Networking and Content Delivery › Amazon Route 53 › Pricing

# Amazon Route 53 pricing

With Amazon Route 53, you don't have to pay any upfront fees or commit to the number of queries the service answers for your domain. Like with other AWS services, you pay as you go and only for what you use.

## AWS Pricing Calculator

Calculate your Amazon Route 53 and architecture cost in a single estimate.

Create your custom estimate now

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## Pricing components

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### Authoritative DNS

**Hosted Zones and Records**

- $0.50 per hosted zone per month for the first 25 hosted zones
- $0.10 per hosted zone per month for additional hosted zones

The monthly hosted zone prices listed above are not prorated for partial months. A hosted zone is charged at the time it is created and on the first day of each subsequent month. To allow testing, a hosted zone that is deleted within 12 hours of creation is not charged, however, any queries on public hosted zones will still incur charges at the rates below. Queries on private hosted zones are provided at no additional cost to Route 53 customers.

A hosted zone includes up to 10,000 records. For each record greater than 10,000 per hosted zone, you will be charged $0.0015 per month.

Need more than 500 hosted zones or more than 10,000 records in a hosted zone? Please contact us.

**DNS Queries**

Except for Alias A/AAAA records mapped to AWS services listed below, you incur charges for every DNS query answered by the Route 53 service. These charges include DNS records in your public hosted zones, including queries to Route 53 supported DNS record types and for DNS queries to unsupported DNS record types. Alias A/AAAA records that are mapped to the following AWS services do not incur a charge: Elastic Load Balancers, Amazon CloudFront distributions, AWS Elastic Beanstalk environments, Amazon API Gateways, Amazon VPC endpoints, Amazon S3 buckets that are configured as website endpoints, Amazon AppRunner, Amazon AppSync, Amazon OpenSearch, Amazon LightSail, and Amazon Global Accelerator.

The following query prices are prorated; for example, a public hosted zone with 100,000 standard queries per month would be charged $0.04, and a public hosted zone with 100,000 latency-based routing queries per month would be charged $0.06. Route 53 does not charge for queries on private hosted zones.

**AWS Regions**

| | |
|---|---|
| Standard Queries | $0.40 per million queries (first 1 billion queries per month)<br>$0.20 per million queries (over 1 billion queries per month) |
| Latency-Based Routing Queries | $0.60 per million queries (first 1 billion queries per month)<br>$0.30 per million queries (over 1 billion queries per month) |
| Geolocation and Geoproximity Queries | $0.70 per million queries (first 1 billion queries per month)<br>$0.35 per million queries (over 1 billion queries per month) |
| IP-Based Routing Queries* | $0.80 per million queries (first 1 billion queries per month)<br>$0.40 per million queries (over 1 billion queries per month) |

**AWS GovCloud (US) Regions**

| | |
|---|---|
| **Standard Queries** | $0.50 per million queries (first 1 billion queries per month)<br>$0.25 per million queries (over 1 billion queries per month) |
| **Latency-Based Routing Queries** | $0.72 per million queries (first 1 billion queries per month)<br>$0.36 per million queries (over 1 billion queries per month) |
| **Geolocation and Geoproximity Queries** | $0.84 per million queries (first 1 billion queries per month)<br>$0.42 per million queries (over 1 billion queries per month) |

*No fees are charged for storage of up to 1,000 IP (CIDR) blocks, but you incur charges of $0.0015 per month (prorated hourly) for each stored IP block above 1,000 blocks.

We charge the standard rate for the following DNS queries:

- Queries for which the domain name or subdomain name matches a record name, but not the record type. For example, suppose you create a record for (acme.example.com) and specify a type of A. If we receive queries for (acme.example.com) with a type of AAAA, we'll charge for those queries. Some browsers automatically send both A and AAAA queries for a specified domain or subdomain name, so we recommend that you create both A and AAAA records where applicable.
- Queries for a record that doesn't exist (w.example.com).

### Alias Queries

Queries for Alias records are provided at no additional cost to Route 53 customers, if the Alias records are mapped to any of the following AWS services:

- Elastic Load Balancers
- Amazon CloudFront distributions
- AWS Elastic Beanstalk environments
- Amazon API Gateways
- Amazon VPC endpoints
- Amazon S3 buckets that are configured as website endpoints
- Amazon AppRunner
- Amazon AppSync
- Amazon OpenSearch
- Amazon LightSail
- Amazon Global Accelerator

For more information about mapping Alias records to AWS services, see section Record Type in the Route 53 Developer Guide

You can create alias records for all of the query types that appear on your Route 53 usage report, namely:

- Standard queries (records with failover, multivalue answer, and weighted routing policies), listed as “Intra-AWS-DNS-Queries” on the Route 53 usage report
- Latency-based routing queries (records with latency routing policies), listed as “Intra-AWS-LBR-Queries” on the Route 53 usage report
- Geo routing queries (records with geolocation and geoproximity routing policies), listed as “Intra-AWS-Geo-Queries” on the Route 53 usage report
- IP-based routing queries (records with IP-based routing policies), listed as “Intra-AWS-Cidr-Queries” on the Route 53 usage report

DNS queries are free when both of the following are true:

- The domain or subdomain name (example.com or acme.example.com) and the record type (A) in the query match an alias record.
- The alias target is an AWS resource other than another Route 53 record.

We charge the standard rate for DNS queries for which the domain name and type match a record, but the alias target of the record is a non-alias record in the same hosted zone. We do not charge for DNS queries if you create a chain of alias records that reference other alias records, and the last alias record in the chain references an AWS resource such as an Elastic Load Balancer. For example, suppose a.example.com is an alias record that references another alias record, b.example.com. If b.example.com routes traffic to an AWS resource such as an Elastic Load Balancer, DNS queries are free for both a.example.com and b.example.com.

### API Calls Between Route 53 and Amazon S3

Using the Route 53 console can generate API calls to S3. Actions such as identifying alias record targets send API calls to S3, such as LIST_ALL_MY_BUCKETS. Depending on how many times you initiate this workflow, the API calls made to S3 may cause charges to appear in your S3 bill as LIST requests. See the S3 pricing page for more information.

### Authoritative DNS Query Logs

Route 53 does not charge for authoritative DNS query logs. However, when you configure DNS query logging, you incur Amazon CloudWatch charges in the US East (Virginia) Region including data ingestion, archival storage, and analysis. For information about CloudWatch charges, see the CloudWatch pricing page.

The CloudWatch charges depend on the size of entries in your DNS query logs. For more information, see values that appear in section DNS Query Logs in the Route 53 Developer Guide.

### Traffic Flow

- $50.00 per policy record per month

You create a policy record when you associate a Route 53 Traffic Flow policy with a specific domain name (such as www.example.com) so that the traffic policy manages traffic for this domain name. The monthly price listed above is prorated for partial months. There is no charge for traffic policies that are not associated with a domain name via a policy record.

## Health Checks

### Get Started With DNS Failover At No Additional Cost*

New and existing customers can create up to 50 health checks for AWS endpoints that are within or linked to the same AWS account for free.

| | AWS Endpoints | Non-AWS Endpoints |
|---|---|---|
| Basic health checks (including calculated health checks and metric based health checks) | $0.50 per health check per month | $0.75 per health check per month |
| Optional health check features (including HTTPS, string matching; fast request interval, and latency measurement) | $1.00 per optional health check feature per month | $2.00 per optional health check feature per month |

The monthly health check prices listed above are prorated for partial months.

Need more than 200 health checks? Please contact us.

*New and existing customers are not charged for health checks on up to 50 AWS endpoints (described below) that are within or linked to their AWS account (the "Offer"). The Offer is subject to the AWS Customer Agreement and is a Special Pricing Program under the AWS Service Terms. You will be charged AWS's standard rates for any use that exceeds the usage amount provided at no additional cost under the Offer. Unused usage amounts remaining at the end of the Offer term do not roll over. When calculating your use of AWS services under the Offer, we will aggregate your use across all AWS Regions.

An AWS endpoint is a resource running within AWS (e.g., an Amazon EC2 instance) that is provisioned within the same AWS account as the health check or billed to the same account as the health check. Calculated health checks and metric based health checks are billed as health checks of an AWS endpoint. You are not billed for health checks of Elastic Load Balancing resources or Amazon S3 buckets that are configured as website endpoints. Health checks of Elastic Load Balancing resources and S3 website bucket endpoints are provisioned automatically by AWS and are available at no additional charge as part of Route 53.

## Resolver

### Resolver Endpoints

You can configure Route 53 Resolver endpoints with or without DNS over HTTPS (DoH)* to resolve DNS queries between your on-premises resources and VPCs in the Regions, or between AWS Outposts racks and your other on-premises resources. A Route 53 Resolver endpoint requires two or more IP addresses. Each IP address corresponds with one Elastic Network Interface (ENI). A single outbound endpoint can be used by multiple VPCs that were created by multiple accounts within the same region.

- $0.125 per ENI per hour

### Recursive DNS Queries To and From On-Premises Networks

Only queries that pass through a Route 53 Resolver endpoint (either inbound or outbound) will be charged. Queries that resolve locally using the Route 53 Resolver will not be charged.

- $0.40 per million queries (first 1 billion queries per month)
- $0.20 per million queries (over 1 billion queries per month)

*Resolver endpoints support for DoH is not currently available for AWS Outposts rack.

### Resolver Query Logs

Route 53 does not charge for VPC Resolver query logs. However, when DNS query logging is configured, Amazon CloudWatch, Amazon S3 or Amazon Kinesis Data Firehose charges will be incurred depending upon the target destination chosen for your logs. For information about log charges, see the Logs section on the CloudWatch pricing page.

## Global Resolver

**During preview period, customers will not be charged for Global Resolver.**

Route 53 Global Resolver uses a two-part pricing model based on regional deployment and query volume.

### Regional Hourly Charges

- The first two AWS Regions are bundled for a single price of $5.00 per hour ($4.50 per hour without DNS filtering).
- Additional regions: $1.50 per hour per region ($0.75 per hour without DNS filtering).
- Customers are metered on a pro-rated basis for regions instantiated during the month.

### Query Volume Charges

- $1.50 per million queries beyond the first 1 billion queries per Global Resolver deployment per month.

## Domains

### Domains

Pricing for domain names varies by TLD. View a full list of current pricing by TLD. Domain names are registered in annual increments. Prices listed are per domain per year unless otherwise noted. We do not currently offer volume discount pricing for domain registrations.

You may not use Promotional Credit for any fees or charges for Route 53 domain name registration. For more information regarding use of Promotional Credits, please click here.

There is a default limit of 20 domain name registrations per account. To request a higher limit, please contact us.

## Route 53 Profiles

**Route 53 Profiles**

For Route 53 Profiles, the hourly rate is $0.75 per AWS account for up to 100 Profile-VPC associations pertaining to the Profiles created by an account in an AWS Region. Beyond the initial 100 associations, there is a charge of $0.0014 per Profile-VPC association per hour per AWS Region. The hourly rate of the base tier of the first 100 Profile-VPC associations includes associations across all Profiles owned by the AWS account in an AWS Region.

**Pricing Example #1**
An AWS account creates 3 Profiles in the US East (N. Virginia) region. Each Profile is associated with 30 VPCs in the account, totaling 90 VPCs across 3 Profiles.

Total Profile-VPC associations = 30 + 30 + 30 = 90

At the end of a 30-day month, your AWS account would incur the following costs for Route 53 Profiles =
[$0.75 (per hour) (for first 100 VPCs) + Total of VPC associations beyond 100 * $0.0014] x [24 hours x 30 days]
= [$0.75 + $0] x 720
= $540

**Pricing Example #2**
An AWS account creates a Profile in the US East (N. Virginia) region. The Profile is associated with 50 VPCs in the account. The Profile is also shared with another AWS Account (using AWS Resource Access Manager) which associates the Profile to 50 VPCs in its account.

Total Profile-VPC associations = 100 (50 in owner account + 50 in shared account)

At the end of a 30-day month, your AWS account would incur the following costs for Route 53 Profiles =
[$0.75 (per hour) (for first 100 VPCs) + Total of VPC associations beyond 100 * $0.0014] x [24 hours x 30 days]
= [$0.75 + $0] x 720
= $540

**Pricing Example #3**
An AWS account creates a Route 53 Profile in the US East (N. Virginia) region that is associated with 200 VPCs in its account.

Total Profile-VPC associations = 200

At the end of a 30-day month, your AWS account would incur the following costs for Route 53 Profiles =
[$0.75 (per hour) (for first 100 VPCs) + Total of VPC associations beyond 100 * $0.0014] x [24 hours x 30 days]
= [$0.75 + 100 x $0.0014] x 720
= $640.8

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**Resolver DNS Firewall**

**Resolver DNS Firewall**

**DNS Queries**

We charge for DNS queries originating from within VPCs that have firewall rule group associations and DNS queries traversing inbound Resolver endpoints from on-premises networks into VPCs that have firewall rule group associations. Please note that any DNS queries that result from following CNAMEs are also charged.

- $0.60 per million queries (first 1 billion queries per month)
- $0.40 per million queries (over 1 billion queries per month

**Domain Names**

We charge a fee for each domain name stored in a domain list within a rule group. No fees are charged for domain names within managed domain lists.

- $0.0005 per month (prorated hourly)

**Resolver DNS Firewall Advanced**

We charge an hourly fee for each DNS Firewall rule group which contains one or more DNS Firewall Advanced rules, per VPC association in an AWS Region. All charges are aggregated per month and prorated hourly. A VPC association for a DNS Firewall rule group can be made by an account within a region.

- $0.16 per hour

**Managed Domain Lists**

When using managed domain lists within your firewall rules, you are not charged for the domain names fee above, but you are charged for the DNS queries that are inspected against the rules which use managed domain lists.

**Pricing Examples**

**Example #1**

An AWS account associates DNS Firewall rule groups to a single VPC, containing DNS Firewall rules for blocking domains listed in the Managed Domain List. The rule group inspects 1 billion queries during the billing month.

At the end of a 30-day month, your AWS account would incur the following costs for Route 53 Resolver DNS Firewall

= $0.60 per million queries * (1 billion queries)

**= $600 per month**

**Example #2**

An AWS account associates DNS Firewall rule groups to a single VPC, containing DNS Firewall rules for blocking domains listed in the Managed Domain List. The rule group inspects 2 billion queries during the billing month.

At the end of a 30-day month, your AWS account would incur the following costs for Route 53 Resolver DNS Firewall

= $0.60 per million queries *(1 billion queries) + $0.40 per million queries* (1 billion queries)

= $600 +$400

**= $1,000 per month**

**Example #3**

An AWS account associates DNS Firewall rule groups to a single VPC, containing DNS Firewall Advanced rules for blocking DNS traffic associated with Domain Generated Algorithms (DGAs) and DNS Tunneling. The rule group is associated to the VPC for 24 hours and 30 days, during the billing month. The account does not have any other DNS Firewall rules associated to the VPC, besides the DNS Firewall Advanced rules.

At the end of the month, your AWS account would incur the following costs for Route 53 Resolver DNS Firewall

= $0.16 per hour *(24 hours* 30 days)

**= $115.20 per month**

**Example #4**

An AWS account associates DNS Firewall rule groups to a single VPC, containing DNS Firewall Advanced rules for blocking DNS traffic associated with Domain Generated Algorithms (DGAs) and DNS Tunneling. The rule group is associated to the VPC for 24 hours and 30 days, during the billing month. Besides the DNS Firewall Advanced rules, the rule group also contains rules to block domains listed in the Managed Domain Lists and inspects 1 billion queries during the billing month.

At the end of the month, your AWS account would incur the following costs for Route 53 Resolver DNS Firewall

= $0.16 per hour (*24 hours* 30 days) + $0.60 per million queries * (1 billion queries)

= $115.20 + $600

**= $715.20 per month**

**Example #5**

An AWS account associates DNS Firewall rule groups to a single VPC, containing DNS Firewall Advanced rules for blocking DNS traffic associated with Domain Generated Algorithms (DGAs) and DNS Tunneling. The rule group is associated to the VPC 24 hours per day for 10 days, during the billing month.

At the end of the month, your AWS account would incur the following costs for Route 53 Resolver DNS Firewall. The costs will be prorated for only the 10 days of the month when the rule group, containing DNS Firewall Advanced rules were associated to the VPC.

= $0.16 per hour (*24 hours* 10 days)

**= $38.40 per month**

**Additional Features** —

**DNSSEC**

Route 53 does not charge you to enable DNSSEC signing on your public hosted zones or to enable DNSSEC validation for Route 53 Resolver. However, when you enable DNSSEC signing on your public hosted zones, you incur AWS Key Management Service (KMS) charges for storing the private key and using the instances of the key to sign your zones. For more information about KMS charges, see section KMS key and ZSK management in Route 53 in the Route 53 Developer Guide and the KMS pricing page.

Note that you can choose to use a single customer-managed AWS KMS key that is stored in KMS across multiple public hosted zones.

## Additional pricing resources

### AWS Pricing Calculator

Easily calculate your monthly costs with AWS

→

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