

API Gateway

Create, maintain, and secure APIs at any scale

Rest APIs

/users	=>	GET
	=>	POST
	=>	DELETE
/books	=>	GET
	=>	PUT



Resources



Methods/Verbs

Query Params and Body Object

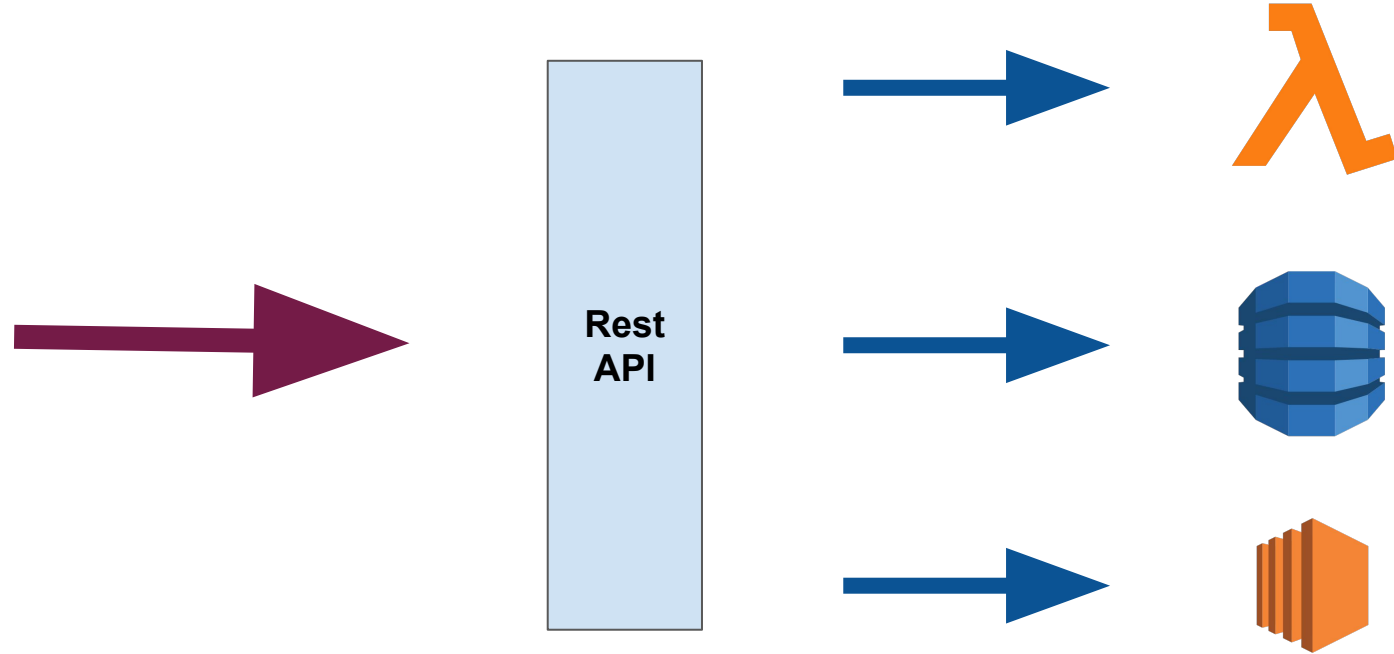
GET Requests

my-website/users?user_name=jacob

POST, PUT, etc...

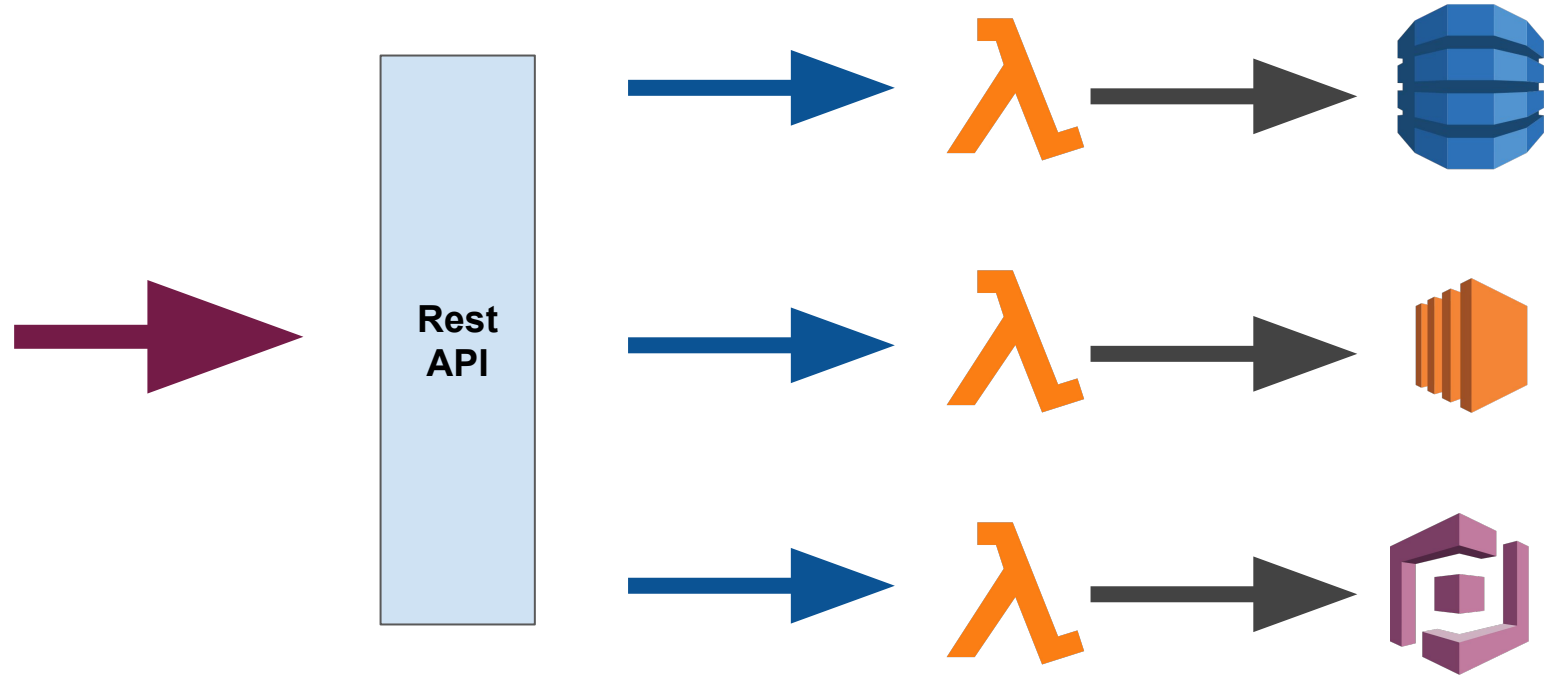
Body = {...}

API Gateway



API Gateway represents an entrypoint to your resources

API Gateway

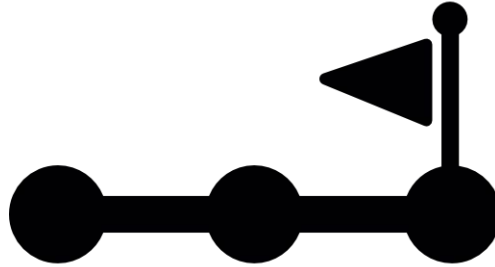


The recommended approach is to reach lambda first

API Gateway Characteristics

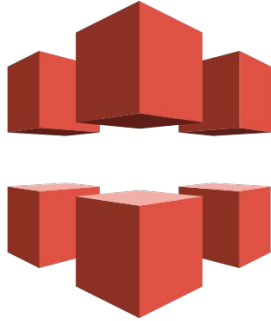
1. HTTPS by default
2. Redirects requests to AWS Resources
3. Scales automatically

API Gateway Stages

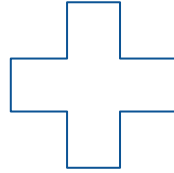


Stages are API Snapshots
They can help control deployments

Edge Optimized endpoints



CloudFront



API Gateway

Provide better performance for regionally disperse users

CORS Configuration



Cross Origin Resource Sharing (CORS) defines how two different origins can share resources

Same-origin-policy can be changed by cors

API Gateway Caching



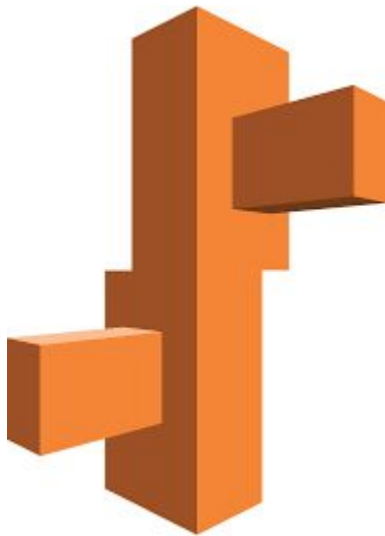
API Gateway Limits

1. At most 10.000 request per second (rps)
2. At most 5000 concurrent requests
3. Surpassing these limits will return you 429 (too many requests)



Efficient Low Cost

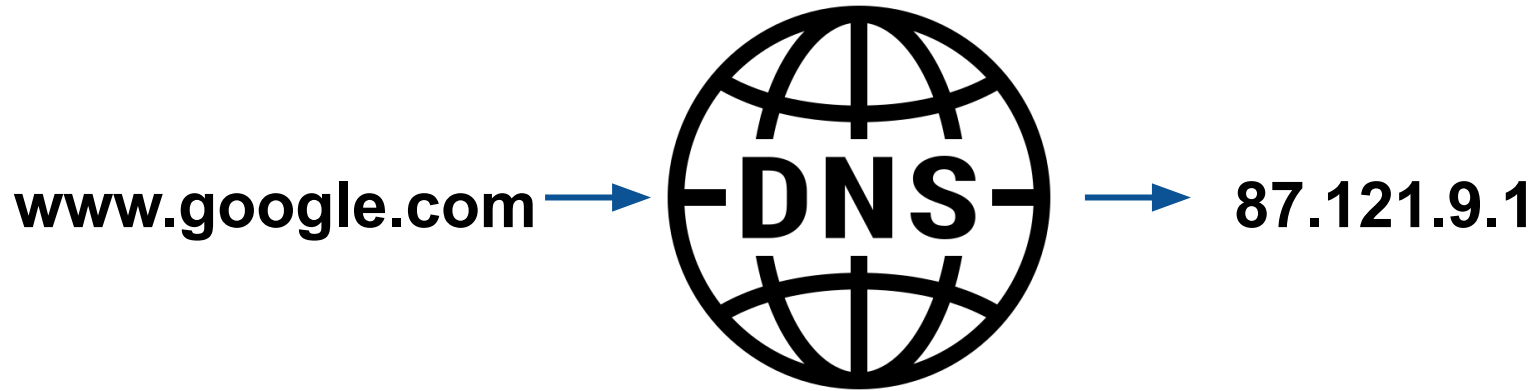
pricing



Route 53

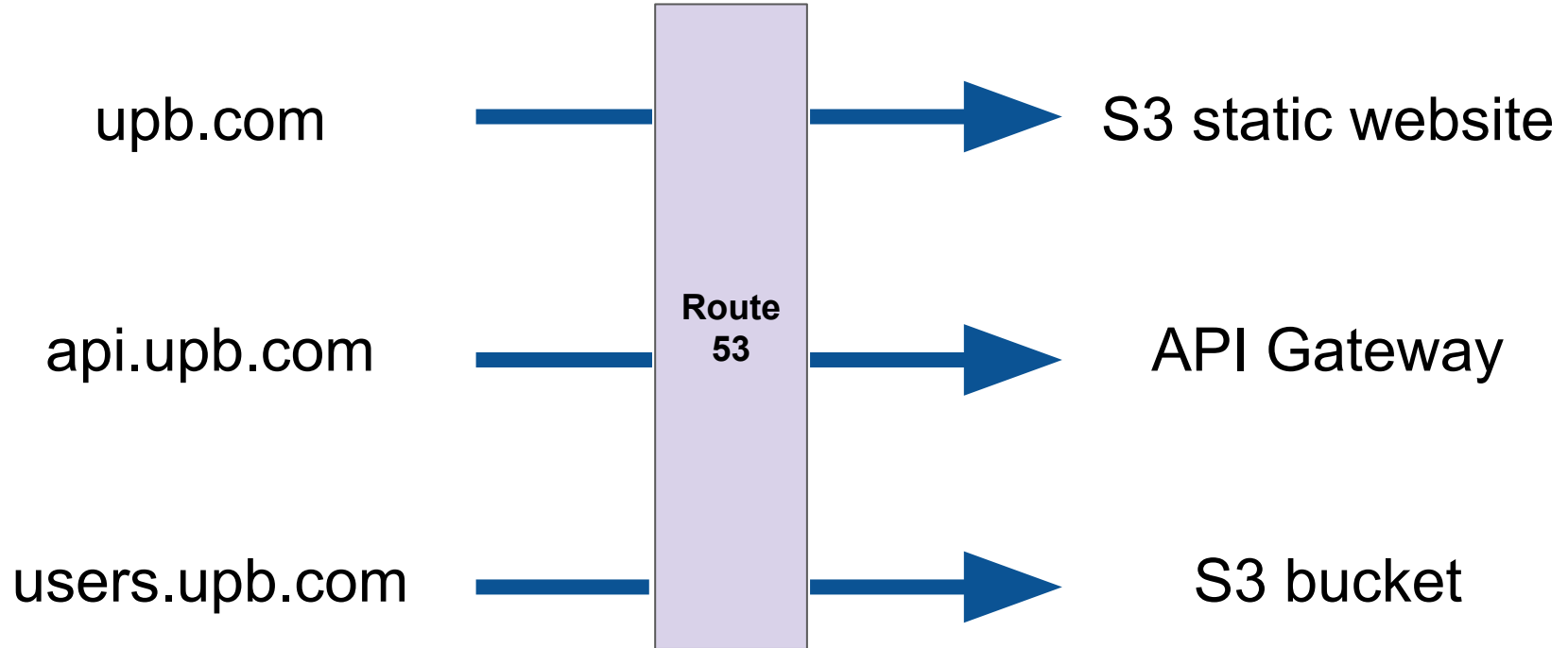
Route end users to Internet applications

Domain Name System



Resolves names to IP addresses

Route53 routes domains to resources



Route53 routes domains to resources

Root Server

Top Level Domain

Resolver

Authoritative Name Server

[API CLI Limits](#)