

How to create CS: GO Server on Linux VPS

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The official Steam server game for Counter-Strike: Global Offensive is suitable for most purposes. However, you cannot control them. If you create your own server, you will be able to:

1. Set your own rules, such as match time, freezing time, maximum players, etc. But make sure you don't break important rules.
2. There are private matches with friends.
3. Organize competitions / tournaments.
4. Play on a custom map.

Instructions for creating CS: GO Server on Linux VPS

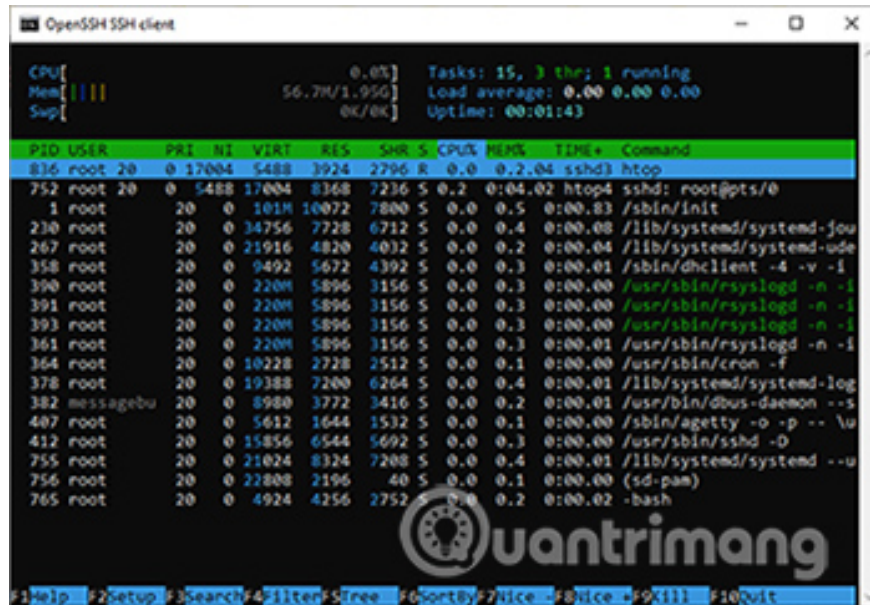
1. Why create game server on Linux?
2. Requirements on game server
3. Upgrade and restart the game server
4. Install steamcmd
5. Install CS: GO dedicated server
6. Register GSLT
7. Launch the CS: GO dedicated server
8. Start the game and connect to the server

Why create game server on Linux?

Some of you might think, is it simpler to create a game server on a Windows computer? First, if you host a game on your home computer, that is usually only enough for local network games. Most Internet service providers offer decent download quality but not very good for uploading. The server lagged, jerked and provided an inconsistent gaming experience. It is better to hire a server from a reputable cloud provider if you want to play games smoothly.

Although most cloud services allow you to host Windows as an operating system, this is not ideal either. Windows consumes a lot of RAM that you might be using to host your game instead. This results in increased costs. You also have to pay for a license every hour, making the cost increase further. Last but not least, steps to configure game server (srcds daemon) are quite similar on both Windows and Linux. This means that doing this on Microsoft's operating system is not easier on Linux.

Below, an example of a Debian system uses only 56.7MB of RAM.



```
OpenSSH SSH client
CPU[ 0.0%] Tasks: 15, 3 thr: 1 running
Mem[||||| 56.7M/1.95G] Load average: 0.00 0.00 0.00
Swap[ 0K/0K] Uptime: 00:01:43

  PID USER      PR  NI  VIRT  RES  SHR  S  CPU% MEM%  TIME+  Command
  836 root    20   0 17004  5488  3924  2796  R   0.0  0.2  0.04  sshd3 htop
  752 root    20   0  5488 17004  8368  7236  S   0.2  0.5  0:04.02 htop4 sshd: root@pts/0
    1 root    20   0 101M 10072  7800  S   0.0  0.5  0:00.83 /sbin/init
  230 root    20   0 34756  7728  6712  S   0.0  0.4  0:00.00 /lib/systemd/systemd-jou
  267 root    20   0 21916  4820  4032  S   0.0  0.2  0:00.04 /lib/systemd/systemd-ude
  358 root    20   0  9492  5672  4392  S   0.0  0.3  0:00.01 /sbin/dhclient -4 -v -i
  390 root    20   0  220M  5896  3156  S   0.0  0.3  0:00.00 /usr/sbin/rsyslogd -n -l
  391 root    20   0  220M  5896  3156  S   0.0  0.3  0:00.00 /usr/sbin/rsyslogd -n -l
  393 root    20   0  220M  5896  3156  S   0.0  0.3  0:00.00 /usr/sbin/rsyslogd -n -l
  361 root    20   0  220M  5896  3156  S   0.0  0.3  0:00.01 /usr/sbin/rsyslogd -n -l
  364 root    20   0 10228  2728  2512  S   0.0  0.1  0:00.00 /usr/sbin/cron -f
  378 root    20   0 19388  7200  6264  S   0.0  0.4  0:00.01 /lib/systemd/systemd-log
  382 messagebu 20   0  8980  3772  3416  S   0.0  0.2  0:00.01 /usr/bin/dbus-daemon --s
  407 root    20   0  5612  1644  1532  S   0.0  0.1  0:00.00 /sbin/agetty -o -p -- \u
  412 root    20   0 15856  6544  5692  S   0.0  0.3  0:00.00 /usr/sbin/sshd -D
  755 root    20   0 21024  8324  7208  S   0.0  0.4  0:00.01 /lib/systemd/systemd --u
  756 root    20   0  22808  2196  40  S   0.0  0.1  0:00.00 (sd-pam)
  765 root    20   0  4924  4256  2752  S   0.0  0.2  0:00.02 -bash
```

Requirements on game server

CS: GO server games do not require much, so virtual private servers will work well (no need for dedicated servers). The minimum requirements include:

1. 2GB RAM.
2. Two virtual cores / CPU. The Intensive compute (computer specialized in processing) can respond faster. Try the normal computer first, then upgrade to a computer that specializes in processing, if the server is laggy.
3. At least 40GB of storage.
4. Using the Debian operating system. You can also use other distributions, if you really want to, but Debian will give you the easiest experience. The instructions in this article are exclusively for Debian.
5. If your VPS provider allows you to configure the firewall through the web interface control panel, disable it in this case.
6. Configure your server to use the best SSH-based authentication. If you intend to use a password, use a strong password! Most time servers are attacked by using weak or very weak passwords. Authentication based on SSH key will prevent this.
7. If you don't have a Steam account, create an account here.

You can get affordable and reliable VPS at Linode or DigitalOcean.

Upgrade and restart the game server

Once you have set up your game server, log in as root via SSH. If your provider only allows you to log in as a regular user with sudo privileges, enter this information after you log in.

```
sudo -i #ONLY ENTER THIS IF YOU ARE NOT ALREADY ROOT!
```

Make sure all packages are up to date.

```
apt update && apt upgrade
```

Restart in case the important software has to be reloaded (kernel, systemd boot process, etc.).

```
systemctl reboot
```

Log back in as root (or as a normal user and become root with `sudo -i` if necessary).

Install steamcmd

Activate 32-bit support:

```
dpkg --add-architecture i386
```

Install the following package:

```
apt install software-properties-common
```

Allows installation of closed source software packages, not free.

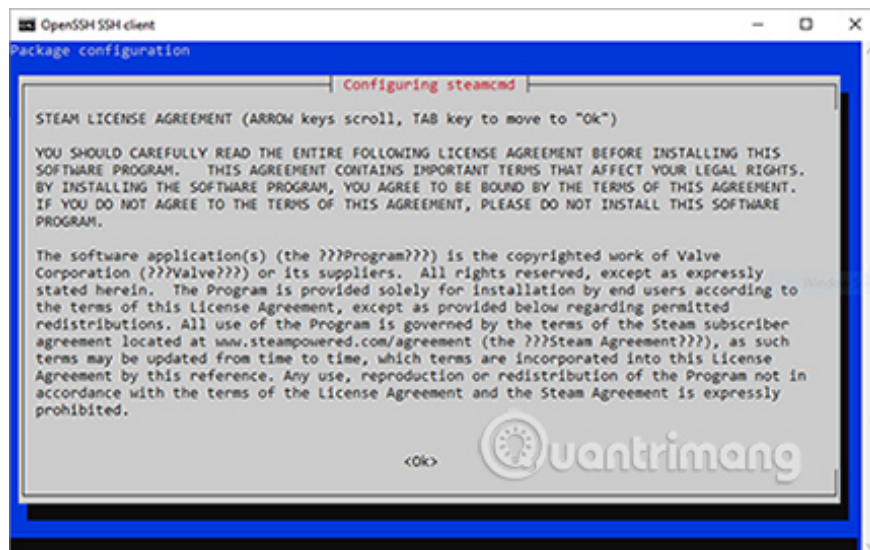
```
add-apt-repository contrib add-apt-repository non-free
```

Refresh package manager information:

```
apt update
```

Install steamcmd:

```
apt install steamcmd
```



Press **TAB** to select **'OK'** in the first prompt, then select **'I AGREE'** in the next prompt with the license agreement, otherwise the installation will cancel.

Byobu installation, which you will use to maintain the CS: GO server process works even after you exit the SSH session.

```
apt install byobu
```

Install CS: GO dedicated server

Running a CS: GO dedicated server in the root account is a bad idea, so create a regular user account first, to run a dedicated server daemon.

```
adduser --gecos "" --disabled-login cstrike
```

Log in as the user just created.

```
su - cstrike
```

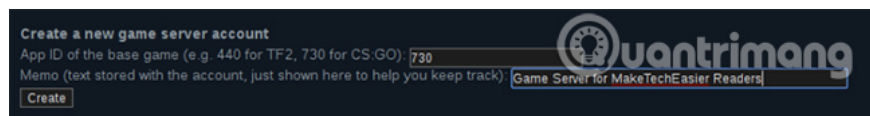
The steamcmd utility guide installs all necessary files in the 'CSGO' folder .

```
steamcmd +force_install_dir ~/CSGO/ +login anonymous +app_update 740 validate +q
```

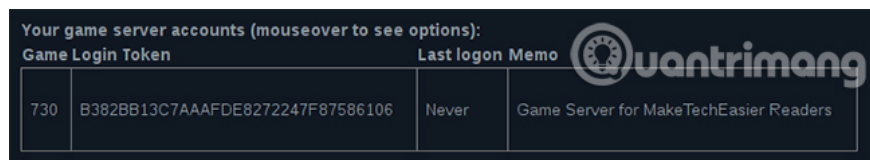
This will take a while because the game files are usually very large, about 20GB. If the process is interrupted, simply rerun the above command (after you log back in as root and then log on as a **cstrike** user with `su - cstrike`).

Register GSLT

While the download process is in progress, you can register the Game Server Login Token. Go to Steam's server game account management page. Scroll down to the following.



Using **App ID** is **730**. For **Memo**, you can enter anything you want. A code will be created for you to use with future commands. See the Login Token example in the next figure.



Your game server accounts (mouseover to see options):	
Game Login Token	Last logon Memo
730	B382BB13C7AAAFDE8272247F87586106
Never	Game Server for MakeTechEasier Readers

Launch the CS: GO dedicated server

Allow byobu to automatically turn on when users '**cstrike**' log in:

```
byobu-enable
```

Start a byobu session:

```
byobu
```

Error message : On Windows SSH client, the string '**1; 0c**' may appear on the command line. Delete the string if this happens before you continue.

Counter-Strike : Global Offensive: The next command is an example: You will have to replace the GSLT at the end of + **sv_setsteamaccount B382BB13C7AAAFDE8272247F87586106**. Delete the string starting with '**B382**' and add the login token to the game you created in the previous step.

```
~/CSGO/srcds_run -game csgo -net_port_try 1 +game_type 0 +game_mode 0 +mapgroup r
```

-net_port_try 1 and + **sv_setsteamaccount** are mandatory command parameters. The remaining parameters can be changed according to needs. For information on how to start different game modes, such as Deathmatch or Arms Race, refer to this wiki page:

https://developer.valvesoftware.com/wiki/Counter-Strike:_Global_Offensive_Dedicated_Server

Press F6 to separate from the byobu session and let the server run. Or, press Ctrl + C to close the server.

When you reconnect later with root access to your server, to restore the byobu session, simply log back in as a '**cstrike**' user .

```
su - cstrike
```

If the session does not open automatically, type:

```
byobu
```

Start the game and connect to the server

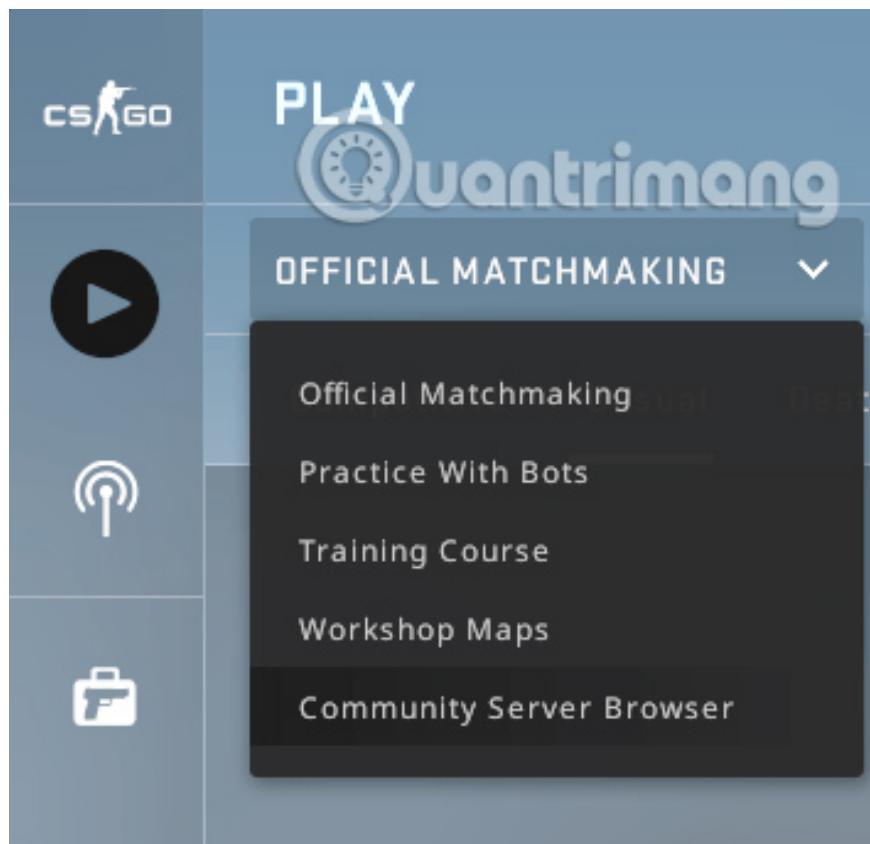
When the server starts, you will see a message like this in the terminal:

```
Connection to Steam servers successful. Public IP is 203.0.113.8
```

Copy IP address.

Launch Counter-Strike: Global Offensive on your computer.

In the upper left corner, click the drop-down list marked '**OFFICIAL MATCHMAKING**'.



Select '**Community Server Browser**'. Click on the **Favorites** tab , then in the lower right corner, click '**Add a Server**' .



Paste VPS's public IP. Click '**Refresh**' if the game server does not appear in the list. Double click on the item to connect to the server.

Congratulations! You have successfully created your CS: GO server game. Next, you will have to configure the game according to your preferences and your friends.

Hope you are succesful.

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