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Networking
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Amazon API Gateway

What?

- Amazon API Gateway acts as a "front door" for applications to access data, business logic, or functionality from your backend services.
- Amazon API Gateway allows developers to create, publish, maintain, monitor, and secure REST, HTTP, and WebSocket APIs.

Why?

- Amazon API Gateway provides developers with a service that handles all aspects of creating and operating robust APIs for application back ends. With API Gateway, you can launch new services faster and with reduced investment so you can focus on building your core business services.

When?

- You want to use a managed service to save the undifferentiated heavy lifting involved in securely and reliably running APIs.
- You want to save effort on API development and API management and generate client SDKs for a number of languages.

Where?

- Amazon API Gateway is a regional service.
- An API endpoint refers to the hostname of the API. For the REST APIs the API endpoint type can be edge-optimized, regional, or private, depending on where the majority of your API traffic originates from.

Who?

- Amazon API Gateway is a fully managed service that.
- It handles all of the tasks involved in accepting and processing concurrent API calls, including traffic management, authorization and access control, monitoring, and API version management.

How?

- You can get started by creating and publishing an API or by importing a supported API.
- Depending on the use case of your API, you can decide on a number of characteristics of your API. For example, you might want an API call to execute a Lambda function, make a database query, or call an application.

How much?

- For HTTP and REST APIs, you pay only for the API calls you receive and the amount of data transferred out. For WebSocket APIs, you pay for messages sent and received and for the time a user/device is connected to the API.
- API Gateway caching is charged at an hourly rate based on the cache size.

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