



# Introduction

This guide leads you through all the necessary steps to setup your own Taskserver to sync your Taskwarrior-tasks.

Please follow the steps carefully and note all things you do differently.



# Preparation – Backup Your Data

Let's reinforce a good habit and make a backup copy of your data first. Here is a very easy way to backup your data:

```
$ cd ~/.task  
$ tar czf task-backup-$(date +%Y%m%d').tar.gz *
```

Now move that file somewhere safe. All software contains bugs, so make regular backups.

## Attention!

This is not only due to a good habit, we will modify your data, so this backup is highly recommended.



## Preparation – Choose A Machine

A suitable machine to run your Taskserver is one that is always available. If you have such a machine, or have access to a hosted machine, that is ideal.

If your machine is not continuously available, it can still be a suitable Taskserver because the sync mechanism doesn't require continuous access. When a client cannot sync, it simply accumulates local, unpropagated changes until it can sync.

A laptop is a poor choice for a Taskserver host.



## Preparation – Choose A Port

By default, Taskserver uses port 53589. You can choose any port you wish, provided it is unused. If you choose a port number that is under 1024, then Taskserver must run as root, which is not recommended.



## Preparation – User/Group

Ideally you will create a new user and group solely to run the Taskserver. This helps you keep the data secure from other users on the machine, as well as controlling the privileges of Taskserver.



# Preparation – Firewall

Depending on what devices you use to access your server, you may need to configure the firewall to allow incoming TCP/IP traffic on your chosen port.



# Installation

Installing Taskserver from a binary package is the simplest option, but you will need to refer to your package manager's documentation and procedures for doing this.

Take a look at the [Download](#) page for examples. Generally there are too many package managers to make a complete list with instructions here.

Most importantly, for now, Taskserver is a new product, and there are very few packages available. It is expected that this situation will change soon. When it does, this page will be updated.

Meanwhile, there is installation from either git or tarball.



# Installation – Introduction

Installing Taskserver from a tarball is a matter of downloading the tarball, extracting it, satisfying dependencies and building the server.





# Installation – Dependencies (general)

Before building the software, you will need to satisfy the dependencies by installing the following:

- ▶ GnuTLS (ideally version 3.2 or newer)
- ▶ libuuid
- ▶ CMake (2.8 or newer)
- ▶ make
- ▶ A C++ Compiler (GCC 4.7 or Clang 3.0 or newer)

Note that some OSes (Darwin, FreeBSD ...) include libuuid functionality in libc, check the following slides for more detailed instructions.

You don't necessarily need the latest version of all components, but it is a good idea if you can. GnuTLS is a security component, and as such, it is very important that it is current.

**Using GnuTLS version 2.12.x is neither adequately secure, nor production quality.**



# Installation – Dependencies (OS)

We have detailed instructions for the following operating operating systems (click on the name to continue):

- ▶ [CentOS](#)
- ▶ [Debian](#)
- ▶ [Fedora](#)
- ▶ [openSUSE](#)
- ▶ [Ubuntu](#)
- ▶ [Windows with Cygwin](#)
- ▶ [Mac OS X](#)

In case you can add your operating system of choice, please send an email to [support@taskwarrior.org](mailto:support@taskwarrior.org) (Thank you!).



# Installation – CentOS

Before building the software, you will need to satisfy the dependencies by installing the following:

```
$ sudo yum install gcc-c++  
$ sudo yum install gnutls-devel  
$ sudo yum install libuuid-devel  
$ sudo yum install cmake  
$ sudo yum install make
```

Continue with [Download](#).



# Installation – Debian

Before building the software, you will need to satisfy the dependencies by installing the following:

```
$ sudo apt install gcc-c++  
$ sudo apt install gnutls-devel  
$ sudo apt install libuuid-devel  
$ sudo apt install cmake  
$ sudo apt install make
```

Continue with [Download](#).



# Installation – Fedora

Before building the software, you will need to satisfy the dependencies by installing the following:

```
$ sudo dnf install gcc-c++  
$ sudo dnf install gnutls-devel  
$ sudo dnf install libuuid-devel  
$ sudo dnf install cmake  
$ sudo dnf install make
```

Continue with [Download](#).



# Installation – openSUSE

Before building the software, you will need to satisfy the dependencies by installing the following:

```
$ sudo zypper install gcc-c++  
$ sudo zypper install gnutls-devel  
$ sudo zypper install libuuid-devel  
$ sudo zypper install cmake  
$ sudo zypper install make
```

Continue with [Download](#).



# Installation – Ubuntu

Before building the software, you will need to satisfy the dependencies by installing the following:

```
$ sudo apt install gcc-c++  
$ sudo apt install gnutls-devel  
$ sudo apt install libuuid-devel  
$ sudo apt install cmake  
$ sudo apt install make
```

Continue with [Download](#).



# Installation – Windows

Before building the software, you will need to satisfy the dependencies by installing the following:

Start the [Cygwin](#) GUI and install the following packages and their dependencies.

- ▶ GnuTLS
- ▶ libuuid
- ▶ CMake
- ▶ make
- ▶ gcc-c++

Continue with [Download](#).





# Installation – Mac OS X

Before building the software, you will need to satisfy the dependencies by installing the following:

Install Xcode from Apple, via the AppStore, launch it, and select from some menu that you want the command line tools.

We expect you to have [Homebrew](#) installed on your Mac.

```
$ brew install cmake  
$ brew install git  
$ brew install gnutls
```

Continue with [Download](#).



## Installation – Download

The next step is to obtain the code. This means getting the Task Server 1.0.0 (or newer) source tarball. You should check for the latest stable release here:

<http://taskwarrior.org/download/>

You can download the tarball with `curl`, as an example of just one of many ways to download the tarball.

```
$ curl -O http://taskwarrior.org/download/taskd-latest.tar.gz
```



# Installation – Build

Expand the tarball, and build the Taskserver.

```
$ tar xzf taskd-latest.tar.gz
$ cd taskd-latest
$ cmake -DCMAKE_BUILD_TYPE=release .
...
$ make
...
```



# Installation – Build Again

If you ever want to build the software again, do some cleanup.

```
$ cd taskd-latest  
$ make clean  
...  
$ rm CMakeCache.txt  
...
```