**Create a DynamoDB Table Using CloudFormation**

**Introduction**

In this lab scenario, Alfredo of Alfredo's Pizza is building a web application to manage his supply and food inventory. That's where you and I come in. He's looking for our help to provision his database infrastructure, which will hold his data. We'll use CloudFormation to write the desired state of the infrastructure using code, which includes a DynamoDB table to hold inventory items. We'll first launch the resources in his development environment, but the template can later be used to launch a stack in the test and production environments as well. By the end of this lab, you'll have a good understanding of infrastructure as code using CloudFormation.

**Solution**

Log in to the AWS Management Console using the credentials provided on the lab instructions page. Make sure you're using the *us-east-1* region.

**Review and Download CloudFormation Template**

1. Open this link to the provided CloudFormation template for this lab: [Link](https://github.com/linuxacademy/content-aws-certified-cloud-practioner/blob/main/labs/create-dynamodb-table-using-cloudformation/acg-dynamodb-template.yaml).
2. Click on the **Raw** button near the top right corner.
3. Right-click and select the **Save As** option.
4. Make sure the *Format* is YAML.
5. Click **Save**.

**Launch CloudFormation Stack**

1. Navigate to the AWS Management Console.
2. In the search bar on top, type "CloudFormation."
3. From the search results, click **CloudFormation**.
4. Click the **Create stack** button in the top right corner.
5. Select **With new resources (standard)**.
6. On the *Create stack* page, under *Prepare template*, select the radio button next to **Template is ready**.
7. Under *Specify template*, select the radio button next to **Upload a template file**.
8. Click the **Choose file** button.
9. Select the file that you downloaded and saved.
10. Click **Open**.
11. Click **Next**.
12. On the *Specify stack details* page, under *Stack name*, enter "MyStack".
13. Click **Next**.
14. On the *Configure stack options* page, click **Next**.
15. On the *Review MyStack* page, review the parameters and click **Create stack**.
16. Near the top right corner, click the refresh button to check the status of the stack being created.

**Verify DynamoDB Table Created**

1. Once the stack is created successfully, go to the search bar on top and click "Dynamo".
2. From the search results, click **DynamoDB**.
3. In the navigation menu on the left-hand side, click **Tables**.
4. Click **Inventory**.
5. Instead of clicking the DynamoDB Items tab (as shown in the video), you could add a table item via the Actions pulldown and choose Create item.

**Conclusion**

Congratulations — you've completed this hands-on lab!