

Import APIs

You can use the **API Gateway Import** API feature to import an API from an external definition file into API Gateway. Currently, the Import API feature supports **Swagger v2.0** definition files.

With the Import API, you can either create a new API by submitting a POST request that includes a Swagger definition in the payload and endpoint configuration, or you can update an existing API by using a PUT request that contains a Swagger definition in the payload. You can update an API by overwriting it with a new definition, or merge a definition with an existing API. You specify the options using a mode query parameter in the request URL .

Services → networking and content delivery → API gateway → create api →

Create new API

In Amazon API Gateway, an API refers to a collection of resources and methods that can be invoked through HTTPS endpoints.

☐ New API ☐ Clone from existing API ☒ Import from Swagger ☐ Example API

Import from Swagger

Paste a [Swagger](#) API definition in the field below to create a new API and populate it with the resources and methods from your Swagger definition. You can also import your Swagger definition through the AWS CLI and SDKs

Select Swagger File

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Settings

Endpoint Type

Regional

API Throttling

By default, API Gateway limits the steady-state request rate to **10,000 requests per second** (rps).

The maximum concurrent requests is 5000 requests across all APIs within an AWS account.

If you go over 10,000 requests per second or 5000 concurrent requests you will receive a **429 Too Many Request** error response.



API Throttling

- If a caller submits 10,000 requests in a one second period evenly (for example, 10 requests every millisecond), API Gateway processes all requests without dropping any.
- If the caller sends 10,000 requests in the first millisecond, API Gateway serves 5,000 of those requests and throttles the rest in the one-second period.
- If the caller submits 5,000 requests in the first millisecond and then evenly spreads another 5,000 requests through the remaining 999 milliseconds (for example, about 5 requests every millisecond), API Gateway processes all 10,000 requests in the one-second period without returning 429 Too Many Requests error responses.

SOAP Webservice Passthrough



You can configure API Gateway as a SOAP web service passthrough.

<https://www.rubix.nl/blogs/how-configure-amazon-api-gateway-soap-webservice-passthrough-minutes>





Advanced API Gateway Exam Tips

- Import API's using Swagger 2.0 definition files
- API Gateway can be throttled
 - Default limits are 10,000 RPS or 5000 concurrently
- You can configure API Gateway as a SOAP Webservice passthrough

