## **Troubleshooting Gateway Integrations**

In this lesson, you will learn how to troubleshoot gateway integrations using the AWS Web Console.

## WE'LL COVER THE FOLLOWING

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- Reasons for a generic error
- Using API Gateway to troubleshoot errors

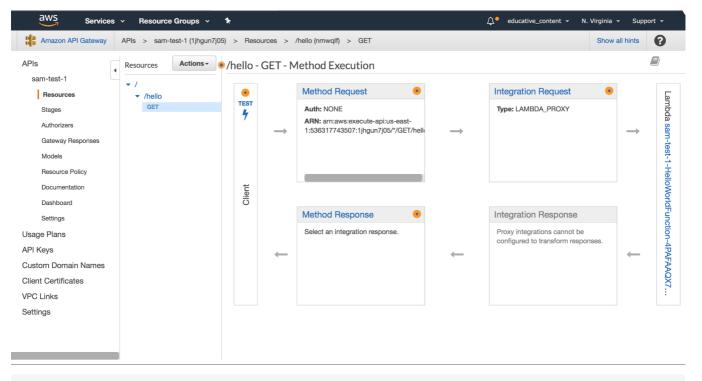
## Reasons for a generic error #

API Gateway masks unhandled errors (such as a missing resources), with a 403 Not Authorized response. If anything goes wrong when talking to the back-end service, you'll only see that error instead of useful troubleshooting information. This is great from a security perspective, because it prevents sensitive data leaks, but it's a major pain for troubleshooting problems. Here are just some of the cases when you'll see this generic error:

- If the request does not even reach the Lambda function, for example, due to misconfigured authorisation or resource configuration problems.
- If the function blows up without returning a proper response.
- If the function returns a response that's not in the exact format that API Gateway expects.

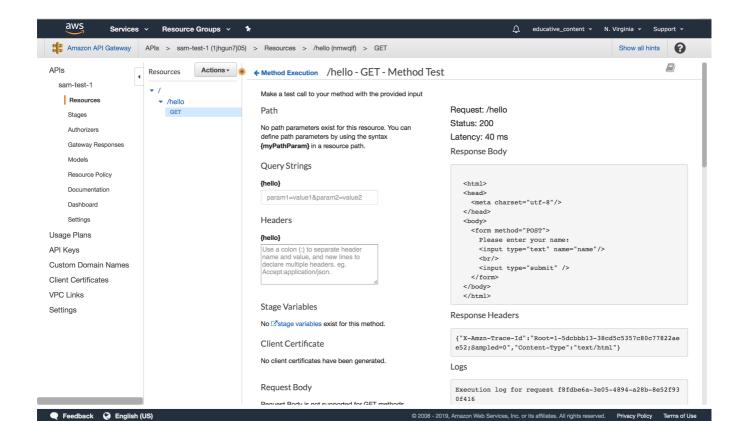
## Using API Gateway to troubleshoot errors #

The *Resources* screen in the API Gateway Web Console is super useful for troubleshooting integration problems. When you get a 403 response and it's baffling you, navigate to the web console page for the API Gateway resource and click the *Test* link in the *Client* box (see the left side of the figure given below).



API Gateway Web Console shows the details of a resource, including the authentication setup and the back end it talks to. It also enables us to send test requests easily.

A diagnostic test screen will open. You can enter request information, such as query strings and headers, then click the blue *Test* button towards the bottom of the screen. API Gateway will call the Lambda function simulating the HTTP request and then print out a bunch of diagnostic information, including all data sent to the back-end and received back (refer to the figure below). This will help you discover the real problem and find out how to fix it.



API Gateway testing prints out detailed diagnostic information.

You can now move on to the next lesson where you will learn how to process request parameters.