

The Amazon API Gateway Workshop

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Export OpenAPI via Console

At this point, you learned how to create, configure and deploy your first API using IaC with the following features:

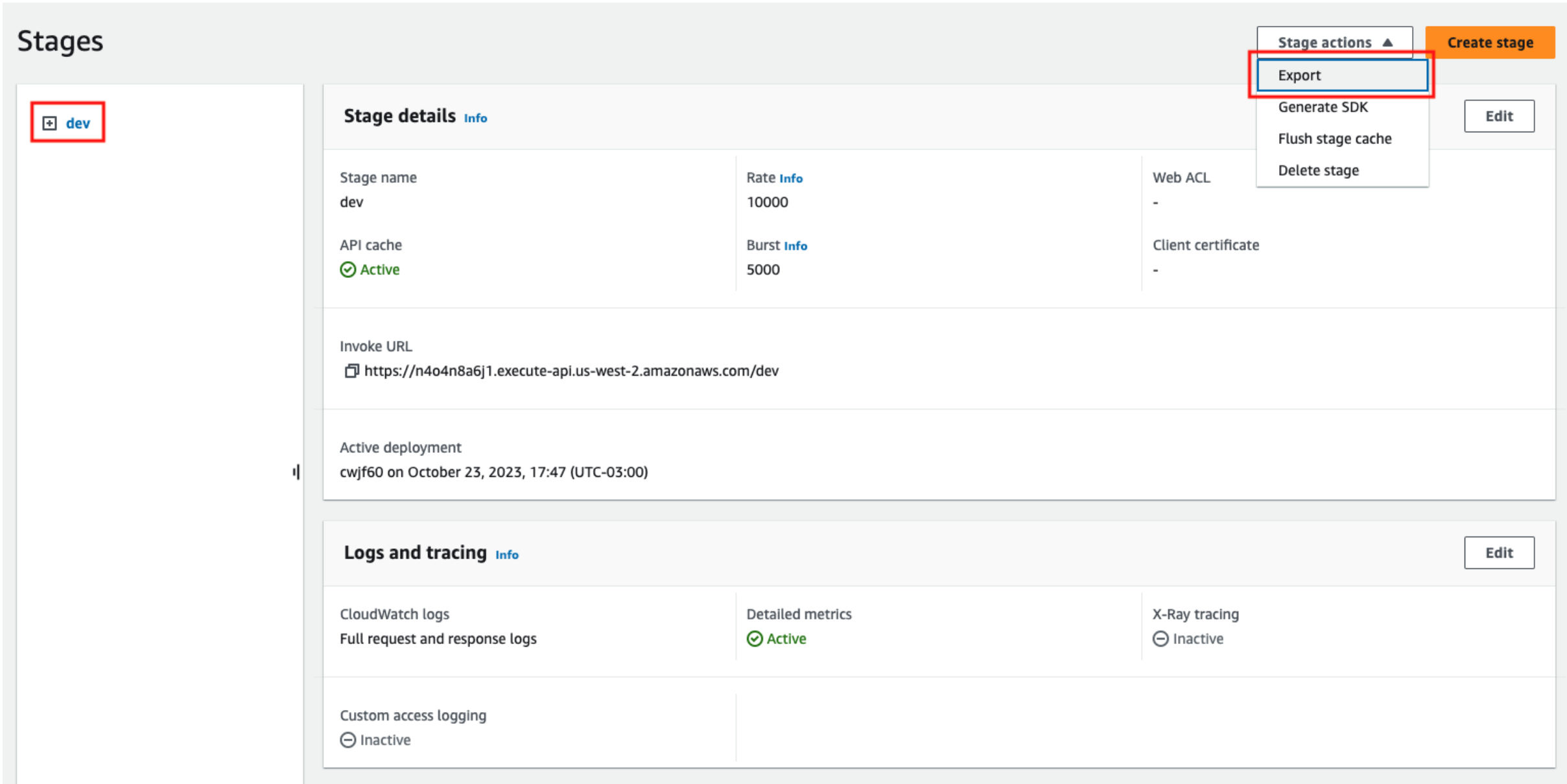
- Create your first API with IaC
- Message Transformation
- Request Validation
- Authentication and Authorization
- Message Caching
- Usage Plans and Message Throttling

Now you will learn how to export all the configurations that you have made to an OpenAPI 3.0 specification file.

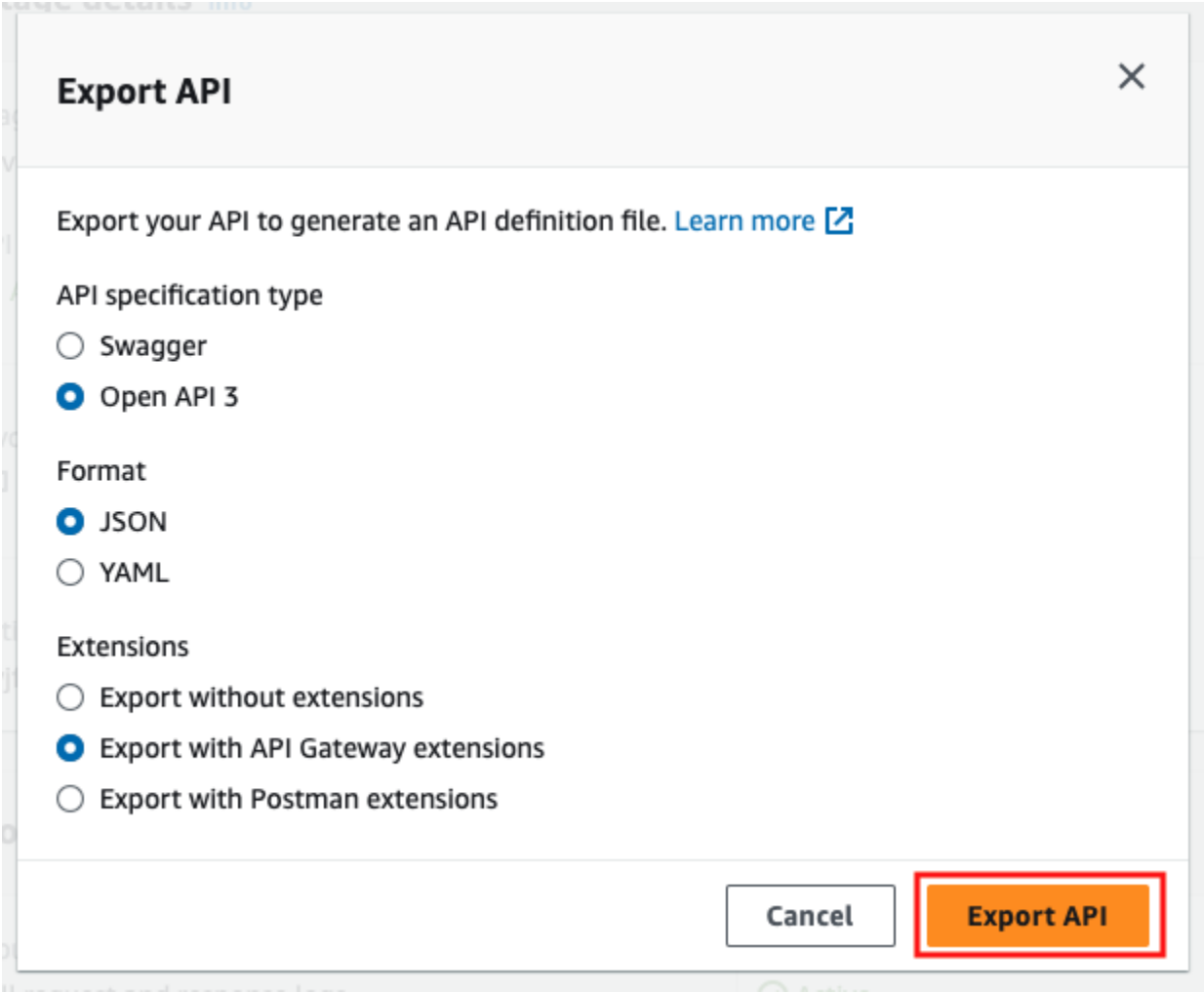
Once you created and configured a REST API in API Gateway, using the API Gateway console or otherwise, you can export it to an OpenAPI file using the API Gateway Export API, which is part of the Amazon API Gateway Control Service. You have options to include the API Gateway integration extensions, as well as the [Postman](#) extensions, in the exported OpenAPI definition file.

Export using Console

1. Open the [Amazon API Gateway console](#), select the right region if necessary and sign in.
2. Choose your REST API named module-2-my-first-api.
3. Click in **Stages**
4. Click in the **Stage actions** button and then **Export**



5. In API specification type select Open API 3.
6. Choose the desired format between JSON or YAML.
7. Choose between the following extensions:
 - **Export without extensions:** exports only the OpenAPI definition
 - **Export with API Gateway extensions:** exports the OpenAPI definition along with the [API Gateway extensions](#)
 - **Export with Postman extensions:** exports the OpenAPI definition along with [Postman](#) extensions
8. Click in Export API to export and download the specification.



```
openapi: "3.0.1"
info:
  title: "my-first-api"
  description: "First API with IaC example"
  version: "1.0"
servers:
- url: "https://rvrwmde3z3.execute-api.us-west-2.amazonaws.com/{basePath}"
  variables:
    basePath:
      default: "dev"
paths:
  /medianpricecalculator:
    post:
      parameters:
        - name: "region"
          in: "query"
          schema:
            type: "string"
      responses:
        "200":
          description: "200 response"
          content: {}
      security:
        - api_key: []
      x-amazon-apigateway-request-validator: "Body"
      x-amazon-apigateway-integration:
        type: "aws"
        credentials: "arn:aws:iam::236003640626:role/first-api-LambdaExecutionRole-DQJ2N31bpSbl"
        httpMethod: "POST"
        uri: "arn:aws:apigateway:us-west-2:lambda:path/2015-03-31/functions/arn:aws:lambda:us-west-2:236003640626:function:first-api-MedianPriceCalculator-2M9xIyEY7vUC/invocations"
        responses:
          default:
            statusCode: "200"
        requestTemplates:
          application/json: "{\n  \"region\": \"${input.params(\"region\")}\"\\n}\\n"
        passthroughBehavior: "when_no_match"
        cacheNamespace: "my-first-api-cache"
        cacheKeyParameters:
          - "method.request.querystring.region"
  /priceperimeter:
    post:
      requestBody:
        content:
          application/json:
            schema:
              $ref: "#/components/schemas/costCalculatorRequest"
        required: true
      responses:
        "200":
          description: "200 response"
          content: {}
      security:
```

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