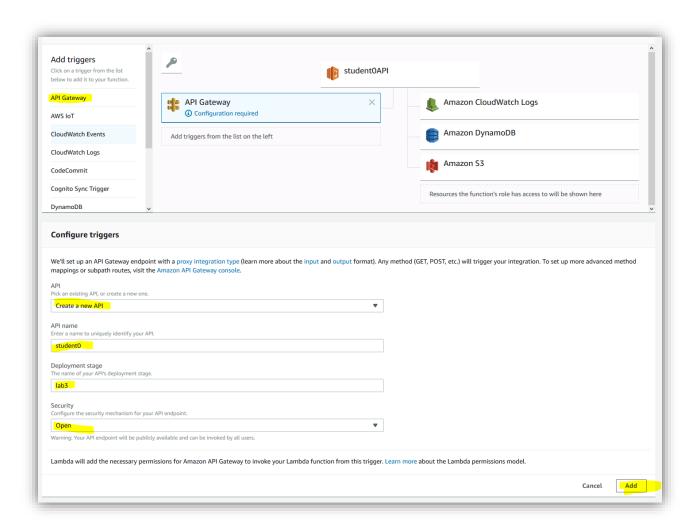
Lab 3: Connect your Lambda function to an API Gateway

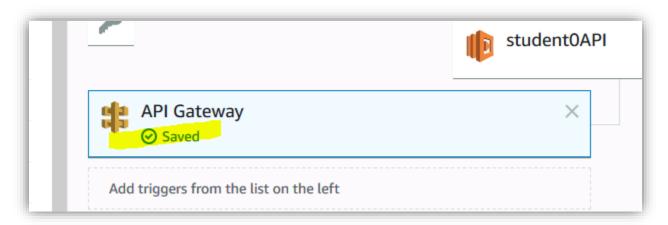
Create a new Lambda function named Student#API matching your student number

Select the API Gateway trigger in your Lambda function,

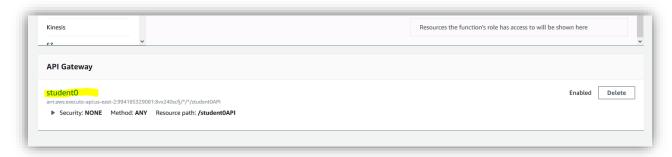
Create a new API, Name it to match your student#, Name the deployment stage "lab3", Set the security to "Open" and click Add :



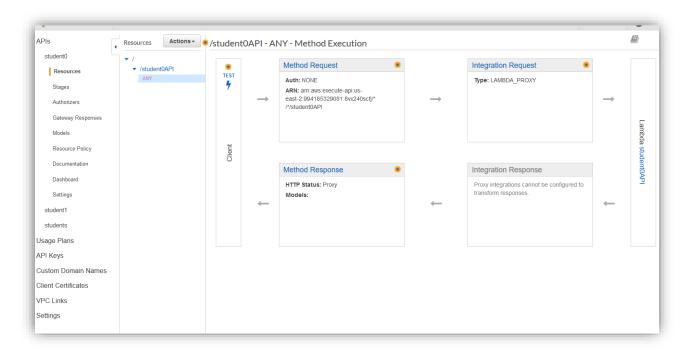
Your API Gateway should be automatically configured once you click save in the upper right hand corner:



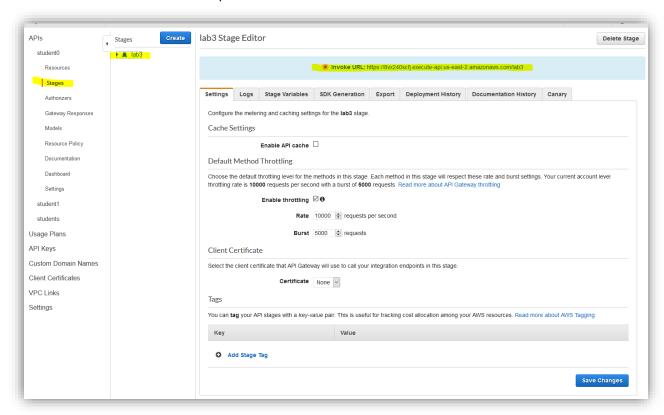
Click on the API Gateway trigger that is attached to the function in the designer, it will have a link matching what you named the gateway. Clicking it will take you to the API Gateway management console:



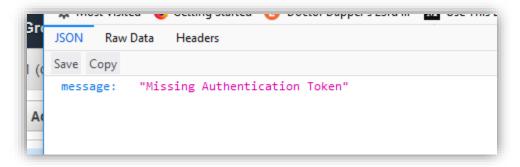
In the API management console, you can see the flow and mappings for the requests, and the functions:



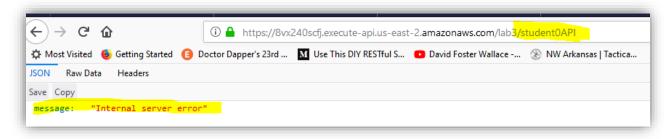
To be able to access your API, you will need to find the invocation URL. Click on Stages, then "lab3". You will see the invocation URL at the top. Click on it:



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:

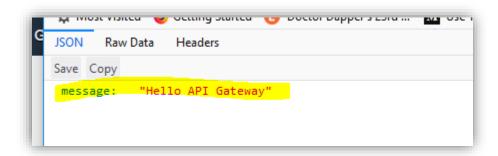


Lambda functions have to return at minimum a status code, otherwise the API gateway defaults to a gateway error 502. Modify our new lambda function to have the following code:

```
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.