

Route53 & DNS & CloudFront

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What is Route 53?

Simplified Definition:

Route 53 is where you *configure and manage web domains for websites or applications you host on AWS.*

AWS Definition:

"Amazon Route 53 performs three main functions:

Domain registration – Amazon Route 53 lets you register domain names such as example.com.

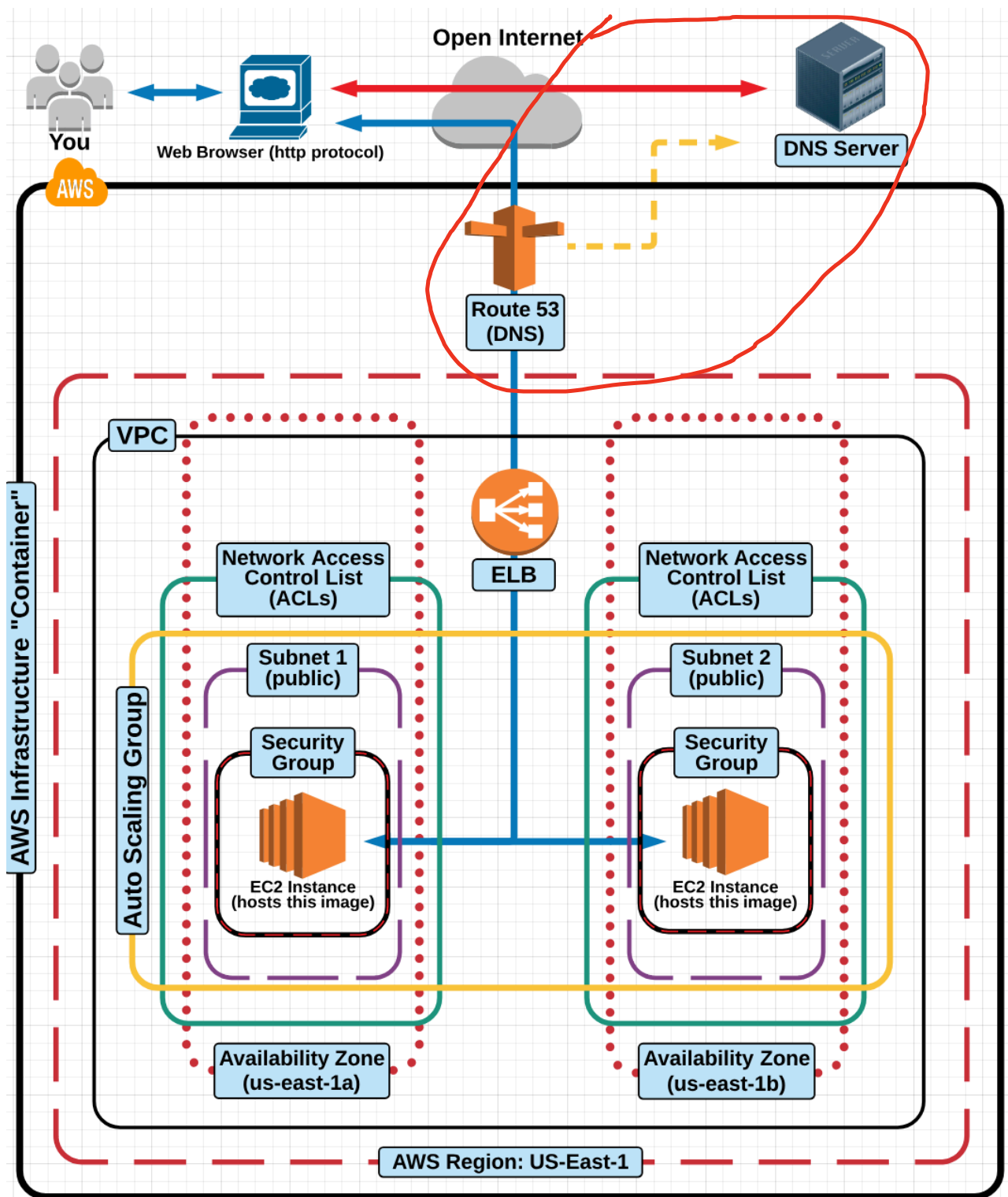
Domain Name System (DNS) service – Amazon Route 53 translates friendly domains names like www.example.com into IP addresses like 192.0.2.1. Amazon Route 53 responds to DNS queries using a global network of authoritative DNS servers, which reduces latency.

Health checking – Amazon Route 53 sends automated requests over the Internet to your application to verify that it's reachable, available, and functional.

You can use any combination of these functions. For example, you can use Amazon Route 53 as both your registrar and your DNS service, or you can use Amazon Route 53 as the DNS service for a domain that you registered with another domain registrar."



Route 53



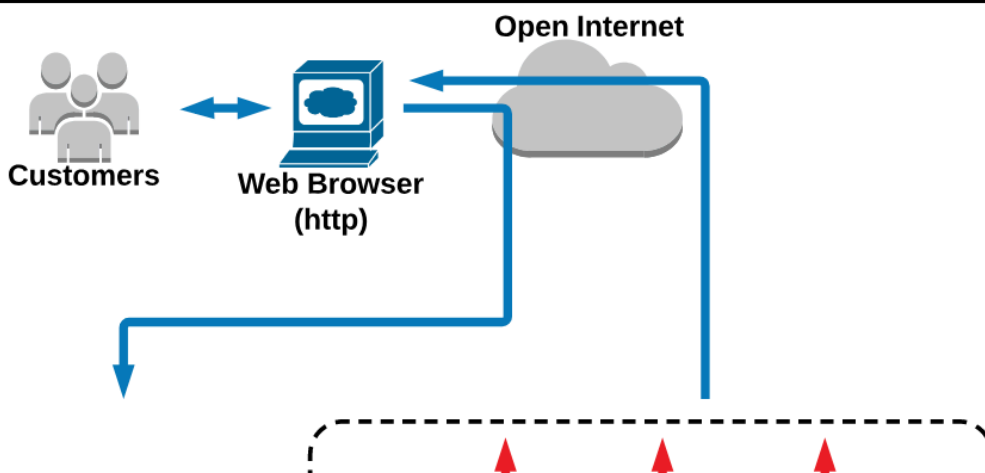
What is CloudFront?

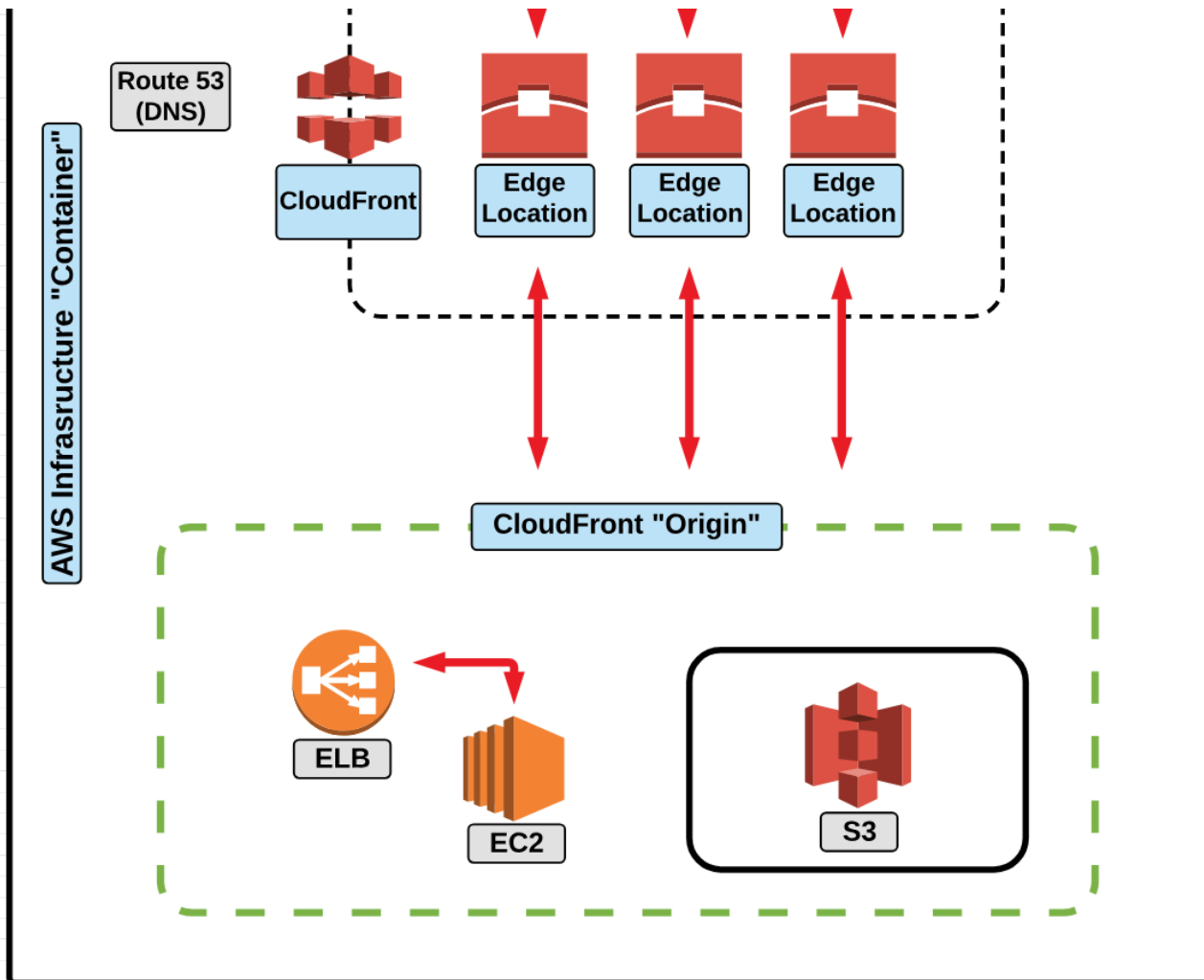
Simplified Definition:

CloudFront is a Content Delivery Network (CDN) that allows you to store (cache) your content at "edge locations" located all around the world. This allows your customers to access your content more quickly (and also provides additional security - especially against DDOS attacks).

AWS Definition:

Amazon CloudFront is a global content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to your viewers with low latency and high transfer speeds. CloudFront is integrated with AWS – both physical locations that are directly connected to the AWS global infrastructure, as well as software that works seamlessly with services including AWS Shield for DDoS mitigation, Amazon S3, Elastic Load Balancing or Amazon EC2 as origins for your applications, and AWS Lambda to run custom code close to your viewers.





Route 53 & CloudFront Benefits:

Route 53:

- (1) Domain registration
- (2) Domain Name System (DNS) service
- (3) Traffic Flow (send users to the best endpoint)
- (4) Health checking *running check*
- (5) DNS Failover (Automatically change domain endpoint if system fails)
- (6) Integrates with ELB, S3, and CloudFront as endpoints

CloudFront:

- (1) Cache content at Edge Locations for fast distribution to customers
- (2) Built-in Dedicated Denial of Service (DDoS) attack protection

(2) Built in Dedicated Denial of Service (DDoS) attack protection

(3) Integrates with many AWS services (S3, EC2, ELB, Route 53, Lambda)