

[howto](#), [supertuxkart](#), [game](#), [server](#), [debian](#)

# How To Build and Run your own SuperTuxKart Server On Debian

How to build and run your own [SuperTuxKart](#) server on [Debian GNU Linux](#). [SuperTuxKart](#) is a 3D open-source arcade racer with a variety of characters, tracks, and modes to play.

## Sources

- <https://github.com/supertuxkart/stk-code/blob/master/INSTALL.md>
- <https://github.com/supertuxkart/stk-code/blob/master/NETWORKING.md>
- <https://manpages.debian.org/testing/supertuxkart/supertuxkart.6.en.html>

## Hardware Sizing

I've been running a SuperTuxKart server for 8 players including AI-bots on the smallest available VPS package (CX11) at [Hetzner](#) with just a single 2.2 GHz core, 2 GB RAM and 20 GB HDD.

## Installation

Create a user account to run SuperTuxKart with

```
useradd -m -s /bin/bash supertuxkart
passwd supertuxkart
```

Install the required packages for building the SuperTuxKart server

```
apt install build-essential cmake libbluetooth-dev libSDL2-dev libcurl4-openssl-dev libenet-dev
libfreetype6-dev libharfbuzz-dev libjpeg-dev libogg-dev libopenal-dev libpng-dev libssl-dev libvorbis-
dev libmbdtdls-dev pkg-config zlib1g-dev
```

Add a little convenience and structure

```
apt install tmux vim-nox
mkdir -pv /home/supertuxkart/repos/
```



Both `stk-code` and `stk-assets` must be in the same directory, otherwise the build will fail!

Clone the SuperTuxKart and SuperTuxKart-Assets repositories.

```
cd /home/supertuxkart/repos/
git clone https://github.com/supertuxkart/stk-code.git stk-code
svn co https://svn.code.sf.net/p/supertuxkart/code/stk-assets stk-assets
```

Compile the server and install it system wide

```
cd /home/supertuxkart/repos/stk-code
mkdir cmake_build
cd cmake_build
cmake -DBUILD_RECORDER=off -DSERVER_ONLY=ON ..
make -j$(nproc)
make install
```

## online.supertuxkart.net User Account

A user account at online.supertuxkart.net is required to run the server. You can sign up/create it [here](#). You will receive an e-mail with a link to confirm your e-mail address (yes, you should click on that linke before proceeding).

## User Initialization And SuperTuxKart Server Configuration

Either log in to your Debian box with the user for running the server or *su* to it.

```
su - supertuxkart
```

To initialize your supertuxkart -init-user -login=<YOUR USER @ online.supertuxkart.net> -password=<YOUR PASSWORD @ online.supertuxkart.net>

```
bash code
```

```
vim supertuxkart_config.xml
```

```
supertuxkart -server-config=supertuxkart_config.xml -network-console
```

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~~DISCUSSION~~

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