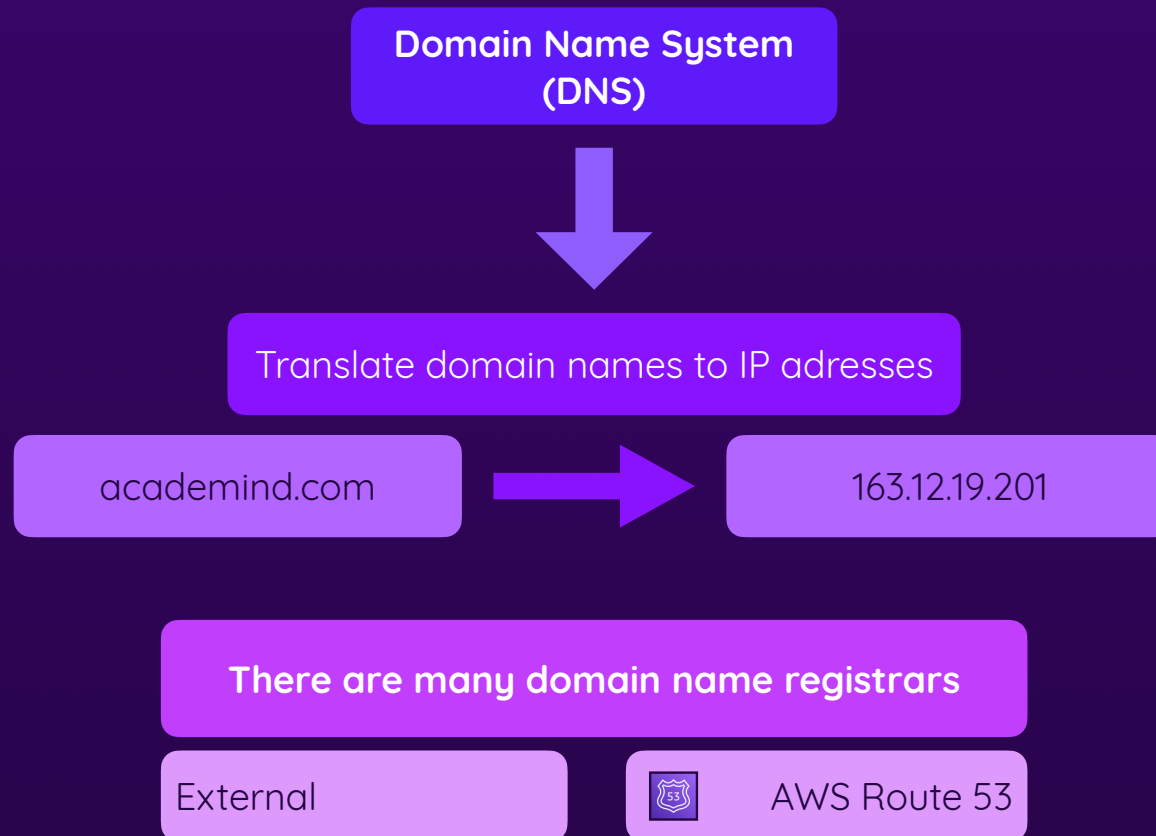


Content Delivery & Global Networking

From servers to users (and back)

- ▶ Managing Custom Domains
- ▶ Caching & Delivering Content via CloudFront
- ▶ Other Networking Features & Services

Understanding DNS



Understanding Route 53



Managed DNS Service

Manage Domains

Register or transfer domains

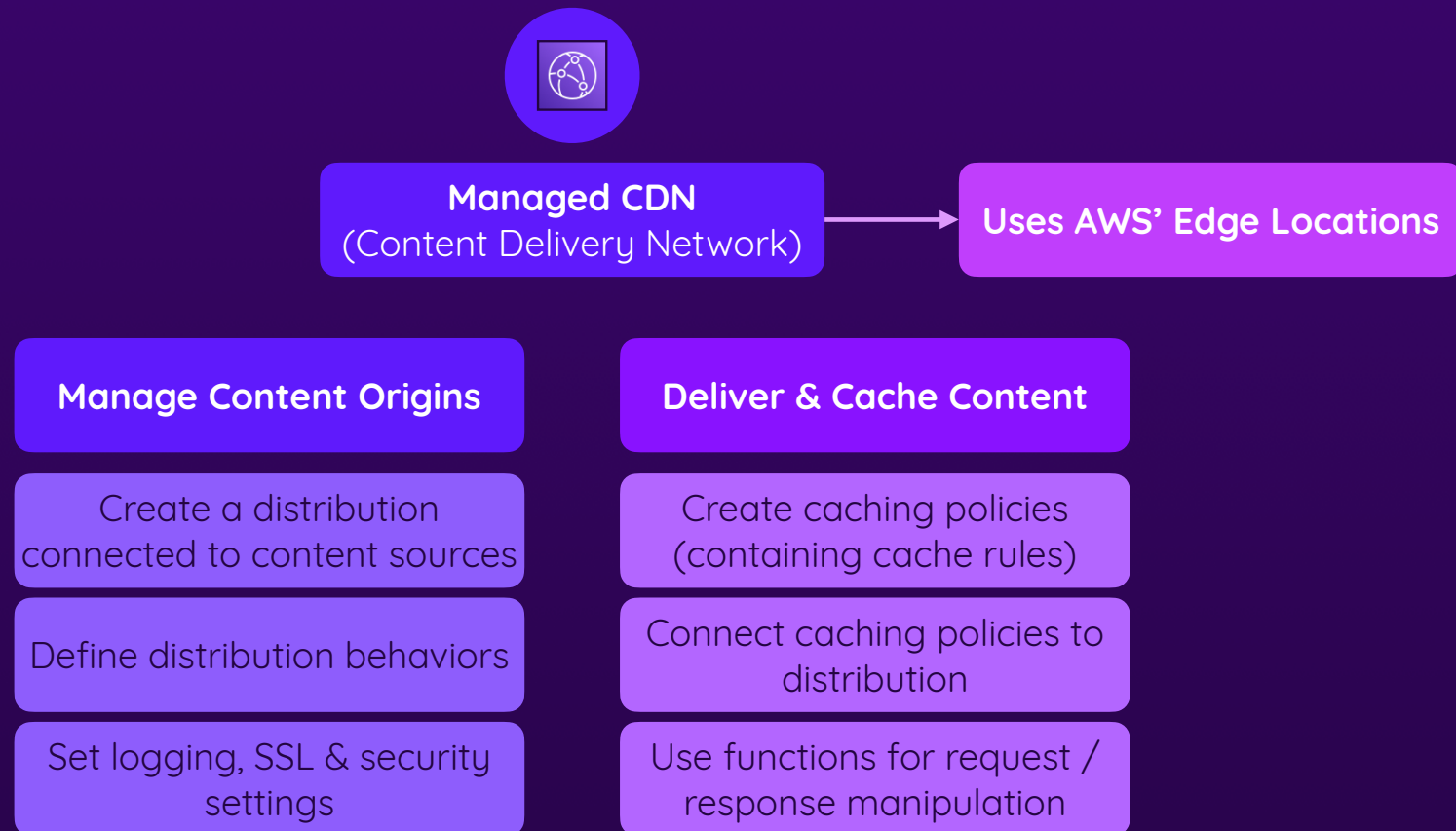
Create hosted zones for domains (config containers)

Manage DNS

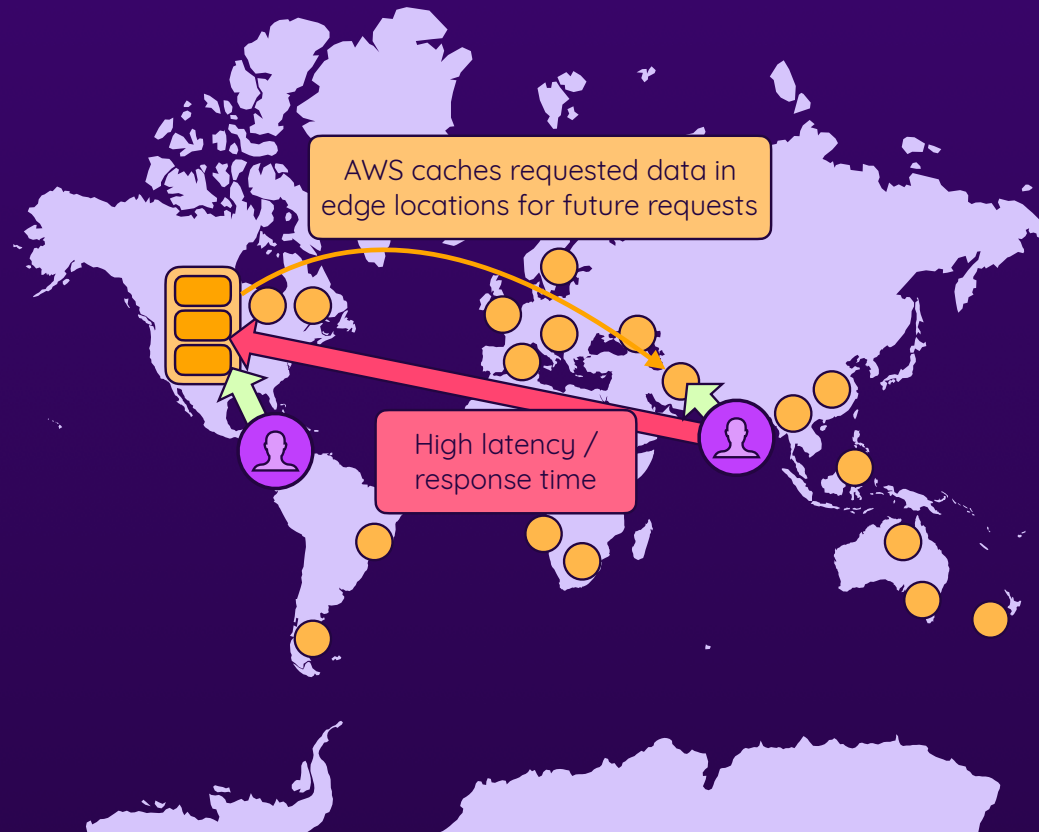
Create routing records

Manage failover or create complex routing rules

Delivering Content with CloudFront



Understanding CDNs



Local Zones, Outposts, Wavelength



Local Zones

Smaller AWS regions close to big metropolitan areas

Perfect for achieving ultra-low latency

Limited set of supported services

Extends VPCs to local zones



Outposts

Add AWS infrastructure to your on-premises

AWS-managed infrastructure

Limited set of supported services

Extends VPCs to outposts



Wavelength Zones

AWS services embedded into 5G networks

Perfect for achieving lowest latency possible

Limited set of supported services

Connect to other services running in a region

Global Accelerator & Transfer Acceleration



Global Accelerator

Improve user traffic performance via AWS network

Receive two unique, stable IP addresses

Use GA for balancing multi-region traffic

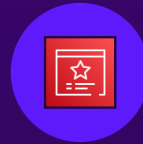


S3 Transfer Acceleration

Improve data transfer speed via AWS edge network

Less network variability, more bandwidth utilization

AWS Certificate Manager (ACM)



Managed SSL Certificates

Request Certificates

Request new SSL certificates

Issued by AWS, free to use
for AWS services

Alternative: Import your own
certificate

Assign Certificates

Use SSL certificates with a
variety of AWS services

Examples: ALB, NLB,
CloudFront

Services handle SSL
encryption

Summary



Various Networking Services

VPC: Cloud-internal

Route 53: DNS service
Register domains, define routes

CloudFront: CDN service, using
AWS edge locations

**Local Zones, Outposts,
Wavelength:** Extended regions

**Global Accelerator, Transfer
Acceleration:** Traffic acceleration



Route 53 & CloudFront

Register & manage domains with
Route 53

Define request forwarding rules
for (sub-)domains

Use CloudFront for distributing
(cached) content globally

Target (and “wrap”) other
services with CF / Route 53



AWS Network & Acceleration Services

Local Zones, Wavelength: Run
services closer to your customers

Outposts: Run services closer to
your infrastructure

Accelerate traffic or data (file)
transfers with accelerators