

Shell-Scripting Project to list AWS Active Resources

In this project we write script file in this when user run the script along with parameter like
.
. <script filename>.sh <region> <service_name> it list down the All the Active resources.

```
1  #!/bin/bash
2
3  #####
4  # Author: Abhishek Veeramalla
5  # Version: v0.0.1
6
7  # Script to automate the process of listing all the resources in an AWS account
8  #
9  # Below are the services that are supported by this script:
10 # 1. EC2
11 # 2. RDS
12 # 3. S3
13 # 4. CloudFront
14 # 5. VPC
15 # 6. IAM
16 # 7. Route53
17 # 8. CloudWatch
18 # 9. CloudFormation
19 # 10. Lambda
20 # 11. SNS
21 # 12. SQS
22 # 13. DynamoDB
23 # 14. VPC
24 # 15. EBS
25 #
26 # The script will prompt the user to enter the AWS region and the service for which the resources n
27 #
28 # Usage: ./aws_resource_list.sh <aws_region> <aws_service>
29 # Example: ./aws_resource_list.sh us-east-1 ec2
30 #####
31
32 # Check if the required number of arguments are passed
33 if [ $# -ne 2 ]; then
34     echo "Usage: ./aws_resource_list.sh <aws_region> <aws_service>"
35     echo "Example: ./aws_resource_list.sh us-east-1 ec2"
36     exit 1
37 fi
38
39 # Assign the arguments to variables and convert the service to lowercase
40 aws_region=$1
41 aws_service=$2
42
43 # Check if the AWS CLI is installed
```

```

44  if ! command -v aws &> /dev/null; then
45      echo "AWS CLI is not installed. Please install the AWS CLI and try again."
46      exit 1
47  fi
48
49  # Check if the AWS CLI is configured
50  if [ ! -d ~/.aws ]; then
51      echo "AWS CLI is not configured. Please configure the AWS CLI and try again."
52      exit 1
53  fi
54
55  # List the resources based on the service
56  case $aws_service in
57      ec2)
58          echo "Listing EC2 Instances in $aws_region"
59          aws ec2 describe-instances --region $aws_region
60          ;;
61      rds)
62          echo "Listing RDS Instances in $aws_region"
63          aws rds describe-db-instances --region $aws_region
64          ;;
65      s3)
66          echo "Listing S3 Buckets in $aws_region"
67          aws s3api list-buckets --region $aws_region
68          ;;
69      cloudfront)
70          echo "Listing CloudFront Distributions in $aws_region"
71          aws cloudfront list-distributions --region $aws_region
72          ;;
73      vpc)
74          echo "Listing VPCs in $aws_region"
75          aws ec2 describe-vpcs --region $aws_region
76          ;;
77      iam)
78          echo "Listing IAM Users in $aws_region"
79          aws iam list-users --region $aws_region
80          ;;
81      route53)
82          echo "Listing Route53 Hosted Zones in $aws_region"
83          aws route53 list-hosted-zones --region $aws_region
84          ;;
85
86      cloudwatch)
87          echo "Listing CloudWatch Alarms in $aws_region"
88          aws cloudwatch describe-alarms --region $aws_region
89          ;;
90      cloudformation)
91          echo "Listing CloudFormation Stacks in $aws_region"
92          aws cloudformation describe-stacks --region $aws_region
93          ;;
94      lambda)
95          echo "Listing Lambda Functions in $aws_region"
96          aws lambda list-functions --region $aws_region
97          ;;
98      sns)
99          echo "Listing SNS Topics in $aws_region"
100         aws sns list-topics --region $aws_region
101         ;;
102      sqs)
103          echo "Listing SQS Queues in $aws_region"
104          aws sqs list-queues --region $aws_region
105          ;;

```

We will take
it from AWS
CLI doc.

```

105     dynamodb)
106         echo "Listing DynamoDB Tables in $aws_region"
107         aws dynamodb list-tables --region $aws_region
108         ;;
109     ebs)
110         echo "Listing EBS Volumes in $aws_region"
111         aws ec2 describe-volumes --region $aws_region
112         ;;
113     *)
114         echo "Invalid service. Please enter a valid service."
115         exit 1
116         ;;
117 esac

```



dhruva9103 commented on Aug 15, 2024

...

line 41: Aws_service is not converted to lower case .
aws_service=\$(echo "\$2" | tr '[:upper:]' '[:lower:]')
this should solve the issue

To install AWS CLI:

→ sudo apt install unzip

→ Go AWS CLI → user guide → Get started → Install and updates → Go to linux → copy curl command

→ aws --version

To configure AWS

→ create new IAM user copy Access key and secret access key

→ aws configure

Now run the script file.