

Linux Core Installation

Getting started

This how-to will attempt to help with TrinityCore, and also show how this can be done in a way that also shows you the basics of how linux compilations works.



Most of this how-to is based on the use of a Debian based distribution, though we'll try to inform as best as we can when something differs totally.



Hint

DON'T clone, compile or run server as sudo or root.

Advices:

- Read your distributions' documentation on how to install packages, and also have at least knowledge on how it works with regards to adding users.
- Run/install TrinityCore on a dedicated machine, or a machine that you know you have full control over.
- Do NOT install the software on a shared server solution or any server where other users may have access or might require resources to be available at all times.

Your server may be abruptly killed by an angry administrator or system staff or by system restrictions for overuse of system resources and you will see something like:



collect2: fatal error: ld terminated with signal 9 [Killed] compilation terminated.

You will need to use less jobs (make -j1) or increase swap.

Creating a user to work with

Start with logging in to your Linux-machine and create an account for the server itself - on most recent distributions this can easily be done with the following command :

```
sudo adduser username
```

Note: Change "username" into the preferred username of your server-account - we will as far as possible avoid using specific usernames in this how-to.

Sample usernames found in various parts of this guide: **wow** , **trinity** (- select a logical name that makes sense to you when creating the user -).

```
su - username
```

Note : Change your current user to "username" so everything will run and compile with the user you just have created.

Required Software

See [Requirements](#)

Building the server itself

Getting the source code

3.3.5 (wotlk client)

```
cd ~/
git clone -b 3.3.5 https://github.com/TrinityCore/TrinityCore.git
```

This will clone 3.3.5a branch, this is the **RECOMMENDED** branch for starters.


master (check [Trinitycore Github](#)  for current version)

```
cd ~/
git clone -b master https://github.com/TrinityCore/TrinityCore.git
```

This will clone **master** branch, note that this is **NOT** the recommended branch for starters.

The directory **TrinityCore** will be created automatically and all the source files will be stored in there.



FreeBSD users will need to apply the patch located [here](#)  for g3d to compile properly, before doing anything else.

Compiling the source code

Creating the build-directory

To avoid issues with updates and colliding source builds, we create a specific build-directory, so we avoid any possible issues due to that (if any might occur)

```
cd TrinityCore
mkdir build
cd build
```

Configuring for compiling

To configure the core, we use space-separated parameters attached to the configuration-tool (cmake) - **do read the entire section before even starting on the configuration-part.**

This is for your own good, and you HAVE been warned. A full example will also be shown underneath the explanations.

```
cmake ../ [additional parameters]
```

Parameter explanations (advanced users)

path to your OpenSSL library - **use if you have OpenSSL installed system wide with a different version to 1.0.x:**



-DOPENSSL_LIBRARIES=path to OpenSSL library

path to your OpenSSL includes directory - **use if you have OpenSSL installed system wide with a different version to 1.0.x:**



-DOPENSSL_INCLUDE_DIR=path to OpenSSL includes

Parameter	
DWITH_WARNINGS	<ul style="list-style-type: none">▶ 1: Show all warning during compile. (Advanced users only)▶ 0: Disable most warnings during compile.

Parameter	
DUSE_SCRIPTPCH	<ul style="list-style-type: none"> ▸ 1: Use precompiled headers when compiling scripts. ▸ 0: Disables precompiled headers during servers compilation. (Advanced users only)
DUSE_COREPCH	<ul style="list-style-type: none"> ▸ 1: Use precompiled headers when compiling servers. ▸ 0: Disables precompiled headers during servers compilation. (Advanced users only)
DTOOLS	<ul style="list-style-type: none"> ▸ 1: Builds map/vmap/mmap extractor/assembler and connection_patch. ▸ 0: Disables the building of tools.
DSERVERS	<ul style="list-style-type: none"> ▸ 1: Builds authserver and worldserver. ▸ 0: Disables the building of servers.
DSCRIPTS <div> DSCRIPTS_COMMANDS DSCRIPTS_CUSTOM DSCRIPTS_EASTERNKINGDOMS DSCRIPTS_EVENTS DSCRIPTS_KALIMDOR DSCRIPTS_NORTHREND DSCRIPTS_OUTDOORPVP DSCRIPTS_OUTLAND DSCRIPTS_PET DSCRIPTS_SPELLS DSCRIPTS_WORLD </div>	<ul style="list-style-type: none"> ▸ "none": Disables all scripts ▸ "static": - Builds all scripts statically. (this is the old -DSCRIPTS=1 option) ▸ "dynamic": - Builds all scripts dynamically (Experimental feature). ▸ "minimal-static": Builds Commands and Spells statically, disables other scripts ▸ "minimal-dynamic": Builds Commands and Spells dynamically, disables other scripts
DLIBSDIR	Sets libraries directory. (Advanced users only)
DCONF_DIR	Sets configuration directory. (Advanced users only)
DCMAKE_INSTALL_PREFIX	Path to the directory where TrinityCore will be installed. Required for scripts

Parameter	
DCMAKE_CXX_FLAGS	Set CXX_FLAGS for compilation. (Advanced users only)
DCMAKE_C_FLAGS	Set C_FLAGS for compilation. (Advanced users only)

The above parameters when combined into a full example:

By default this is the only row you will need to run to setup your install:

```
cmake ../ -DCMAKE_INSTALL_PREFIX=/home/username/server
```

More examples below:

```
cmake ../ -DCMAKE_INSTALL_PREFIX=/home/wow/server -DT0OLS=0
cmake ../ -DCMAKE_INSTALL_PREFIX=/home/$USER/server -DT0OLS=0 -DWITH_WAI
```

The 1st row builds the core with the tools, set installation base directory to **/home/username/server**.

The 2nd row builds the core without the tools, set installation base directory to **/home/wow/server**.

The 3rd row builds the core without the tools, set installation base directory to **/home/\$user/server** and **enables warnings**.

NOTE:

If you see

"-- Performing Test boost_filesystem_copy_links_without_NO_SCOPED_ENUM - Failed"

IGNORE, it's a warning.

Note that you WILL have to configure the server well if you ever want to use the RA-access functionality.

Building the core

After configuring and checking that everything is in order (read cmakes output), you can build Trinity (this will take some time unless you are on a rather fast machine)

```
make  
make install
```

If you have multiple CPU cores, you can enable the use of those during compile :

```
make -j X(number of cores)  
make install
```


Alternatively:

```
make -j $(nproc) install
```

After compiling and installing, you will find your core binaries in **/home/username/server/bin**, and the standard configuration files in the **/home/username/server/etc** folder.

(As usual, replace username with the username you created earlier). Now you can continue reading on and learn how how to update the source tree.

Keeping the code up to date

TrinityCore developers are always at work fixing and adding new features to the core. You can always check them [here](#) . To update the core files, do the following

For 3.3.5 Branch:

```
cd ~/TrinityCore/  
git pull origin 3.3.5
```

For master Branch

```
cd ~/TrinityCore/  
git pull origin master
```

Afterwards return to the "Compiling the source code" section again, and repeat the instructions there.

Installing MySQL Server

When configuring MySQL make sure you remember the password you set for the default root account and that you enabled both MyISAM and InnoDB engines.

SPECIAL NOTES! you don't need to read this unless you want to do custom instalations.

Things to notice :



-DWITH_COREDEBUG=0 not required, this flag is only for core developers as its default is : 0 it may cause crashes if using on production environments if you want to compile core on debug mode you need to use -DCMAKE_BUILD_TYPE=Debug

The new method for custom SSL-libraries are:



-DOPENSSL_LIBRARIES=path to OpenSSL libraries directory
-DOPENSSL_INCLUDE_DIR=path to OpenSSL br /includes directory

The paths for installation can be done without any other parameters but this :



-DCMAKE_INSTALL_PREFIX=/path/to/where/you/want/core/to/be/installed

It will create the following structure:



"path"/bin/ - binaries will be placed here
"path"/etc/ - config files will be placed here

Also, compile has been tested on Debian 9 x32/x64, Ubuntu 17.10/18.04 x64 - all without problems IF YOU DO

Content is available under the Creative Commons Attribution-NonCommercial-ShareAlike License, by TrinityCore.

| Powered by [Wiki.js](#)

ubuntu 20.10



Please remember to rename the **worldserver.conf.dist** and **authserver.conf.dist** files in **worldserver.conf** and **authserver.conf** respectively, unless you want to keep the configuration files of a previously compiled version of the core.