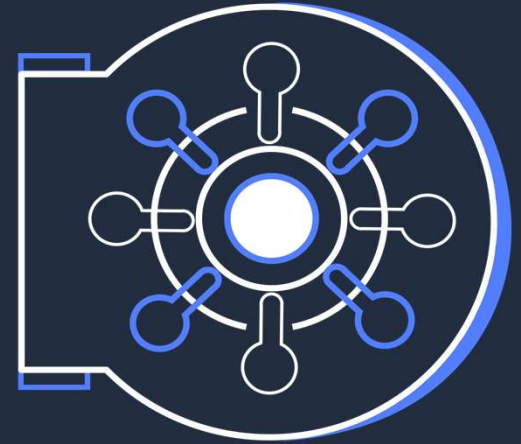


AWS TECHSHIFT

EMBARK

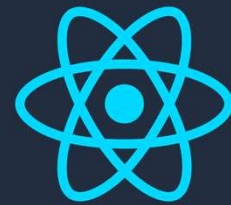


Static Web Hosting

A **static website** delivers content in the same format in which it is stored **without altering** the contents of the files. **No server-side** code execution is required.



Angular



React

React JS

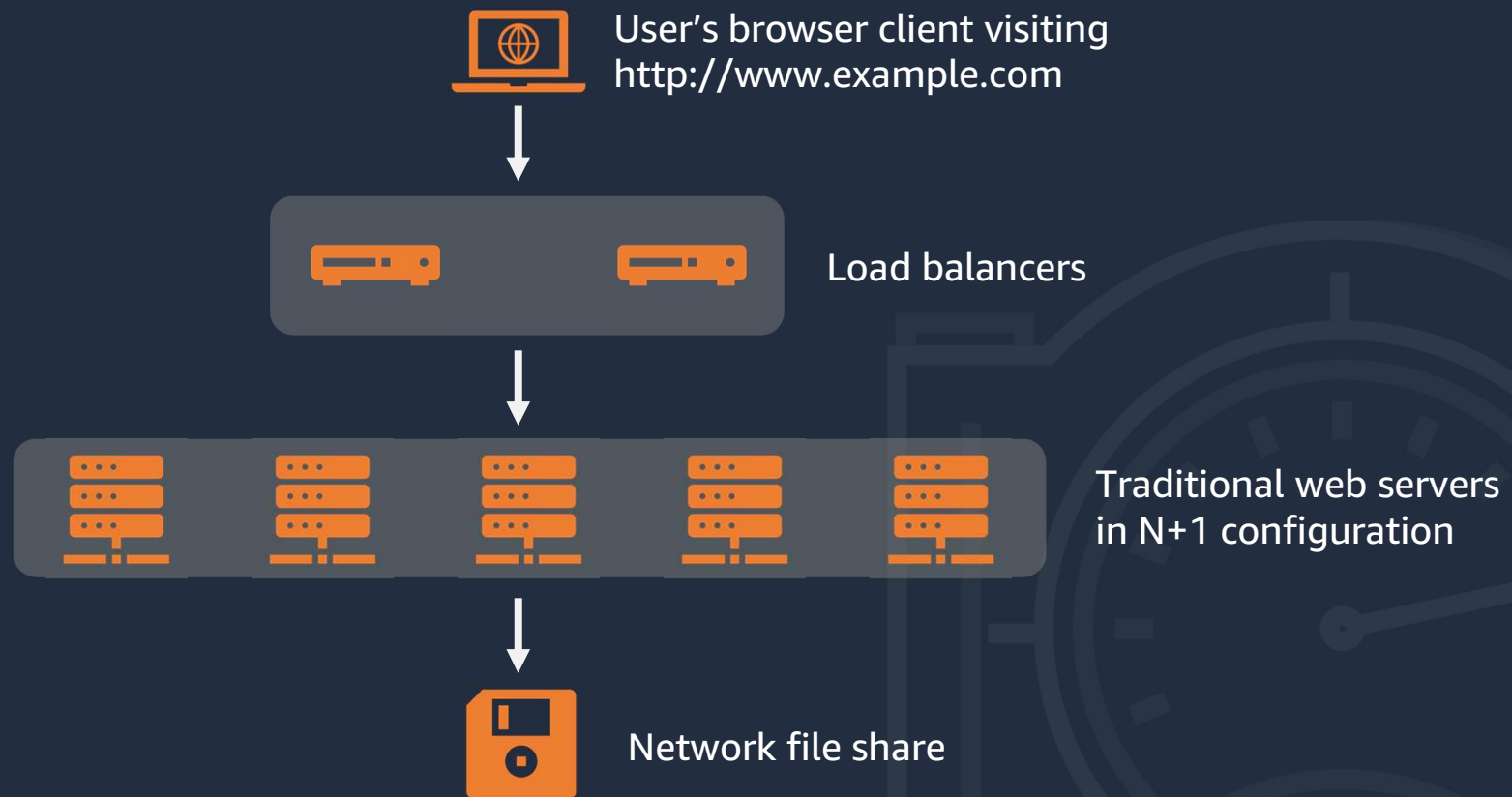


VueJS

HTML



HTML 5 + JavaScript



We care about performance and efficiency we need
to shift some load around...

- Non-hierarchical object store
- Industry-leading performance, scalability, availability, and durability
 - 11 9's durability
- Wide range of cost-effective storage classes
 - Standard, Standard-IA, One Zone-IA, Glacier & Glacier Deep Archive
 - Intelligent-Tiering - Optimize costs by automatically moving data to the most cost-effective access tier
 - Lifecycle rules
- Good for things like:
 - Static assets (css, js, images, videos)
 - Backups
 - Logs



AWS TECHSHIFT S3 Storage classes

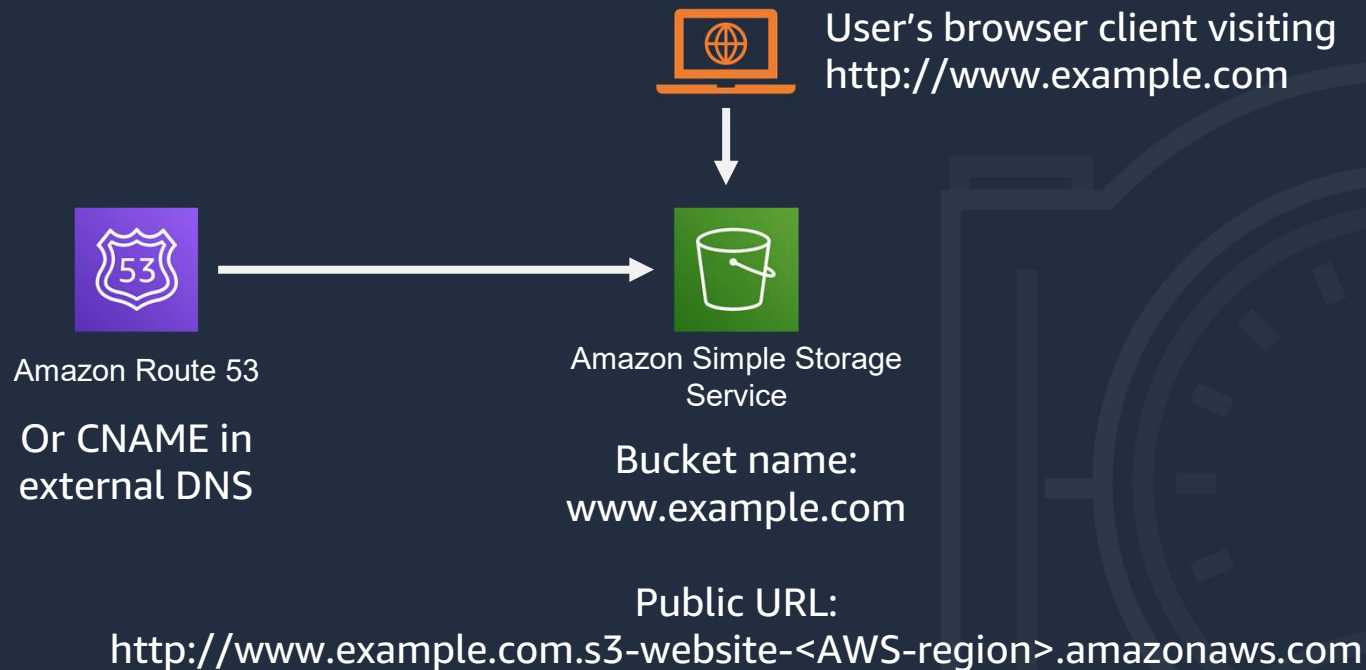


	S3 Standard	S3 Intelligent-Tiering	S3 Standard-IA	S3 One Zone-IA	S3 Glacier	S3 Glacier Deep Archive
Design Durability	99.999999999%	99.999999999%	99.999999999%	99.999999999%	99.999999999%	99.999999999%
Design Availability	99.99%	99.9%	99.9%	99.5%	99.99%	99.99%
SLA	99.9%	99%	99%	99%	99.9%	99.9%
Availability Zones	3+	3+	3+	1	3+	3+
Retrieval Fee	-	-	Per GB	Per GB	Per GB	Per GB
First Byte Latency	Milliseconds	Milliseconds	Milliseconds	Milliseconds	Select minutes or hours	Select hours

Secure by default, but access can be granted using;

- AWS Identity and Access Management
- Access Control Lists
- Bucket Policies
- Query String Authentication and Signed URLs

Amazon Simple Storage Service (Amazon S3) can host static websites without a need for a web server. The website is highly performant and scalable at a fraction of the cost of a traditional web server.

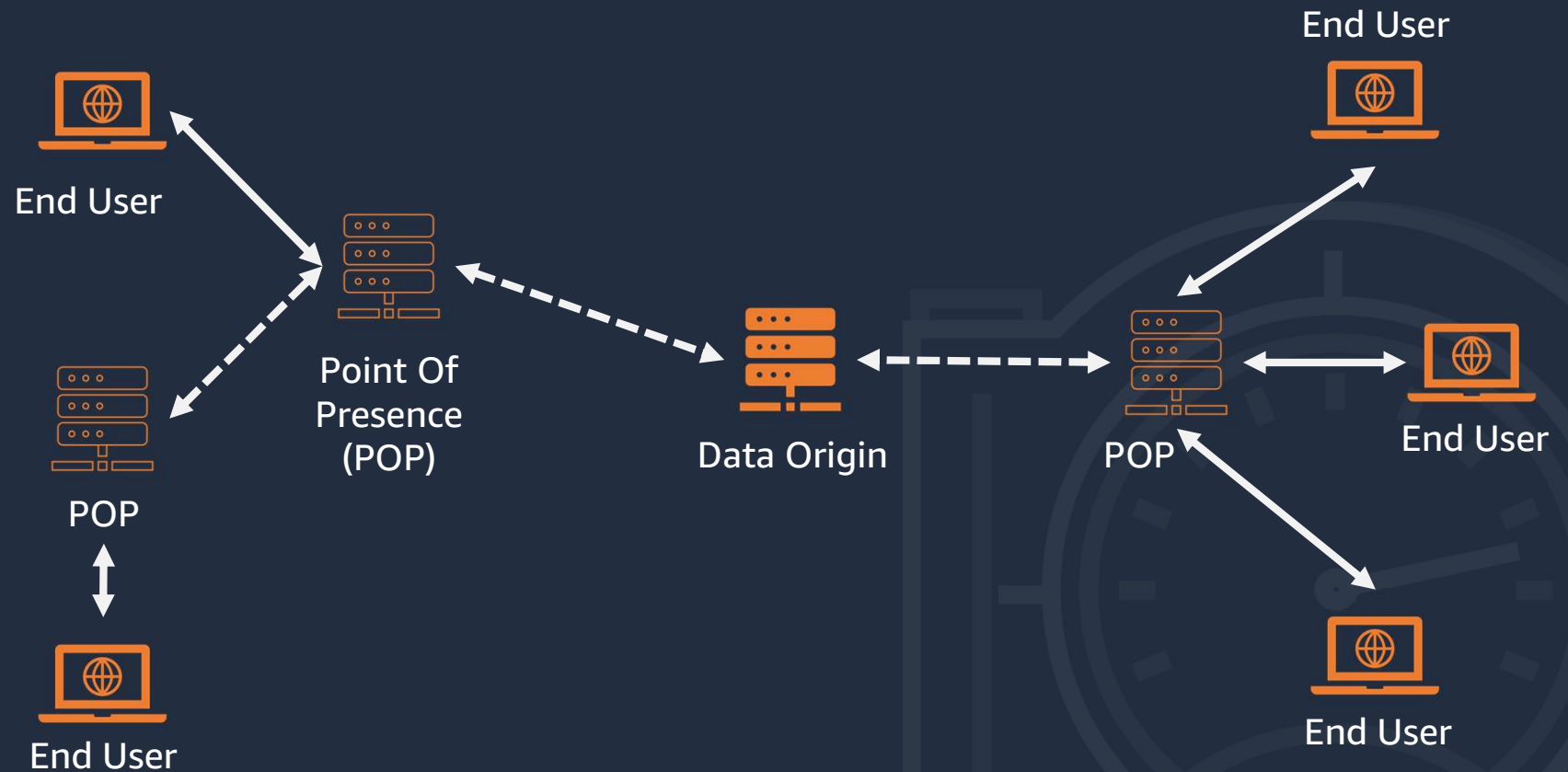


Amazon S3 enforces a security-by-default policy, we must grant the public access to read our files.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": [
        "s3:GetObject"
      ],
      "Resource": [
        "arn:aws:s3:::S3_BUCKET_NAME_GOES_HERE/*"
      ]
    }
  ]
}
```

But S3 stores files in a single region. Lets get the files closer to our users...

Content delivery network

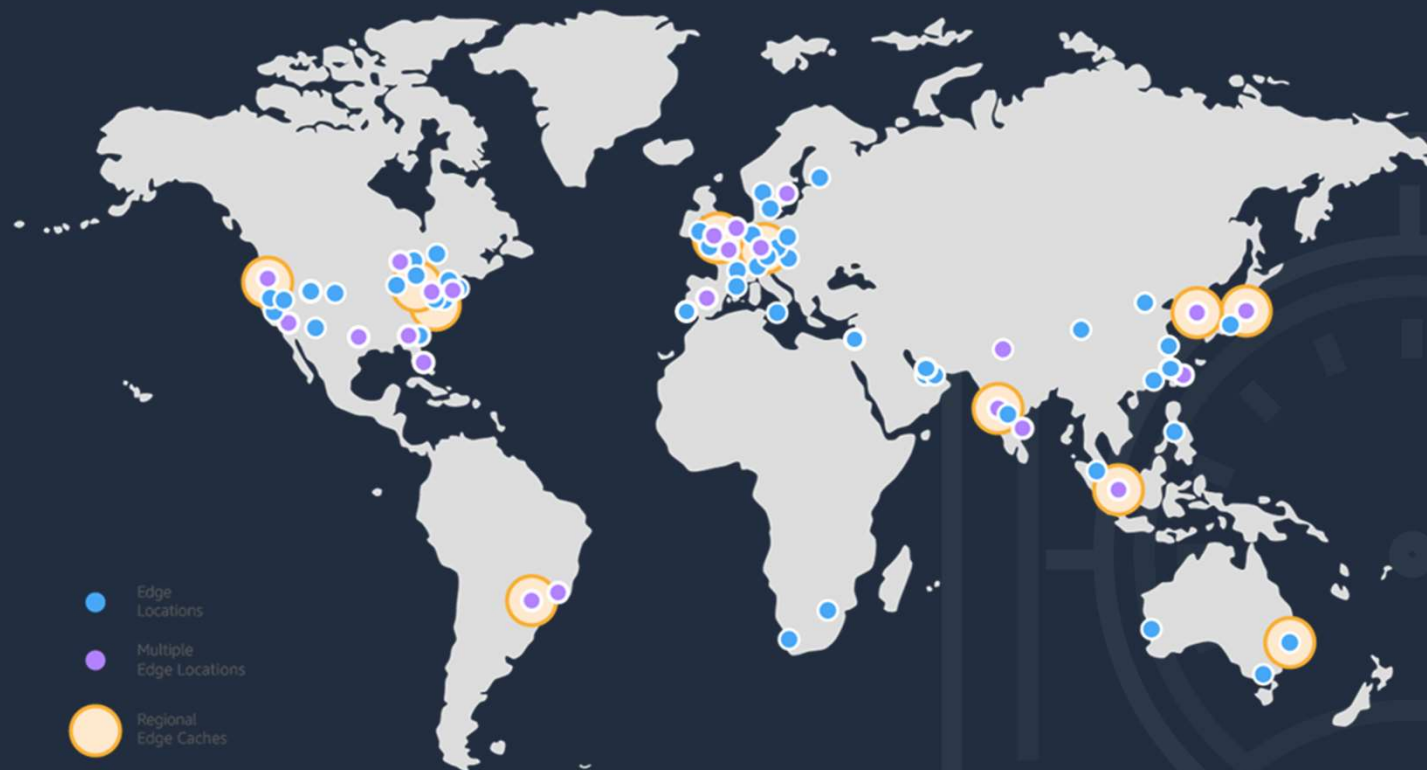


Amazon CloudFront is a web service for scalable content delivery.

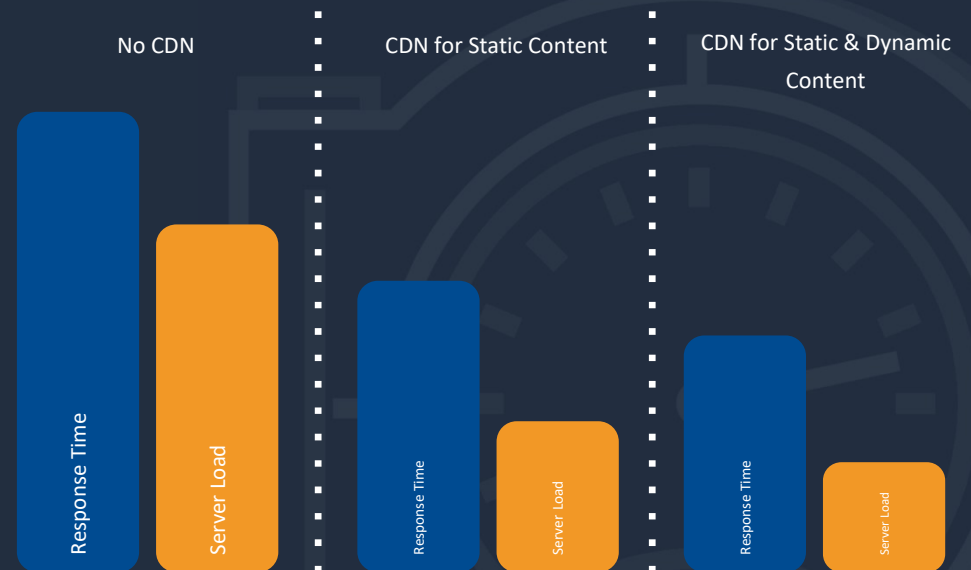
- Cache content at the edge locations around the world for faster delivery
- Helps lower load on origin infrastructure
- Dynamic and static content
- Streaming video
- Zone apex support
- Custom SSL certificates
- Low TTLs (as short as 0 seconds)
- Optimized to work with EC2, Amazon S3,
Elastic Load Balancing, and Route53



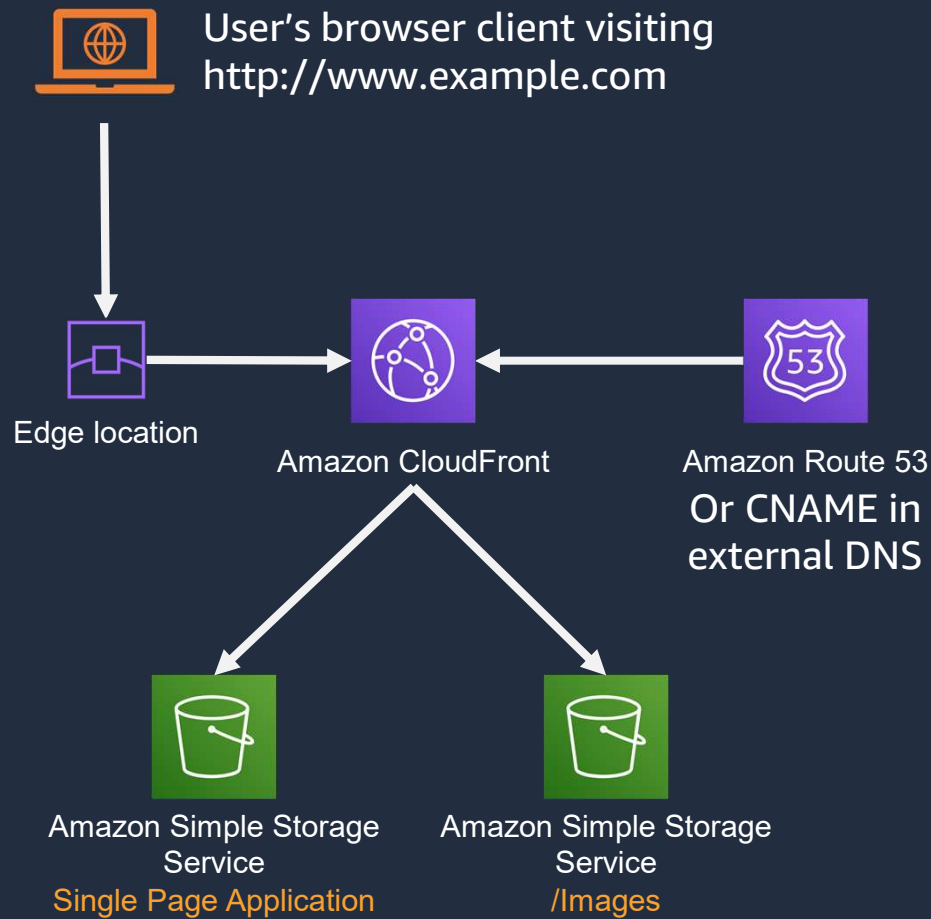
Amazon CloudFront uses a global network of 191 Points of Presence (180 Edge Locations and 11 Regional Edge Caches) in 73 cities across 33 countries.



- Dynamic content & API acceleration
- Lambda@Edge
- Upload Acceleration
- Multiple Origins



AWS TECHSHIFT Hosting a static website



```
{
  "Sid": "PublicReadGetObject",
  "Effect": "Allow",
  "Principal": "CFOriginAccessIdentity",
  "Action": [
    "s3:GetObject"
  ],
  "Resource": [
    "arn:aws:s3:::S3_BUCKET_NAME_GOES_HERE/*"
  ]
}
```


End