

Create a REST API

Choose an API type [Info](#)

HTTP API

Build low-latency and cost-effective REST APIs with built-in features such as OIDC and OAuth2, and native CORS support.

Works with the following:
Lambda, HTTP backends

[Import](#)[Build](#)

WebSocket API

Build a WebSocket API using persistent connections for real-time use cases such as chat applications or dashboards.

Works with the following:
Lambda, HTTP, AWS Services

[Build](#)

REST API

Develop a REST API where you gain complete control over the request and response along with API management capabilities.

Works with the following:
Lambda, HTTP, AWS Services

[Import](#)[Build](#)

Create REST API [Info](#)

API details



New API

Create a new REST API.



Clone existing API

Create a copy of an API in this AWS account.



Import API

Import an API from an OpenAPI definition.



Example API

Learn about API Gateway with an example API.

API name

BucStop

Description - optional

API endpoint type

Regional APIs are deployed in the current AWS Region. Edge-optimized APIs route requests to the nearest CloudFront Point of Presence. Private APIs are only accessible from VPCs.

Private



Private APIs are only accessible through VPC endpoints for API Gateway. Create a [VPC endpoint](#) and add a resource policy to grant your VPCs and VPC endpoints access to your private API. [Learn more](#)

VPC endpoint IDs - optional [Info](#)



Add

IP address type [Info](#)

Select the type of IP addresses that can invoke the default endpoint for your API.



IPv4

Supports only edge-optimized and Regional API endpoint types.



Dualstack

Supports all API endpoint types.

Create a resource

Create resource

Resource details

☐ Proxy resource [Info](#)
Proxy resources handle requests to all sub-resources. To create a proxy resource use a path parameter that ends with a plus sign, for example {proxy+}.

Resource path
/

▼

Resource name
Games

☒ CORS (Cross Origin Resource Sharing) [Info](#)
Create an OPTIONS method that allows all origins, all methods, and several common headers.

[Cancel](#)


Create resource


Create POST method


Method details


Method type
POST


▼

☐ Lambda function
Integrate your API with a Lambda function.


☒ HTTP
Integrate with an existing HTTP endpoint.


☐ Mock
Generate a response based on API Gateway mappings and transformations.


☐ AWS service
Integrate with an AWS Service.


☐ VPC link
Integrate with a resource that isn't accessible over the public internet.


☒ HTTP proxy integration
Send the request to your HTTP endpoint without customizing the integration request or integration response.

HTTP method
POST

▼

Endpoint URL

https://api.endpoint.com/

Content handling [Learn more](#)

▼

Passthrough

Integration timeout [Info](#)
By default, you can enter an integration timeout of 50 - 29,000 milliseconds. You can use Service Quotas to raise the integration timeout to greater than 29,000 ms

29000

Configure integration (Select Integration Request in the POST RESOURCE)

/Games - POST - Method execution

ARN
arn:aws:execute-api:us-east-2:522814691324:torntiugo2/*/POST/Games

Resource ID
sw8t27

Client

Method request

Integration request

Method response

Integration response
Proxy integration

Method request

Integration request

Integration response

Method response

Test

Integration request settings

Integration type Info
HTTP

Endpoint URL
http://18.223.69.98:8000/Games/UploadGame

HTTP proxy integration Info
True

Timeout
Default (29 seconds)

Enable CORS

Resources

API actions ▼

Deploy API

Create resource

/

/Games

OPTIONS

POST

Resource details

Delete

Update documentation

Enable CORS

Allow

Origin: *

Methods: POST, OPTIONS

Then Deploy API

Resources

API actions ▼

Deploy API

Create a stage

Create stage

Stage details
Stage name

Stage description - optional

Deployment

Resources

[API actions ▼](#)[Deploy API](#)

Get invoke url

<https://torntiugo2.execute-api.us-east-2.amazonaws.com/prod>

Ensure code is up to date with the newest changes (Changes to Program.CS and GameController.cs)

Start the EC2 instance and run the webapp.

Run this command to test if the invoke URL works.

You will insert your invoke URL in place of <https://torntiugo2.execute-api.us-east-2.amazonaws.com/prod>/Games

```
curl.exe -X POST https://torntiugo2.execute-api.us-east-2.amazonaws.com/prod/Games -F gameFile=@file.js
```

In terminal you should see: {"message":"File uploaded successfully!"}

ls /mnt/ebs-storage to check that the file is there.

Test Case	Input	Expected Output
Create the API GW	Follow the steps above to create the AWS API gateway	Make sure you hit Deploy API at the end.
Start EC2 instance.	SSH into the EC2 instance and dotnet run	Web app starts
Create test.js file	Create a test.js file to use in the curl command	Test.js file created.
Test POST file command	THIS COMMAND NEEDS TO BE RUN IN THE TERMINAL OF YOUR COMPUTER, NOT THE EC2 INSTANCE. curl -X POST https://torntiugo2.execute-api.us-east-2.amazonaws.com/prod/Games -F "gameFile=@test.js"	{"message":"File uploaded successfully!"}
Verifying file is there	ls /mnt/ebs-storage	You should see the name of the test file you submitted.

CODE CHANGES

Change Program.cs

Lines 9-10

Lines 34-38

Comment out 52

Lines 54-58

Comment out 76

Change GameController.cs

Add POST method

Lines 100-131

Test:

```
curl -X POST https://torntiugo2.execute-api.us-east-2.amazonaws.com/prod/Games -F  
"gameFile=@test.js"
```