

## Configuring Amazon S3 security settings and access controls

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## Testing GuardDuty Malware with an object.

Getting started at an AWS hosted workshop

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Attach IAM Role to EC2 Instance

Connect to the EC2 Instance

**Bucket Name** 

▼ Lab 1 - S3 Security Exercises

Require HTTPS

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Restrict Access to an S3 VPC Endpoint

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Use Amazon Access Analyzer for S3

▼ Lab 2 - S3 Access Grants

S3 Access Grants Lab - Initial Setup

Configure S3 Access Grants for IAM user

 Lab 3 - Enabling Malware Protection for S3 by using GuardDuty

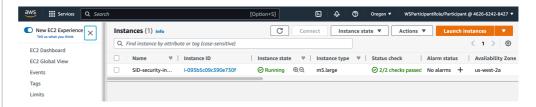
Enabling Malware Protection for S3 for your bucket

Testing GuardDuty Malware with an object.

► Lab 4 - S3 Access Control Lists Lab Summary Now that we have GuardDuty configured with our S3 bucket, we will create an object and test whether GuardDuty tags the object correctly.

From the AWS console in the top search bar, search and select EC2.

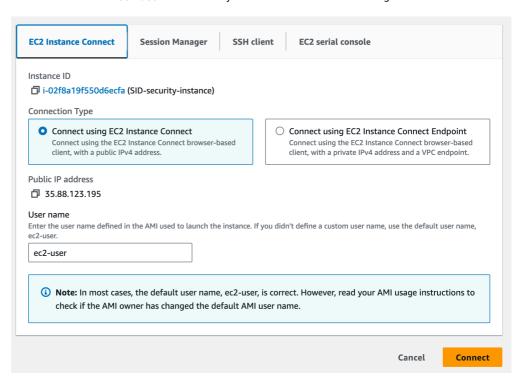
## Connect to the EC2 Instance using EC2 Instance Connect



Right click the SID-security-instance and click connect.

Select the EC2 Instance Connect (browser-based SSH connection).

Set the User name to ec2-user if not already. It should look like the following:



If your screen looks correct, click Connect. Your screen should look similar to the following:





This is where we will create two test objects:

• Let's create a test object by using the following code:

```
echo 'This is a test object with text.' >> testobject.txt
```

• Now let's create another test object but this time we will use a string:

```
echo 'X50!P%@AP[4\PZX54(P^)7CC)7}$EICAR-STANDARD-ANTIVIRUS-TEST-FILE!$H+H*' >> testot 2.
```

• Let's ensure those two files were created correctly, as we will use them for our test.

```
cat testobject.txt testobject2.txt
```



• Your screen should have two that corrispond to each file, like this:

```
[ec2-user@storage-workshop ~]$
[ec2-user@storage-workshop ~]$
[ec2-user@storage-workshop ~]$
[ec2-user@storage-workshop ~]$ cat testobject.txt testobject2.txt

This is a test object with text.

X50!P$@AP[4\PZX54(P^)7CC)7)$EICAR-STANDARD-ANTIVIRUS-TEST-FILE!$H+H*
[ec2-user@storage-workshop ~]$
```

Now we can create a test by uploading each of those files to S3. *Note* Make sure to change the name of the s3 bucket to the one in your account.

```
aws s3 cp testobject.txt s3://${bucket}
aws s3 cp testobject2.txt s3://${bucket}
```



Let's check whether the object gets tagged appropriately:

• First we can check the testobject.txt:

```
aws s3api get-object-tagging --key testobject.txt --bucket ${bucket}
```



• Then the testobject2.txt:

```
aws s3api get-object-tagging --key testobject2.txt --bucket ${bucket}
```



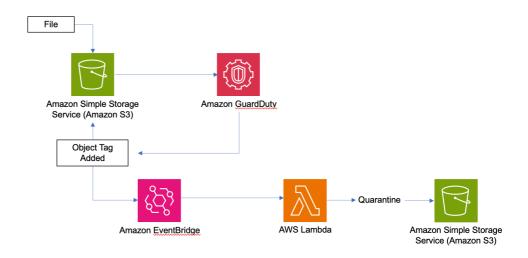
Your screen should look something like this:

```
| Cec_user*storage_workshop | Sec_user*storage_workshop |
```

Take note of how the test file we created with the fake malware signature was tagged appropriately but the other object was not.

• Using the tags on the object is a great way to take action on the objects that are tagged as a threat and quarantine them or delete them, depending on the environment and use case. For example you

could do something like:



## **⊘** Lab complete

Congratulations you have completed the GuardDuty Malware Protection for S3 lab. In this lab, you learned how to configure GuardDuty Malware Protection to detect the presence of threats within S3 buckets.



