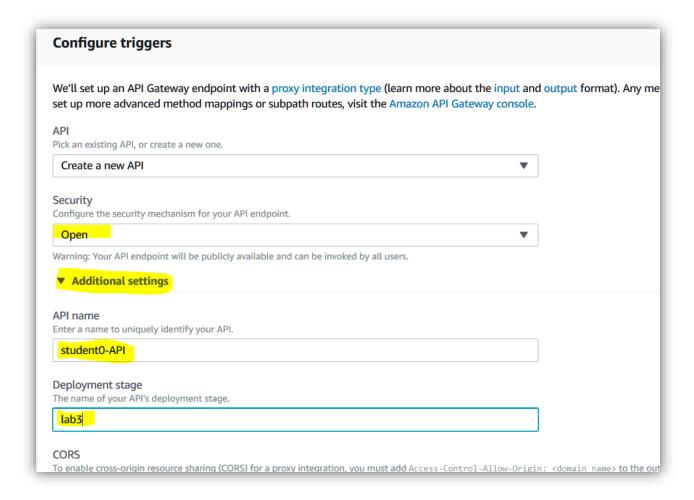
Lab 3: Connect your Lambda function to an API Gateway

Create a new Lambda function named Student#API matching your student number

Select the API Gateway trigger in your Lambda function,

Create a new API, Set the security to "Open" click on Additional settings then name it to match your student#. Name the deployment stage "lab3", and click Add:



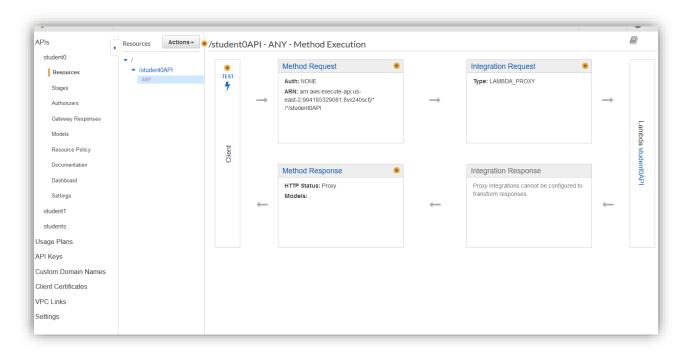
Your API Gateway should be automatically configured once you click save in the upper right hand corner:



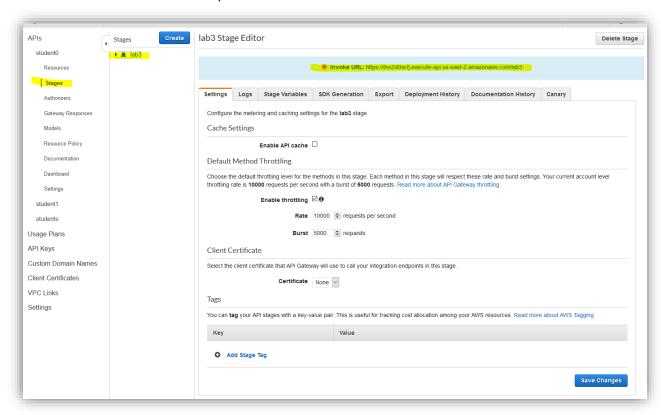
Click on the API Gateway trigger that is attached to the function in the designer, it will have a link matching what you named the gateway. Clicking it will take you to the API Gateway management console (Be sure to click on the name of the API, not the link to the API endpoint):



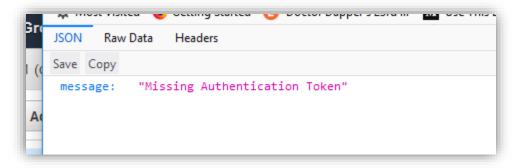
In the API management console, you can see the flow and mappings for the requests, and the functions:



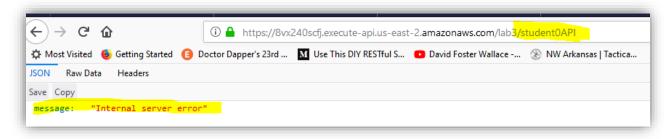
To be able to access your API, you will need to find the invocation URL. Click on Stages, then "lab3". You will see the invocation URL at the top. Click on it:



Going to the root URL of an API gateway will give you a not very helpful error that you are missing an auth token. In fact the issue is that you haven't gone to an actual API endpoint:



Add /student#API or whatever you named your function to the end of the URL and you should be presented with a new error message:

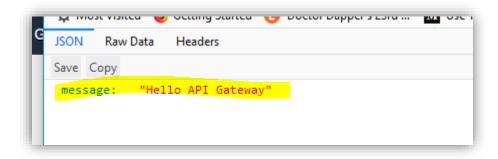


Lambda functions have to return at minimum a status code, otherwise the API gateway defaults to a gateway error 502. Modify our new lambda function to have the following code:

```
exports.handler = (event, context, callback) => {
  const response = {
    statusCode: 200,
    body: JSON.stringify({ message: 'Hello API Gateway' }),
    headers: {
        'Access-Control-Allow-Origin': '*',
        'Content-Type': 'application/json'
        }
    };
    console.log(response);
    callback(null, response);
};
```

```
Goto Tools Window
         index.js × +
    1
      1 exports.handler = (event, context, callback) => {
           // TODO implement
      3
            callback(null, {
            statusCode: '200',
      4
      5
            body: JSON.stringify({ message: 'Hello API Gateway' }),
      6
            headers: {
      7
                'Content-Type': 'application/json',
      8
             }
      9 });
     10 };
```

Save the function, and try hitting the API again:



Congratulations, you now have a Lambda service that is accessible from the outside world.