for the `Name` and `Type` elements as weighted resource record sets.
- You can create a maximum of 100 weighted resource record sets that have the same values for the `Name` and `Type` elements.
- For weighted (but not weighted alias) resource record sets, if you set `Weight` to 0 for a resource record set, Route 53 never responds to queries with the applicable value for that resource record set. However, if you set `Weight` to 0 for all resource record sets that have the same combination of DNS name and type, traffic is routed to all resources with equal probability.

The effect of setting `Weight` to 0 is different when you associate health checks with weighted resource record sets. For more information, see [Options for Configuring Route 53 Active-Active and Active-Passive Failover](#) in the *Amazon Route 53 Developer Guide*.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ResourceTagSet

Service: Amazon Route 53

A complex type containing a resource and its associated tags.

Contents

ResourceId

The ID for the specified resource.

Type: String

Length Constraints: Maximum length of 64.

Required: No

ResourceType

The type of the resource.

- The resource type for health checks is `healthcheck`.
- The resource type for hosted zones is `hostedzone`.

Type: String

Valid Values: `healthcheck` | `hostedzone`

Required: No

Tags

The tags associated with the specified resource.

Type: Array of [Tag \(p. 452\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ReusableDelegationSetLimit

Service: Amazon Route 53

A complex type that contains the type of limit that you specified in the request and the current value for that limit.

Contents

Type

The limit that you requested: `MAX_ZONES_BY_REUSABLE_DELEGATION_SET`, the maximum number of hosted zones that you can associate with the specified reusable delegation set.

Type: String

Valid Values: `MAX_ZONES_BY_REUSABLE_DELEGATION_SET`

Required: Yes

Value

The current value for the `MAX_ZONES_BY_REUSABLE_DELEGATION_SET` limit.

Type: Long

Valid Range: Minimum value of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

StatusReport

Service: Amazon Route 53

A complex type that contains the status that one Amazon Route 53 health checker reports and the time of the health check.

Contents

CheckedTime

The date and time that the health checker performed the health check in [ISO 8601 format](#) and Coordinated Universal Time (UTC). For example, the value `2017-03-27T17:48:16.751Z` represents March 27, 2017 at 17:48:16.751 UTC.

Type: Timestamp

Required: No

Status

A description of the status of the health check endpoint as reported by one of the Amazon Route 53 health checkers.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Tag

Service: Amazon Route 53

A complex type that contains information about a tag that you want to add or edit for the specified health check or hosted zone.

Contents

Key

The value of `Key` depends on the operation that you want to perform:

- **Add a tag to a health check or hosted zone:** `Key` is the name that you want to give the new tag.
- **Edit a tag:** `Key` is the name of the tag that you want to change the `Value` for.
- **Delete a key:** `Key` is the name of the tag you want to remove.
- **Give a name to a health check:** Edit the default `Name` tag. In the Amazon Route 53 console, the list of your health checks includes a **Name** column that lets you see the name that you've given to each health check.

Type: String

Length Constraints: Maximum length of 128.

Required: No

Value

The value of `Value` depends on the operation that you want to perform:

- **Add a tag to a health check or hosted zone:** `Value` is the value that you want to give the new tag.
- **Edit a tag:** `Value` is the new value that you want to assign the tag.

Type: String

Length Constraints: Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

TrafficPolicy

Service: Amazon Route 53

A complex type that contains settings for a traffic policy.

Contents

Comment

The comment that you specify in the `CreateTrafficPolicy` request, if any.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

Document

The definition of a traffic policy in JSON format. You specify the JSON document to use for a new traffic policy in the `CreateTrafficPolicy` request. For more information about the JSON format, see [Traffic Policy Document Format](#).

Type: String

Length Constraints: Maximum length of 102400.

Required: Yes

Id

The ID that Amazon Route 53 assigned to a traffic policy when you created it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

Name

The name that you specified when you created the traffic policy.

Type: String

Length Constraints: Maximum length of 512.

Required: Yes

Type

The DNS type of the resource record sets that Amazon Route 53 creates when you use a traffic policy to create a traffic policy instance.

Type: String

Valid Values: `SOA` | `A` | `TXT` | `NS` | `CNAME` | `MX` | `NAPTR` | `PTR` | `SRV` | `SPF` | `AAAA` | `CAA`

Required: Yes

Version

The version number that Amazon Route 53 assigns to a traffic policy. For a new traffic policy, the value of `Version` is always 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

TrafficPolicyInstance

Service: Amazon Route 53

A complex type that contains settings for the new traffic policy instance.

Contents

HostedZoneId

The ID of the hosted zone that Amazon Route 53 created resource record sets in.

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

Id

The ID that Amazon Route 53 assigned to the new traffic policy instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

Message

If `State` is `Failed`, an explanation of the reason for the failure. If `State` is another value, `Message` is empty.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

Name

The DNS name, such as `www.example.com`, for which Amazon Route 53 responds to queries by using the resource record sets that are associated with this traffic policy instance.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

State

The value of `State` is one of the following values:

Applied

Amazon Route 53 has finished creating resource record sets, and changes have propagated to all Route 53 edge locations.

Creating

Route 53 is creating the resource record sets. Use `GetTrafficPolicyInstance` to confirm that the `CreateTrafficPolicyInstance` request completed successfully.

Failed

Route 53 wasn't able to create or update the resource record sets. When the value of `State` is `Failed`, see `Message` for an explanation of what caused the request to fail.

Type: String

Required: Yes

TrafficPolicyId

The ID of the traffic policy that Amazon Route 53 used to create resource record sets in the specified hosted zone.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

TrafficPolicyType

The DNS type that Amazon Route 53 assigned to all of the resource record sets that it created for this traffic policy instance.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Required: Yes

TrafficPolicyVersion

The version of the traffic policy that Amazon Route 53 used to create resource record sets in the specified hosted zone.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

TTL

The TTL that Amazon Route 53 assigned to all of the resource record sets that it created in the specified hosted zone.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

TrafficPolicySummary

Service: Amazon Route 53

A complex type that contains information about the latest version of one traffic policy that is associated with the current AWS account.

Contents

Id

The ID that Amazon Route 53 assigned to the traffic policy when you created it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

LatestVersion

The version number of the latest version of the traffic policy.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Name

The name that you specified for the traffic policy when you created it.

Type: String

Length Constraints: Maximum length of 512.

Required: Yes

TrafficPolicyCount

The number of traffic policies that are associated with the current AWS account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Type

The DNS type of the resource record sets that Amazon Route 53 creates when you use a traffic policy to create a traffic policy instance.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA
| CAA

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

VPC

Service: Amazon Route 53

(Private hosted zones only) A complex type that contains information about an Amazon VPC.

Contents

VPCId

(Private hosted zones only) The ID of an Amazon VPC.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

VPCRegion

(Private hosted zones only) The region that an Amazon VPC was created in.

Type: String

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

Valid Values: us-east-1 | us-east-2 | us-west-1 | us-west-2 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | ap-east-1 | me-south-1 | ap-southeast-1 | ap-southeast-2 | ap-south-1 | ap-northeast-1 | ap-northeast-2 | ap-northeast-3 | eu-north-1 | sa-east-1 | ca-central-1 | cn-north-1

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Amazon Route 53 Domains

The following data types are supported by Amazon Route 53 Domains:

- [BillingRecord](#) (p. 462)
- [ContactDetail](#) (p. 464)
- [DomainSuggestion](#) (p. 467)
- [DomainSummary](#) (p. 469)
- [DomainTransferability](#) (p. 470)
- [ExtraParam](#) (p. 471)
- [Nameserver](#) (p. 476)
- [OperationSummary](#) (p. 477)

- [Tag \(p. 478\)](#)

BillingRecord

Service: Amazon Route 53 Domains

Information for one billing record.

Contents

BillDate

The date that the operation was billed, in Unix format.

Type: Timestamp

Required: No

DomainName

The name of the domain that the billing record applies to. If the domain name contains characters other than a-z, 0-9, and - (hyphen), such as an internationalized domain name, then this value is in Punycode. For more information, see [DNS Domain Name Format](#) in the *Amazon Route 53 Developer Guide*.

Type: String

Length Constraints: Maximum length of 255.

Required: No

InvoiceId

The ID of the invoice that is associated with the billing record.

Type: String

Required: No

Operation

The operation that you were charged for.

Type: String

Valid Values: REGISTER_DOMAIN | DELETE_DOMAIN | TRANSFER_IN_DOMAIN | UPDATE_DOMAIN_CONTACT | UPDATE_NAMESERVER | CHANGE_PRIVACY_PROTECTION | DOMAIN_LOCK | ENABLE_AUTORENEW | DISABLE_AUTORENEW | ADD_DNSSEC | REMOVE_DNSSEC | EXPIRE_DOMAIN | TRANSFER_OUT_DOMAIN | CHANGE_DOMAIN_OWNER | RENEW_DOMAIN | PUSH_DOMAIN

Required: No

Price

The price that you were charged for the operation, in US dollars.

Example value: 12.0

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ContactDetail

Service: Amazon Route 53 Domains

ContactDetail includes the following elements.

Contents

AddressLine1

First line of the contact's address.

Type: String

Length Constraints: Maximum length of 255.

Required: No

AddressLine2

Second line of contact's address, if any.

Type: String

Length Constraints: Maximum length of 255.

Required: No

City

The city of the contact's address.

Type: String

Length Constraints: Maximum length of 255.

Required: No

ContactType

Indicates whether the contact is a person, company, association, or public organization. Note the following:

- If you specify a value other than `PERSON`, you must also specify a value for `OrganizationName`.
- For some TLDs, the privacy protection available depends on the value that you specify for `Contact Type`. For the privacy protection settings for your TLD, see [Domains that You Can Register with Amazon Route 53](#) in the *Amazon Route 53 Developer Guide*
- For .es domains, if you specify `PERSON`, you must specify `INDIVIDUAL` for the value of `ES_LEGAL_FORM`.

Type: String

Valid Values: `PERSON` | `COMPANY` | `ASSOCIATION` | `PUBLIC_BODY` | `RESELLER`

Required: No

CountryCode

Code for the country of the contact's address.

Type: String

Valid Values: `AD` | `AE` | `AF` | `AG` | `AI` | `AL` | `AM` | `AN` | `AO` | `AQ` | `AR` | `AS` | `AT` | `AU` | `AW` | `AZ` | `BA` | `BB` | `BD` | `BE` | `BF` | `BG` | `BH` | `BI` | `BJ` | `BL` | `BM` | `BN` |

BO	BR	BS	BT	BW	BY	BZ	CA	CC	CD	CF	CG	CH	CI	CK
CL	CM	CN	CO	CR	CU	CV	CX	CY	CZ	DE	DJ	DK	DM	DO
DZ	EC	EE	EG	ER	ES	ET	FI	FJ	FK	FM	FO	FR	GA	GB
GD	GE	GH	GI	GL	GM	GN	GQ	GR	GT	GU	GW	GY	HK	HN
HR	HT	HU	ID	IE	IL	IM	IN	IQ	IR	IS	IT	JM	JO	JP
KE	KG	KH	KI	KM	KN	KP	KR	KW	KY	KZ	LA	LB	LC	LI
LK	LR	LS	LT	LU	LV	LY	MA	MC	MD	ME	MF	MG	MH	MK
ML	MM	MN	MO	MP	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA
NC	NE	NG	NI	NL	NO	NP	NR	NU	NZ	OM	PA	PE	PF	PG
PH	PK	PL	PM	PN	PR	PT	PW	PY	QA	RO	RS	RU	RW	SA
SB	SC	SD	SE	SG	SH	SI	SK	SL	SM	SN	SO	SR	ST	SV
SY	SZ	TC	TD	TG	TH	TJ	TK	TL	TM	TN	TO	TR	TT	TV
TW	TZ	UA	UG	US	UY	UZ	VA	VC	VE	VG	VI	VN	VU	WF
WS	YE	YT	ZA	ZM	ZW									

Required: No

Email

Email address of the contact.

Type: String

Length Constraints: Maximum length of 254.

Required: No

ExtraParams

A list of name-value pairs for parameters required by certain top-level domains.

Type: Array of [ExtraParam \(p. 471\)](#) objects

Required: No

Fax

Fax number of the contact.

Constraints: Phone number must be specified in the format "[country dialing code].[number including any area code]". For example, a US phone number might appear as "+1.1234567890".

Type: String

Length Constraints: Maximum length of 30.

Required: No

FirstName

First name of contact.

Type: String

Length Constraints: Maximum length of 255.

Required: No

LastName

Last name of contact.

Type: String

Length Constraints: Maximum length of 255.

Required: No

OrganizationName

Name of the organization for contact types other than PERSON.

Type: String

Length Constraints: Maximum length of 255.

Required: No

PhoneNumber

The phone number of the contact.

Constraints: Phone number must be specified in the format "[country dialing code].[number including any area code>]". For example, a US phone number might appear as "+1 . 1234567890".

Type: String

Length Constraints: Maximum length of 30.

Required: No

State

The state or province of the contact's city.

Type: String

Length Constraints: Maximum length of 255.

Required: No

ZipCode

The zip or postal code of the contact's address.

Type: String

Length Constraints: Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

DomainSuggestion

Service: Amazon Route 53 Domains

Information about one suggested domain name.

Contents

Availability

Whether the domain name is available for registering.

Note

You can register only the domains that are designated as `AVAILABLE`.

Valid values:

`AVAILABLE`

The domain name is available.

`AVAILABLE_RESERVED`

The domain name is reserved under specific conditions.

`AVAILABLE_PREORDER`

The domain name is available and can be preordered.

`DONT_KNOW`

The TLD registry didn't reply with a definitive answer about whether the domain name is available. Route 53 can return this response for a variety of reasons, for example, the registry is performing maintenance. Try again later.

`PENDING`

The TLD registry didn't return a response in the expected amount of time. When the response is delayed, it usually takes just a few extra seconds. You can resubmit the request immediately.

`RESERVED`

The domain name has been reserved for another person or organization.

`UNAVAILABLE`

The domain name is not available.

`UNAVAILABLE_PREMIUM`

The domain name is not available.

`UNAVAILABLE_RESTRICTED`

The domain name is forbidden.

Type: String

Required: No

DomainName

A suggested domain name.

Type: String

Length Constraints: Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

DomainSummary

Service: Amazon Route 53 Domains

Summary information about one domain.

Contents

AutoRenew

Indicates whether the domain is automatically renewed upon expiration.

Type: Boolean

Required: No

DomainName

The name of the domain that the summary information applies to.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Expiry

Expiration date of the domain in Unix time format and Coordinated Universal Time (UTC).

Type: Timestamp

Required: No

TransferLock

Indicates whether a domain is locked from unauthorized transfer to another party.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

DomainTransferability

Service: Amazon Route 53 Domains

A complex type that contains information about whether the specified domain can be transferred to Route 53.

Contents

Transferable

Whether the domain name can be transferred to Route 53.

Note

You can transfer only domains that have a value of `TRANSFERABLE` for `Transferable`.

Valid values:

`TRANSFERABLE`

The domain name can be transferred to Route 53.

`UNTRANSFERRABLE`

The domain name can't be transferred to Route 53.

`DONT_KNOW`

Reserved for future use.

Type: String

Valid Values: `TRANSFERABLE` | `UNTRANSFERRABLE` | `DONT_KNOW`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ExtraParam

Service: Amazon Route 53 Domains

ExtraParam includes the following elements.

Contents

Name

The name of an additional parameter that is required by a top-level domain. Here are the top-level domains that require additional parameters and the names of the parameters that they require:

.com.au and .net.au

- AU_ID_NUMBER
- AU_ID_TYPE

Valid values include the following:

- ABN (Australian business number)
- ACN (Australian company number)
- TM (Trademark number)

.ca

- BRAND_NUMBER
- CA_BUSINESS_ENTITY_TYPE

Valid values include the following:

- BANK (Bank)
- COMMERCIAL_COMPANY (Commercial company)
- COMPANY (Company)
- COOPERATION (Cooperation)
- COOPERATIVE (Cooperative)
- COOPRIX (Cooprix)
- CORP (Corporation)
- CREDIT_UNION (Credit union)
- FOMIA (Federation of mutual insurance associations)
- INC (Incorporated)
- LTD (Limited)
- LTEE (Limitée)
- LLC (Limited liability corporation)
- LLP (Limited liability partnership)
- LTE (Lte.)
- MBA (Mutual benefit association)
- MIC (Mutual insurance company)
- NFP (Not-for-profit corporation)
- SA (S.A.)
- SAVINGS_COMPANY (Savings company)
- SAVINGS_UNION (Savings union)
- SARL (Société à responsabilité limitée)
- TRUST (Trust)
- ULC (Unlimited liability corporation)

- **CA_LEGAL_TYPE**

When `ContactType` is `PERSON`, valid values include the following:

- **ABO** (Aboriginal Peoples indigenous to Canada)
- **CCT** (Canadian citizen)
- **LGR** (Legal Representative of a Canadian Citizen or Permanent Resident)
- **RES** (Permanent resident of Canada)

When `ContactType` is a value other than `PERSON`, valid values include the following:

- **ASS** (Canadian unincorporated association)
- **CCO** (Canadian corporation)
- **EDU** (Canadian educational institution)
- **GOV** (Government or government entity in Canada)
- **HOP** (Canadian Hospital)
- **INB** (Indian Band recognized by the Indian Act of Canada)
- **LAM** (Canadian Library, Archive, or Museum)
- **MAJ** (Her/His Majesty the Queen/King)
- **OMK** (Official mark registered in Canada)
- **PLT** (Canadian Political Party)
- **PRT** (Partnership Registered in Canada)
- **TDM** (Trademark registered in Canada)
- **TRD** (Canadian Trade Union)
- **TRS** (Trust established in Canada)

.es

- **ES_IDENTIFICATION**

Specify the applicable value:

- **For contacts inside Spain:** Enter your passport ID.
- **For contacts outside of Spain:** Enter the VAT identification number for the company.

Note

For .es domains, the value of `ContactType` must be `PERSON`.

- **ES_IDENTIFICATION_TYPE**

Valid values include the following:

- **DNI_AND_NIF** (For Spanish contacts)
- **NIE** (For foreigners with legal residence)
- **OTHER** (For contacts outside of Spain)

- **ES_LEGAL_FORM**

Valid values include the following:

- **ASSOCIATION**
- **CENTRAL_GOVERNMENT_BODY**
- **CIVIL_SOCIETY**
- **COMMUNITY_OF_OWNERS**
- **COMMUNITY_PROPERTY**

-
- **CONSULATE**
 - **COOPERATIVE**
 - **DESIGNATION_OF_ORIGIN_SUPERVISORY_COUNCIL**

- ECONOMIC_INTEREST_GROUP
- EMBASSY
- ENTITY_MANAGING_NATURAL_AREAS
- FARM_PARTNERSHIP
- FOUNDATION
- GENERAL_AND_LIMITED_PARTNERSHIP
- GENERAL_PARTNERSHIP
- INDIVIDUAL
- LIMITED_COMPANY
- LOCAL_AUTHORITY
- LOCAL_PUBLIC_ENTITY
- MUTUAL_INSURANCE_COMPANY
- NATIONAL_PUBLIC_ENTITY
- ORDER_OR_RELIGIOUS_INSTITUTION
- OTHERS (Only for contacts outside of Spain)
- POLITICAL_PARTY
- PROFESSIONAL_ASSOCIATION
- PUBLIC_LAW_ASSOCIATION
- PUBLIC_LIMITED_COMPANY
- REGIONAL_GOVERNMENT_BODY
- REGIONAL_PUBLIC_ENTITY
- SAVINGS_BANK
- SPANISH_OFFICE
- SPORTS_ASSOCIATION
- SPORTS_FEDERATION
- SPORTS_LIMITED_COMPANY
- TEMPORARY_ALLIANCE_OF_ENTERPRISES
- TRADE_UNION
- WORKER_OWNED_COMPANY
- WORKER_OWNED_LIMITED_COMPANY

.fi

- BIRTH_DATE_IN_YYYY_MM_DD
- FI_BUSINESS_NUMBER
- FI_ID_NUMBER
- FI_NATIONALITY

Valid values include the following:

- FINNISH
- NOT_FINNISH
- FI_ORGANIZATION_TYPE

Valid values include the following:

- COMPANY
- CORPORATION
- GOVERNMENT
- INSTITUTION

- POLITICAL_PARTY
- PUBLIC_COMMUNITY
- TOWNSHIP

.fr

- BIRTH_CITY
- BIRTH_COUNTRY
- BIRTH_DATE_IN_YYYY_MM_DD
- BIRTH_DEPARTMENT: Specify the INSEE code that corresponds with the department where the contact was born. If the contact was born somewhere other than France or its overseas departments, specify 99. For more information, including a list of departments and the corresponding INSEE numbers, see the Wikipedia entry [Departments of France](#).
- BRAND_NUMBER

.it

- IT_NATIONALITY
- IT_PIN
- IT_REGISTRANT_ENTITY_TYPE

Valid values include the following:

- FOREIGNERS
- FREELANCE_WORKERS (Freelance workers and professionals)
- ITALIAN_COMPANIES (Italian companies and one-person companies)
- NON_PROFIT_ORGANIZATIONS
- OTHER_SUBJECTS
- PUBLIC_ORGANIZATIONS

.ru

- BIRTH_DATE_IN_YYYY_MM_DD
- RU_PASSPORT_DATA

.se

- BIRTH_COUNTRY
- SE_ID_NUMBER

.sg

- SG_ID_NUMBER

.co.uk, .me.uk, and .org.uk

- UK_CONTACT_TYPE

Valid values include the following:

- CRC (UK Corporation by Royal Charter)
- FCORP (Non-UK Corporation)
- FIND (Non-UK Individual, representing self)
- FOTHER (Non-UK Entity that does not fit into any other category)
- GOV (UK Government Body)
- IND (UK Individual (representing self))
- IP (UK Industrial/Provident Registered Company)
- LLP (UK Limited Liability Partnership)
- LTD (UK Limited Company)
- OTHER (UK Entity that does not fit into any other category)
- PLC (UK Public Limited Company)

- PTNR (UK Partnership)
- RCHAR (UK Registered Charity)
- SCH (UK School)
- STAT (UK Statutory Body)
- STRA (UK Sole Trader)
- UK_COMPANY_NUMBER

In addition, many TLDs require a VAT_NUMBER.

Type: String

Valid Values: DUNS_NUMBER | BRAND_NUMBER | BIRTH_DEPARTMENT |
BIRTH_DATE_IN_YYYY_MM_DD | BIRTH_COUNTRY | BIRTH_CITY | DOCUMENT_NUMBER
| AU_ID_NUMBER | AU_ID_TYPE | CA_LEGAL_TYPE | CA_BUSINESS_ENTITY_TYPE
| CA_LEGAL_REPRESENTATIVE | CA_LEGAL_REPRESENTATIVE_CAPACITY
| ES_IDENTIFICATION | ES_IDENTIFICATION_TYPE | ES_LEGAL_FORM |
FI_BUSINESS_NUMBER | FI_ID_NUMBER | FI_NATIONALITY | FI_ORGANIZATION_TYPE
| IT_NATIONALITY | IT_PIN | IT_REGISTRANT_ENTITY_TYPE | RU_PASSPORT_DATA
| SE_ID_NUMBER | SG_ID_NUMBER | VAT_NUMBER | UK_CONTACT_TYPE |
UK_COMPANY_NUMBER

Required: Yes

Value

The value that corresponds with the name of an extra parameter.

Type: String

Length Constraints: Maximum length of 2048.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Nameserver

Service: Amazon Route 53 Domains

Nameserver includes the following elements.

Contents

GlueIps

Glue IP address of a name server entry. Glue IP addresses are required only when the name of the name server is a subdomain of the domain. For example, if your domain is example.com and the name server for the domain is ns.example.com, you need to specify the IP address for ns.example.com.

Constraints: The list can contain only one IPv4 and one IPv6 address.

Type: Array of strings

Length Constraints: Maximum length of 45.

Required: No

Name

The fully qualified host name of the name server.

Constraint: Maximum 255 characters

Type: String

Length Constraints: Maximum length of 255.

Pattern: [a-zA-Z0-9_\-\.\]*

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

OperationSummary

Service: Amazon Route 53 Domains

OperationSummary includes the following elements.

Contents

OperationId

Identifier returned to track the requested action.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Status

The current status of the requested operation in the system.

Type: String

Valid Values: SUBMITTED | IN_PROGRESS | ERROR | SUCCESSFUL | FAILED

Required: Yes

SubmittedDate

The date when the request was submitted.

Type: Timestamp

Required: Yes

Type

Type of the action requested.

Type: String

Valid Values: REGISTER_DOMAIN | DELETE_DOMAIN | TRANSFER_IN_DOMAIN |
UPDATE_DOMAIN_CONTACT | UPDATE_NAMESERVER | CHANGE_PRIVACY_PROTECTION
| DOMAIN_LOCK | ENABLE_AUTORENEW | DISABLE_AUTORENEW | ADD_DNSSEC |
REMOVE_DNSSEC | EXPIRE_DOMAIN | TRANSFER_OUT_DOMAIN | CHANGE_DOMAIN_OWNER |
RENEW_DOMAIN | PUSH_DOMAIN

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Tag

Service: Amazon Route 53 Domains

Each tag includes the following elements.

Contents

Key

The key (name) of a tag.

Valid values: A-Z, a-z, 0-9, space, ".:/+\"-@"

Constraints: Each key can be 1-128 characters long.

Type: String

Required: No

Value

The value of a tag.

Valid values: A-Z, a-z, 0-9, space, ".:/+\"-@"

Constraints: Each value can be 0-256 characters long.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Amazon Route 53 Resolver

The following data types are supported by Amazon Route 53 Resolver:

- [Filter](#) (p. 480)
- [IpAddressRequest](#) (p. 482)
- [IpAddressResponse](#) (p. 483)
- [IpAddressUpdate](#) (p. 485)
- [ResolverEndpoint](#) (p. 486)
- [ResolverRule](#) (p. 489)
- [ResolverRuleAssociation](#) (p. 492)
- [ResolverRuleConfig](#) (p. 494)
- [Tag](#) (p. 495)

- [TargetAddress](#) (p. 496)

Filter

Service: Amazon Route 53 Resolver

For [ListResolverEndpoints](#), [ListResolverRules](#), and [ListResolverRuleAssociations](#) operations, an optional specification to return a subset of objects.

Contents

Name

When you're using a `List` operation and you want the operation to return a subset of objects, such as Resolver endpoints or Resolver rules, the name of the parameter that you want to use to filter objects. For example, to list only inbound Resolver endpoints, specify `DIRECTION` for the value of `Name`.

The valid values for `Name` depend on the action that you're including the filter in, [ListResolverEndpoints](#), [ListResolverRules](#), or [ListResolverRuleAssociations](#).

ListResolverEndpoints

Valid values for `Name` include the following:

- `CREATOR_REQUEST_ID`: The value that you specified when you created the Resolver endpoint.
- `DIRECTION`: Whether you want to return inbound or outbound Resolver endpoints. If you specify `DIRECTION` for `Name`, specify `INBOUND` or `OUTBOUND` for `Values`.
- `HOST_VPC`: The ID of the VPC that inbound DNS queries pass through on the way from your network to your VPCs in a region, or the VPC that outbound queries pass through on the way from your VPCs to your network. In a [CreateResolverEndpoint](#) request, `SubnetId` indirectly identifies the VPC. In a [GetResolverEndpoint](#) request, the VPC ID for a Resolver endpoint is returned in the `HostVPCId` element.
- `IP_ADDRESS_COUNT`: The number of IP addresses that you have associated with the Resolver endpoint.
- `NAME`: The name of the Resolver endpoint.
- `SECURITY_GROUP_IDS`: The IDs of the VPC security groups that you specified when you created the Resolver endpoint.
- `STATUS`: The status of the Resolver endpoint. If you specify `STATUS` for `Name`, specify the applicable status code for `Values`. For a list of status codes, see `Status` in [ResolverEndpoint](#).

ListResolverRules

Valid values for `Name` include the following:

- `CREATOR_REQUEST_ID`: The value that you specified when you created the Resolver rule.
- `DOMAIN_NAME`: The domain name for which Resolver is forwarding DNS queries to your network. In the value that you specify for `Values`, include a trailing dot (.) after the domain name. For example, if the domain name is `example.com`, specify the following value. Note the "." after `com`:

`example.com.`
- `NAME`: The name of the Resolver rule.
- `RESOLVER_ENDPOINT_ID`: The ID of the Resolver endpoint that the Resolver rule is associated with.

Note

You can filter on the Resolver endpoint only for rules that have a value of `FORWARD` for `RuleType`.

- `STATUS`: The status of the Resolver rule. If you specify `STATUS` for `Name`, specify the applicable status code for `Values`. For a list of status codes, see `Status` in [ResolverRule](#).

- **TYPE:** The type of the Resolver rule. If you specify **TYPE** for **Name**, specify **FORWARD** or **SYSTEM** for **Values**.

ListResolverRuleAssociations

Valid values for **Name** include the following:

- **NAME:** The name of the Resolver rule association.
- **RESOLVER_RULE_ID:** The ID of the Resolver rule that is associated with one or more VPCs.
- **STATUS:** The status of the Resolver rule association. If you specify **STATUS** for **Name**, specify the applicable status code for **Values**. For a list of status codes, see **Status** in [ResolverRuleAssociation](#).
- **VPC_ID:** The ID of the VPC that the Resolver rule is associated with.

Type: String

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

Required: No

Values

When you're using a **List** operation and you want the operation to return a subset of objects, such as Resolver endpoints or Resolver rules, the value of the parameter that you want to use to filter objects. For example, to list only inbound Resolver endpoints, specify **INBOUND** for the value of **Values**.

Type: Array of strings

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

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

IpAddressRequest

Service: Amazon Route 53 Resolver

In a [CreateResolverEndpoint](#) request, the IP address that DNS queries originate from (for outbound endpoints) or that you forward DNS queries to (for inbound endpoints). `IpAddressRequest` also includes the ID of the subnet that contains the IP address.

Contents

Ip

The IP address that you want to use for DNS queries.

Type: String

Length Constraints: Minimum length of 7. Maximum length of 36.

Required: No

SubnetId

The ID of the subnet that contains the IP address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

IpAddressResponse

Service: Amazon Route 53 Resolver

In the response to a [GetResolverEndpoint](#) request, information about the IP addresses that the Resolver endpoint uses for DNS queries.

Contents

CreationTime

The date and time that the IP address was created, in Unix time format and Coordinated Universal Time (UTC).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 40.

Required: No

Ip

One IP address that the Resolver endpoint uses for DNS queries.

Type: String

Length Constraints: Minimum length of 7. Maximum length of 36.

Required: No

IpId

The ID of one IP address.

Type: String

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

Required: No

ModificationTime

The date and time that the IP address was last modified, in Unix time format and Coordinated Universal Time (UTC).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 40.

Required: No

Status

A status code that gives the current status of the request.

Type: String

Valid Values: CREATING | FAILED_CREATION | ATTACHING | ATTACHED | REMAP_DETACHING | REMAP_ATTACHING | DETACHING | FAILED_RESOURCE_GONE | DELETING | DELETE_FAILED_FAS_EXPIRED

Required: No

StatusMessage

A message that provides additional information about the status of the request.

Type: String

Length Constraints: Maximum length of 255.

Required: No

SubnetId

The ID of one subnet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

IpAddressUpdate

Service: Amazon Route 53 Resolver

In an [UpdateResolverEndpoint](#) request, information about an IP address to update.

Contents

Ip

The new IP address.

Type: String

Length Constraints: Minimum length of 7. Maximum length of 36.

Required: No

IpId

Only when removing an IP address from a Resolver endpoint: The ID of the IP address that you want to remove. To get this ID, use [GetResolverEndpoint](#).

Type: String

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

Required: No

SubnetId

The ID of the subnet that includes the IP address that you want to update. To get this ID, use [GetResolverEndpoint](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ResolverEndpoint

Service: Amazon Route 53 Resolver

In the response to a [CreateResolverEndpoint](#), [DeleteResolverEndpoint](#), [GetResolverEndpoint](#), [ListResolverEndpoints](#), or [UpdateResolverEndpoint](#) request, a complex type that contains settings for an existing inbound or outbound Resolver endpoint.

Contents

Arn

The ARN (Amazon Resource Name) for the Resolver endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

CreationTime

The date and time that the endpoint was created, in Unix time format and Coordinated Universal Time (UTC).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 40.

Required: No

CreatorRequestId

A unique string that identifies the request that created the Resolver endpoint. The `CreatorRequestId` allows failed requests to be retried without the risk of executing the operation twice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Direction

Indicates whether the Resolver endpoint allows inbound or outbound DNS queries:

- `INBOUND`: allows DNS queries to your VPC from your network
- `OUTBOUND`: allows DNS queries from your VPC to your network

Type: String

Valid Values: `INBOUND` | `OUTBOUND`

Required: No

HostVPCId

The ID of the VPC that you want to create the Resolver endpoint in.

Type: String

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

Required: No

Id

The ID of the Resolver endpoint.

Type: String

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

Required: No

IpAddressCount

The number of IP addresses that the Resolver endpoint can use for DNS queries.

Type: Integer

Required: No

ModificationTime

The date and time that the endpoint was last modified, in Unix time format and Coordinated Universal Time (UTC).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 40.

Required: No

Name

The name that you assigned to the Resolver endpoint when you submitted a [CreateResolverEndpoint](#) request.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?!^[0-9]+$)([a-zA-Z0-9-_' ']+)`

Required: No

SecurityGroupIds

The ID of one or more security groups that control access to this VPC. The security group must include one or more inbound rules (for inbound endpoints) or outbound rules (for outbound endpoints). Inbound and outbound rules must allow TCP and UDP access. For inbound access, open port 53. For outbound access, open the port that you're using for DNS queries on your network.

Type: Array of strings

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

Required: No

Status

A code that specifies the current status of the Resolver endpoint. Valid values include the following:

- **CREATING:** Resolver is creating and configuring one or more Amazon VPC network interfaces for this endpoint.
- **OPERATIONAL:** The Amazon VPC network interfaces for this endpoint are correctly configured and able to pass inbound or outbound DNS queries between your network and Resolver.
- **UPDATING:** Resolver is associating or disassociating one or more network interfaces with this endpoint.

- **AUTO_RECOVERING:** Resolver is trying to recover one or more of the network interfaces that are associated with this endpoint. During the recovery process, the endpoint functions with limited capacity because of the limit on the number of DNS queries per IP address (per network interface). For the current limit, see [Limits on Route 53 Resolver](#).
- **ACTION_NEEDED:** This endpoint is unhealthy, and Resolver can't automatically recover it. To resolve the problem, we recommend that you check each IP address that you associated with the endpoint. For each IP address that isn't available, add another IP address and then delete the IP address that isn't available. (An endpoint must always include at least two IP addresses.) A status of ACTION_NEEDED can have a variety of causes. Here are two common causes:
 - One or more of the network interfaces that are associated with the endpoint were deleted using Amazon VPC.
 - The network interface couldn't be created for some reason that's outside the control of Resolver.
- **DELETING:** Resolver is deleting this endpoint and the associated network interfaces.

Type: String

Valid Values: CREATING | OPERATIONAL | UPDATING | AUTO_RECOVERING | ACTION_NEEDED | DELETING

Required: No

StatusMessage

A detailed description of the status of the Resolver endpoint.

Type: String

Length Constraints: Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ResolverRule

Service: Amazon Route 53 Resolver

For queries that originate in your VPC, detailed information about a Resolver rule, which specifies how to route DNS queries out of the VPC. The `ResolverRule` parameter appears in the response to a [CreateResolverRule](#), [DeleteResolverRule](#), [GetResolverRule](#), [ListResolverRules](#), or [UpdateResolverRule](#) request.

Contents

Arn

The ARN (Amazon Resource Name) for the Resolver rule specified by `Id`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

CreatorRequestId

A unique string that you specified when you created the Resolver rule. `CreatorRequestId` identifies the request and allows failed requests to be retried without the risk of executing the operation twice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

DomainName

DNS queries for this domain name are forwarded to the IP addresses that are specified in `TargetIps`. If a query matches multiple Resolver rules (example.com and www.example.com), the query is routed using the Resolver rule that contains the most specific domain name (www.example.com).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Id

The ID that Resolver assigned to the Resolver rule when you created it.

Type: String

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

Required: No

Name

The name for the Resolver rule, which you specified when you created the Resolver rule.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?!^[0-9]+$)([a-zA-Z0-9-_' ']+)`

Required: No

OwnerId

When a rule is shared with another AWS account, the account ID of the account that the rule is shared with.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 32.

Required: No

ResolverEndpointId

The ID of the endpoint that the rule is associated with.

Type: String

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

Required: No

RuleType

When you want to forward DNS queries for specified domain name to resolvers on your network, specify `FORWARD`.

When you have a forwarding rule to forward DNS queries for a domain to your network and you want Resolver to process queries for a subdomain of that domain, specify `SYSTEM`.

For example, to forward DNS queries for `example.com` to resolvers on your network, you create a rule and specify `FORWARD` for `RuleType`. To then have Resolver process queries for `apex.example.com`, you create a rule and specify `SYSTEM` for `RuleType`.

Currently, only Resolver can create rules that have a value of `RECURSIVE` for `RuleType`.

Type: String

Valid Values: `FORWARD` | `SYSTEM` | `RECURSIVE`

Required: No

ShareStatus

Whether the rule is shared and, if so, whether the current account is sharing the rule with another account, or another account is sharing the rule with the current account.

Type: String

Valid Values: `NOT_SHARED` | `SHARED_WITH_ME` | `SHARED_BY_ME`

Required: No

Status

A code that specifies the current status of the Resolver rule.

Type: String

Valid Values: `COMPLETE` | `DELETING` | `UPDATING` | `FAILED`

Required: No

StatusMessage

A detailed description of the status of a Resolver rule.

Type: String

Length Constraints: Maximum length of 255.

Required: No

TargetIps

An array that contains the IP addresses and ports that an outbound endpoint forwards DNS queries to. Typically, these are the IP addresses of DNS resolvers on your network. Specify IPv4 addresses. IPv6 is not supported.

Type: Array of [TargetAddress \(p. 496\)](#) objects

Array Members: Minimum number of 1 item.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ResolverRuleAssociation

Service: Amazon Route 53 Resolver

In the response to an [AssociateResolverRule](#), [DisassociateResolverRule](#), or [ListResolverRuleAssociations](#) request, provides information about an association between a Resolver rule and a VPC. The association determines which DNS queries that originate in the VPC are forwarded to your network.

Contents

Id

The ID of the association between a Resolver rule and a VPC. Resolver assigns this value when you submit an [AssociateResolverRule](#) request.

Type: String

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

Required: No

Name

The name of an association between a Resolver rule and a VPC.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?!^[0-9]+$)([a-zA-Z0-9-_' ']+)`

Required: No

ResolverRuleId

The ID of the Resolver rule that you associated with the VPC that is specified by `VPCId`.

Type: String

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

Required: No

Status

A code that specifies the current status of the association between a Resolver rule and a VPC.

Type: String

Valid Values: `CREATING` | `COMPLETE` | `DELETING` | `FAILED` | `OVERRIDDEN`

Required: No

StatusMessage

A detailed description of the status of the association between a Resolver rule and a VPC.

Type: String

Length Constraints: Maximum length of 255.

Required: No

VPCId

The ID of the VPC that you associated the Resolver rule with.

Type: String

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

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ResolverRuleConfig

Service: Amazon Route 53 Resolver

In an [UpdateResolverRule](#) request, information about the changes that you want to make.

Contents

Name

The new name for the Resolver rule. The name that you specify appears in the Resolver dashboard in the Route 53 console.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?!^[0-9]+$)([a-zA-Z0-9-_' ']+)`

Required: No

ResolverEndpointId

The ID of the new outbound Resolver endpoint that you want to use to route DNS queries to the IP addresses that you specify in `TargetIps`.

Type: String

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

Required: No

TargetIps

For DNS queries that originate in your VPC, the new IP addresses that you want to route outbound DNS queries to.

Type: Array of [TargetAddress](#) (p. 496) objects

Array Members: Minimum number of 1 item.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Tag

Service: Amazon Route 53 Resolver

One tag that you want to add to the specified resource. A tag consists of a `key` (a name for the tag) and a `value`.

Contents

Key

The name for the tag. For example, if you want to associate Resolver resources with the account IDs of your customers for billing purposes, the value of `key` might be `account-id`.

Type: String

Required: No

Value

The value for the tag. For example, if `key` is `account-id`, then `value` might be the ID of the customer account that you're creating the resource for.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

TargetAddress

Service: Amazon Route 53 Resolver

In a [CreateResolverRule](#) request, an array of the IPs that you want to forward DNS queries to.

Contents

Ip

One IP address that you want to forward DNS queries to. You can specify only IPv4 addresses.

Type: String

Length Constraints: Minimum length of 7. Maximum length of 36.

Required: Yes

Port

The port at `Ip` that you want to forward DNS queries to.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

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

ThrottlingException

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