



# **CLI Guide for Synology Presto Desktop Client**

**Based on Presto File Server 1.3.1**

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# Introduction and Getting Started

Presto Desktop Client supports command-line interface (CLI), allowing users to execute high-speed and secure data transfers through the command line and to automate their data transfer workflows. This CLI Guide provides instructions on how to transfer data and manage transfer settings on Windows, Mac, and Linux computers via CLI on a licensed Presto File Server.

## Launch CLI on Presto Desktop Client

Please do either of the following to launch CLI on your computer:

### On Windows Computer:

- 1 Launch **Command Prompt**.
- 2 Change the directory to Presto's installation path, with `%localappdata%\Presto\Presto.app\bin` serving as the default path.
- 3 Execute `presto-cli.exe`.

### On Mac or Linux Computer:

- 1 Launch **Terminal**.
- 2 Execute `presto-cli`.

# Transfer Files

The executable **presto-cli** is a command-line client supported by Presto File Server, and this program contains the following syntax and command options.

## Download and Upload Files or Directories

### To download files or directories:

To download files or directories from the server to client, please add a local destination after the remote source:

```
presto-cli presto://user[:password]@host:source1 [source2...] destination
```

### To upload files or directories:

To upload files or directories from the client to server, please specify the local file path and then specify the remote server destination:

```
presto-cli source1 [source2...] presto://user[:password]@host:destination
```

The syntax for uploads and downloads are as follows:

| Syntax               | Description  |
|----------------------|--|
| user, password, host | Use the prefix <b>presto://</b> to specify the remote Synology NAS credentials with Presto File Server. Both <b>user</b> and <b>host</b> are necessary fields. The program will promptly request the user to enter the password if the command contains no password. Credentials can be loaded from and saved to database.   |
| source(s)            | The source file or directory to be transferred. Multiple arguments are separated by space characters. Please make sure the path is placed within a pair of quotation marks if the path contains one or more blank spaces. In addition, backslash (\) is not supported and only slash (/) is readable by the folder path separator.<br><br>For example:<br><br>"presto://admin@presto.syno.me:share_folder1/file/home/Angela/Spaced path here/" |
| destination          | The destination directory where the source files or directories are to be transferred. Please make sure the folder path is placed within a pair of quotation marks if the path contains one or more blank spaces. In addition, backslash (\) is not supported and only slash (/) is readable by the folder path separator.<br><br>For example:<br><br>"presto://admin@presto.syno.me:share_folder1/file/home/Angela/Spaced path here/"         |

For example, to download the files **share1/file1**, **share1/file2**, **share2/folder** with **admin** as the user and **presto.syno.me** as the host, please do the following:

- 1 Log in to **presto.syno.me** with an account belonging to the administrators group.
- 2 Download **share1/file1**, **share1/file2**, and **share2/folder** to the local path **/home/user/Downloads**.

```
>presto-cli presto://admin@presto.syno.me:share1/file1 share1/file2 share2/
folder /home/user/Downloads/
```

# Manage User Database

**presto-cli** shares user database with Presto. Use the option **--load-db** to load credentials from the database.

For example:

```
>presto-cli --load-db presto://admin@presto.syno.me:share_folder1/file /home/user/Downloads/
```

When loading credentials from the user database (**--load-db**), the changes in the transfer settings derived from command-line will override the transfer settings in the user database. Therefore, the changes in the transfer settings will only be applied to the current transfer session, while the transfer settings in the user database will remain intact.

**presto-cli** is not capable of browsing the transfer settings of the connected database. Adding new settings can override the existing settings.

For example:

```
>presto-cli --load-db --download-max=10000 --compression presto://admin@presto.syno.me:share_folder1/file /home/user/Downloads/
```

## Add or Remove Login Credentials

**presto-cli** provides a method for adding or removing credentials to or from the database. Please follow the formats below to add or remove login credentials to or from the user database.

You can choose to either enter your password directly in **[:password]** or enter it later upon request:

### To add credentials to the user database:

```
presto-cli -A presto://user[:password]@host
```

### To remove credentials from the user database:

```
presto-cli -E presto://user[:password]@host
```

# Manage Files and Directories

## Browse Local and Remote Files

To list the file content in a remote or local folder, please specify the folder path without target in the format below:

```
presto-cli [presto://user@host:]path/
```

## Manage Local and Remote Files and Directories

To manage local and remote files and directories with **presto-cli**, please follow the formats for relevant commands shown below, and make sure that the path needs to be specified down to filename and file extensions:

**To move or rename a file or directory:**

```
presto-cli -m [presto://user@host:]frompath topath
```

**To copy a file or directory:**

```
presto-cli -c [presto://user@host:]frompath topath
```

**To delete a file or directory:**

```
presto-cli -x [presto://user@host:]path
```

**To create a new directory:**

```
presto-cli -n [presto://user@host:]path
```

# References

## Exit Values

The following table displays the exit values that indicate the result of each corresponding command:

| Value  | Description   |
|--------|---|
| 0      | Successful.   |
| 1      | Syntax or usage error.  |
| 2      | Login failed.   |
| 3      | Cannot establish TCP and UDP connection on the secondary port.  |
| 4      | Invalid username/password or insufficient user privilege.   |
| 5      | Client version is too old.  |
| 6      | Server version is too old.  |
| 7      | Connection failed due to the wrong port.  |
| 8      | Connecting to the wrong service.  |
| 9      | A one-time password is required.  |
| 10     | No licensed bandwidth.  |
| 11     | Untrusted SSL certificate.  |
| 20     | Command failed.   |
| 21     | Source directory does not exist.  |
| 22     | Cannot access destination directory.  |
| 23     | Only part of the transfer tasks is successful.  |
| 24     | All transfer tasks failed.  |
| 30     | Operation on user DB failed.  |
| Others | Unexpected errors occurred. Please try again and contact Synology Technical Support if the problem remains. |

## Additional Options

The following table displays the additional options and their descriptions:

| Option        | Description  |
|---------------|--|
| -h, --help    | Display help article.  |
| -v, --verbose | Enable verbose mode to receive complete update notifications.  |
| -q, --quiet   | Enable quiet mode to receive only error notifications or prompts.  |
| -p, --port    | Customize the used port for Presto, and require port N and N+1 to transfer files via Presto File Server.<br><br>For example, connect to <b>presto.syno.me</b> with <b>port 5566</b> :<br><pre>&gt;presto-cli -p 5566 presto://admin@presto.syno.me:share1/</pre> |

|                      |   |
|----------------------|---|
| -l, --load-db        | Apply the existing settings to the database and to Presto GUI client.   |
| --allow-untrust      | Allow untrusted SSL certificate.  |
| --dry-run            | Perform a dry-run without making real changes.  |
| --record-activities  | Write a record to client activity logs, which can be viewed via GUI client.   |
| --auto-retry=COUNT   | <p>When network problems occur, presto-cli will only make a number of COUNT attempts to reconnect, but will not retry if the default value is 0.</p> <p>For example, download a file from the server with a retry count of 10:</p> <pre>&gt;presto-cli --auto-retry=10 presto://admin@presto.syno.me:share1/folder /home/user/Downloads</pre>   |
| --skip-suffix=SUFFIX | <p>Skip transfer files with specific extensions. Use a slash to separate extensions.</p> <p>For example, download all the contents in share1/folder except the files with jpg, png, and doc extensions:</p> <pre>&gt;presto-cli --skip-suffix=jpg/png/doc presto://admin@presto.syno.me:share1/folder /home/user/Downloads</pre>  |
| --overwrite=MODE     | <p>Define the specific conditions that trigger overwriting. The conditions include “always”, “newer”, “skip”, and “rename”. Here, “always” is the default value and “newer” is defined as when modification time (mtime) is newer or data size is different.</p> <p>For example, set overwrite policy to “skip”:</p> <pre>&gt;presto-cli --skip-suffix=jpg/png/doc presto://admin@presto.syno.me:share1/folder /home/user/Downloads</pre> |
| --concurrent         | Set the concurrent count for this connection. The value should be an integer ranging from 1 to 10. The default value is 3.  |
| --upload-max         | Set the maximum upload rate, with 0 indicating unlimited value. The value that is entered should be an integer ranging from 0 to 999999. The default value is 0, and the unit of this value is KB/s.  |
| --upload-min         | Set the minimum upload rate. The value entered should be an integer ranging from 0 to 999999. The default value is 0, and the unit of this value is KB/s.   |
| --download-max       | Set the maximum download rate, 0 indicate unlimited. The value entered should be an integer ranging from 0 to 999999. The default value is 0, and the unit of this value is KB/s.   |
| --download-min       | Set the minimum download rate. The value entered should be an integer ranging from 0 to 999999. The default value is 0, and the unit of this value is KB/s.   |
| --encryption         | Enable encryption when transferring data. This option is disabled by default.   |
| --compression        | <p>Enable compression when transferring data. This option is disabled by default.</p> <p>For example, add multiple transfer settings to the session:</p> <pre>&gt;presto-cli --concurrent=5 --download-max=50000 --download-min=10000 --encryption --compression presto://admin@presto.syno.me:share1/folder /home/user/Downloads</pre>   |

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3.5 Support. During the Warranty Period, Synology will make available to Customer the support services. Following the expiration of the applicable Warranty Period, support for Products may be available from Synology upon written request.

3.6 Exclusions. The foregoing warranties and warranty obligations do not apply to any Product that (a) has been installed or used in a manner not specified or described in the Product specifications; (b) has been repaired, modified or altered by anyone other than Synology or its agent or designee; (c) has been in any way misused, abused, or damaged; (d) has been used with items not provided by Synology other than the hardware or software for which the Product is designed; or (e) otherwise fails to conform to the Product specifications and such failure is attributable to causes not within or under Synology's control. Further, the foregoing warranties will be void if (1) Customer disassembles the Product except as authorized by Synology; (2) Customer fails to implement any correction, modification, enhancement, improvement or other update made available to Customer by Synology; or (3) Customer implements, installs or uses any correction, modification, enhancement, improvement or other update made available by any third party. The warranty set forth in Section 3 will terminate upon Customer's sale or transfer of the Product to a third party.

3.7 Disclaimer of Warranties. THE WARRANTIES, OBLIGATIONS, AND LIABILITIES OF SYNOLOGY AND THE REMEDIES OF CUSTOMER SET FORTH IN THIS WARRANTY ARE EXCLUSIVE AND IN SUBSTITUTION FOR, AND CUSTOMER HEREBY WAIVES, RELEASES AND DISCLAIMS, ALL OTHER WARRANTIES, OBLIGATIONS AND LIABILITIES OF SYNOLOGY AND ALL OTHER RIGHTS, CLAIMS AND REMEDIES OF CUSTOMER AGAINST SYNOLOGY, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO THE PRODUCT, ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES DELIVERED UNDER THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO ANY: (A) IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE; (B) IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE; (C) CLAIM OF INFRINGEMENT OR MISAPPROPRIATION; OR (D) CLAIM IN TORT (WHETHER BASED ON NEGLIGENCE, STRICT LIABILITY, PRODUCT LIABILITY OR OTHER THEORY). SYNOLOGY MAKES NO GUARANTEE AND SPECIFICALLY DISCLAIMS ANY WARRANTY THAT THE DATA OR INFORMATION STORED ON ANY SYNOLOGY PRODUCT WILL BE SECURE AND WITHOUT RISK OF DATA LOSS. SYNOLOGY RECOMMENDS THAT CUSTOMER TAKES APPROPRIATE MEASURES TO BACK UP THE DATA STORED ON THE PRODUCT. SOME STATES/JURISDICTIONS DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO CUSTOMER.

#### Section 4. Limitations of Liability

4.1 Force Majeure. Synology will not be liable for, or be considered to be in breach of or default under this Warranty on account of, any delay or failure to perform as required by this Warranty as a result of any cause or condition beyond its reasonable control (including, without limitation, any act or failure to act by Customer).

4.2 Disclaimer of Certain Damages. IN NO EVENT WILL SYNOLOGY OR ITS SUPPLIERS BE LIABLE FOR THE COST OF COVER OR FOR ANY INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL OR SIMILAR DAMAGES OR LIABILITIES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO LOSS OF DATA, INFORMATION, REVENUE, PROFIT OR BUSINESS) ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY EVEN IF SYNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

4.3 Limitation of Liability. SYNOLOGY'S AND ITS SUPPLIERS' LIABILITY ARISING OUT OF OR RELATING TO THE

USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY IS LIMITED TO THE AMOUNT ACTUALLY PAID BY CUSTOMER FOR THE PRODUCT REGARDLESS OF THE AMOUNT OF DAMAGES CUSTOMER MAY INCUR AND WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY. The foregoing disclaimer of certain damages and limitation of liability will apply to the maximum extent permitted by applicable law. The laws of some states/jurisdictions do not allow exclusion or limitation of certain damages. To the extent that those laws apply to the Product, the exclusions and limitations set forth above may not apply to Customer.

#### Section 5. Miscellaneous

5.1 Proprietary Rights. The Product and any accompanying Software and documentation provided with the Product include proprietary and intellectual property rights of Synology and its third party suppliers and licensors. Synology retains and reserves all right, title, and interest in the intellectual property rights of the Product, and no title to or ownership of any intellectual property rights in or to the Product, any accompanying Software or documentation and any other goods provided under this Warranty is transferred to Customer under this Warranty. Customer will (a) comply with the terms and conditions of the Synology end user license agreement accompanying any Software furnished by Synology or an authorized Synology distributor or reseller; and (b) not attempt to reverse engineer any Product or component thereof or accompanying Software or otherwise misappropriate, circumvent or violate any of Synology's intellectual property rights.

5.2 Assignment. Customer will not assign any of its rights under this Warranty directly, by operation of law or otherwise, without the prior written consent of Synology.

5.3 No Additional Terms. Except as expressly permitted by this Warranty, neither party will be bound by, and each party specifically objects to, any term, condition or other provision that conflicts with the provisions of this Warranty that is made by the other party in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, unless each party specifically agrees to such provision in writing. Further, if this Warranty conflicts with any terms or conditions of any other agreement entered into by the parties with respect to the Product, this Warranty will prevail unless the other agreement specifically references the sections of this Warranty that it supersedes.

5.4 Applicable Law. Unless explicitly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. for the Customers residing within the United States; and by the laws of the Republic of China (Taiwan) for Customers not residing within the United States, without regard to any conflict of law principles to the contrary. The 1980 U.N. Convention on Contracts for the International Sale of Goods or any successor thereto does not apply.

5.5 Dispute Resolution. Any dispute, controversy or claim arising out of or relating to this Warranty, the Product or services provided by Synology with respect to the Product or the relationship between Customers residing within the United States and Synology will be resolved exclusively and finally by arbitration under the current commercial rules of the American Arbitration Association, except as otherwise provided below. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute between Customer and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall be held in King County, Washington, U.S.A. by submission of documents, by telephone, online or in person as determined by the arbitrator at the request of the parties. The prevailing party in any arbitration or legal action occurring within the United States or otherwise shall receive all costs and reasonable attorneys' fees, including any arbitration fee paid by the prevailing party. Any decision rendered in such arbitration proceedings will be final and binding on the parties, and judgment may be entered thereon in any court of competent jurisdiction. Customer understands that, in the absence of this provision, Customer would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and Customer expressly and knowingly waives those rights and agrees to resolve any disputes through binding arbitration in accordance with the provisions of this Section 5.5. For Customers not residing within the United States, any dispute, controversy or claim described in this section shall be finally resolved by arbitration conducted by three neutral arbitrators in accordance with the procedures of the R.O.C. Arbitration Law and related enforcement rules. The arbitration shall take place in Taipei, Taiwan, R.O.C., and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese. The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this Warranty relating to Synology's intellectual property rights.

5.6 Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this Warranty, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.

5.7 Export Restrictions. You acknowledge that the Product may be subject to U.S. export restrictions. You will comply with all applicable laws and regulations that apply to the Product, including without limitation the U.S. Export Administration Regulations.

5.8 Severability. If any provision of this Warranty is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this Warranty will remain in full force and effect.

5.9 Entire Agreement. This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.