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# **TeamDrive Personal Server Manual**

TDPS 1.0

Linux

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# 1. TeamDrive Personal Server

## 1.1. Structure of the Personal Server

### 1.1.1. Folder Structure

...\TeamDrive Personal Server\

- data\**
- tdpsd**
- stop-tdps**
- watch-tdps**
- tdps-md5pwd**
- tdps.config**

#### 1.1.1.1. data\

This is the default directory in which the repository of your server is stored. It contains all the data of all the shared Spaces of all the users that use this server. You can change the location of the repository by editing the attribute “repository-data” in the configuration file `tdps.config`.

<b>NOTE:</b>	The Repository of your server must be installed on a local partition. Network partitions are not supported. The server uses file locking.
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<b>ATTENTION:</b>	<p>Please backup this directory frequently. All the data of all the users that use the server is stored in it.</p> <p>If you are using the default directory, be aware that a new installation or an update could overwrite older files and directories easily.</p>
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#### **1.1.1.2. tdpsd**

File to start the TeamDrive Personal Server.

#### **1.1.1.3. stop-tdps**

File to Stopp the Personal Server.

#### **1.1.1.4. watch-tdps**

Starts the Personal Server and displays ist status in the commandline window.

#### **1.1.1.5. tdpsd-md5pwd**

Encrypts your password to an MD5-Hash-String

#### **1.1.1.1. tdps.config**


This is where all the settings of Your Personal Server are stored. You can edit this file manually with a text editor.

<b>NOTE:</b> We advice to regularly backup this file.
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## 1.2. Install TeamDrive Personal Server

- a) Unpack the compressed file „TeamDrivePersonalServerLinux\_XXXX.tar.zip“.  
**„tar -xzf TeamDrivePersonalServerLinux\_XXXX.tar.gz“**
- b) Open a terminal window and go to the directory where the decompressed folder is located.
- c) If applicable, change the rights for the folder and the containing files to be able to modify and execute them: **„chmod -R 755 tdps“**
- d) In case you are running a 64Bit OS it is possible that the 32Bit libraries, we are using, are not installed by default. We are planning on releasing a 64Bit version. Until then it is possible to load the missing libraries. For Debian-based distributions, such as Ubuntu or Collax you can use the following command:  
**„apt-get install libc6-i386 lib32gcc1 lib32z1 lib32stdc++6 ia32-libs“**
- e) Go to the directory tdps by typing: **„cd tdps“**
- f) Encrypt your password by typing: **„./tdps-md5pwd meinPasswort“**, where „meinPasswort“ would be your chosen password.



```
vmplanet@ubuntu-vm: ~/tdpsd
Datei Bearbeiten Ansicht Terminal Hilfe
vmplanet@ubuntu-vm:~$ tar -xzf ./TeamDrivePersonalServerLinux_1008.tar.gz
tdpsd/
tdpsd/data/
tdpsd/mime.types
tdpsd/stop-tdps
tdpsd/tdps-md5pwd
tdpsd/tdps.config
tdpsd/tdpsd
tdpsd/TeamDrivePersonalServerLinux_1008_de.pdf
tdpsd/TeamDrivePersonalServerLinux_1008_en.pdf
tdpsd/watch-tdps
tdpsd/data/space-db
vmplanet@ubuntu-vm:~$ chmod -R 755 ./tdpsd/
vmplanet@ubuntu-vm:~$ cd tdpsd/
vmplanet@ubuntu-vm:~/tdpsd$ ./tdps-md5pwd meinPasswort
F14A298BC87FFF2CD757F71054FDD94D
vmplanet@ubuntu-vm:~/tdpsd$
```

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## 1.3. Update TeamDrive Personal Server

### **ATTENTION:**

Don't forget to save your repository and the configuration file, before proceeding with the update. Updating could lead to accidental overwriting of the repository if you are using the same installation directory!!!

1. Stop the TeamDrive Personal Server.
2. Install new version in a **different** directory than the previous one.
3. Copy the data-folder into the new installation.

### **NOTE:**

It is possible that the format of the configuration file will change with the new version. That is why we advise you to manually transfer the information.

### **NOTE:**

Please also check whether there is a newer version of this document. If so, follow the instructions stated there.

## 1.4. Configure TeamDrive Personal Server

Edit the config file: „**tdps.config**“, which is located in the TeamDrive Personal Server directory.

### **1.4.1. Configuration parameters**

Most attributes can be used with their default values. The ones crucial for setting up the server are the following.

#### **1.4.1.1. Valid Licensekey**

**license-key= TMDR-0610-BD2A-190C-0000-0001**

Enter Your license key here. You will obtain one when purchasing a Personal Server.

The default value is a demo key that is valid till 01.06.2010.

#### **1.4.1.2. Server password**

**server-password=F14A298BC87FFF2CD757F71054FDD94D**

Your password as encrypted MD5 HashString.

To encrypt your password you can use the generator that is included in the package „**/tdps-md5pwd**“

Default password „meinPasswort“

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#### 1.4.1.3. Hostname /-address

**server-host=192.168.30.207**

The address (hostname or IP) the server responds to. Seen from the viewpoint of the clients.

**NOTE:** 127.0.0.1/localhost can only be used for a local installation (server and client on the same machine). If the client is running on another machine in the local network, this needs to be the servers IP-address. To identify the IP-address, open a terminal window on the server and type „ipconfig /all.

In a global environment, if the server is located behind a router this address needs to be the address the router responds to from a clients point of view and a proper port forwarding needs to be set up. Consider that your Internet Service Provider (ISP) might be giving you a different IP-address each time you connect with to internet.

To be able to provide a static address for the clients, it could be a solution to use a service like DynDNS ([www.dyndns.com](http://www.dyndns.com)). In this case it needs to be the hostame that is registered with DynDNS (e.g. “teamdriveServer.dyndns.net”)

#### 1.4.1.4. Port number

**server-port=37655**

Port the server listens to.

**NOTE:** The port might needs to be allowed through the firewall.

#### 1.4.1.5. Repository path

**repository-data=./data**

This is where the repository of the server is stored.

Default is set to store the repository in the TeamDrive Personal Server directory.

**NOTE:** Be aware that the repository must be located on an NTFS partition. At this point network devices are not supported. We advice to use local hard disks.

**ATTENTION:** This Directory should be backed up regularly

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#### 1.4.1.6. Maximum repository size in MB, GB or TB

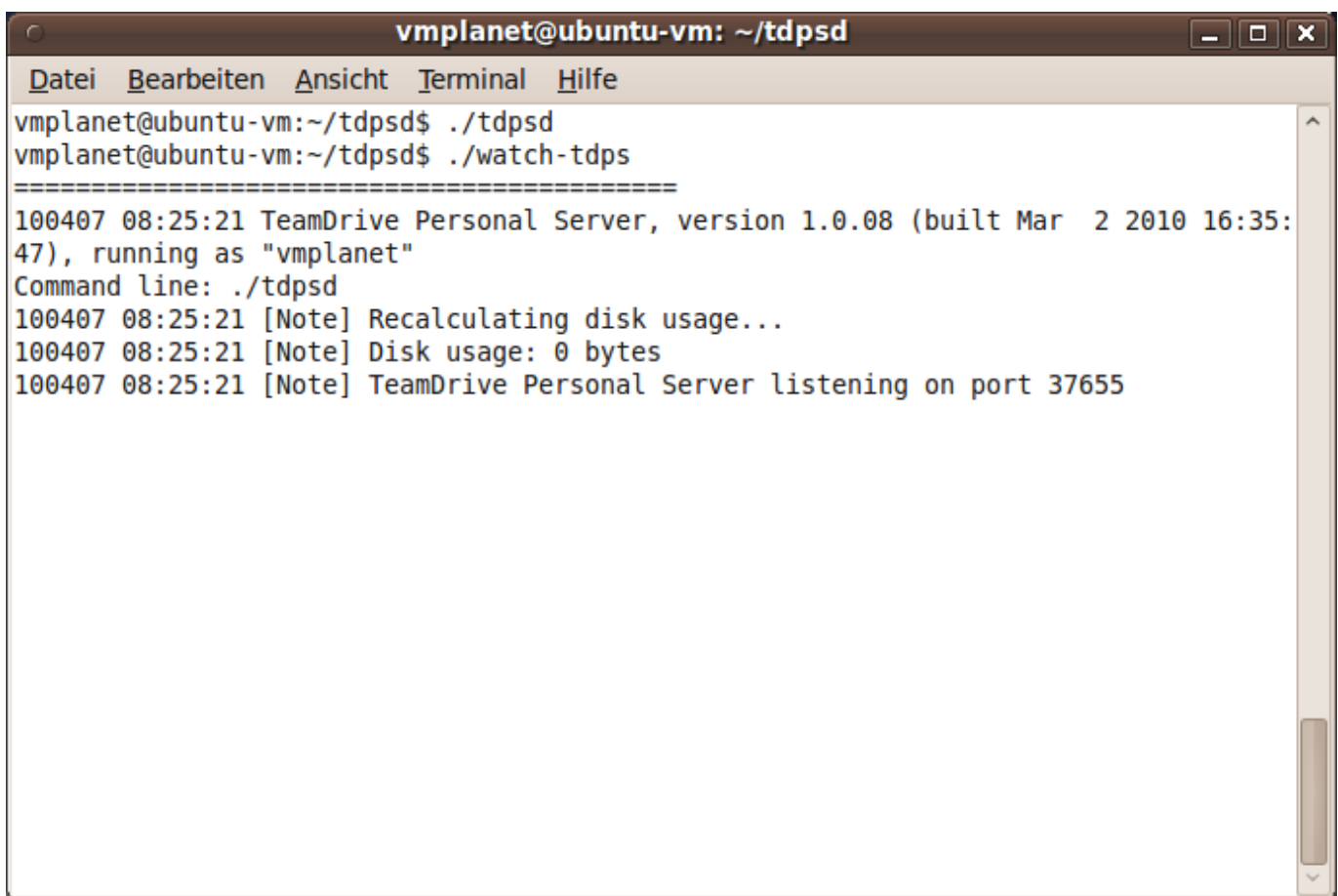
**repository-size=5GB**

The minimum size for a repository is 10MB. If you have a limited storage license the value of repository-size may not exceed your maximum storage volume. This would prevent the server from starting.

## 1.5. Using the TeamDrive Personal Server

### 1.5.1. Start the Server

Use „**./tdpsd**“ to start the server.



```
vmplanet@ubuntu-vm: ~/tdpsd
Datei Bearbeiten Ansicht Terminal Hilfe
vmplanet@ubuntu-vm:~/tdpsd$ ./tdpsd
vmplanet@ubuntu-vm:~/tdpsd$ ./watch-tdps
=====
100407 08:25:21 TeamDrive Personal Server, version 1.0.08 (built Mar  2 2010 16:35:
47), running as "vmplanet"
Command line: ./tdpsd
100407 08:25:21 [Note] Recalculating disk usage...
100407 08:25:21 [Note] Disk usage: 0 bytes
100407 08:25:21 [Note] TeamDrive Personal Server listening on port 37655
```

### 1.5.2. Stop the Server

Use „**./stop-tdps**“ to Stop the server.

### 1.5.3. Check Server Status

Starting the server with „**watch-tdps**“, will show the servers status in the console.

In addition to that the status will always be logged in the logfile which is contained in the main directory of the server.



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## 1.6. Backup your Personal Server

All you need to reconstruct your TeamDrive Personal Server in case of a total failure of your hard disk, is the repository and the configuration file. That's why it is inevitable to backup those two components.

We also advice you to backup these components before performing an update.

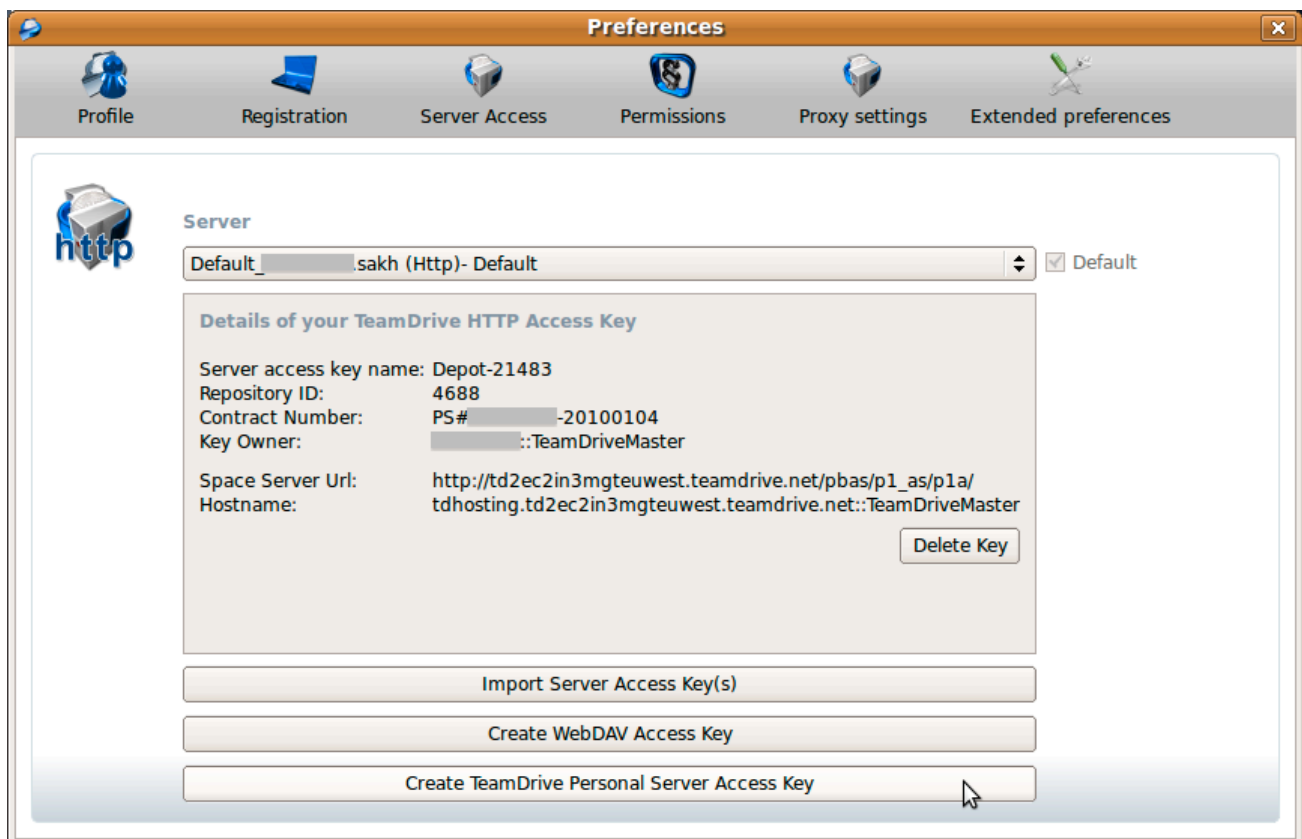
By default the repository is located in the TeamDrive Personal Server-directory. If you have choosen to use a different location, the repository will be located there.

The tdps.config file is located in the TeamDrive Personal Server-directory.

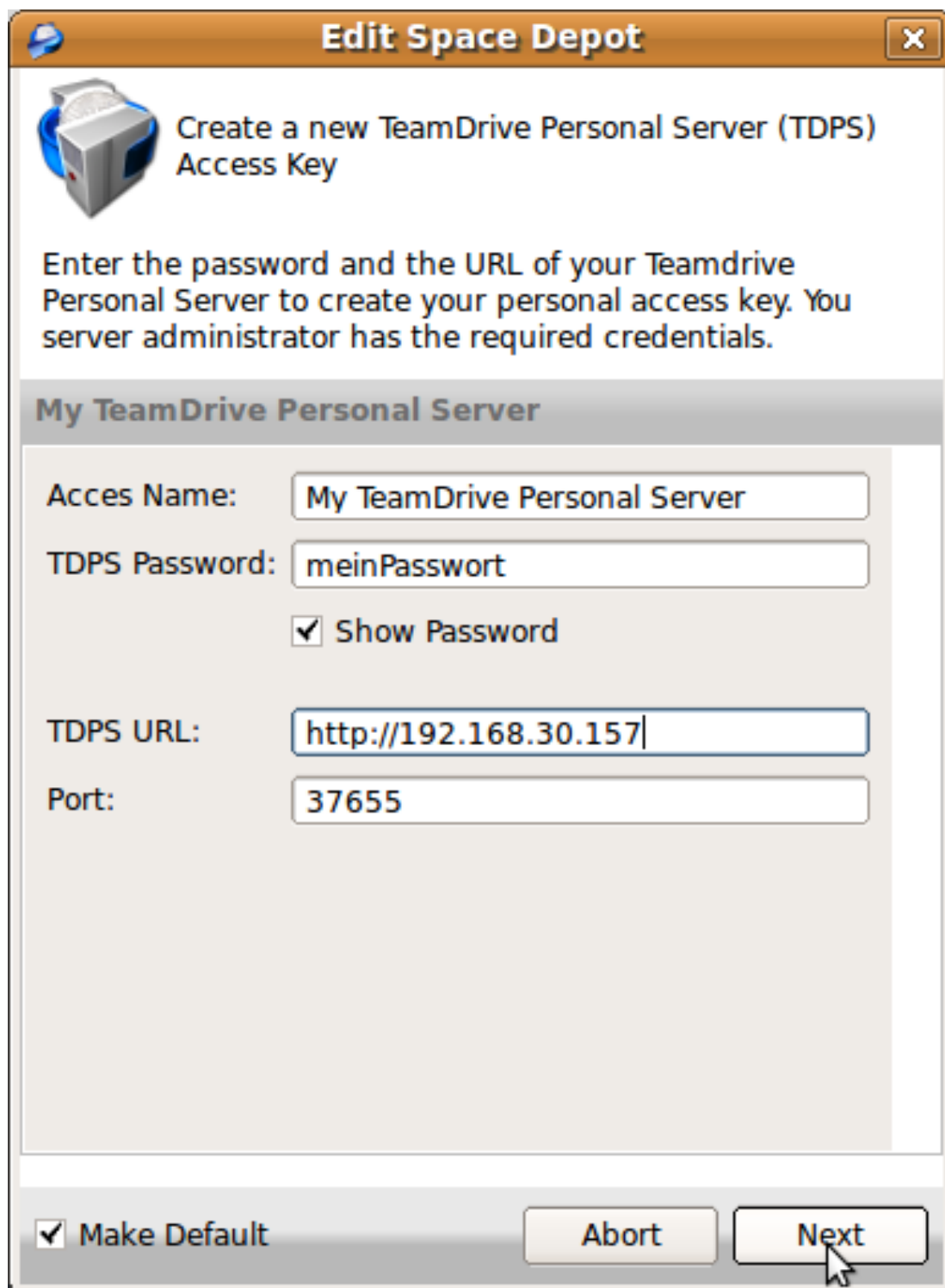
## 2. TeamDrive Client

To configure your TeamDrive Client to work together with the TeamDrive Personal Server, you need a working installation of the up to date TeamDrive Client (currently the beta release 2.2.098), a Personal-license for TeamDrive and a running TeamDrive Personal Server. Please follow these instructions.

- a) Start TeamDrive
- b) Open „Settings“ and go to „Server Access“



- 
- c) Choose “Create TDPS Access Key”



The screenshot shows a Windows-style dialog box titled "Edit Space Depot" with a close button (X) in the top right corner. Inside the dialog, there is a sub-header "My TeamDrive Personal Server" and a description: "Enter the password and the URL of your Teamdrive Personal Server to create your personal access key. You server administrator has the required credentials." Below this, there are several input fields: "Acces Name:" with the value "My TeamDrive Personal Server", "TDPS Password:" with the value "meinPasswort", and a checked checkbox "Show Password". Below these are "TDPS URL:" with the value "http://192.168.30.157|" and "Port:" with the value "37655". At the bottom left, there is a checked checkbox "Make Default". At the bottom right, there are two buttons: "Abort" and "Next", with a mouse cursor pointing at the "Next" button.

**Edit Space Depot**

Create a new TeamDrive Personal Server (TDPS) Access Key

Enter the password and the URL of your Teamdrive Personal Server to create your personal access key. You server administrator has the required credentials.

**My TeamDrive Personal Server**

Acces Name: My TeamDrive Personal Server

TDPS Password: meinPasswort

☒ Show Password

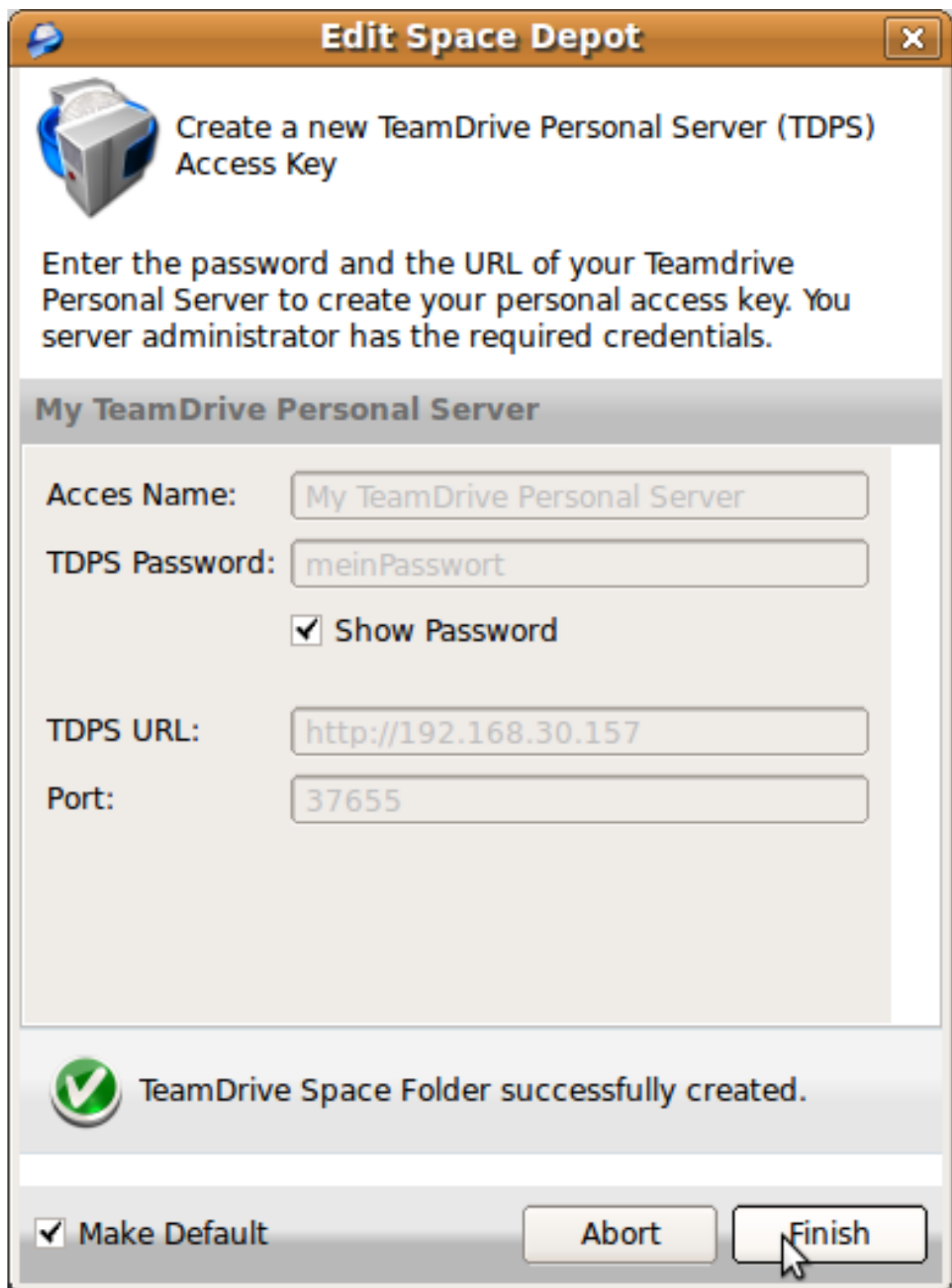
TDPS URL: http://192.168.30.157|

Port: 37655

☒ Make Default

Abort Next

- d) Fill in the information appropriate to Your TDPS server settings and confirm by clicking “Next”.



**Edit Space Depot**

Create a new TeamDrive Personal Server (TDPS)  
Access Key

Enter the password and the URL of your Teamdrive Personal Server to create your personal access key. You server administrator has the required credentials.

**My TeamDrive Personal Server**


Acces Name: My TeamDrive Personal Server

TDPS Password: meinPasswort

☒ Show Password

TDPS URL: http://192.168.30.157

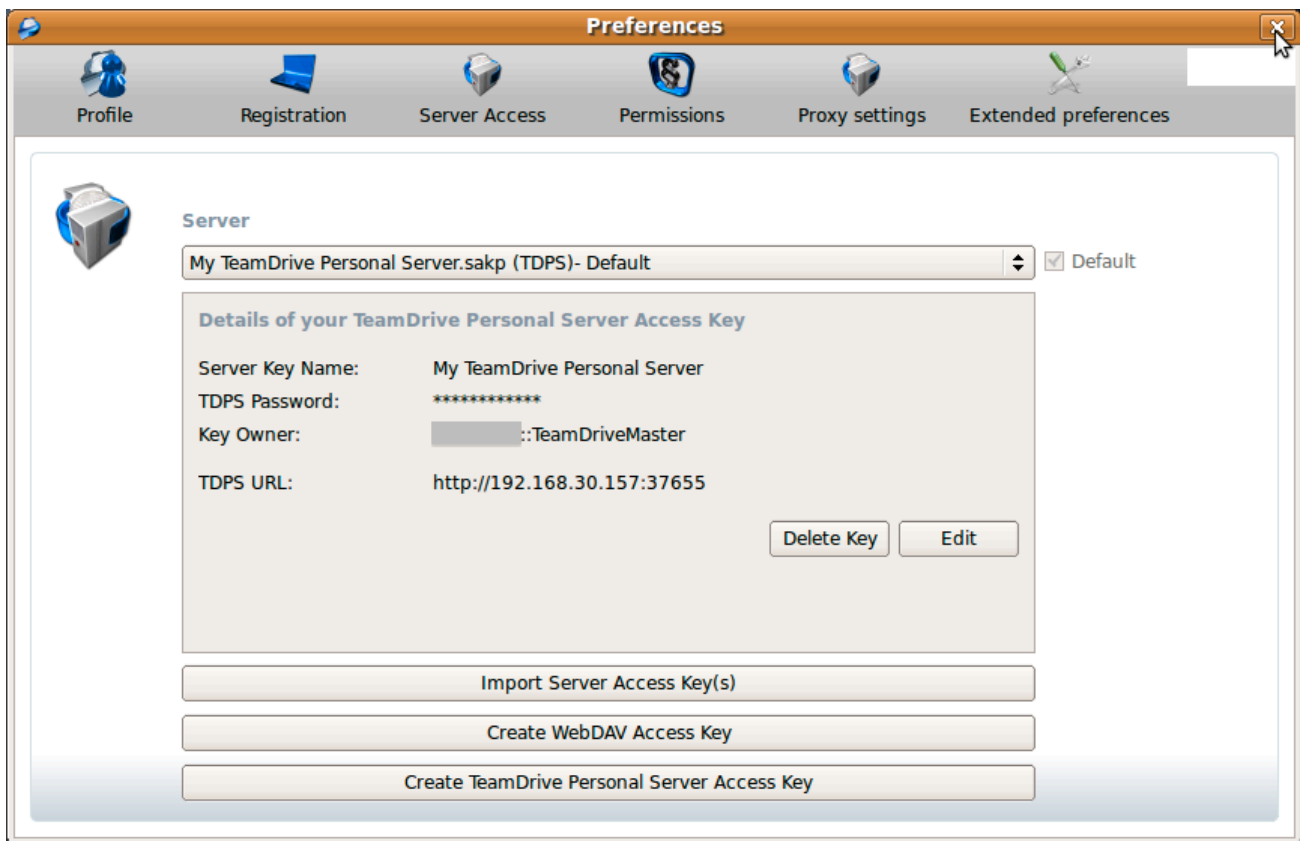
Port: 37655

 TeamDrive Space Folder successfully created.

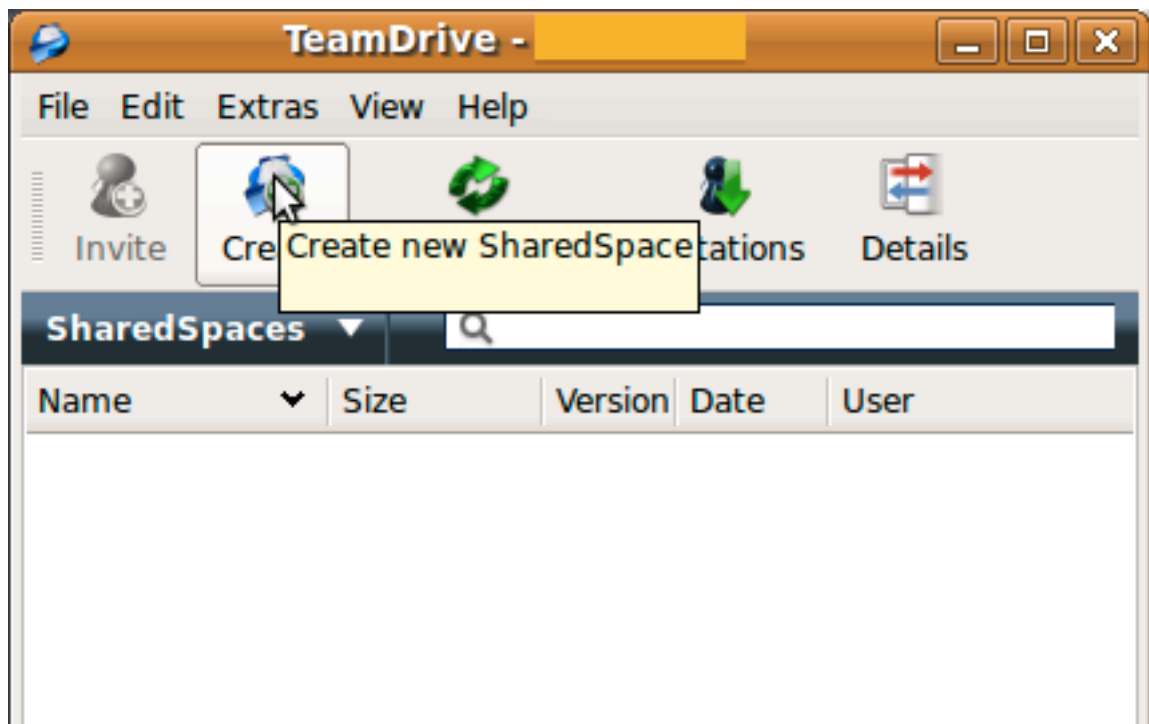
☒ Make Default

Abort Finish

e) Close the settings window.

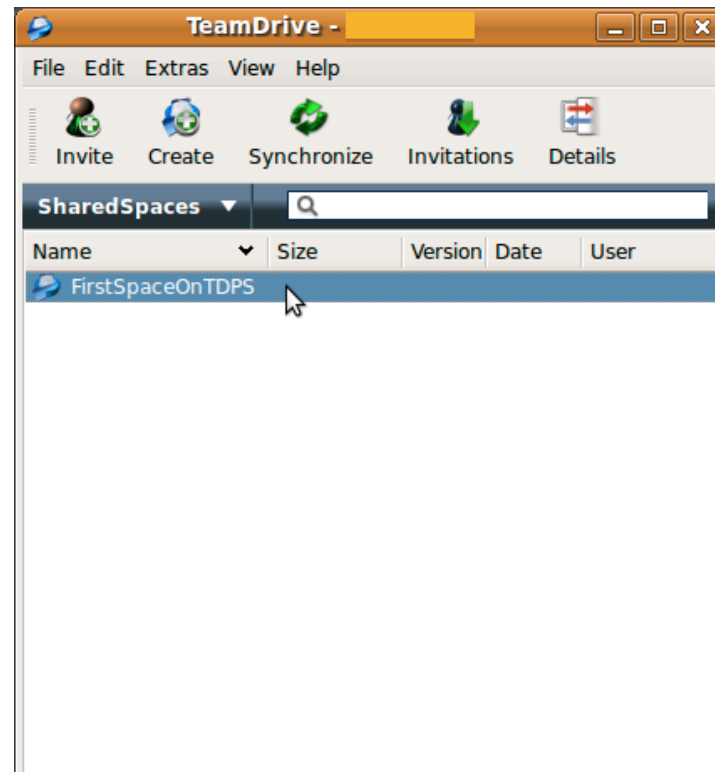
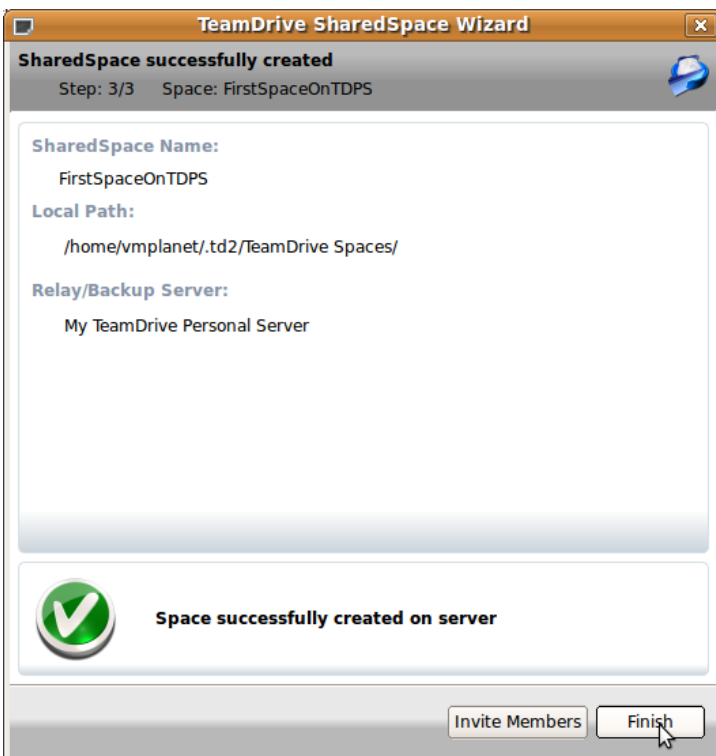
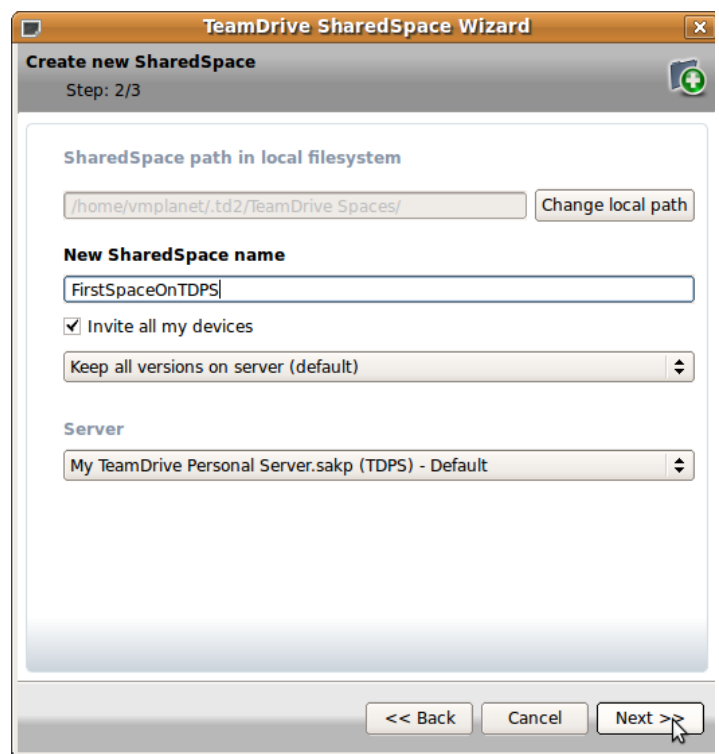


f) You can now use Your own TeamDrive client with Your own TeamDrive Personal Server.



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g) Create a new Shared Space



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## 3. Security

The individual client-PC and server should be adequately protected from third-party access. In regards to this, we recommend reading the security tips in this handbook.

<b>TIP:</b>	On this topic we recommend the literature of the ( <a href="https://ssl.bsi.bund.de/english/index.htm">ssl.bsi.bund.de/english/index.htm</a> ).
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### 3.1. Encryption

Encrypted transfer of data is TeamDrive's underlying security feature. The encrypted exchange of data is divided into three steps:

1. When a member is invited to a SharedSpace, the TeamDrive-software receives the Public key from the registration-server.
2. In order to access a (shared) SharedSpace a "data key" (256 bit-AES-key) is created locally, is encrypted with the member's public key, and is then sent to the member via a private communication path. At no time is this key located on a relay-server.
3. As soon as you leave the client-PC, the SharedSpace's data is encrypted using your data-key.

This data is then saved on a relay-server in encrypted form. The encryption means that the SharedSpace's data can only be accessed by the Space's members. Because every member has his/her own key, they are authorized and will receive data from the SharedSpace. This data is then decrypted using their data-key and can then be viewed/edited.

### 3.2. Anti-Virus Software

TeamDrive data stored on a computer is guarded by the local antivirus-software. The software tests the relevant file when the TeamDrive-database is accessed. Your current antivirus software should always guard all SharedSpaces in your local file system.

<b>TIP:</b>	We recommend having your own local Antivirus-software, because every TeamDrive user quickly acquires many Spaces with various different teams. Self-protection is the safest method!
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### 3.3. Tips regarding data protection and tips for administrators

TeamDrive's compliance with data-protection regulations is recognized by concerns and institutions.

In order to enable optimal compliance with data-protection regulations, the following advice regarding installation and use of this product should be followed.

The individual client-PC and server should be adequately protected from unauthorized third-party access.

Please be aware that protocol data, as well as data stored in a SharedSpace may be subject to legal restrictions. It is the users responsibility to make sure that any such restrictions are followed.

It is the administrators responsibility to ensure that all laws and regulations regarding the proper use and protection of data are observed when using TeamDrive.

In case this product is used without an internal TDPS server, contracts with the provider of the server need to be observed. In this there are no differences compared to other IT-products that use an external database. The contractor has to be carefully chosen, and written instructions have to be provided. Further information regarding this can be found, for example, at:

[www.datenschutz.de/privo/partner/projektpartner](http://www.datenschutz.de/privo/partner/projektpartner).

You can also contact us for further help. We can also provide contacts if you wish to set up an external server.

Version of this document: 1.2

This product includes software developed by the OpenSSL Project for the use in the OpenSSL Toolkit ([www.openssl.org](http://www.openssl.org))