

UNI: kb2896

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Subject: COMS E6998 Cloud Computing & Big Data

Screenshots for Creating AWS Instances via AWS CLI Tool

Mini-HW-1 (Part-1)

```
kunal@baweja:~$ aws ec2 --region us-west-2 create-security-group --group-name my-security-group --description "My Security Group"
{
  "GroupId": "sg-0f963076"
}
kunal@baweja:~$ aws ec2 --region us-west-2 authorize-security-group-ingress --group-name my-security-group --protocol tcp --port 22 --cidr 160.39.250.94/10
kunal@baweja:~$
```

Create and Configure my-security-group

<input checked="" type="checkbox"/>	sg-0f963076	my-security-group	vpc-a2b3a7c6	My Security Group
<input type="checkbox"/>	sg-6e892e17	default	vpc-a2b3a7c6	default VPC security group

Security Group: sg-0f963076

Description	Inbound	Outbound	Tags
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Edit

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
SSH	TCP	22	160.0.0.0/10

Verify security group creation and configuration

```

kunal@baweja:~$ aws ec2 --region us-west-2 create-security-group --group-name my-security-group --description "My Security Group"
{
  "GroupId": "sg-0f963076"
}
kunal@baweja:~$ aws ec2 --region us-west-2 authorize-security-group-ingress --group-name my-security-group --protocol tcp --port 22 --cidr 160.39.250.94/10
kunal@baweja:~$ aws ec2 run-instances --region us-west-2 --image-id ami-7172b611 --count 1 --instance-type t2.micro --key-name us-west-2-key --security-groups my-security-group
{
  "OwnerId": "644246451492",
  "ReservationId": "r-0f87c1b4cc1bf3d4",
  "Groups": [],
  "Instances": [
    {
      "Monitoring": {
        "State": "disabled"
      },
      "PublicDnsName": "",
      "RootDeviceType": "ebs",
      "State": {
        "Code": 0,
        "Name": "pending"
      },
      "EbsOptimized": false,
      "LaunchTime": "2016-09-26T15:33:26.000Z",
      "PrivateIpAddress": "172.31.19.175",
      "ProductCodes": [],
      "VpcId": "vpc-a2b3a7c6",
      "StateTransitionReason": "",
      "InstanceId": "i-0c9331bca1e8a11fc",
      "ImageId": "ami-7172b611",
      "PrivateDnsName": "ip-172-31-19-175.us-west-2.compute.internal",
      "KeyName": "us-west-2-key",
      "SecurityGroups": [
        {
          "GroupName": "my-security-group",
          "GroupId": "sg-0f963076"
        }
      ],
      "ClientToken": "",
      "SubnetId": "subnet-a5f3ccc1",
      "InstanceType": "t2.micro",
      "NetworkInterfaces": [
        {
          "Status": "in-use",
          "MacAddress": "02:e2:22:50:9d:c7",
          "SourceDestCheck": true,
          "VpcId": "vpc-a2b3a7c6",
          "Description": "",
          "NetworkInterfaceId": "eni-e0de559f",
          "PrivateIpAddresses": [
            {
              "PrivateDnsName": "ip-172-31-19-175.us-west-2.compute.internal",
              "Primary": true,
              "PrivateIpAddress": "172.31.19.175"
            }
          ]
        }
      ],
      "PrivateDnsName": "ip-172-31-19-175.us-west-2.compute.internal",
      "Attachment": {
        "Status": "attaching",
        "DeviceIndex": 0,
        "DeleteOnTermination": true,
        "AttachmentId": "eni-attach-201be28e",
        "AttachTime": "2016-09-26T15:33:26.000Z"
      }
    }
  ]
}

```

Launch a t2.micro ec2 instance

search : i-0c9331bca1e8a11fc Add filter										
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name	Monitoring
	i-0c9331bca1e8a11fc	t2.micro	us-west-2b	running	Initializing	None	ec2-54-213-250-248.us-west-2.compute.amazonaws.com	54.213.250.248	us-west-2-key	

Instance: **i-0c9331bca1e8a11fc** Public DNS: **ec2-54-213-250-248.us-west-2.compute.amazonaws.com**

[Description](#)
[Status Checks](#)
[Monitoring](#)
[Tags](#)

Instance ID	i-0c9331bca1e8a11fc	Public DNS	ec2-54-213-250-248.us-west-2.compute.amazonaws.com
Instance state	running	Public IP	54.213.250.248
Instance type	t2.micro	Elastic IPs	
Private DNS	ip-172-31-19-175.us-west-2.compute.internal	Availability zone	us-west-2b
Private IPs	172.31.19.175	Security groups	my-security-group view rules
Secondary private IPs		Scheduled events	No scheduled events
VPC ID	vpc-a2b3a7c6	AMI ID	amzn-ami-hvm-2016.03.3.x86_64-gp2 (ami-7172b611)

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Verify launched instance in web console of AWS

```
kunal@baweja:~/Documents/cloud-bigdata-6998/aws$ ssh -i "us-west-2-key.pem" ec2-user@ec2-54-213-250-248.us-west-2.compute.amazonaws.com
```

```
  _ | _ | _ )  
 _ | ( _ | /  Amazon Linux AMI  
 _ | \ _ | _ |
```

```
https://aws.amazon.com/amazon-linux-ami/2016.03-release-notes/
```

```
13 package(s) needed for security, out of 26 available
```

```
Run "sudo yum update" to apply all updates.
```

```
[ec2-user@ip-172-31-19-175 ~]$ █
```

SSH into EC2 instance launched via AWS CLI tool

```
kunal@baweja:~/Documents/cloud-bigdata-6998/aws$ aws ec2 --region us-west-2 terminate-instances --instance-ids i-0c9331bca1e8a11fc
{
  "TerminatingInstances": [
    {
      "InstanceId": "i-0c9331bca1e8a11fc",
      "CurrentState": {
        "Code": 32,
        "Name": "shutting-down"
      },
      "PreviousState": {
        "Code": 16,
        "Name": "running"
      }
    }
  ]
}
kunal@baweja:~/Documents/cloud-bigdata-6998/aws$ █
```

Terminate EC2 instance from commandline

search : i-0c9331bca1e8a11fc Add filter										
	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name
		i-0c9331bca1e8a11fc	t2.micro	us-west-2b	terminated		None			us-west-2-key

Instance: i-0c9331bca1e8a11fc

Public DNS: -

Description

Status Checks

Monitoring

Tags

Instance ID

i-0c9331bca1e8a11fc

Instance state

terminated

Instance type

t2.micro

Private DNS

-

Private IPs

-

Secondary private IPs

-

VPC ID

-

Public DNS

-

Public IP

-

Elastic IPs

-

Availability zone

us-west-2b

Security groups

-

Scheduled events

-

AMI ID

amzn-ami-hvm-2016.03.3.x86_64-gp2 (ami-7172b611)

Confirm termination of EC2 instance