

To access S3 from CLI by using shell script

Step 1:

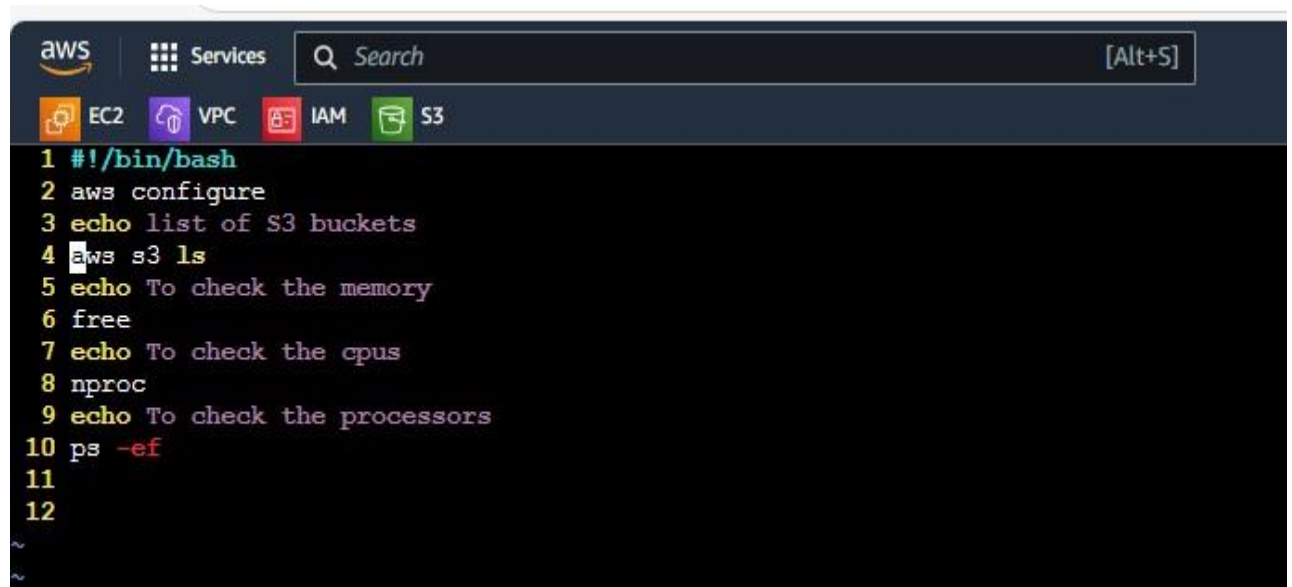
1. Launch the instance
2. Select the IAM service
 - Create one user
 - Give AWS S3 full access permissions
 - Create access key and secret key in user
3. Connect the instance directly

Step 2:

1. Create one new file with shell script extension (.sh)
Ex: vi shellscrip.sh
2. Give executable permissions to the file (shellscrip.sh)
3. Chmod 777 shellscrip.sh – it can provide complete permissions to the file

Commands	
#!/bin/bash	To write script
aws configure	It provides keys
aws s3 ls	To list the buckets
free	To check memory space
nproc	To check CPUs in server
ps -ef	To check CPU processor

4. it is shown in below figure

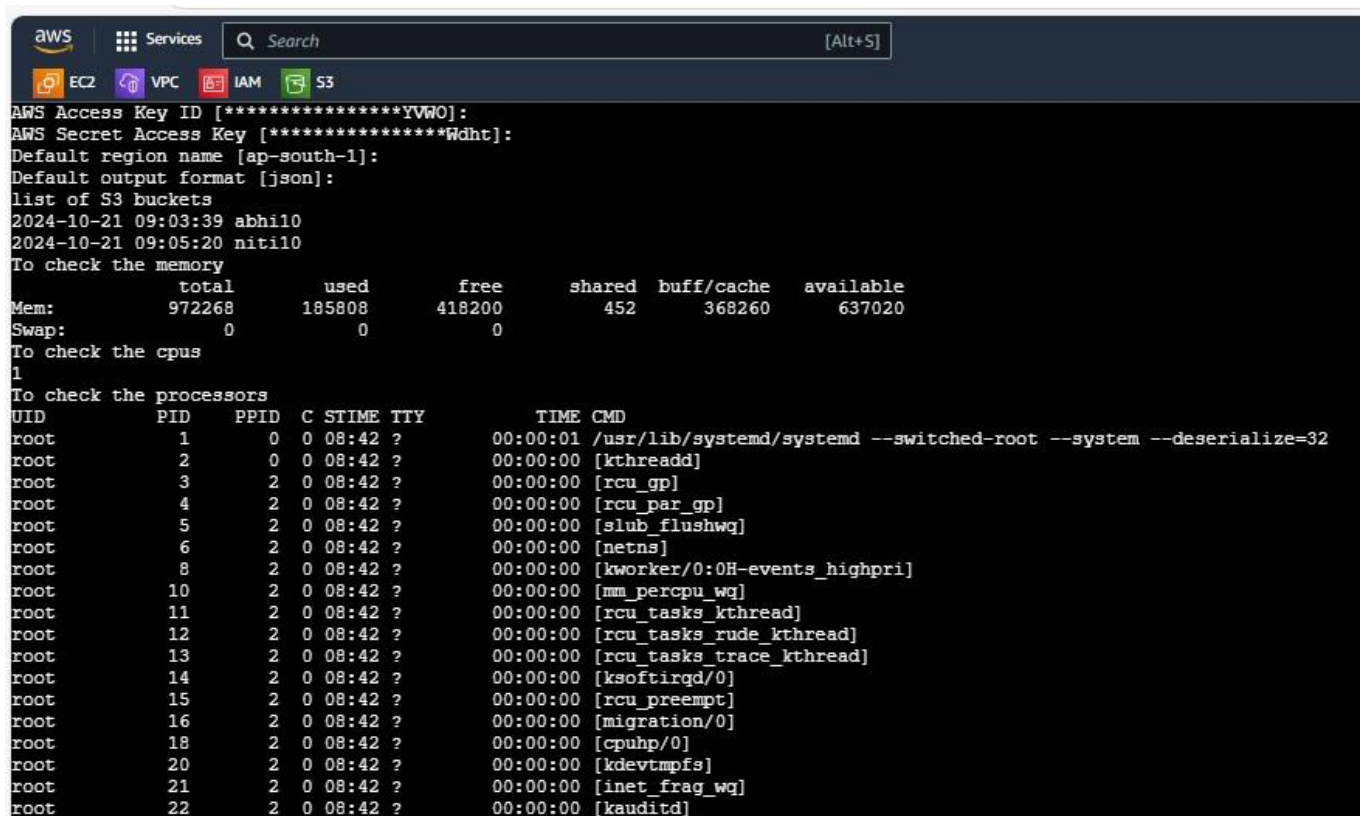


```
aws
Services
Search [Alt+S]
EC2 VPC IAM S3
1 #!/bin/bash
2 aws configure
3 echo list of S3 buckets
4 aws s3 ls
5 echo To check the memory
6 free
7 echo To check the cpus
8 nproc
9 echo To check the processors
10 ps -ef
11
12
```

5. Save and quit from editor

6. Type `sh ./shellscript.sh` to execute the file

7. The file can execute all the steps automatically by shell script as shown in below figure



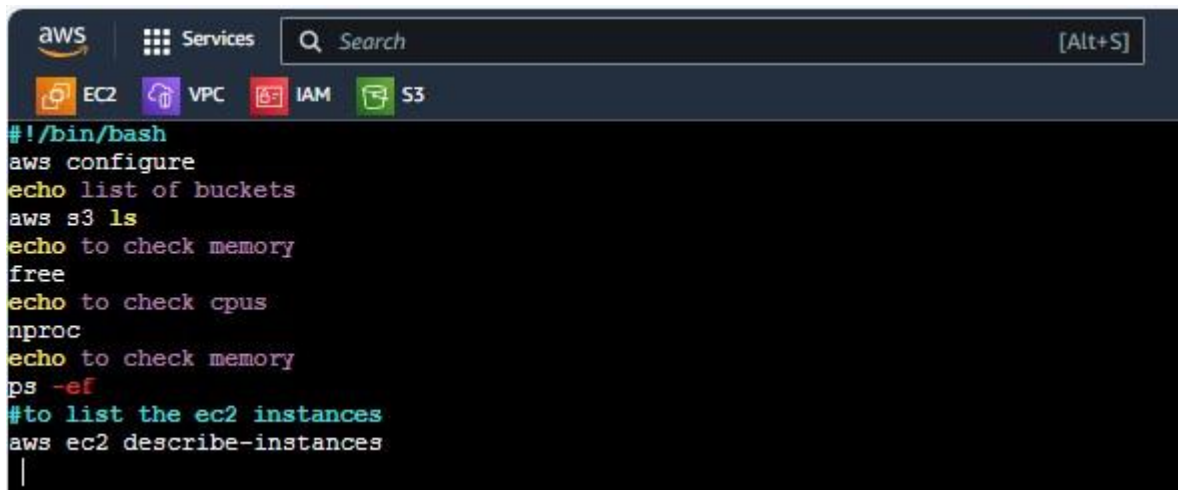
```
aws
Services
Search [Alt+S]
EC2 VPC IAM S3
AWS Access Key ID [*****YVWO]:
AWS Secret Access Key [*****Wdht]:
Default region name [ap-south-1]:
Default output format [json]:
list of S3 buckets
2024-10-21 09:03:39 abhi10
2024-10-21 09:05:20 niti10
To check the memory
Mem:          total      used      free      shared  buff/cache  available
Swap:          0          0          0          452      368260      637020
To check the cpus
1
To check the processors
UID      PID      PPID    C  STIME TTY          TIME CMD
root      1         0  0  08:42 ?        00:00:01 /usr/lib/systemd/systemd --switched-root --system --deserialize=32
root      2         0  0  08:42 ?        00:00:00 [kthreadd]
root      3         2  0  08:42 ?        00:00:00 [rcu_gp]
root      4         2  0  08:42 ?        00:00:00 [rcu_par_gp]
root      5         2  0  08:42 ?        00:00:00 [slub_flushwq]
root      6         2  0  08:42 ?        00:00:00 [netns]
root      8         2  0  08:42 ?        00:00:00 [kworker/0:0H-events_highpri]
root     10         2  0  08:42 ?        00:00:00 [mm_percpu_wq]
root     11         2  0  08:42 ?        00:00:00 [rcu_tasks_kthread]
root     12         2  0  08:42 ?        00:00:00 [rcu_tasks_rude_kthread]
root     13         2  0  08:42 ?        00:00:00 [rcu_tasks_trace_kthread]
root     14         2  0  08:42 ?        00:00:00 [ksoftirqd/0]
root     15         2  0  08:42 ?        00:00:00 [rcu_preempt]
root     16         2  0  08:42 ?        00:00:00 [migration/0]
root     18         2  0  08:42 ?        00:00:00 [cpuhp/0]
root     20         2  0  08:42 ?        00:00:00 [kdevtmpfs]
root     21         2  0  08:42 ?        00:00:00 [inet_frag_wq]
root     22         2  0  08:42 ?        00:00:00 [kauditd]
```

Step 3:

1. To list the instances we use this command

```
aws ec2 describe-instances
```

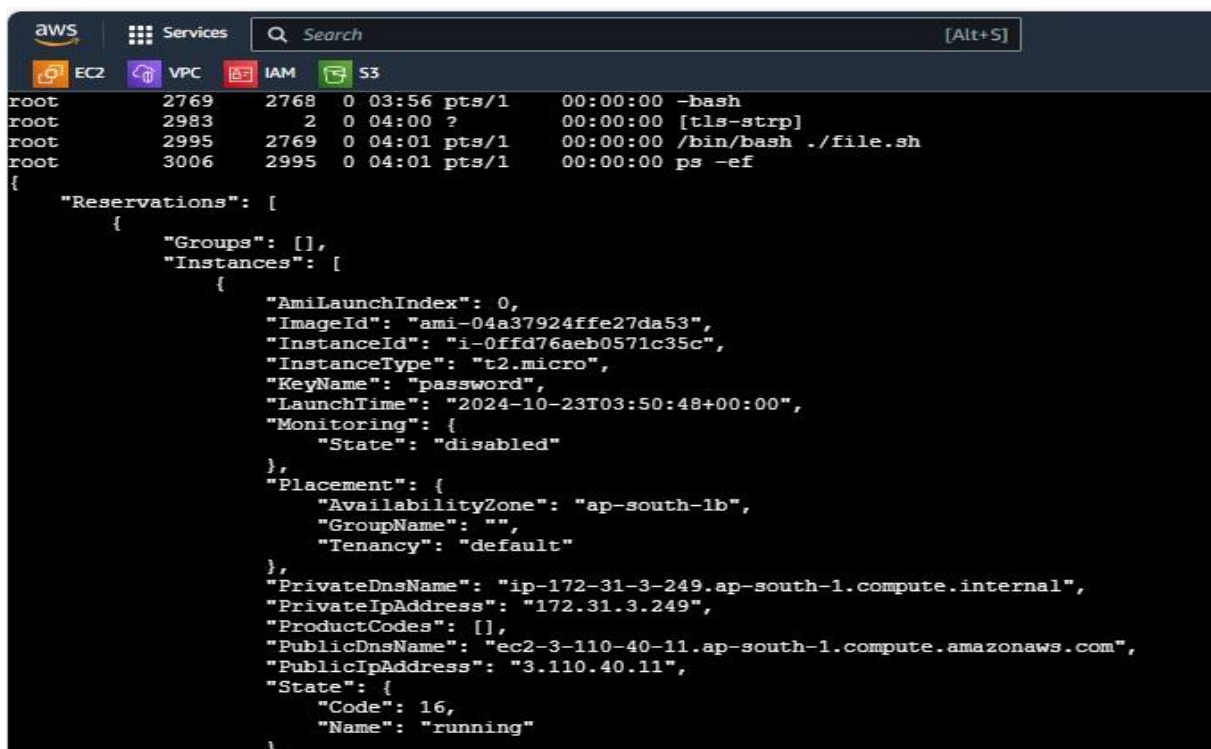
2. It is shown in below script shell figure



```
aws
Services Search [Alt+S]
EC2 VPC IAM S3

#!/bin/bash
aws configure
echo list of buckets
aws s3 ls
echo to check memory
free
echo to check cpus
nproc
echo to check memory
ps -ef
#to list the ec2 instances
aws ec2 describe-instances
|
```

3. Return to the terminal
4. Execute the file then you see the list of instances as shown in below figure



```
aws
Services Search [Alt+S]
EC2 VPC IAM S3

root      2769      0 03:56 pts/1    00:00:00 -bash
root      2983      2 04:00 ?          00:00:00 [tls-strp]
root      2995      0 04:01 pts/1    00:00:00 /bin/bash ./file.sh
root      3006      0 04:01 pts/1    00:00:00 ps -ef

{
  "Reservations": [
    {
      "Groups": [],
      "Instances": [
        {
          "AmiLaunchIndex": 0,
          "ImageId": "ami-04a37924ffe27da53",
          "InstanceId": "i-0ffd76aeb0571c35c",
          "InstanceType": "t2.micro",
          "KeyName": "password",
          "LaunchTime": "2024-10-23T03:50:48+00:00",
          "Monitoring": {
            "State": "disabled"
          },
          "Placement": {
            "AvailabilityZone": "ap-south-1b",
            "GroupName": "",
            "Tenancy": "default"
          },
          "PrivateDnsName": "ip-172-31-3-249.ap-south-1.compute.internal",
          "PrivateIpAddress": "172.31.3.249",
          "ProductCodes": [],
          "PublicDnsName": "ec2-3-110-40-11.ap-south-1.compute.amazonaws.com",
          "PublicIpAddress": "3.110.40.11",
          "State": {
            "Code": 16,
            "Name": "running"
          }
        }
      ]
    }
  ]
}
```