

AWS Cloud Practitioner Training

Module 06

Other Services

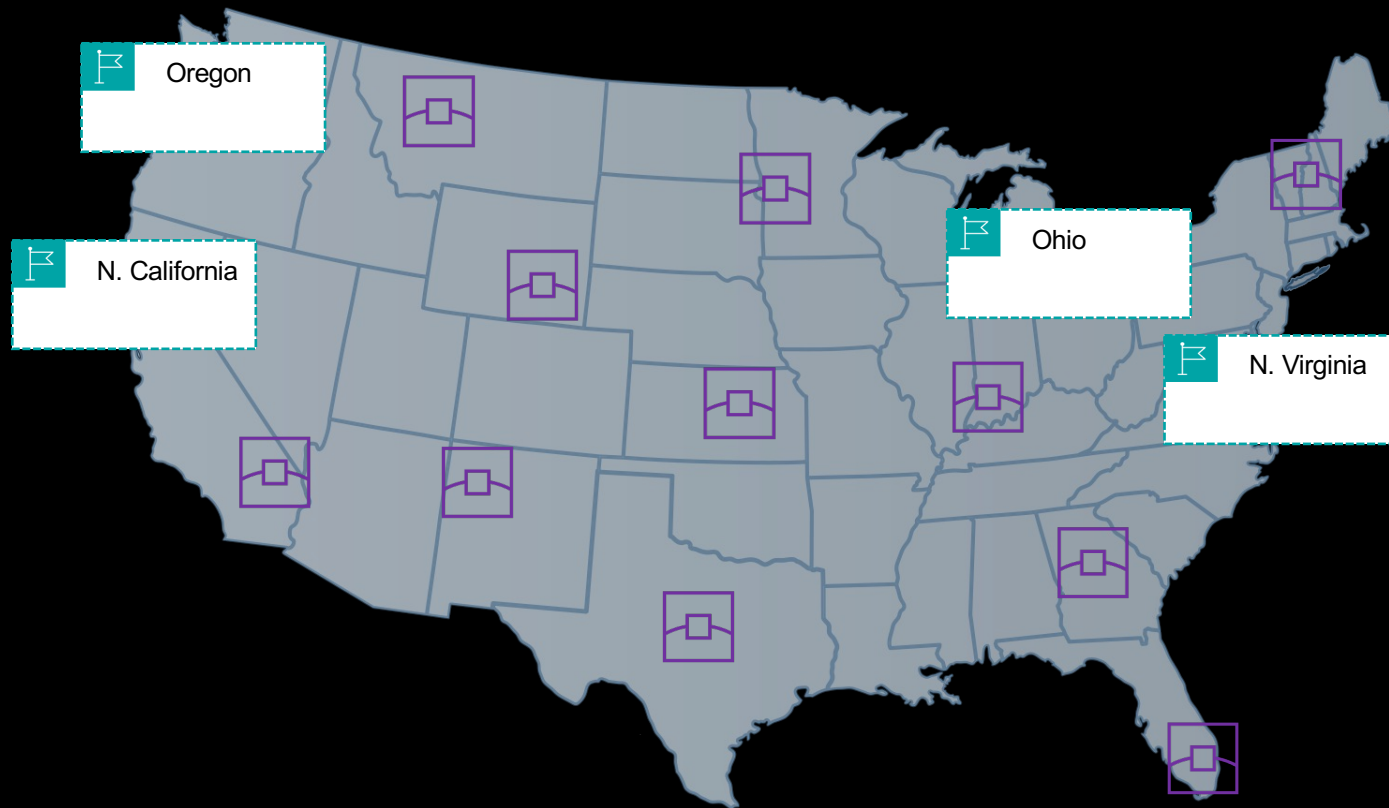
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Regions



What do we
do if our
users are not
close to any
REGION?

Regions & Edge Locations



NOTE:
This map isn't
meant to
specify exact
locations, just
the general
concept.

CloudFront – a Content Delivery Network

CDN

A Content Delivery Network (CDN) lets us cache content files closer to the user



Key Points

- Leverages many, many EDGE LOCATIONS (sometimes call Points Of Presence or POPs)
- These Edge Locations can be used to **cache (store a temporary copy) of files** – HTML, JavaScript, images , photos, etc.
- Because these locations are numerous – there's likely to be one close to your user base. **And that means LOWER LATENCY (a faster web site!)**
- The content files are automatically DISTRIBUTED to these locations on-demand
- The content files are TEMPORARILY stored for some duration (known as the TTL or Time To Live)
- **SUPERPOWER:** For a simple static web site, you can host it in CloudFront – and you don't have to run and maintain an expensive web server

Let's create a simple static web site and host it via CloudFront...

NOTE: "Static" means there's no server-side code or database

Route 53 – DNS (Domain Name System)

DNS

Manage custom DNS Names with powerful features



Key Points

- The DNS (Domain Name System) is what resolves friendly domain names (like www.amazon.com or www.awstrainer.com) to IP addresses
- With Route 53 we can register a custom DOMAIN NAME and then create a NAME record and associate it with our CloudFront hosted web site.
- Route 53 supports all the expected DNS record types: A, AAAA, CNAME, etc.

TIP: Route “53” gets its name from the network port used for DNS traffic – which is port 53.

AWS Certificate Manager (ACM)

Public Certificates for your Web Site



Key Points

- All web sites should be hosted using HTTPS (Hyper Text Transfer Protocol –Secure) not HTTP
- The difference is that HTTPS uses a temporary ENCRYPTED connection between your browser and the web server – so no middle-man can SPY on your information.
- A “Certificate” from a trusted authority must be issued to create this encrypted connection and to allow the user to have confidence they are visiting a legitimate website.
- ACM can be used to create these certificates – and you can associate them with your CloudFront distributions, Elastic Load Balancers, and more.

Links

- CloudFront: <https://aws.amazon.com/cloudfront/>
- AWS Certificate Manager (ACM) : <https://aws.amazon.com/certificate-manager/>