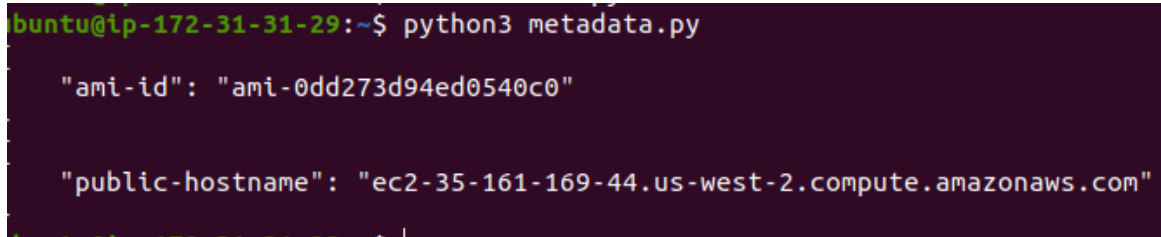


Q2: METADATA FOR A EC2 INSTAVE IN JSON

The instance metadata needs to be fetched from the instance and a the metadataservice is running (<http://169.254.169.254/latest/meta-data/>) which provides the all metadata and we use it in json format . The code provided just use the above uri and gets the instance metadata .

The code is run

```
> python3 metadata.py
```



```
buntu@ip-172-31-31-29:~$ python3 metadata.py
{"ami-id": "ami-0dd273d94ed0540c0",
 "public-hostname": "ec2-35-161-169-44.us-west-2.compute.amazonaws.com"}
```

Here we have shown the meta data for ex in code

```
> ami-id
```

```
> public-hostname
```

We can get the metadata for all the values below

1. ami-id
2. ami-launch-index
3. ami-manifest-path
4. ancestor-ami-ids
5. autoscaling/target-lifecycle-state
6. block-device-mapping/ami
7. block-device-mapping/ebsN
8. block-device-mapping/ephemeralN
9. block-device-mapping/root
10. block-device-mapping/swap
11. elastic-gpus/associations/elastic-gpu-id
12. elastic-inference/associations/eia-id
13. events/maintenance/history
14. events/maintenance/scheduled
15. events/recommendations/rebalance
16. hostname
17. iam/info
18. iam/security-credentials/role-name
19. identity-credentials/ec2/info
20. identity-credentials/ec2/security-credentials/ec2-instance
21. instance-action
22. instance-id

- 23. instance-life-cycle
- 24. instance-type
- 25. ipv6
- 26. kernel-id
- 27. local-hostname
- 28. local-ipv4
- 29. mac
- 30. metrics/vhostmd
- 31. network/interfaces/mac/mac/device-number
- 32. network/interfaces/mac/mac/interface-id
- 33. network/interfaces/mac/mac/ipv4-associations/public-ip
- 34. network/interfaces/mac/mac/ipv6s
- 35. network/interfaces/mac/mac/local-hostname
- 36. network/interfaces/mac/mac/local-ipv4s
- 37. network/interfaces/mac/mac/mac
- 38. network/interfaces/mac/mac/network-card-index
- 39. network/interfaces/mac/mac/owner-id
- 40. network/interfaces/mac/mac/public-hostname
- 41. network/interfaces/mac/mac/public-ipv4s
- 42. network/interfaces/mac/mac/security-groups
- 43. network/interfaces/mac/mac/security-group-ids
- 44. network/interfaces/mac/mac/subnet-id
- 45. network/interfaces/mac/mac/subnet-ipv4-cidr-block
- 46. network/interfaces/mac/mac/subnet-ipv6-cidr-blocks
- 47. network/interfaces/mac/mac/vpc-id
- 48. network/interfaces/mac/mac/vpc-ipv4-cidr-block
- 49. network/interfaces/mac/mac/vpc-ipv4-cidr-blocks
- 50. network/interfaces/mac/mac/vpc-ipv6-cidr-blocks
- 51. placement/availability-zone
- 52. placement/availability-zone-id
- 53. placement/group-name
- 54. placement/host-id
- 55. placement/partition-number
- 56. placement/region
- 57. product-codes
- 58. public-hostname
- 59. public-ipv4
- 60. public-keys/0/openssh-key
- 61. ramdisk-id
- 62. reservation-id
- 63. security-groups
- 64. services/domain
- 65. services/partition
- 66. spot/instance-action

- 67. spot/termination-time
- 68. tags/instance
- 69. Dynamic data categories
- 70. The following table lists the categories of dynamic data.
- 71. Category
- 72. fws/instance-monitoring
- 73. instance-identity/document
- 74. instance-identity/pkcs7
- 75. instance-identity/signature