# ENPM665 Homework #4 – AWS GuardDuty Hands On

Version 2.2 – November 15th 2022

**Note**: This assignment should take approximately 2 hours to complete.

You will be utilizing an exercise that AWS has built. Remember to use **US West 2 (Oregon)** for this exercise.

#### Start here:

https://github.com/aws-samples/amazon-guardduty-hands-on/blob/master/docs/setup.md (Ignore steps 1-3, start with 4 – Enabling Guard Duty)

Click the Deploy to AWS image to deploy the CloudFormation stack that will build the items needed for this exercise.



The specific scenarios to complete are:

Scenario 1: Compromised EC2 Instance <a href="https://github.com/aws-samples/amazon-guardduty-hands-on/blob/master/docs/scenario1/index.md">https://github.com/aws-samples/amazon-guardduty-hands-on/blob/master/docs/scenario1/index.md</a>

Scenario 2: Compromised IAM Credentials <a href="https://github.com/aws-samples/amazon-guardduty-hands-on/blob/master/docs/scenario2/index.md">https://github.com/aws-samples/amazon-guardduty-hands-on/blob/master/docs/scenario2/index.md</a>

Scenario 3: IAM Role Credential Exfiltration https://github.com/aws-samples/amazon-guardduty-handson/blob/master/docs/scenario3/index.md

Once complete follow the clean-up instructions here to remove everything that was create: <a href="https://github.com/aws-samples/amazon-guardduty-hands-on/blob/master/docs/summary.md">https://github.com/aws-samples/amazon-guardduty-hands-on/blob/master/docs/summary.md</a>

#### Deliverable:

Provide the answers to the questions inside the exercise:

### **Scenario 1: Compromised EC2 Instance**

- 1. Which data source did GuardDuty use to identify this threat?
- 2. Will isolating the instance have any effect on an application running on the instance?

3. How could you add more detail to the email notifications?

## **Scenario 2: Compromised IAM Credentials**

- 1. Which data source did GuardDuty use to identity this threat?
- 2. What permissions did the user have? (include a screenshot of the user's permissions)
- 3. Why would the security team decide against setting up an automated remediation?

### **Scenario 3: IAM Role Credential Exfiltration**

- 1. What are the risks involved with this remediation?
- 2. What other EC2 instances are using this Role?

# Don't forget to do the clean-up at the end of the exercise!