

# 1. Create a key pair

```
Microsoft Windows [Version 10.0.18363.1082]
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C:\Users\muvva>aws --version
aws-cli/2.0.56 Python/3.7.7 Windows/10 exe/AMD64

C:\Users\muvva>aws ec2 create-key-pair --key-name vahini654
{
  "KeyFingerprint": "82:2d:6a:02:4d:e0:ba:91:04:b2:f1:3f:68:69:fe:c1:a3:f8:27:9f",
  "KeyMaterial": "-----BEGIN RSA PRIVATE KEY-----\nMIIEpAIBAAKCAQEAkVki11X1beUXSr77UKZ2FZVv+dCNwfrsK9c5N3E+VLf11Fen\n+TphjuYqI4ZY4bEX\nQhAVkHG9LocPNrZGibm+pP7I1oWi10/hnStQkKLrQx9XeD10\nnnQt6yewbL7k4gPIqf90mxq17KKEyHiX0SCKPLQNKkhSW/GIHbhV2kAVgQ\nPn0bssu\nnZR5GyYul1jqJUM5OL+V\nRsq3JfFR/OracAfQmnm5FI4HXwplvP6CdHR6dLP4+VtW1\nnf6snnD0zgSjcGpYBbfEsXi0ZwD2jLZF+Wd2NEwEejdiGsw4Uvb0zH\nZ96JSSyCQd\nn1/CrhOH16CkgOcJur4y/k9\nvmGyoZiHnmFwRkQIDAQABAoIBAG1aE+XwEt2d7S1Z\nIn+ryGdgbpyzf0Qj58dwjL7CkXFWMLj1t581HZJ34jHgRbXNh/rL0ubLu\njiqrPQJh3\nn8n5Cgf2gJzqdlpqUzn4hEN+1a\nMb8r5IsZMwxzjTRcOepZaZKE8baf3VC/ikY6G6\nlnB6acMsa5NkywJ61Ejr18d9oJ4ZM18EBV77+A+Oskr64mNg+r8DHfns\nDc79xKGdH\nnrK5b2W0meDnypujM0juzaG/SsUIQ\nUOCQr0sluXOCDBwMr2FMV7Hyno9dU2UogG2k\n\nnhpWxwch9Tu6/K1Gxe0pgbbF7hiNimb4MvO+/V3cDsvQRRonEv1A5Ex1\nAvDwgXBZ\n\nn5b3/FgECgYEAyH50C/h+1Z+ovvkLgIb\n1SUMVtTCiXB24PX5easMNHZp1GxmR8gYR\n\nnQi9V3IB6U1cm/iOD9MNQznBpI287uuUg3dQzrmx8FP0ebHDXfUjP\nkWiZSYe+kh2Ng\n\nnXVeZdwXJYBEwT021XJqwTJOMf0zSF2FB5a\njbs8S358TEwt86htmxGECgYEAuY4M\n\nn/pZ14Qe27ArCKpm1CSXwi64nAd9MGOyA7wEO1dYGTFFI1f701d5d2/K\nMYweZ98h\n\nnzvXVhneuteQFTRqW7EL1sUxLGeUotUG2t7wpn\nex2cSu/OPZ1U2Jkas0UJ9+RBpar\n\nneyMr786NB9aecV07eQHaqmgshoiwD08MFyPT2zEcGyEAGu4k08+Y/DC\nzaS8/fs40\n\nnNGXCq0/JdrVoLkJChgJ0BQ7z1d3ATN0+VjwnGQX3\nXqaXrFIFeac681oyRLsp5jk\n\nnmIwxJHUG6FdSke0gshsPmX6jffG6462Rh1DnES9eSAA21PiYDucQ\nS8GSHXYWLF\n\nnmD02N10J901QEfdkTLiv1iECgYAOjvvyqBPgevdI2Vun\nBGepAW3+yFent1a2PRxMy\n\nng01qmgeo41W63i5SC5z2KAK/NfU0xScL5/H16QUGNQvW83bn61T5d8\nimv5EqnFB\n\nnnTvOrjzkyD/qojp0/mNEWeYV6gug7rVpper01/Asy0QHNP\n9zkRetAxxRvTZTok2W\n\nnCzDMIQkBgQCfuuPf0/tSrt9wUakjRnjvHYxSdNh/rMGbk1MCohzD\nHhYS0HeS0a\n\nnilMyjo1dzq6PttJ0brpawz16GvVX5k9k21MdmstvTq+q01cDhQ\nI7j9Lw5yIJCyVvD\n\nn080f69qHRp5Qfox5zLy4MqVRcngXyE+0CSXxFKvvULArpISgmFwt3w\n\n\n-----END RSA PRIVATE KEY-----",
  "KeyName": "vahini654",
  "KeyPairId": "key-0102164aa70a497d2"
}
```

aws

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Key pairs (1)

Filter key pairs

<input type="checkbox"/>	Name	Fingerprint	ID
<input type="checkbox"/>	vahini654	82:2d:6a:02:4d:e0:ba:91:04:b2:f1:3f:6...	key-0102164aa70a497d2

## 2. Create a security group

```
C:\Users\muvva>aws ec2 create-security-group --group-name vahini123securitygroup --description "vahini123securitygroup"
{"GroupId": "sg-05bc8ae02ab83b5ab"}
```

The screenshot shows the AWS Management Console interface for Security Groups. The left sidebar contains navigation links: Apps, YouTube, Gmail, AWS Services, New EC2 Experience, EC2 Dashboard, Events, Tags, Limits, Instances, Instance Types, Launch Templates, and Spot Requests. The main content area is titled "Security Groups (3)" and includes a search bar, a refresh button, an Actions dropdown, and a "Create security group" button. Below this is a table listing the security groups.

<input type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	-	sg-05bc8ae02ab83b5ab	vahini123securitygroup	vpc-cc54b9a7	vahini123securitygroup	8290210587C
<input type="checkbox"/>	-	sg-083f1e3db9ecee28f	vanisecuritygroup	vpc-cc54b9a7	vanisecuritygroup	8290210587C
<input type="checkbox"/>	-	sg-c23e69a5	default	vpc-cc54b9a7	default VPC security gr...	8290210587C

## 3. Launch an instance using the above created key pair and security group.

```
Command Prompt - aws ec2 run-instances --image-id ami-0e306788ff2473ccb --instance-type t2.micro --key-name vahini654 --placement-availability-zone ap-south-1a --monitoring-state disabled --subnet-id subnet-3388825b --vpc-id vpc-cc54b9a7 --private-ip-address 172.31.45.63 --private-dns-name ip-172-31-45-63.ap-south-1.compute.internal --product-codes [] --public-dns-name "" --state-code 0 --state-name pending --state-reason "" --state-transition-reason "" --subnet-id subnet-3388825b --vpc-id vpc-cc54b9a7 --architecture x86_64 --block-device-mappings [] --client-token 52b22daf-9a37-4fde-a0c6-df0260bde4ce
```

aws Services

vahini Mumbai Support

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Instances **New**

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We're redesigning the EC2 console to make it easier to use. To switch between the old console and the new console, use the New EC2 Experience toggle above the navigation panel. We'll release updates continuously based on customer feedback.

Instances (3) Info

Filter instances

Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip	IPv6 IPs	Monitoring	Security Group name	Key name
ap-south-1a	-	-	-	-	disabled	default	vahincli
ap-south-1a	-	-	-	-	disabled	vanisecuritygroup	vahini321
ap-south-1a	ec2-13-126-66-89.ap-...	13.126.66.89	-	-	disabled	default	vahini654

4. Create an EBS volume of 1 GB.

```
ClientToken : 52b22daf-9a37-4fde-a0c6-df0260bde4ce ,
C:\Users\muvva>aws ec2 create-volume --availability-zone ap-south-1c --size 1 --volume-type gp2
{
  "AvailabilityZone": "ap-south-1c",
  "CreateTime": "2020-10-14T17:14:14+00:00",
  "Encrypted": false,
  "Size": 1,
  "SnapshotId": "",
  "State": "creating",
  "VolumeId": "vol-011e299a5326135db",
  "Iops": 100,
  "Tags": [],
  "VolumeType": "gp2"
}
```

5. The final step is to attach the above created EBS volume to the instance you created in the previous steps.

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachments
	vol-011e299...	1 GiB	gp2	100		October 14, 2020 at...	ap-south-1c	available	None	
	vol-0d344e7...	8 GiB	gp2	100	snap-027b63b...	October 14, 2020 at...	ap-south-1a	in-use	None	i-09b654a...
	vol-04a3cc0...	8 GiB	gp2	100	snap-027b63b...	October 14, 2020 at...	ap-south-1a	in-use	None	i-0d1f0986
	vol-04dfaaf...	8 GiB	gp2	100	snap-027b63b...	October 13, 2020 at...	ap-south-1a	in-use	None	i-016c62bc