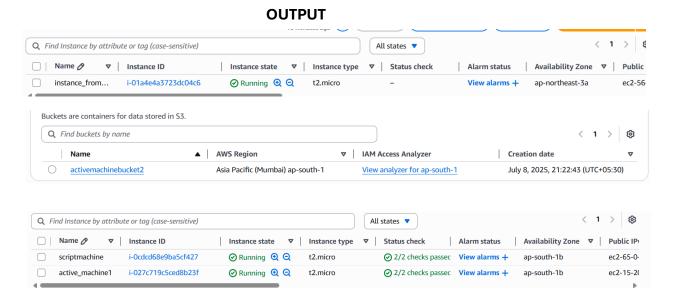# AWS RESOURCE LISTING AUTOMATION SCRIPT

Purpose:

The script was created to **automate and standardize the process of discovering and listing AWS resources** across multiple services in an account. It helps administrators and developers **quickly get an inventory of resources** without manually running separate AWS CLI commands for each service, saving time and reducing human error.

Explanation :

- The script accepts **two inputs**: the AWS region and the target service (e.g., EC2, S3, Lambda).

- It validates that the **AWS CLI is installed and configured**.

- A **case statement** determines which AWS CLI command to run for each service (e.g., describe-instances, list-buckets, list-functions).

- **Global services** like S3 and IAM are handled without requiring a region.

- Results are printed in a **structured format** showing key identifiers for easy review or further processing.

- Includes **error handling** for invalid inputs, missing configuration, and unsupported services.

OUTPUT

```
[root@ip-172-31-14-49 ~]# ./aws_resource_listing.sh ap-south-1 ec2
Listing EC2 Instances in ap-south-1
                    "InstanceId": "i-0cdcd68e9ba5cf427",
                    "InstanceId": "i-027c719c5ced8b23f",
[root@ip-172-31-14-49 ~]# ./aws_resource_listing.sh ap-northeast-3 ec2
Listing EC2 Instances in ap-northeast-3
                    "InstanceId": "i-01a4e4a3723dc04c6",
[root@ip-172-31-14-49 ~]# ./aws_resource_listing.sh ap-northeast-3 s3
Listing S3 Buckets Globally
{
    "Buckets": [
        {
            "Name": "activemachinebucket2",
            "CreationDate": "2025-07-08T15:52:44+00:00"
        }
    ],
    "Owner": {
        "ID": "36bb06b824d4b63f3e1e99ba18ac63f42d744ac73456cf115aa2f49d9e80cb23"
    },
    "Prefix": null
}
[root@ip-172-31-14-49 ~]# ./aws_resource_listing.sh ap-south-1 ebs
Listing EBS Volumes in ap-south-1
{
    "Volumes": [
        {
            "Iops": 3000,
            "VolumeType": "gp3",
            "MultiAttachEnabled": false,
            "Throughput": 125,
            "Operator": {
                "Managed": false
            },
            "VolumeId": "vol-05f45539966b975e8",
            "Size": 8,
            "SnapshotId": "snap-014c7848d95a5a42b",
            "AvailabilityZone": "ap-south-1b",
            "State": "in-use",
            "CreateTime": "2025-07-08T15:51:31.201000+00:00",
            "Attachments": [
                {
                    "DeleteOnTermination": true,
                    "VolumeId": "vol-05f45539966b975e8",
                    "InstanceId": "i-027c719c5ced8b23f",
                    "Device": "/dev/xvda",
                    "State": "attached",
                    "AttachTime": "2025-07-08T15:51:31+00:00"
                }
```