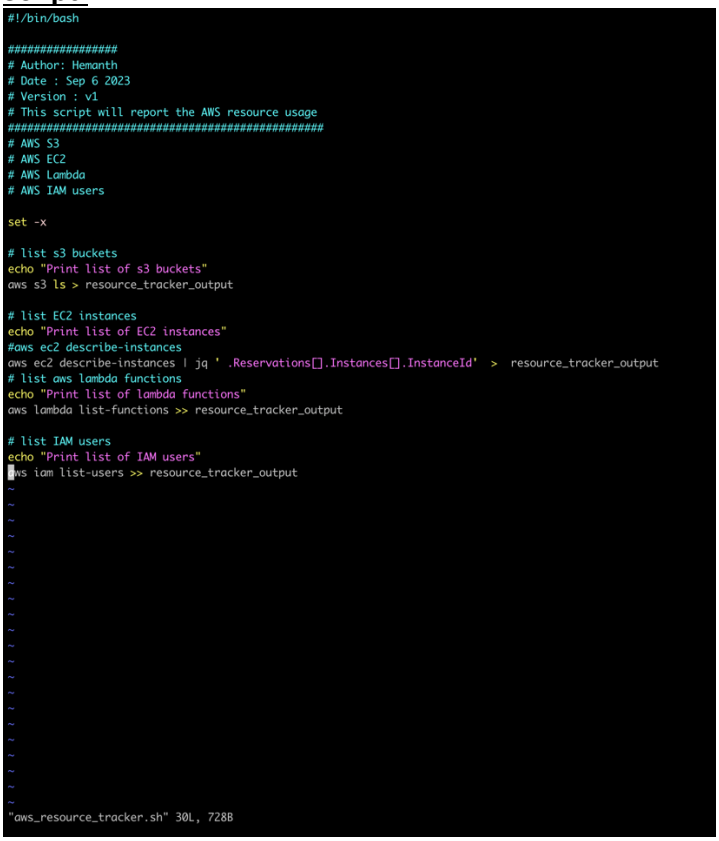
AWS Project using SHELL SCRIPTING for DevOps:

AWS resource tracker using Shell scripting:

Tech stack used: Shell scripting, AWS EC2, S3, LAMBDA, IAM, AWS CLI

Project expectation: We are going to write a script which tracks the all aws services that are present in your AWS account and redirect the output to the file which can be used as a reporting dashboard

Script:



```
#!/bin/bash

###############
# Author: Hemanth
# Date : Sep 6 2023
# Version : v1
# This script will report the AWS resource usage
###############################################
# AWS S3
# AWS EC2
# AWS Lambda
# AWS IAM users

set -x

# list s3 buckets
echo "Print list of s3 buckets"
aws s3 ls > resource_tracker_output

# list EC2 instances
echo "Print list of EC2 instances"
#aws ec2 describe-instances
aws ec2 describe-instances | jq ' .Reservations[].Instances[].InstanceId'  >  resource_tracker_output
# list aws lambda functions
echo "Print list of lambda functions"
aws lambda list-functions >> resource_tracker_output

# list IAM users
echo "Print list of IAM users"
aws iam list-users >> resource_tracker_output
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~
"aws_resource_tracker.sh" 30L, 728B
```

➔ **We will know the output by running the script :**

./aws_resource_tracker.sh | more

➔ **We can see the output using cat command:**

Cat resource_tracker_output

```
ubuntu@ip-172-31-34-43:~$ ./aws_resource_tracker.sh  | more
+ echo 'Print list of s3 buckets'
+ aws s3 ls
Print list of s3 buckets
+ echo 'Print list of EC2 instances'
Print list of EC2 instances
+ jq ' .Reservations[].Instances[].InstanceId'
+ aws ec2 describe-instances
+ echo 'Print list of lambda functions'
+ aws lambda list-functions
Print list of lambda functions
+ echo 'Print list of IAM users'
+ aws iam list-users
Print list of IAM users
ubuntu@ip-172-31-34-43:~$ cat resource_tracker_output
"i-019112bc8c9b21467"
{
    "Functions": []
}
{
    "Users": [
        {
            "Path": "/",
            "UserName": "in28minutes_dev",
            "UserId": "AIDAYU3UX2IVQYSDLTR2N",
            "Arn": "arn:aws:iam::594560930347:user/in28minutes_dev",
            "CreateDate": "2023-08-12T19:44:08+00:00",
            "PasswordLastUsed": "2023-08-12T19:46:53+00:00"
        }
    ]
}
ubuntu@ip-172-31-34-43:~$
```