

ROHIT GUPTA

CLOUD CREATION



Amazon Web Services (AWS) is a subsidiary of Amazon that provides ondemand cloud computing platforms to individuals, companies and governments, on a metered pay-as-you-go basis. In aggregate, these cloud computing web services provide a set of primitive, abstract technical infrastructure and distributed computing building blocks and tools. One of these services is Amazon Elastic Compute Cloud, which allows users to have at their disposal a virtual cluster of computers, available all the time, through the Internet. AWS's version of virtual computers emulate most of the attributes of a real computer including hardware (CPU(s) & GPU(s) for processing, local/RAM memory, harddisk/SSD storage); a choice of operating systems; networking; and preloaded application software such as web servers, databases, CRM, etc.

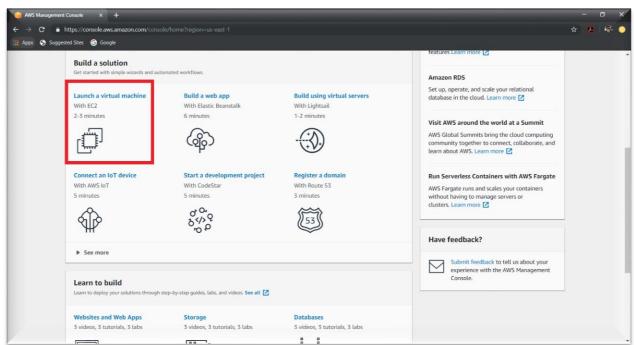
EC2

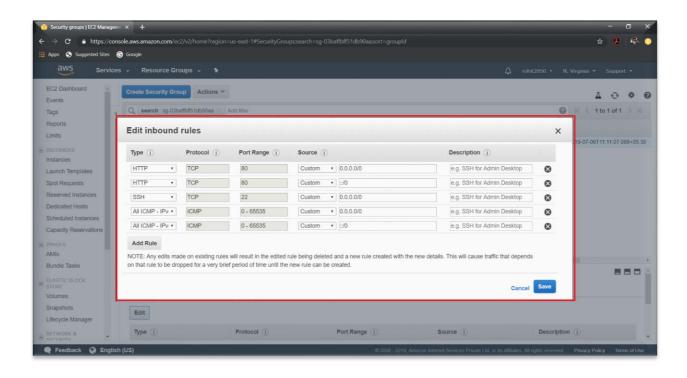
An EC2 instance is a virtual server in Amazon's Elastic Compute Cloud (EC2) for running applications on the Amazon Web Services (AWS) infrastructure. AWS is a comprehensive, evolving cloud computing platform; EC2 is a service that allows business subscribers to run

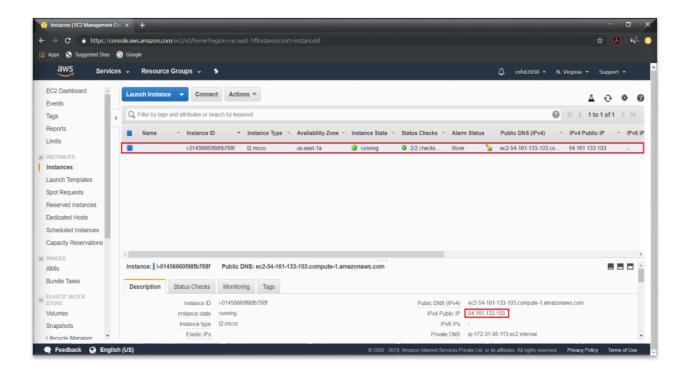
application programs in the computing environment. The EC2 can serve as a practically unlimited set of virtual machines.

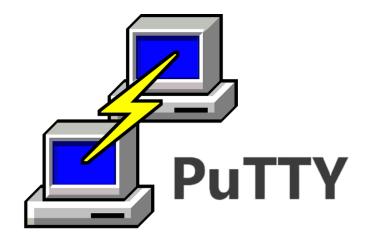
CREATING INSTANCE











It is a free and open-source terminal emulator, serial console and network file transfer application. It supports several network protocols, including SCP, SSH, Telnet, rlogin, and raw socket connection. It can also connect to a serial port. The name "PuTTY" has no official meaning.

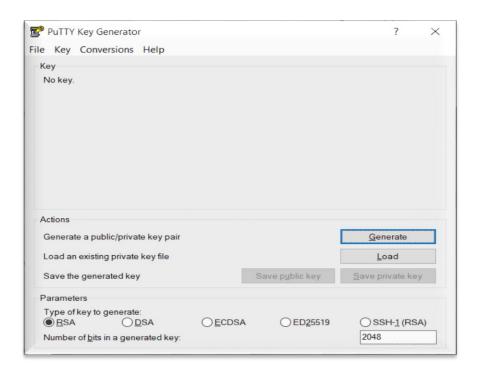
PuTTY was originally written for Microsoft Windows, but it has been ported to various other operating systems. Official ports are available for some Unix-like platforms, with work-in-progress ports to Classic Mac OS and macOS, and unofficial ports have been contributed to platforms such as Symbian, Windows Mobile and Windows Phone.

PUTTYGEN

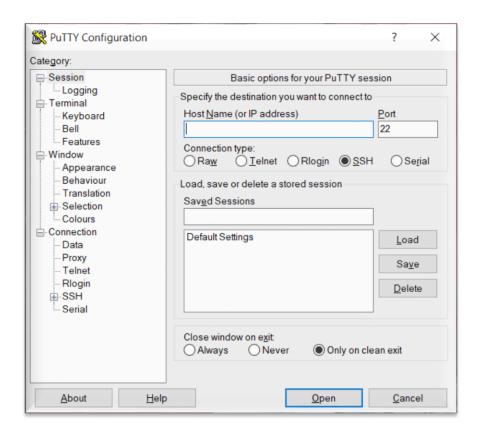
PuTTYgen originates from PuTTY and is also part of the PuTTY installation package. It does not matter if you use PuTTYgen from WinSCP or the PuTTY installation package, they are identical.

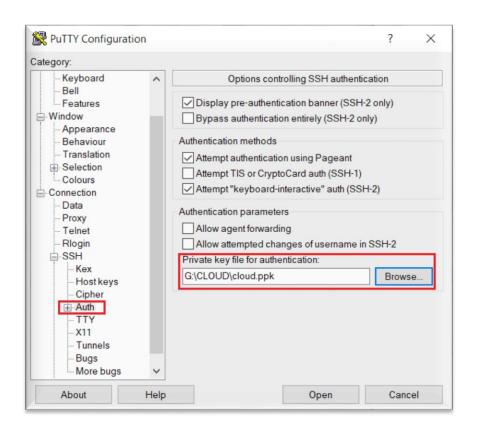
When you run PuTTYgen you will see a window where you have two choices: *Generate*, to generate a new public/private key pair, or *Load* to load in an existing private key.

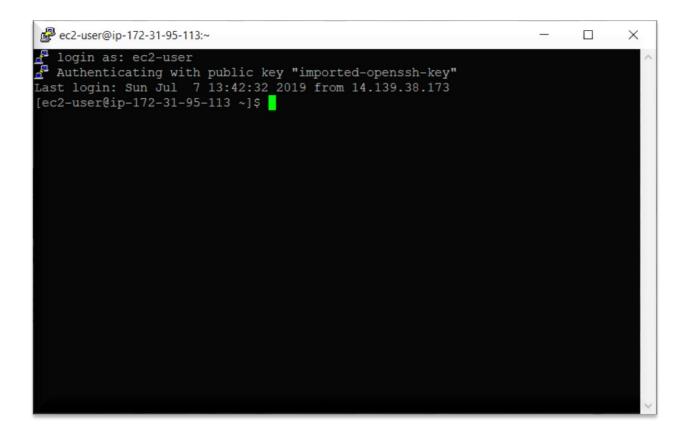
GENERATING THE KEY



SETTING IT UP







SETTING UP THE LAMP SERVER

>>Installing httpd

```
[root@ip-172-31-95-113 ec2-user]# yum install httpd*
Last metadata expiration check: 1:45:25 ago on Sun 07 Jul 2019 12:02:14 PM UTC. Package httpd-2.4.37-11.module+el8.0.0+2969+90015743.x86_64 is already installed
Package httpd-devel-2.4.37-11.module+el8.0.0+2969+90015743.x86 64 is already ins
Package httpd-filesystem-2.4.37-11.module+el8.0.0+2969+90015743.noarch is alread
y installed.
Package httpd-manual-2.4.37-11.module+el8.0.0+2969+90015743.noarch is already in
stalled.
Package httpd-tools-2.4.37-11.module+el8.0.0+2969+90015743.x86 64 is already ins
talled.
Dependencies resolved.
 Package
                                        Version
                                                                   Repository
Installing:
                      x86_64
                                        2.4.7.04-2.e17
                                                                   epel
                                                                                    22 k
httpd-itk
Transaction Summary
Install 1 Package
Total download size: 22 k
Installed size: 33 k
Is this ok [y/N]: y
Downloading Packages:
httpd-itk-2.4.7.04-2.e17.x86_64.rpm
```

>>Installing mariadb

```
Is this ok [y/N]: y
Downloading Packages:
httpd-itk-2.4.7.04-2.el7.x86_64.rpm
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
   Preparing
                                   : httpd-itk-2.4.7.04-2.el7.x86 64
   Running scriptlet: httpd-itk-2.4.7.04-2.el7.x86 64
                                  : httpd-itk-2.4.7.04-2.e17.x86 64
   Verifying
Installed:
   httpd-itk-2.4.7.04-2.e17.x86 64
[root@ip-172-31-95-113 ec2-user]# yum install mariadb*
Last metadata expiration check: 1:57:04 ago on Sun 07 Jul 2019 12:02:14 PM UTC.
Package mariadb-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
Package mariadb-backup-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
Package mariadb-common-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
Package mariadb-connector-c-3.0.7-1.el8.x86_64 is already installed. Package mariadb-connector-c-config-3.0.7-1.el8.noarch is already installed. Package mariadb-connector-c-devel-3.0.7-1.el8.x86_64 is already installed. Package mariadb-connector-odbc-3.0.7-1.el8.x86_64 is already installed.
Package mariadb-devel-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
```

>>Installing PHP

```
Installed:
   httpd-itk-2.4.7.04-2.e17.x86_64
Complete:

[root@ip-172-31-95-113 ec2-user]# yum install mariadb*
Last metadata expiration check: 1:57:04 ago on Sun 07 Jul 2019 12:02:14 PM UTC.
Package mariadb-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
Package mariadb-backup-3:10.3.11-2.module+e18+2885+7b8bb354.x86_64 is already installed. Package mariadb-common-3:10.3.11-2.module+e18+2885+7b8bb354.x86_64 is already installed. Package mariadb-connector-c-3.0.7-1.e18.x86_64 is already installed.
Package mariadb-connector-c-config-3.0.7-1.el8.noarch is already installed. Package mariadb-connector-c-devel-3.0.7-1.el8.x86_64 is already installed.
Package mariadb-connector-odbc-3.0.7-1.el8.x86_64 is already installed.
Package mariadb-devel-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
Package mariadb-embedded-3:10.3.11-2.module+e18+2885+7b8bb354.x86_64 is already installed.
Package mariadb-embedded-devel-3:10.3.11-2.module+e18+2885+7b8bb354.x86_64 is already installed.
Package mariadb-errmsg-3:10.3.11-2.module+e18+2885+7b8bb354.x86_64 is already installed.
Package mariadb-gssapi-server-3:10.3.11-2.module+el8+2885+7b8bb354.x86 64 is already installed.
Package mariadb-java-client-2.2.5-2.el8.noarch is already installed.
Package mariadb-oqgraph-engine-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed. Package mariadb-server-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed. Package mariadb-server-galera-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
Package mariadb-server-utils-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
Package mariadb-test-3:10.3.11-2.module+el8+2885+7b8bb354.x86_64 is already installed.
 Dependencies resolved.
 Nothing to do.
 Complete!
 [root@ip-172-31-95-113 ec2-user]# yum install php*
```

>>Starting Services

>>Permanently starting the services

>>Disabling selinux

```
# cot@ip-172-31-95-113 ec2-user]# setenforce 0
```

CREATING DATABASE

```
Groot@ip-172-31-95-113 ec2-user]# mysqladmin -u password

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```

>>Login as root

```
[root@ip-172-31-95-113 ec2-user]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 435
Server version: 10.3.11-MariaDB MariaDB Server
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

>>Creating User

```
# cost@pt7:3195-113 ec2-user]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 435
Server version: 10.3.11-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create user 'localhost' identified by 'commands';'
```

>>Giving privileges to the user

```
[root@ip-172-31-95-113 ec2-user]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 436
Server version: 10.3.11-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> GRANT ALL PRIVILEGES ON .* to .* to .* '@localhost IDENTIFIED BY .* ];
```

INSTALLING OWNCLOUD



OwnCloud is a suite of client—server software for creating and using file hosting services. ownCloud functionally has similarities to the widely used Dropbox. The primary functional difference between ownCloud and Dropbox is that ownCloud does not offer data centre capacity to host stored files. The Server Edition of ownCloud is free and open-source,

thereby allowing anyone to install and operate it without charge on their own private server.

>> adding repositry

```
# Control | Tour | Tour
```

```
[root@ip-172-31-95-113 ec2-user]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 436
Server version: 10.3.11-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> exit
Bye
[(root@ip-172-31-95-113 ec2-user]# curl -L https://download.owncloud.org/download/repositories/stable/Cent
DS_7/ce:stable.repo -o /etc/yum.repos.d/ownCloud.repo
```

>>Install OwnCloud

```
[root@ip-172-31-95-113 ec2-user]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 436
Server version: 10.3.11-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> exit
Bye
[root@ip-172-31-95-113 ec2-user]# yum install owncloud]
```

>>Restarting services

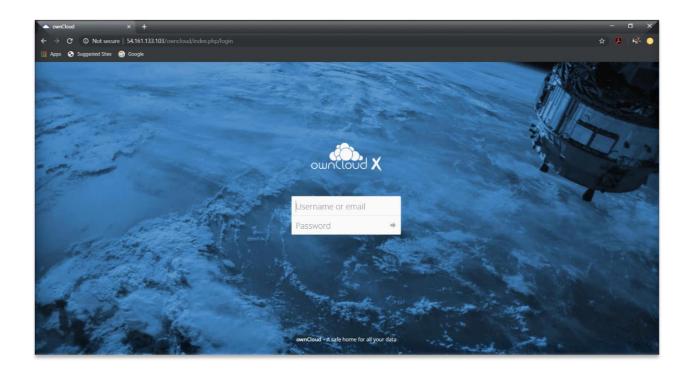
```
[root@ip-172-31-95-113 ec2-user]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 436
Server version: 10.3.11-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

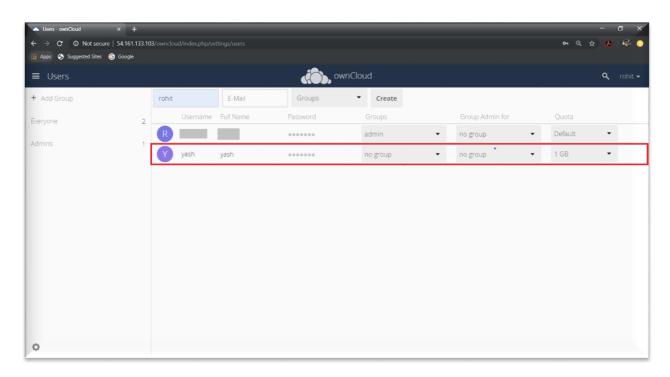
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> exit

Bye
[root@ip-172-31-95-113 ec2-user]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-95-113 ec2-user]# service mariadb restart
Redirecting to /bin/systemctl restart mariadb.service
[root@ip-172-31-95-113 ec2-user]# [
Inserting to Inserting the Inserting to Inserting the Inserting to Inserting the Inserti
```



CREATING USERS AND GROUPS



LIMITING THE DISK USAGE TO 2GB/USER

