

AWS Content Delivery and DNS Services

- Get the broadest and deepest set of networking and content delivery services in the world with AWS. Run applications with the highest level of reliability, security, and performance in the cloud.
- This category of AWS services includes services for caching content around the world and providing intelligent Domain Name System (DNS) services for your applications.

Amazon Route 53

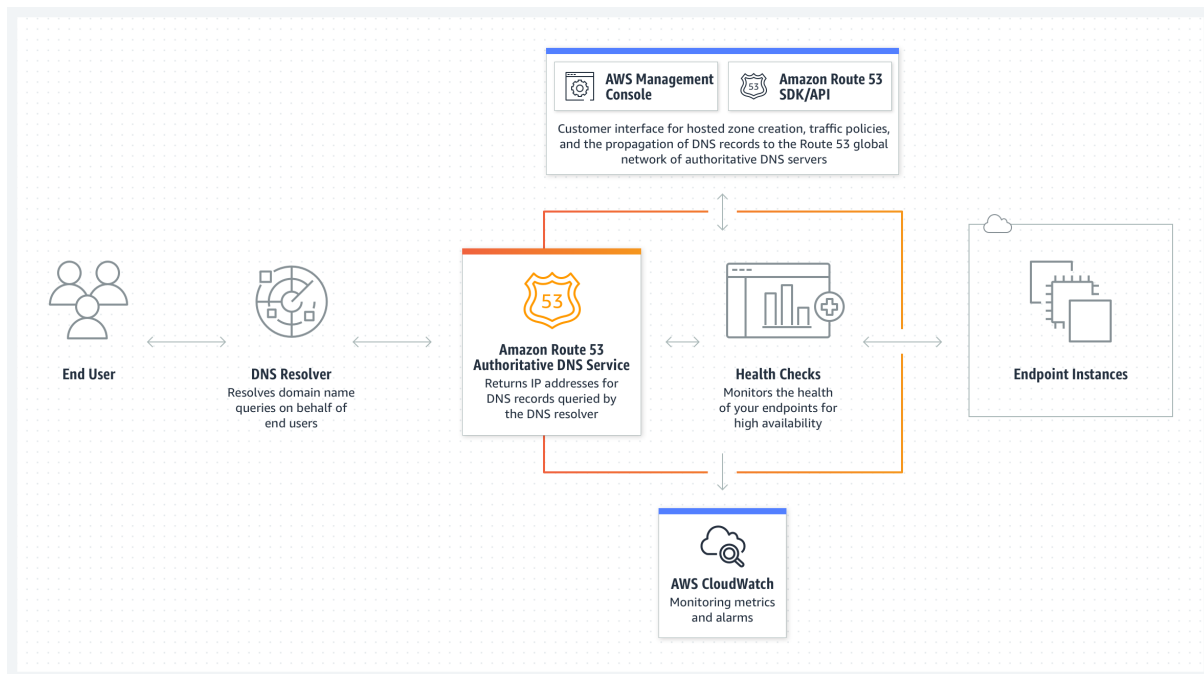
- A reliable and cost-effective way to route end users to Internet applications
- Amazon Route 53 is a highly available and scalable cloud DNS web service. It allows you to register new domain , manager existing domains. It routes end users to internet applications by translating names like www.google.com to somthing like 16.20.10.1

Benefits of Route 53

1. Route end users to your site reliably with globally-dispersed Domain Name System (DNS) servers and automatic scaling.
2. Set up your DNS routing in minutes with domain name registration and straightforward visual traffic flow tools.
3. Customize your DNS routing policies to reduce latency, improve application availability, and maintain compliance.

How it works

Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service. Route 53 connects user requests to internet applications running on AWS or on-premises.



Use cases

- Manage network traffic globally
- Build highly available applications
- Set up private DNS

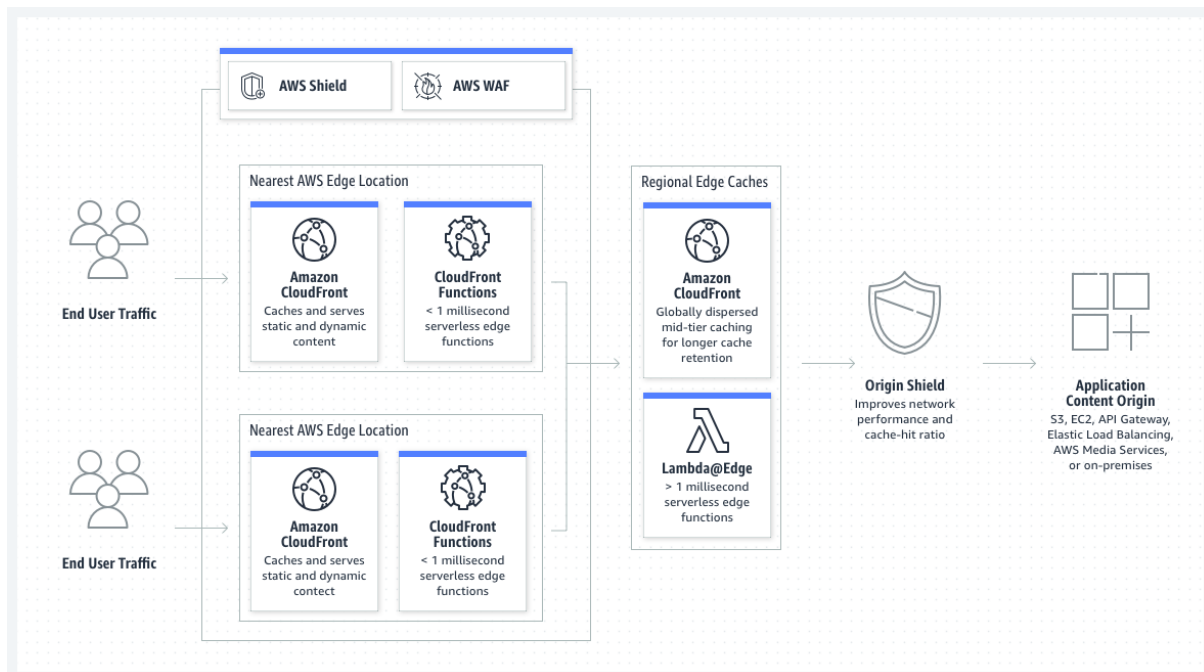
Amazon CloudFront

It is a content delivery network(CDN) operated by AWS. CloudFront has additional servers called edge locations which are connected to aws regions. Protected by aws shield and WAF. You can do HTTP header manipulation on CloudFront Functions.

- Amazon CloudFront Securely deliver content with low latency and high transfer speeds

How it works

Amazon CloudFront is a content delivery network (CDN) service built for high performance, security, and developer convenience.



Use cases

1. Deliver fast, secure websites
2. Accelerate dynamic content delivery and APIs
3. Stream live and on-demand video
4. Distribute patches and updates

CloudFront benefits:

- Cache content at Edge Location for fast distribution to customers.
- Built-in Distributed Denial of Service (DDoS) attack protection.
- Integrates with many AWS services (S3, EC2, ELB, Route 53, Lambda).

AWS Transit Gateway

AWS Transit Gateway connects your Amazon Virtual Private Clouds (VPCs) and on-premises networks through a central hub. This connection simplifies your network and puts an end to complex peering relationships. Transit Gateway acts as a highly scalable cloud router—each new connection is made only once.

