

Cloud IR Walkthrough: AWS Workshop Ransomware on S3

The following is a walkthrough through one of the posted AWS CIRT workshops that allow a CloudFormation template to build AWS resources in a personal account to go through a specific CIRT scenario. The link below provides the scenario of Simulation and Detection of Ransomware in a S3 Bucket and using AWS Athena to build queries for detection.



Workshop Studio



Follow the steps required in the AWS Workshop page under the Setup using your own AWS Account and completion should look like the following with resources setup using CloudFormation.

The screenshot displays the AWS CloudFormation console. On the left, the 'Stacks' list shows the 'TDIR' stack with a status of 'CREATE_COMPLETE'. The main panel shows the 'Events' tab for the 'TDIR' stack, listing 100+ events. The events table includes columns for Timestamp, Logical ID, Status, and Status reason.

Timestamp	Logical ID	Status	Status reason
2024-02-03 18:29:44 UTC-0600	TDIR	CREATE_COMPLETE	-
2024-02-03 18:29:40 UTC-0600	VPCPublicSubnet1DefaultRoute91CEF279	CREATE_COMPLETE	-
2024-02-03 18:27:01 UTC-0600	VPCPublicSubnet2DefaultRoute87481BB A	CREATE_COMPLETE	-
2024-02-03 18:27:01 UTC-0600	VPCPublicSubnet1DefaultRoute91CEF279	CREATE_IN_PROGRESS	Resource creation Initiated
2024-02-03 18:27:01 UTC-0600	VPCPublicSubnet2DefaultRoute87481BB A	CREATE_IN_PROGRESS	Resource creation Initiated
2024-02-03 18:27:00 UTC-0600	VPCPublicSubnet2DefaultRoute87481BB A	CREATE_IN_PROGRESS	-
2024-02-03 18:27:00 UTC-0600	VPCPublicSubnet1DefaultRoute91CEF279	CREATE_IN_PROGRESS	-
2024-02-03 18:26:58 UTC-0600	VPCVPCGW998986DC	CREATE_COMPLETE	-

Use some of the saved queries to review the logs in the S3 buckets for the AWS account setup specifically the CloudTrail Logs using one of the queries as such with the date and AWS account ID.

Workgroup for the AWS walkthrough should be "IRWorkshopAthenaWorkGroup".

The screenshot shows the AWS Athena console interface. On the left, the 'Data' pane shows the 'AwsDataCatalog' data source and the 'inworkshopgluedatabase' database. The 'Tables and views' section lists several tables including 'inworkshopgluetablecloudtrail'. The main pane displays a SQL query for 'CloudTrailExampleQ...' with the following text:

```

105
106 -- User Activity Summary
107 -- filter high volume read-only GET/LIST/DESCRIBE calls
108 SELECT useridentity.arn, array_agg(DISTINCT(eventname)) AS eventnames,
109        array_agg(DISTINCT(sourceipaddress) ORDER BY sourceipaddress) AS sourceips,
110        array_agg(DISTINCT(useragent) ORDER BY useragent) AS useragents FROM "inworkshopgluedatabase"."inworkshopgluetablecloudtrail"
111 WHERE eventname <> 'AssumeRole'
112 AND eventname NOT LIKE 'Get%'
113 AND eventname NOT LIKE 'List%'
114 AND eventname NOT LIKE 'Describe%'
115 AND date_partition >= '2021/07/01'
116 AND date_partition <= '2021/07/31'
117 AND account_partition = '111122223333'
118 AND region_partition IN ('us-east-1','us-east-2','us-west-2','us-west-2')
119 GROUP BY useridentity.arn
120
121 -- User Activity Summary, including username
122 -- filter high volume read-only GET/LIST/DESCRIBE calls
123 -- same as above, but will include the ARN or the username (for IAM Users) of the principal
124 SELECT useridentity.arn, useridentity.username,
125        array_agg(DISTINCT(eventname) ORDER BY eventname) AS eventnames,
126        array_agg(DISTINCT(sourceipaddress) ORDER BY sourceipaddress) AS sourceips,
127        array_agg(DISTINCT(useragent) ORDER BY useragent) AS useragents FROM "inworkshopgluedatabase"."inworkshopgluetablecloudtrail"

```

Below the query editor, there are buttons for 'Run', 'Explain', 'Cancel', 'Clear', and 'Create'. The 'Query results' tab is selected, showing 'Query stats'.

Modify the CloudTrail query to query the AWS account between the given dates for the IR workshop.

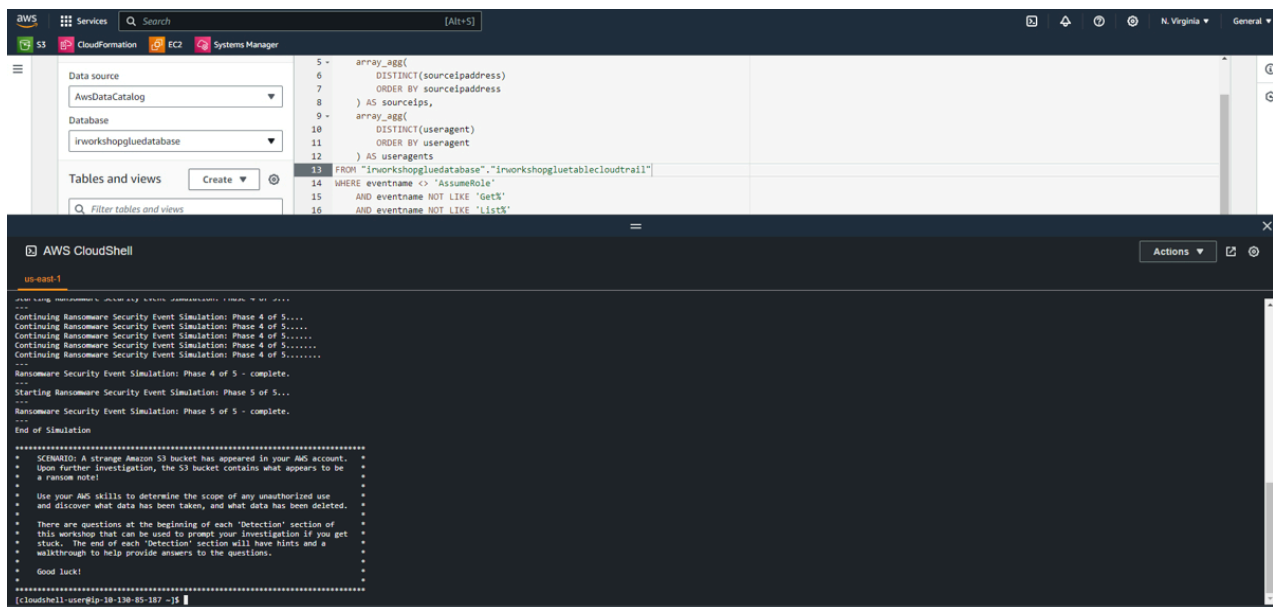
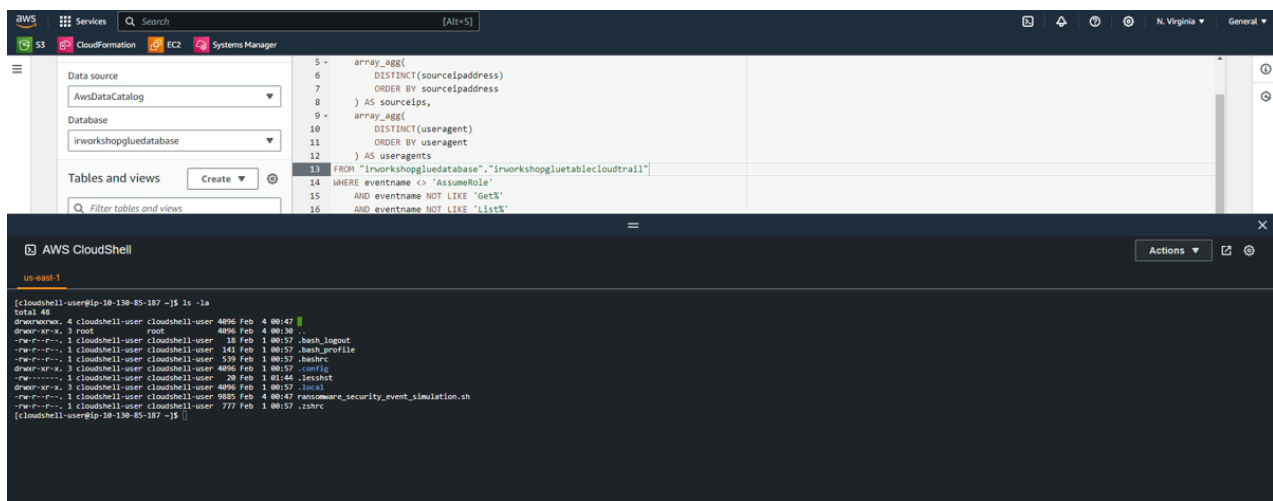
The screenshot shows the AWS Athena console interface after the query has been executed. The 'Query results' tab is selected, showing 'Query stats' and 'Results (2)'. The query is highlighted in blue. The results table shows the following data:

#	arn	eventname	sourceips	useragents
1	arn:aws:sts:612068038704:assumed-role/TDIR-LambdaExecutionRoleFileUpdate-I2Rb5t6L8HVW/TDIR-SimBuckets01-dLAcJyNAmBK	[PutObject]	[44.221.61.72]	[B...

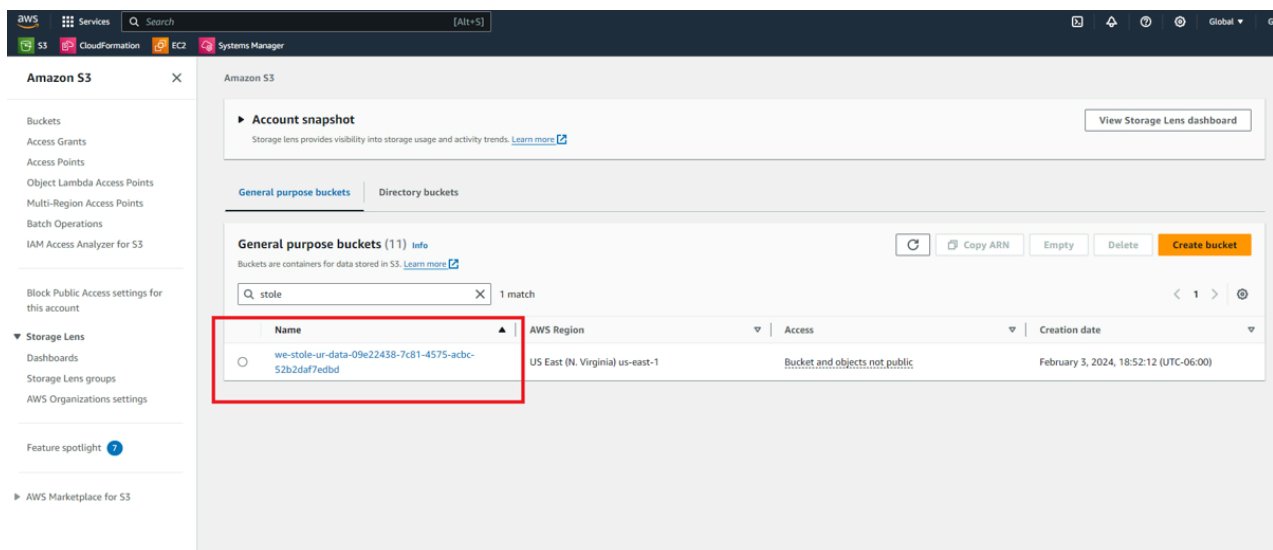
Below the results table, there are buttons for 'Copy' and 'Download results'. The 'Query stats' section shows the following information:

- Completed
- Time in queue: 66 ms
- Run time: 810 ms
- Data scanned: 18.91 KB

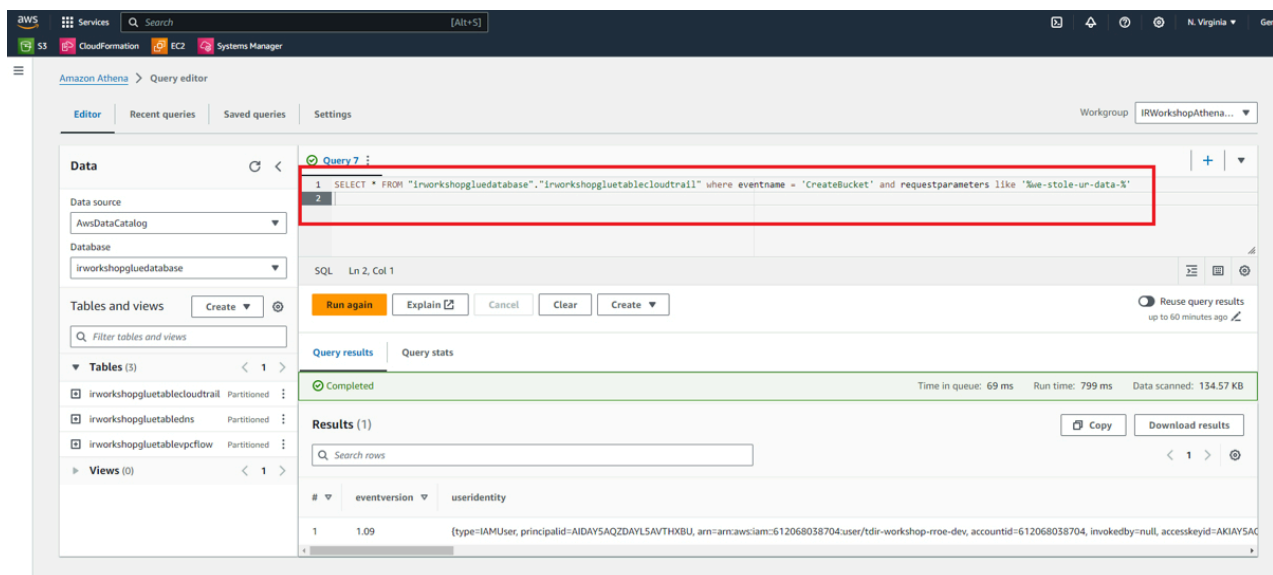
Afterwards, follow the steps in the AWS IR Workshop to simulate Ransomware events with the upload of a bash script into AWS CloudShell.



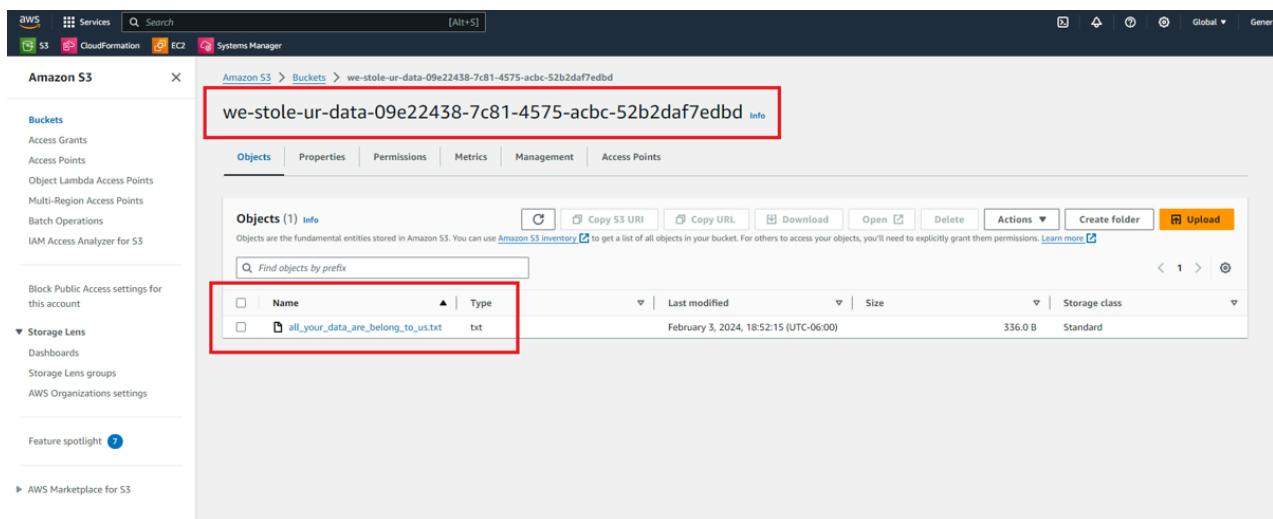
Next, an unusual S3 Bucket with the name of "we-stole-ur-data-*" should appear now in AWS S3 with the help of the CloudFormation template. Search the new AWS S3 Bucket to look for the "CreateBucket" API Call within the CloudTrail Logs.



```
SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" wh
```



Next, check the AWS S3 Bucket for objects and realize that there is a "all_your_data_are_belong_to_us.txt" file in the new malicious AWS S3 Bucket. After investigating it is realized that the "PutObject" API call was not recorded due to either no Server access logging or data events recorded in the CloudTrail configuration.



"all_your_data_are_belong_to_us.txt" Text file:

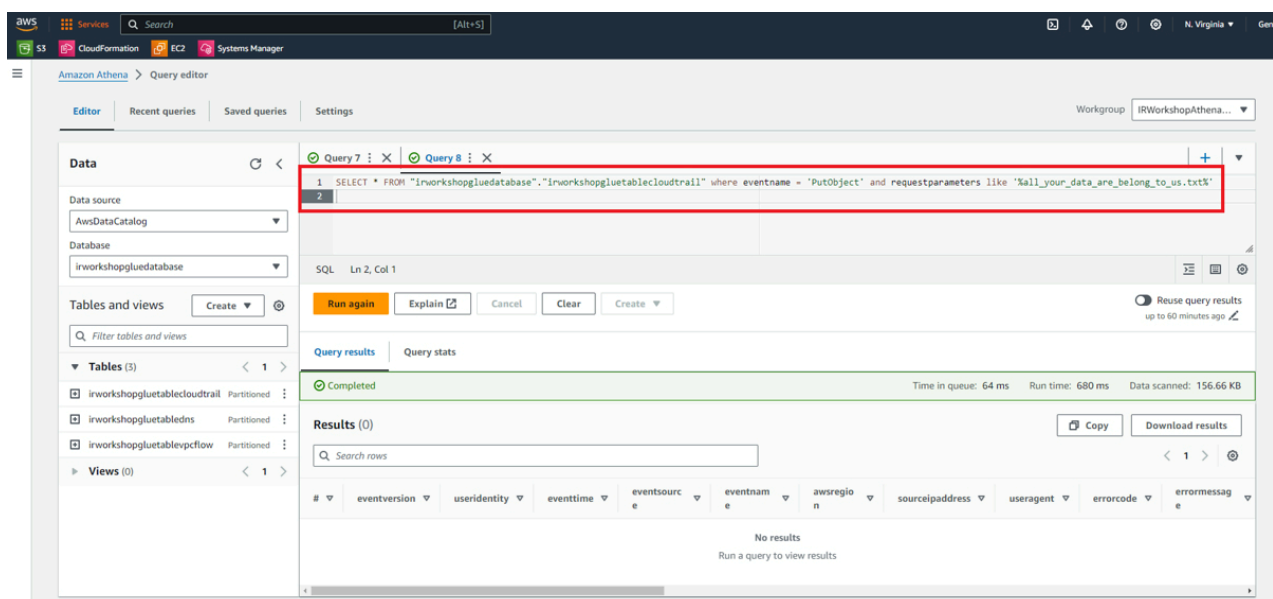
...

We have deleted all your files and have taken your customer data including
Pay us 100 BILLION DOLLARS in bitcoin within 48 hours and we will return
BTC Wallet address: <>

...

Search for PutObject API call in CloudTrail:

SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" wh



Next, Investigate the user "tdir-workshop-rroe-dev" that initiated the "CreateBucket" API call and review the actions performed by the IAM user inside the associated AWS account.

```
SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" wh
```

The screenshot shows the AWS Glue console with a query executed. The query is: `SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" where useridentity.username = 'tdir-workshop-rroe-dev'`. The results show 6 rows of data, with the first row highlighted. The columns are eventversion and useridentity. The useridentity column contains details about the IAM user, including principalid, arn, accountid, and accesskeyid.

#	eventversion	useridentity
1	1.08	(type=IAMUser, principalid=AIDAYSQZDAYLSAVTHXBU, arn=arn:aws:iam::612068038704:user/tdir-workshop-rroe-dev, accountid=612068038704, invokedby=null, accesskeyid-AKIAV5...
2	1.09	(type=IAMUser, principalid=AIDAYSQZDAYLSAVTHXBU, arn=arn:aws:iam::612068038704:user/tdir-workshop-rroe-dev, accountid=612068038704, invokedby=null, accesskeyid-AKIAV5...
3	1.09	(type=IAMUser, principalid=AIDAYSQZDAYLSAVTHXBU, arn=arn:aws:iam::612068038704:user/tdir-workshop-rroe-dev, accountid=612068038704, invokedby=null, accesskeyid-AKIAV5...
4	1.09	(type=IAMUser, principalid=AIDAYSQZDAYLSAVTHXBU, arn=arn:aws:iam::612068038704:user/tdir-workshop-rroe-dev, accountid=612068038704, invokedby=null, accesskeyid-AKIAV5...

Create a query to look for the "credit-card-data.csv" taken by the Ransomware attacks and investigate their actions accordingly using CloudTrail and notice that successful "GetObject", "HeadObject" and "DeleteObject" API calls made.

```
SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" wh
```

The screenshot shows the AWS Glue console with a query executed. The query is: `SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" where requestparameters like "%credit-card-data.csv%"`. The results show 4 rows of data, with the first row highlighted. The columns are eventname, awsregion, sourceipaddress, and useragent. The eventname column contains details about the API calls made, including PutObject, GetObject, DeleteObject, and HeadObject.

#	eventname	awsregion	sourceipaddress	useragent
1	PutObject	us-east-1	44.221.61.72	[Boto3/1.26.90 Python/3.9.18 Linux/5.10.201-213.748.amzn2.x86_64 exec-env/AWS_Lambda_python3.9 BotoCore/1.29.90 Resource]
2	GetObject	us-east-1	3.238.145.115	[aws-cli/2.15.14 Python/3.11.6 Linux/6.1.66-91.160.amzn2023.x86_64 exec-env/CloudShell exe/x86_64.amzn.2023 prompt/off command/s3.cp]
3	DeleteObject	us-east-1	3.238.145.115	[aws-cli/2.15.14 Python/3.11.6 Linux/6.1.66-91.160.amzn2023.x86_64 exec-env/CloudShell exe/x86_64.amzn.2023 prompt/off command/s3.rm]
4	HeadObject	us-east-1	3.238.145.115	[aws-cli/2.15.14 Python/3.11.6 Linux/6.1.66-91.160.amzn2023.x86_64 exec-env/CloudShell exe/x86_64.amzn.2023 prompt/off command/s3.cp]

The screenshot shows the AWS Athena console interface. The query editor at the top contains the following SQL query:

```
1 SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" where requestparameters like "%credit-card-data.csv%"
```

The query has been executed successfully, as indicated by the "Completed" status. The results are displayed in a table with 4 rows. The first row is highlighted, showing the following details:

requestparameters
["bucketName":"simulation-bucket-03-8f0e25z39nx0b1w","Host":"simulation-bucket-03-8f0e25z39nx0b1w.s3.amazonaws.com","key":"backup/customers/payment_information/credit-card-data.csv"]
["bucketName":"simulation-bucket-03-8f0e25z39nx0b1w","Host":"simulation-bucket-03-8f0e25z39nx0b1w.s3.us-east-1.amazonaws.com","key":"backup/customers/payment_information/credit-card-data.csv"]
["bucketName":"simulation-bucket-03-8f0e25z39nx0b1w","Host":"simulation-bucket-03-8f0e25z39nx0b1w.s3.us-east-1.amazonaws.com","key":"backup/customers/payment_information/credit-card-data.csv"]
["bucketName":"simulation-bucket-03-8f0e25z39nx0b1w","Host":"simulation-bucket-03-8f0e25z39nx0b1w.s3.us-east-1.amazonaws.com","key":"backup/customers/payment_information/credit-card-data.csv"]

While investigating, AWS IAM user "tdir-workshop-jstiles-dev" appears as a new IAM user to investigate that manipulated "credit-card-data.csv". Create a new query that searches new AWS IAM user "tdir-workshop-jstiles-dev" that details what other API calls were made.

```
SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" wh
```

The screenshot shows the AWS Athena console interface. The query editor at the top contains the following SQL query:

```
1 SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" where eventname = 'GetObject' and useridentity.username = 'tdir-workshop-jstiles-dev'
```

The query has been executed successfully, as indicated by the "Completed" status. The results are displayed in a table with 451 rows. The first row is highlighted, showing the following details:

#	eventversion	useridentity
1	1.09	(type:IAMUser, principalid:AIDAYSQZDAYU6CXWUJ, arn:arn:aws:iam::612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid:AKIAJY5...)
2	1.09	(type:IAMUser, principalid:AIDAYSQZDAYU6CXWUJ, arn:arn:aws:iam::612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid:AKIAJY5...)
3	1.09	(type:IAMUser, principalid:AIDAYSQZDAYU6CXWUJ, arn:arn:aws:iam::612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid:AKIAJY5...)
4	1.09	(type:IAMUser, principalid:AIDAYSQZDAYU6CXWUJ, arn:arn:aws:iam::612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid:AKIAJY5...)
5	1.09	(type:IAMUser, principalid:AIDAYSQZDAYU6CXWUJ, arn:arn:aws:iam::612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid:AKIAJY5...)

Notice that there are 451 CloudTrail API calls made by IAM user "tdir-workshop-jstiles-dev" in the above query mostly attributed to "GetObject" and "DeleteObject" API calls in CloudTrail. Create another AWS Athena query that excludes "GetObject" and "DeleteObject" in order to get additional information on the actions performed by the attacker IAM user "tdir-workshop-jstiles-dev".


```
SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" wh
```

The screenshot shows the AWS Athena console interface. The SQL query is: `SELECT * FROM "irworkshopgluedatabase"."irworkshopgluetablecloudtrail" where useridentity.username = 'tdir-workshop-jstiles-dev' and eventname != 'DeleteObject' and eventname != 'GetObject'`. The query is labeled 'Query 12' and has been completed. The results show 18 rows. The first row is highlighted, showing details for a user identity event.

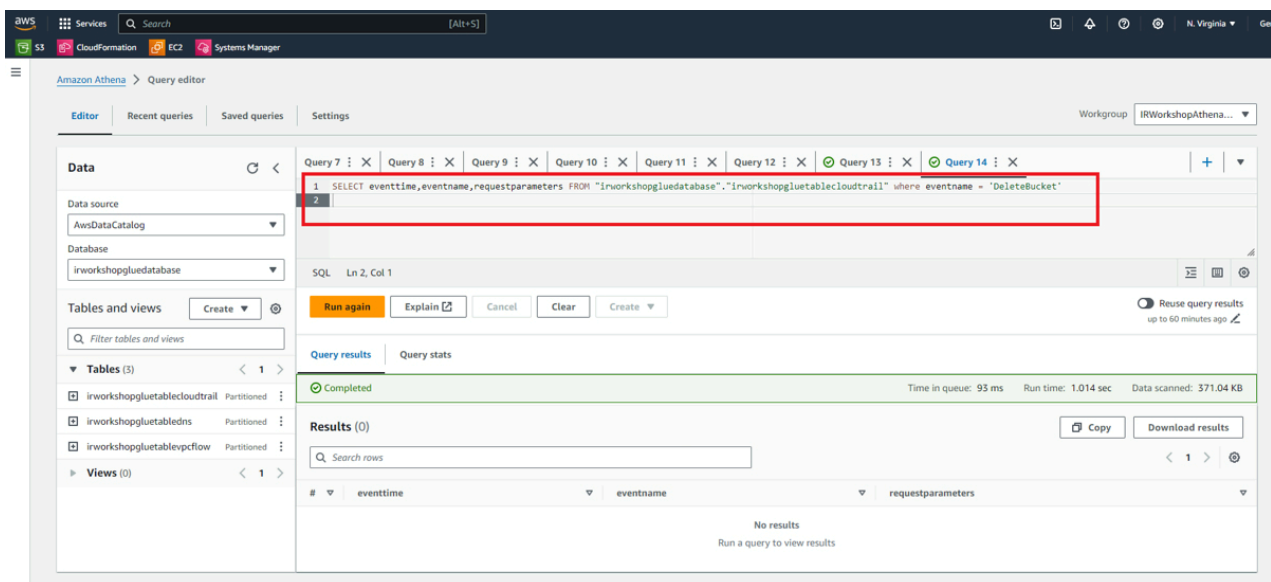
#	eventversion	useridentity
1	1.08	(type:IAMUser, principalid:AIDAYSQZDAYIU6CXWUJ, am:arn:aws:iam:612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid-AKIAV5...)
2	1.09	(type:IAMUser, principalid:AIDAYSQZDAYIU6CXWUJ, am:arn:aws:iam:612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid-AKIAV5...)
3	1.09	(type:IAMUser, principalid:AIDAYSQZDAYIU6CXWUJ, am:arn:aws:iam:612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid-AKIAV5...)
4	1.09	(type:IAMUser, principalid:AIDAYSQZDAYIU6CXWUJ, am:arn:aws:iam:612068038704:user/tdir-workshop-jstiles-dev, accountid:612068038704, invokedby:null, accesskeyid-AKIAV5...)

The screenshot shows the results of the query in the AWS Athena console. The results table has 18 rows. The first row is highlighted, showing details for a user identity event.

#	eventtime	eventsources	eventname	awsregion	sourceipaddress	useragent
1	2024-02-04T00:50:21Z	sts.amazonaws.com	GetCallerIdentity	us-east-1	3.238.145.115	aws-cli/2.15.14 Pyt
2	2024-02-04T00:50:24Z	s3.amazonaws.com	ListBuckets	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
3	2024-02-04T00:50:25Z	s3.amazonaws.com	ListBuckets	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
4	2024-02-04T00:50:24Z	s3.amazonaws.com	ListBuckets	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
5	2024-02-04T00:51:15Z	iam.amazonaws.com	CreateAccessKey	us-east-1	3.238.145.115	aws-cli/2.15.14 Pyt
6	2024-02-04T00:53:05Z	sts.amazonaws.com	GetCallerIdentity	us-east-1	3.238.145.115	aws-cli/2.15.14 Pyt
7	2024-02-04T00:53:07Z	iam.amazonaws.com	DeleteAccessKey	us-east-1	3.238.145.115	aws-cli/2.15.14 Pyt
8	2024-02-04T00:53:08Z	iam.amazonaws.com	ListAccessKeys	us-east-1	3.238.145.115	aws-cli/2.15.14 Pyt
9	2024-02-04T00:50:26Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
10	2024-02-04T00:50:28Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
11	2024-02-04T00:50:29Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
12	2024-02-04T00:50:43Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
13	2024-02-04T00:50:53Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
14	2024-02-04T00:51:05Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
15	2024-02-04T00:51:10Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt
16	2024-02-04T00:51:11Z	s3.amazonaws.com	ListObjects	us-east-1	3.238.145.115	[aws-cli/2.15.14 Pyt

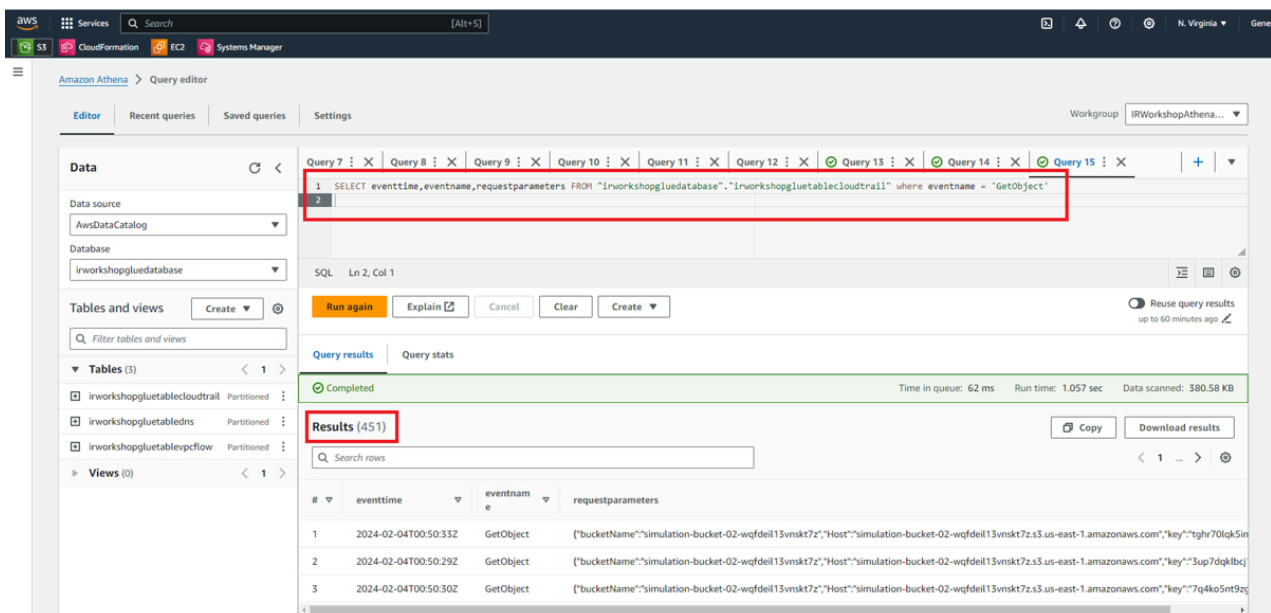
Additionally, search for any bucket deletions inside the AWS Account to investigate further on the actions performed by unknown or abnormal AWS IAM users.

```
SELECT eventtime,eventname,requestparameters FROM "irworkshopgluedatabase
```

Furthermore, check to see whether objects were recieved using the "GetObject" API call within the AWS account. Notice in the results the "simulation-bucket-02-*" returned a lot of results for downloaded objects.

```
SELECT eventtime,eventname,requestparameters FROM "irworkshopgluedatabase
```



Given the previous AWS Athena S3 activity results point to a lot of downloaded objects from S3 Buckets the next best course of action would be use the AWS Management Console and check the Cost & Usage Report concerning S3. From the Cost & Usage reports section under Billing download a Usage report AWS S3 that details in a CSV Report data exfiltration and deletion.

Billing and Cost Management

Home [New](#)
Getting Started [New](#)

Billing and Payments

Bills
Payments
Credits
Purchase Orders

Cost Analysis

Cost Explorer [New](#)
Cost Explorer Saved Reports
Cost Anomaly Detection
Free Tier

Data Exports [New](#)

Cost Organization

Cost Categories
Cost Allocation Tags
Billing Conductor [New](#)

Budgets and Planning

Budgets
Budgets Reports
Pricing Calculator [New](#)

Savings and Commitments

Important
The AWS Usage Report feature will be unavailable at a later date. We strongly recommend that you use AWS Cost and Usage Reports instead.

Billing and Cost Management > Cost and Usage Reports > Download usage report

Download usage report [info](#)

Using the form below, you may create and download a report of your usage for the service you select.

Report content

Services
Amazon Simple Storage Service

Usage type
All usage types

Operation
All operations

Time period
Current billing period

Report granularity
Hourly

[Download](#)

The CSV version of your Usage Report can be opened in any spreadsheet application, such as Excel.

NOTE: Very large usage reports may be truncated. Please check the last row of the downloaded file for warnings or error messages. If you see a message indicating the report was truncated, you can try downloading smaller reports by requesting a

Service	Operation	UsageType	Resource	StartTime	EndTime	UsageValue
AmazonS3	GetObject	C3DataTransfer-Out-Bytes	simulation-bucket-02-wqfdeil13vmskt7z	2/4/2024 0:00	2/4/2024 1:00	2280960000
AmazonS3	DeleteObject	BytesDeleted-STANDARD	simulation-bucket-02-wqfdeil13vmskt7z	2/4/2024 0:00	2/4/2024 1:00	760320000
AmazonS3	PutObject	C3DataTransfer-In-Bytes	simulation-bucket-02-wqfdeil13vmskt7z	2/4/2024 0:00	2/4/2024 1:00	760320000
AmazonS3	StandardStorage	TimedStorage-ByteHrs	cf-templates-7mwqn8lzbvf-us-east-1	2/1/2024 0:00	2/1/2024 1:00	19063464
AmazonS3	StandardStorage	TimedStorage-ByteHrs	cf-templates-7mwqn8lzbvf-us-east-1	2/2/2024 0:00	2/2/2024 1:00	19063464
AmazonS3	StandardStorage	TimedStorage-ByteHrs	cloudtrail-animals4life-171357	2/1/2024 0:00	2/1/2024 1:00	2826264
AmazonS3	StandardStorage	TimedStorage-ByteHrs	cloudtrail-animals4life-171357	2/2/2024 0:00	2/2/2024 1:00	2826264
AmazonS3	StandardStorage	TimedStorage-ByteHrs	cloudtrail-animals4life-171357	2/3/2024 0:00	2/3/2024 1:00	2826264
AmazonS3	GetObject	C3DataTransfer-Out-Bytes	tdir-bucketlogs90dc97-nyjrygoyyc	2/1/2024 1:00	2/1/2024 2:00	275717
AmazonS3	GetObject	C3DataTransfer-Out-Bytes	tdir-bucketlogs90dc97-z24u9j1aiwlo	2/4/2024 1:00	2/4/2024 2:00	877102
AmazonS3	GetObject	C3DataTransfer-Out-Bytes	tdir-bucketlogs90dc97-z24u9j1aiwlo	2/4/2024 1:00	2/4/2024 2:00	612831
AmazonS3	PutObject	C3DataTransfer-In-Bytes	tdir-bucketlogs90dc97-z24u9j1aiwlo	2/4/2024 1:00	2/4/2024 2:00	595689
AmazonS3	GetObject	C3DataTransfer-Out-Bytes	tdir-bucketlogs90dc97-z24u9j1aiwlo	2/4/2024 2:00	2/4/2024 3:00	447110
AmazonS3	DeleteObject	BytesDeleted-STANDARD	tdir-bucketlogs90dc97-nyjrygoyyc	2/1/2024 1:00	2/1/2024 2:00	336994
AmazonS3	PutObject	C3DataTransfer-In-Bytes	tdir-bucketlogs90dc97-nyjrygoyyc	2/1/2024 1:00	2/1/2024 2:00	275717
AmazonS3	ListBucket	C3DataTransfer-Out-Bytes	tdir-bucketlogs90dc97-nyjrygoyyc	2/1/2024 1:00	2/1/2024 2:00	266957
AmazonS3	PutObject	C3DataTransfer-In-Bytes	tdir-bucketlogs90dc97-z24u9j1aiwlo	2/4/2024 0:00	2/4/2024 1:00	194915
AmazonS3	GetObject	C3DataTransfer-Out-Bytes	cf-templates-7mwqn8lzbvf-us-east-1	2/4/2024 0:00	2/4/2024 1:00	189172
AmazonS3	GetObject	C3DataTransfer-Out-Bytes	cf-templates-7mwqn8lzbvf-us-east-1	2/1/2024 0:00	2/1/2024 1:00	153048
AmazonS3	ListBucket	C3DataTransfer-Out-Bytes	tdir-bucketlogs90dc97-z24u9j1aiwlo	2/4/2024 1:00	2/4/2024 2:00	129401

Next, time to check AWS GuardDuty and the findings associated with the AWS account. Notice that there is a finding for "Stealth:S3/ServerAccessLoggingDisabled" with the IAM user "tdirworkshop-rroe-dev" involved in the offending AWS S3 event.

GuardDuty

Summary [New](#)
Findings
Usage
Malware scans

▼ Protection plans
S3 Protection
EKS Protection
Runtime Monitoring [New](#)
Malware Protection
RDS Protection
Lambda Protection

Accounts
Settings
Lists

What's New
Partners [↗](#)

New feature: Introducing expanded Runtime Monitoring
GuardDuty has expanded the Runtime Monitoring threat detection coverage to Amazon ECS workloads (including Fargate) and Amazon EC2 instances (preview). Combined with Amazon EKS coverage, GuardDuty now offers one Runtime Monitoring solution across compute on AWS. GuardDuty accounts already using EKS Runtime Monitoring can now migrate to Runtime Monitoring for the enhanced coverage on their AWS workloads and containers. [Learn more](#)

GuardDuty > Findings Showing 2 of 2 High (0) Medium (0) Low (2)

Findings [Info](#)

[Suppress Findings](#) [Info](#) Saved rules No saved rules

Filter finding status Filter by attribute
Current

<input type="checkbox"/>	Severity	Finding type	Resource	Last seen
<input type="checkbox"/>	Low	Policy:IAMUser/RootCredentialUsage	gfuen-aws-main-general: ASIAVSAQZDAYGRODR55J	8 minute
<input type="checkbox"/>	Low	Stealth:S3/ServerAccessLoggingDisabled	tdlr-workshop-roo-dev: AKIAVSAQZDAYHKKAG2FN	a day ago

GuardDuty

Summary [New](#)
Findings
Usage
Malware scans

▼ Protection plans
S3 Protection
EKS Protection
Runtime Monitoring [New](#)
Malware Protection
RDS Protection
Lambda Protection

Accounts
Settings
Lists

What's New
Partners [↗](#)

New feature: Introducing expanded Runtime Monitoring
GuardDuty has expanded the Runtime Monitoring threat detection coverage to Amazon ECS workloads (including Fargate) and Amazon EC2 instances (preview). Combined with Amazon EKS coverage, GuardDuty now offers one Runtime Monitoring solution across compute on AWS. GuardDuty accounts already using EKS Runtime Monitoring can now migrate to Runtime Monitoring for the enhanced coverage on their AWS workloads and containers. [Learn more](#)

GuardDuty > Findings Showing 2 of 2 High (0) Medium (0) Low (2)

Findings [Info](#)

[Suppress Findings](#) Saved rules No saved rules

[Info](#) No saved rules

Filter finding status Filter by attribute
Current

<input type="checkbox"/>	Severity	Finding type
<input type="checkbox"/>	Low	Policy:IAMUser/RootCredentialUsage
<input type="checkbox"/>	Low	Stealth:S3/ServerAccessLoggingDisabled

Overview

Severity	LOW
Region	us-east-1
Count	1
Account ID	612068038704
Resource ID	simulation-bucket-04-anjd6fcb830u59wg
Created at	02-03-2024 18:57:22 (a day ago)
Updated at	02-03-2024 18:57:22 (a day ago)

Resource affected

Resource role	TARGET
Resource type	AccessKey
Access key ID	AKIAVSAQZDAYHKKAG2FN
Principal ID	AIDAYSQZDAYLSAVTHXBU
User type	IAMUser
User name	tdlr-workshop-roo-dev

Affected resources

AWS::S3::Bucket [simulation-bucket-04-anjd6fcb830u59wg](#)

S3 buckets

Destination: [simulation-bucket-04-anjd6fcb830u59wg](#)

Name	simulation-bucket-04-anjd6fcb830u59wg
------	-------------------------------------------------------

GuardDuty

Summary [New](#)
Findings
Usage
Malware scans

▼ Protection plans
S3 Protection
EKS Protection
Runtime Monitoring [New](#)
Malware Protection
RDS Protection
Lambda Protection

Accounts
Settings
Lists

What's New
Partners [↗](#)

New feature: Introducing expanded Runtime Monitoring
GuardDuty has expanded the Runtime Monitoring threat detection coverage to Amazon ECS workloads (including Fargate) and Amazon EC2 instances (preview). Combined with Amazon EKS coverage, GuardDuty now offers one Runtime Monitoring solution across compute on AWS. GuardDuty accounts already using EKS Runtime Monitoring can now migrate to Runtime Monitoring for the enhanced coverage on their AWS workloads and containers. [Learn more](#)

GuardDuty > Findings Showing 2 of 2 High (0) Medium (0) Low (2)

Findings [Info](#)

[Suppress Findings](#) Saved rules No saved rules

[Info](#) No saved rules

Filter finding status Filter by attribute
Current

<input type="checkbox"/>	Severity	Finding type
<input type="checkbox"/>	Low	Policy:IAMUser/RootCredentialUsage
<input type="checkbox"/>	Low	Stealth:S3/ServerAccessLoggingDisabled

Default server side encryption

Type	Destination
ARN	arn:aws:s3::simulation-bucket-04-anjd6fcb830u59wg
Effective permission	NOT_PUBLIC
Created at	02-04-2024 00:25:18 UTC

Owner

Encryption type	AES256
Kms master key ARN	

Tags

ID	f3420a18baea391e6d0b53f1c4390ca5b8e6359b04d1667d67d81b25a8f55503
tdlr-workshop-01	all-sim-buckets
tdlr-workshop-02	sim-buckets-server-access-logged

Action

Action type	AWS_API_CALL
API	PutBucketLogging
Service name	s3.amazonaws.com
First seen	02-03-2024 18:52:08 (a day ago)
Last seen	02-03-2024 18:52:08 (a day ago)

Actor

