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1 Introduction

The backup function of the 1&1 Bare Metal Server provides all the functions needed to easily manage your servers' backups.

This user manual helps you to get started and offers a step-by-step introduction to all important features. This user manual explains how to:

- Create a server
- Set up a backup account
- Establish a connection to your server using Remote Desktop
- Download 1&1 Backup Manager
- Install 1&1 Backup Manager
- Create backups
- Restore your data
- Configure the standard options of 1&1 Backup Manager
2 Important Information about the Easy Setup Guide

The following formattings and icons are used to help you find your way around this user manual.

**Placeholder**  Replace the PLACEHOLDER with the actual value.

→  Reference to a specific chapter.

**Attention!**  A warning that you should read very carefully.

**Explanation.**  In-depth knowledge on a certain topic or term.

**Tip, advice.**  Tips and advice on a certain topic.
3 What Is the Backup Function of the 1&1 Bare Metal Server?

The backup function of the 1&1 Bare Metal Server provides all the functions needed to easily manage your servers’ backups using separate backup accounts. The number of systems that can be backed up is unlimited. In addition, there is no storage limit.

To use the backup function of the 1&1 Bare Metal Server, you must set up a backup account in the 1&1 Cloud Panel. The login data will be shown in the backup account’s details. You can then install 1&1 Backup Manager on your server. Enter the login data of the backup account during installation. To manage additional backups, you need to set up a separate backup account for each server in your 1&1 Cloud Panel.

1&1 Backup Manager is a software that allows you to easily and conveniently manage all your backups. You can start the backups manually or automatically, and you can customize their configurations.

The following backups are supported:

1&1 Backup Manager for Windows
- Files and folders
- System states
- MySQL databases (MySQL 5.x)

1&1 Backup Manager for Linux
- Files and folders
- MySQL databases (MySQL 5.x)

One of the software’s most impressive features is its reporting functions. All backup activities are listed in 1&1 Backup Manager in chronological order and also displayed graphically. You can also receive information on all backup activities by e-mail.

Your backups are optimally protected. Your data will be transferred to the server in encrypted form and stored in the 1&1 high-performance data center. The compression method used during transfer achieves compression rates of up to 90% depending on the file type.

1&1 Backup Manager uses AES-256 as the standard encryption method. The following encryption methods are also supported:
- AES-128
- Blowfish-448

Decrypting your data requires an encryption password that is only known by you.
4 System Requirements

The 1&1 Backup Manager for Windows supports the following operating systems:

- Windows 2008 R2 SP1 (32-bit)
- Windows 2008 R2 SP1 (64-bit)
- Windows 2012 (64-bit)
- Windows 2012 R2 Datacenter (64-bit)

5 Login and First Steps

Content of this chapter:

- Log In
- Opening the 1&1 Cloud Panel
- Creating a 1&1 Bare Metal Server
- Setting Up a Backup Account
- Accessing Login Data
- Connecting to the 1&1 Bare Metal Server Windows Using Remote Desktop
- Downloading 1&1 Backup Manager
- Installing the 1&1 Backup Manager

5.1 Log In

Log in to your 1&1 Control Panel as follows:

1. Enter www.1and1.ca/login in the address bar of your Internet browser.
2. Enter your customer ID and your password.
3. Click Login.
   If you have ordered multiple 1&1 packages, you need to select your 1&1 Bare Metal Server contract.
5.2 Opening the 1&1 Cloud Panel

Click **Cloud** in the left navigation bar of the 1&1 Control Panel to open the 1&1 Cloud Panel.

The 1&1 Cloud Panel will appear.
5.3 Creating a 1&1 Bare Metal Server

This chapter explains how to create a 1&1 Bare Metal Server in your 1&1 Cloud Panel. If you have already created a 1&1 Bare Metal Server in your 1&1 Cloud Panel, you may skip this step.

Prerequisites:

You are in the 1&1 Cloud Panel.

1. In the left menu, click Infrastructure > Servers.

2. Click the down arrow next to the Create button and then click Bare Metal Server.

3. Enter a server name.
4. Select the desired configuration for the server.
5. In the 1&1 Images section, select the server operating system.
6. Optional: Select any additional software required.
7. Select the desired data center.

![Tip]
The shorter the geographical distance between your servers and your users or visitors, the shorter the loading times are. To optimize the loading time, we recommend selecting a 1&1 data center that is located as close as possible to your users/visitors.

**The following resources must be set up separately for each data center:**

- Shared storages
- Load balancers
- VPN

![Tip]
Firewall and monitoring policies can be assigned to all servers regardless of the selected 1&1 data center.

8. In the Advanced Options section, click Show.
9. In the Password field, enter the password for access to the server and repeat it.
10. In the **Firewall Policy** list, select a firewall policy.

![Tip]
A firewall policy that enables you to access the server, web server and Parallels Plesk is selected by default.

11. In the **Load Balancers** list, specify whether a load balancer has to be used.

12. In the **Public IP** list, specify whether an existing or a new public IP should be assigned to the server.

13. In the **Monitoring Policy** list, select a monitoring policy.

14. Click **Create**.

The 1&1 Bare Metal Server will be created.
5.4 Setting Up a Backup Account

To install the 1&1 Backup Manager, you need the login data of a backup account. With a backup account you can manage the backups of the respective server.

Managing backups of multiple servers

To manage your backups, you need to set up a separate backup account for each server.

To create a backup account for managing the backups of your server, proceed as follows:

Prerequisites:

You have logged in to your 1&1 Control Panel.

You are in the section 1&1 Server > 1&1 Cloud Panel.


2. Click Create.

Figure: Backup Accounts section

Figure: Creating a backup account
3. Enter the desired name.

![Create Backup Account](image1)

Figure: Entering the account name of the backup account

4. Click Create.

   The backup account will be set up.

5.5 Accessing Login Data

To access the login data of a backup account, proceed as follows:

Prerequisites:

You are in the 1&1 Cloud Panel, section Security > Backup Accounts.

1. Activate the desired backup account.

2. Memorize the name of the backup account.

   ![Important Note](image2)

   The name of the backup account must be entered as user name when installing the 1&1 Backup Manager.

3. In the Password section, click Show Password.

   ![Password Section](image3)

   Figure: Showing the password of the backup account

4. Memorize the password.
5.6 Connecting to the 1&1 Bare Metal Server Windows Using Remote Desktop

Remote Desktop Connection is pre-installed on all Windows systems and allows direct access to the server’s desktop interface. To establish a Remote Desktop connection to your server, proceed as follows:

Prerequisites:
You wrote down the IP address of the server to which you want to establish a connection.

1. Click Start > All Programs > Accessories > Remote Desktop Connection.
   The Remote Desktop Connection window opens.
2. Click Show Options.
3. In the General tab, enter the server’s IP address in the Computer field.
4. Enter the user name in the User Name field.
5. Optional: To save the login data, check the Allow me to save credentials check box.
6. Click Connect.
   The Windows Security window opens.
7. Enter the password.
8. Click OK.

If you are establishing the Remote Desktop connection to the server for the first time or have not saved the connection data, the following message appears:
The identity of the remote computer cannot be verified. Do you want to connect anyway?

9. Optional: Activate the check box Don’t ask me again for connections to this computer.
10. Optional: Click Yes.

The Remote Desktop connection will be established.

A session is created on your server for each connection. With the license, a maximum of two connections can be established simultaneously. To end a session, you have to log out from the server. If you close the Remote Desktop window, the session and all running programs will remain active.
5.7 Downloading 1&1 Backup Manager

This chapter explains how to download 1&1 Backup Manager and install it on your 1&1 Bare Metal Server. 1&1 offers a separate version of 1&1 Backup Manager for each individual data center. You can create backups using only the 1&1 Backup Manager version that is provided for your particular data center. Write down the data center in which the desired 1&1 Bare Metal Server is located. Also make sure that the installation file you download and install on your 1&1 Bare Metal Server is the version provided for your particular data center.

Below is a list of download links to the available installation files:

### Download Links for 1&1 Backup Manager Windows

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<th>Data Center</th>
<th>Installation File for Windows (64 Bit)</th>
<th>Installation File for Windows (32 Bit)</th>
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</thead>
<tbody>
<tr>
<td>Germany</td>
<td><a href="https://cloudpanel.1und1.de/download/de/1and1-backup-manager-13.5.0.13327-windows-x64.exe">https://cloudpanel.1und1.de/download/de/1and1-backup-manager-13.5.0.13327-windows-x64.exe</a></td>
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</tr>
<tr>
<td>France</td>
<td><a href="https://cloudpanel.1and1.fr/download/fr/1and1-backup-manager-13.5.0.13327-windows-x64.exe">https://cloudpanel.1and1.fr/download/fr/1and1-backup-manager-13.5.0.13327-windows-x64.exe</a></td>
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</tr>
<tr>
<td>Italy</td>
<td><a href="https://cloudpanel.1and1.it/download/it/1and1-backup-manager-13.5.0.13327-windows-x64.exe">https://cloudpanel.1and1.it/download/it/1and1-backup-manager-13.5.0.13327-windows-x64.exe</a></td>
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<td>Mexico</td>
<td><a href="https://cloudpanel.1and1.mx/download/mx/1and1-backup-manager-13.5.0.13327-windows-x64.exe">https://cloudpanel.1and1.mx/download/mx/1and1-backup-manager-13.5.0.13327-windows-x64.exe</a></td>
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<td>Spain</td>
<td><a href="https://cloudpanel.1and1.es/download/es/1and1-backup-manager-13.5.0.13327-windows-x64.exe">https://cloudpanel.1and1.es/download/es/1and1-backup-manager-13.5.0.13327-windows-x64.exe</a></td>
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<td><a href="https://cloudpanel.1and1.co.uk/download/uk/1and1-backup-manager-13.5.0.13327-windows-x64.exe">https://cloudpanel.1and1.co.uk/download/uk/1and1-backup-manager-13.5.0.13327-windows-x64.exe</a></td>
<td><a href="https://cloudpanel.1and1.co.uk/download/uk/1and1-backup-manager-13.5.0.13327-windows-x86.exe">https://cloudpanel.1and1.co.uk/download/uk/1and1-backup-manager-13.5.0.13327-windows-x86.exe</a></td>
</tr>
<tr>
<td>USA</td>
<td><a href="https://cloudpanel.1and1.com/download/us/1and1-backup-manager-13.5.0.13327-windows-x64.exe">https://cloudpanel.1and1.com/download/us/1and1-backup-manager-13.5.0.13327-windows-x64.exe</a></td>
<td><a href="https://cloudpanel.1and1.com/download/us/1and1-backup-manager-13.5.0.13327-windows-x86.exe">https://cloudpanel.1and1.com/download/us/1and1-backup-manager-13.5.0.13327-windows-x86.exe</a></td>
</tr>
</tbody>
</table>
You can download the 1&1 Backup Manager as follows:

Prerequisites:
You have logged in to the server as an administrator.

1. Open your browser.
2. Download the installation file for your desired version of 1&1 Backup Manager. You can find a list of the available versions at the start of this section (see Download Links for 1&1 Backup Manager Windows).

5.8 Installing the 1&1 Backup Manager

This chapter explains how to install the 1&1 Backup Manager.

Two installation types are available:

- **Standard installation:**
  If you are choosing the standard installation, all components of the 1&1 Backup Manager will be installed.

- **Restore-Only Installation:**
  If you are choosing the restore-only installation, only the components that are needed for restoring your data are installed. This installation type is only available if you have already created a backup and if you enter the same login data and the same encryption password during installation.

**Firewall settings**

The 1&1 Backup Manager uses TCP port 443 for local installations and for communicating with the backup server. Please make sure prior to installing the 1&1 Backup Manager, that TCP port 443 in your firewall is open for incoming and outgoing requests.
5.8.1 Standard Installation

Prerequisites:

You have already created a backup account to manage your server’s backups.
You have memorized the name and the password for the backup account.
You have logged in to the server as an administrator.
You have downloaded the installation file for your desired version of 1&1 Backup Manager.

1. Open Windows Explorer.
2. Open the folder where you saved the installation file.
3. To start the installation, double-click the version of 1&1 Backup Manager that is appropriate for your operating system:
   - 32-bit version: 1and1-backup-manager-VERSION-windows-x86.exe
   - 64-bit version: 1and1-backup-manager-VERSION-windows-x64.exe
4. Select a language.
5. Click Next.
6. In the **User Name** field, enter the name of the backup account.
   (see 5.5 Accessing Login Data).

   ![Image: Entering the user name]

   Figure: Entering the user name

7. In the **Password** field, enter the password of the backup account.
   (see 5.5 Accessing Login Data).

8. Click **Next**.

   The install wizard will check if a more recent program version is available. The installation will then be resumed automatically.

9. Select the desired encryption method.

10. Click **Next**.

11. Enter an encryption password.

   **Backups can only be restored with the encryption password!**

   All backups will be encrypted with this password. Without this encryption password, your backups cannot be restored. Therefore, keep the encryption password in a safe place!

12. Repeat the encryption password.

13. Click **Next**.
14. To create a schedule for automatic backup, activate the **Start Daily Backup at:** option.

![Creating schedule for automatic backup](image)

15. Enter or select the time.

16. Click **Next.**

17. Select the file types to be excluded from your backups.

![Excluding files](image)

18. Click **Next.**

19. Enter the e-mail address to which your backup reports will be sent.

![Entering e-mail address for sending the backup reports](image)

20. Select when the backup reports will be sent under **Send Dashboard.**

21. Click **Finish.**

The 1&1 Backup Manager will be installed.
5.8.2 Installing the Restore Function

Install the restore function if you want to restore your data and are not planning further backups.

You can only install the restore function if you have already created a backup!

Prerequisites:
You have already created a backup account to manage your server’s backups.
You have memorized the name and the password for the backup account.
You have logged in to the server as an administrator.

1. Open Windows Explorer.
2. Open the folder where you saved the installation file.
3. To start the installation, double-click the desired version of 1&1 Backup Manager:
   - 32-bit version: 1and1-backup-manager-VERSION-windows-x86.exe
   - 64-bit version: 1and1-backup-manager-VERSION-windows-x64.exe
4. Select a language.
5. Click Next.
6. In the **User Name** field, enter the name of the backup account.  
   (⇒ see 5.5 Accessing Login Data).

   ![Figure: Entering the user name](image)

7. In the **Password** field, enter the password of the backup account.  
   (⇒ see 5.5 Accessing Login Data).

8. Click **Next**.

   The install wizard will check if a more recent program version is available. The installation will then be resumed automatically.

9. Enter the encryption password that you have used for encrypting the backup you want to restore.

10. Repeat the encryption password.

11. Click **Next**.

12. Click **Install Restore-only**.

   ![Figure: Installing the 1&1 Backup Manager in restore-only mode](image)

   The 1&1 Backup Manager will be installed in restore-only mode.
6 Overview of Controls

Content of this chapter:

- **My computer**
- **Reports**
- **Status**
- **Options**

This chapter provides an overview of the functions and controls of the 1&1 Backup Manager.

### 6.1 My computer

In the **My computer** section, you can:

- select data sources
- create manual backups
- recover backups
- browse backups
- save login data for your MySQL databases

![My computer section](image)
6.2 Reports

The Reports section provides a summary of the backup activities of the last 28 days. By clicking on **Backup summary**, you can view more details for your backups.

![Backup Manager Interface](image)

**Figure Reports section**
In the **Backup summary** section, you can check the progress of your last backup.

![Backup summary section](image-url)
By clicking on the number of processed files, a detailed report will open. This report contains a list of all backed up files.

![Figure Number of processed files - detailed report](image1)

To view a detailed error report, click on the number of errors occurred in the **Summary** section.

![Figure Detailed error report](image2)
6.3 Status

The **Status** section shows the tasks which are currently processed by the 1&1 Backup Manager as well as the current processing speed. Additionally, the upload speed can be displayed by clicking on **Extended**.

![Status section](image)

*Figure Status section*
6.4 Options

For individual configurations of the 1&1 Backup Manager, click Settings > Options in the menu bar. The Options window will open:

![Options window](image)

**Figure Options section**

In the Options window, you can:

- enter an e-mail address to which your backup reports will be sent
- select when the backup reports will be sent
- change the user interface language
- select a directory for temporary files
- allow remote control to the 1&1 Backup Manager
- create schedules for your backups
- add a script
- enter login data for a proxy server
- limit bandwidth
- activate LocalSpeedVault to save your backups locally as well as on the backup server.
- archive backups automatically
- define more filters to specify the content of your backups.
7 Creating Backups

Content of this chapter:
- Backing up Files and Folders
- Backing up System State
- Backing up MSSQL Databases
- Backing up MySQL Database Servers
- Creating Schedules
- Calling Reports

This chapter explains how to back up your files and folders, system states, MSSQL and MySQL databases. The chapter also explains how to create a schedule and how to call the reporting function.

7.1 Backing up Files and Folders

Prerequisite: You are in the My computer section.

1. Click the Backup tab.
2. Select the check box Files and folders.
3. Select the respective files and folders.
4. Click Start backup.

Figure Start backing up files and folders

The backup is started.
7.2 Backing up System State

Prerequisite: You are in the My computer section.

1. Click the Backup tab.
2. Select the check box System state.
3. Click Start backup.

The backup is started.

7.3 Backing up MSSQL Databases

Prerequisite: You are in the My computer section.

1. Click the Backup tab.
2. Select the check box MSSQL databases (VSS).
3. Select the respective MSSQL database.
4. Click **Start backup**.

![Backup Manager interface](image)

The backup is started.

### 7.4 Backing up MySQL Database Servers

**Availability of MySQL database servers**

The selected MySQL database servers will temporarily not be available during a backup!

**Prerequisite:**

You are in the **My computer** section.

1. Click the **MySQL databases** tab.
2. Enter your server’s IP address in the **Server** column.

**IP address of the MySQL server**

The IP address 127.0.0.1 is set by default

3. Enter your administrator’s login in the **Administrator’s login** column.
4. Enter the password you have specified for your MySQL database server in the **Password** column.
5. Enter your server’s port in the **Server Port** column.

**Server port of the MySQL server**

MySQL uses the port 3306 by default.

6. Click the **Backup** tab.

7. Select the check box **MySQL databases**.

8. Select the respective MySQL database server.
9. Click **Start backup**.

![Backup Manager](image)

Figure Start backing up a MySQL database

The backup is started.

### 7.5 Creating Schedules

With the scheduling function, you can easily configure the automatic backups. It can be accessed via **Settings > Options > Schedule**. When creating a schedule, you can configure the following settings:

- **Name**: Select a unique name for the backup you are creating with this schedule. This helps you to keep track of your automatic backups.
- **Time**: Set a time for the start of the backup.
- **Interval**: Select if you want the backup to be run daily or only on certain days of the week.
- **Backup**: Select the respective data source.
- **Pre-/Post-backup**: You can select for every data source if a pre-backup or a post-backup is run. Requirement: You need a backup script for this function.

To save your settings, click **Add**. All schedules that have already been created are displayed in the overview.
If you no longer need a schedule, it can be deleted as follows:

Prerequisite: You are in the section Settings > Options > Schedule.

1. Check the schedule you want to delete in the overview.
2. Click **Delete**.

![Deleting schedule](image.png)

The schedule will be deleted.

### 7.6 Calling Reports

With the reporting function, you can call detailed information about your backup activities. All backup activities are listed in chronological order and additionally presented in graphic form. The reports are created by analyzing the log files collected on your servers. The reports are useful for analyzing your backup infrastructure. A summary of your backup activities of the last 28 days can be accessed via the menu item **Reports** (→ see 6.2 Reports). Detailed information on your backups is available under **Backup summary**.
8 Recovering Data

Content of this chapter:

- Recovering Files and Folders
- Recovering System State
- Recovering MSSQL Databases
- Recovering MySQL Database Servers
- Recovering MySQL Database Servers in a specific location

The 1&1 Backup Manager enables you to restore your data within just a few minutes.

8.1 Recovering Files and Folders

Prerequisite: You are in the My computer section.

1. Click the Recovery tab.
2. Select the backup time.
3. Select the respective files and folders.
4. Click Browse...
5. Select a location where the files will be recovered to.
6. Click Select.
7. Click Recover.

The files and folders will be recovered.
8.2 Recovering System State

If Windows cannot be started anymore or does not run properly, you can recover your server’s system state with the 1&1 Backup Manager.

To recover the system state, proceed as follows:

1. Install Microsoft Windows.

   **Recovering the system state is only possible in case of identical Windows versions!**
   
   Prior to recovering the system state, make sure that an identical Windows version and an identical version of the service pack is installed on your server.

2. Install the service packs.

   **Domain controller**
   
   If you are using a domain controller, make sure that an empty Active Directory is created.

3. Install the 1&1 Backup Manager. Enter the login data of the backup account you have used for backing up the system state.

   **Backups can only be restored with the encryption password!**
   
   In order for your backup to be encrypted, you need to enter the encryption password of the backup to be recovered during installation.

4. Click the **Recovery** tab.

5. Select **System state** from the **Location** list.

6. Select the **backup time**.

7. Check the respective system state.
8. Click **Recover**.

   ![Recovering system state](image)

   **Figure Recovering system state**

9. Perform a restart.

   The system state will be recovered.

### 8.3 Recovering MSSQL Databases

Recovering a MSSQL database is only possible if MSSQL server is installed on your server.

**Prerequisites:**

You have already stopped the service SQL Server (**MSSQL SERVER**).

1&1 Backup Manager is opened.

You are in the **My computer** section.

1. Click the **Recovery** tab.
2. Select **MSSQL databases (VSS)** from the **Location** list.
3. Select the **backup time**.
4. Select the the respective **MSSQL database**.
5. Click **Recover**.

![Figure Recovering MSSQL database](image)

The MSSQL database will be recovered. Afterwards, the report **Backup summary** will open.

6. Perform a restart.

### 8.4 Recovering MySQL Database Servers

![Warning icon](image)

**Warning:** Recovering a MySQL database server is only possible if MySQL is installed on your server.

**Prerequisites:**

- You have stopped the **MySQL service**.

1. Open the 1&1 Backup Manager.
2. Click **My computer** in the navigation bar.
3. Click the **Recovery** tab.
4. Select **MySQL databases** from the **Location** list.
5. Select the **backup time**.
6. Select the respective MySQL database.
7. Click **Recover**.

![Image of Backup Manager interface with Recover button highlighted]

Figure Recovering MySQL database

! The MySQL service is stopped during the recovery of MySQL databases!

The backup summary will open.

8. Perform a restart.
8.5 Recovering MySQL Database Servers in a specific location

Recovering a MySQL database server is only possible if MySQL is installed on your server.

Prerequisites:

You have stopped the MySQL service.

1. Open the 1&1 Backup Manager.
2. Click My computer in the navigation bar.
3. Click the Recovery tab.
4. Select MySQL databases from the Location list.
5. Select the backup time.
6. Select the respective MySQL database server.
7. Click Browse.
8. Select the file where the database will be recovered to.
9. Click Recover.

The 1&1 Backup Manager creates a folder in the respective directory. This folder is named according to the specified MySQL server.

Example: 127.0.0.1

The backup summary will open.
10. Change the path to the data directory in the option group of the MySQL configuration file my.ini:

```ini
[option_group]
datadir=C:\RESTORETOPATH\DATABASESERVERNAME
```

Example: `datadir=C:\mysql-restore\MyServerDB`

11. Change the InnoDB parameter in the option group of the MySQL configuration file my.ini:

```ini
#innodb_data_home_dir=C:\RESTORETOPATH\DATABASESERVERNAME\InnoDB Data
innodb_data_home_dir=C:\RESTORETOPATH\DATABASESERVERNAME\InnoDB Data
innodb_log_group_home_dir=C:\RESTORETOPATH\DATABASESERVERNAME\InnoDB Data
```

Example:

```ini
innodb_data_home_dir=C:\mysql-restore\MyServerDB\InnoDB Data
innodb_log_group_home_dir=C:\mysql-restore\MyServerDB\InnoDB Data
```

12. Perform a restart.

# 9 Configuring Standard Options

**Content of this chapter:**
- Configuring Proxy Settings
- Configuring Filters
- Limiting Bandwidth
- Activating LocalSpeedVault

This chapter explains how to individually configure the 1&1 Backup Manager.

## 9.1 Configuring Proxy Settings

You can decide with this option if a proxy server should be used for the connection with the backup server.

1. Click **Settings**.
2. Click **Options**.
3. Click the **Proxy** tab.
4. Check the option **Use Proxy server**.
5. Select the type of proxy server.

6. Enter the address.

7. Enter the port.

8. Check the option **Use authentication**.

9. Enter the user name.

10. Enter the password.

11. Click **Apply**.

## 9.2 Configuring Filters

You can specify the content of your backups with the extended filter system. During installation of the 1&1 Backup Manager, the following filters are preset:

- Exclude music files (*.aac, *.mp3, *.wma)
- Exclude video files (*.avi, *.mov, *.mpg)
- Exclude backup files (*.bkf)
9.2.1 Creating Filters

This is how to create a filter:

1. Click **Settings**.
2. Click **Options**.
3. Click the **Filter** tab.
4. Enter the file extension, the file name or the folder name in the text field. Examples: *.wav, Document1.txt, Playlists
5. Click **Add**.

The filter will be created.

9.2.2 Deleting Filters

This is how to delete a filter:

1. Click **Settings**.
2. Click **Options**.
3. Click the **Filter** tab.
4. Select the filter you want to delete.
5. Click **Delete**.

![Deleting filter](image)

The filter will be deleted.

### 9.3 Limiting Bandwidth

To use your available resources as efficiently as possible, you can set the bandwidth in the 1&1 Backup Manager options.

This is how to limit the bandwidth of the 1&1 Backup Manager:

1. Click **Settings**.
2. Click **Options**.
3. Click the **Speed** tab.
4. Check the option **Limit bandwidth**.

The steps 5 to 9 are optional.

5. Enter the time in the field **Activate limitation at**.
6. Enter the time in the field **Deactivate limitation at**.
7. Enter the maximum bit rate the 1&1 Backup Manager may use in the field **Bandwidth limitation**.
8. Check the option **Do not apply bandwidth limitation on Saturdays and Sundays**.
9. Check the backup sources you do not want to backup during bandwidth limitation.

⚠️ Ongoing backups will also be canceled when this option is enabled.

10. Click **Apply**.

![Figure Applying bandwidth limitation settings](image-url)
9.4 Activating LocalSpeedVault

LocalSpeedVault is a technology which saves your backups locally and on the backup server at the same time. The size of the backup will not change.

LocalSpeedVault cannot be activated if a new backup is currently being created.

This is how to activate LocalSpeedVault:

1. Click **Settings**.
2. Click **Options**.
3. Click the **LocalSpeedVault** tab.
4. Check **Activate LocalSpeedVault**.
5. Click **Browse**.
6. Select the local folder where your backups will be saved.
7. Click **Apply**.

Your backups will be synchronized.

Synchronizing the backups may take some time. If an automatic backup is started, the 1&1 Backup Manager will interrupt the synchronization. The synchronization will be resumed as soon as the backup activity has been completed.
10 1&1 Service and Support

Should you have any questions concerning 1&1 Bare Metal Server, our team will be pleased to assist you. Your questions will be answered by e-mail around the clock within the shortest time possible.

The contact form is available in the 1&1 Control Panel at Help & Contact > Open Contact Form.

Please state your question as clearly as possible - our customer support team will then be able to quickly provide the right solution for you.
11 Glossary

The glossary will explain the most important terms used in this user manual. Terms highlighted in blue are explained in the respective entry.

1&1 Control Panel
Customer area for 1&1 customers. The contractual and technical management of all Web Hosting packages are managed in the 1&1 Control Panel.

1&1 Cloud Panel
Customer area for 1&1 Bare Metal Server customers. In the 1&1 Cloud Panel, the technical management of the 1&1 Bare Metal Server is performed.

AES
Abbreviation for Advanced Encryption Standard. AES is an encryption algorithm which is available in the 1&1 Backup Manager with key sizes of 128 and 256 bits.

Backup
A copy of files, hard disks or programs. To ensure the recovery of data, backups are created on external media such as servers, hard disks, flash memory and CDs.

Backup Account
A profile required for creating and managing backups.

Bandwidth
The bandwidth is a measurement of how many information units can be transferred per seconds. The transfer speed is measured in "bit/s" (bits per second"), but may also be given in other units such as Mbit/s or Gbit/s or MB/s or GB/s.

Blowfish 448
Blowfish 448 is an encryption algorithm, working with a key size 448 bits.

Browser
Program for displaying websites (e.g. Internet Explorer, Mozilla Firefox).

Compression
The process of reducing the size of a file by means of algorithms.

Database
An organized collection of data; the setup, management and structure of which is done via a database management system. The queries are effected by means of special query languages such as SQL or ODBC. The 1&1 Backup Manager supports MySQL and MSSQL databases.

Encryption
Refers to the encoding of data to protect it from unauthorized access. The 1&1 Backup Manager supports the encryption algorithms AES and Blowfish 448.

Load Balancer
A network load distribution system. Load balancers can determine both the load and the response time of each server and distribute the traffic on multiple servers with the help of rules.

LocalSpeedVault
LocalSpeedVault is a technology which saves your backups locally and on the backup server at the same time. The size of the backup will not change.

Port
In network technology, a point inside a computer system at which data is transferred to other computer systems, e.g. via the TCP port.

Proxy server
A Server for caching data. When a website is loaded from the Internet, it is stored on the proxy server as well. If the website is accessed again at a later time, it can be directly retrieved from the Proxy server and does not have to be transferred again.

Remote Control
Access to another computer via a network or the Internet (e.g. via the Remote Desktop Connection under Windows).

Script
Program or set of instructions that can be executed by another program; e.g. JavaScripts which can be read, interpreted and executed directly by the browser.

Server
A computer in a network providing services to other participants such as a Proxy server.
**TCP Port**

TCP (Transmission Control Protocol) is an essential part of the TCP/IP layer, based on the fourth level of the OSI layer model. TCP is connection-oriented and demands confirmation of receipt of every sent data packet. The 1&1 Backup Manager uses the corresponding **Port**.