



AWS API-GATEWAY

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OVERVIEW

- Fully managed API management service by AWS
- Helps create, publish, maintain, monitor, and secure REST, HTTP, and WebSocket APIs
- Acts as a front door for applications to access backend services (e.g., Lambda, EC2, DynamoDB)



KEY FEATURES

- Supports multiple protocols: REST, HTTP, WebSocket
- Throttling and rate limiting to protect backend
- Authorization via IAM, Cognito, and custom auth
- API versioning and staging for lifecycle management
- Built-in monitoring with CloudWatch.





SECURITY

- Authentication & Authorization: IAM, Amazon Cognito, Lambda authorizers
 - Custom domain names with SSL.
 - CORS support for cross-origin resource sharing.
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INTERACTION OPTIONS

- AWS Lambda (serverless backend).
- AWS EC2, Elastic Load Balancer.
- Amazon DynamoDB, S3, Step Functions.
- Mock integrations for prototyping.

