
mbrn-d Documentation

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CHAPTER 1

Features

- Both **GUI** and **CLI** interfaces
- File history ensures file versions are never removed until necessary.
- Log in from anywhere using your generated 4096-bit RSA key
- Deduplication reduces storage requirements for similar files.
- Prioritise backup to friends and family.

CHAPTER 2

Installation

- Download the [DEB](#) or [RPM](#) package
- Install using `dpkg -i /path/to/membrane-1.0.0-alpha.7.deb` or `rpm -i /path/to/membrane-1.0.0-alpha.7.rpm`
- Start the daemon using `sudo systemctl start membraned.service`
- Check status using `membrane status`
- Run GUI using `membrane-gui`
- Logs can be viewed using `journalctl -u membraned.service`
- Backup your credentials from `/root/.config/membrane/auth`
- To restore another account replace `/root/.config/membrane/auth` with your backed up credentials

CHAPTER 3

Requirements

- Java 8 or above
- Systemd (if using packages)

CHAPTER 4

Quick Start

- Use the GUI to monitor the membrane daemon `membrane-gui`
- To add watch folders to backup use `membrane watch-add <folder>`
- To check backed up files use `membrane files`
- To explore file history use `membrane history <file>`
- To recover file use `membrane recover <file> <target> <optional: date>`
- Use the `-h` flag at any point for command help

The Rest API is available on port 13200 by default.

Available Calls include:

Status

- **URL** : /
- **Method** : GET
- **Response Params** : {hostname: [string], startTime: [dateTime], port: [number], version: [string], status: [string], tagline: [string]}
- **Response Codes** : Success (200 OK), Unauthorized (403), Internal Error (500)

Network

- **URL** : /status/network
- **Method** : GET
- **Response Params** : {enabled : [bool], connectedPeers: [number], networkUID: [string], maxConnectionCount: [number], peerListeningPort: [number], upnpAddress: [string]}
- **Response Codes** : Success (200 OK), Unauthorized (403), Internal Error (500)

Storage

- **URL** : /status/storage
- **Method** : GET

- **Response Params** : {currentFiles: [string[]], referencedFiles: [string[]], localShardStorageSize: [number], targetLocalShardStorageSize: [number], maxLocalShardStorageSize: [number], peerBlockStorageSize: [number], targetPeerBlockStorageSize: [number], maxPeerBlockStorageSize: [number]}
- **Response Codes** : Success (200 OK), Unauthorized (403), Internal Error (500)

Watcher

- **URL** : /status/watcher
- **Method** : GET
- **Response Params** : {trackedFolders: [string[]], trackedFiles: [string[]]}
- **Response Codes** : Success (200 OK), Unauthorized (403), Internal Error (500)

Watch Folders

- **URL** : /status/watch_folder
- **Method** : GET
- **Response Params** : {watchFolders: [watchFolder[]]}
- **Response Codes** : Success (200 OK), Unauthorized (403), Internal Error (500)
- **Other** : watchFolder = {directory: [string], recursive: [bool]}

Contract

- **URL** : /status/contract
- **Method** : GET
- **Response Params** : {contractManagerActive: [boolean], contractTarget: [number], contractedPeers: [string[]], undeployedShards: [string[]], partiallyDistributedShards: [string[]], fullyDistributedShards: [string[]]}
- **Response Codes** : Success (200 OK), Unauthorized (403), Internal Error (500)

Modify Watch Folder

- **URL** : /configure/watch_folder
- **Method** : POST
- **Request Params** : {type: [string (ADD|REMOVE)], watchFolder: [watchFolder]}
- **Response Codes** : Success (200 OK), Partial Fail (304), Invalid Request (400), Unauthorized (403), Internal Error (500)
- **Other** : watchFolder = {directory: [string], recursive: [bool]}

Request Storage Cleanup

- **URL** : /request/cleanup
- **Method** : POST
- **Response Codes** : Success (200 OK), Invalid Request (400), Unauthorized (403), Internal Error (500)

Reconstruct File

- **URL** : /request/reconstruct
- **Method** : POST
- **Request Params** : {filepath: [string]}
- **Response Codes** : Success (200 OK), Partial Fail (304), Invalid Request (400), Unauthorized (403), Internal Error (500)

Request File History

- **URL** : /request/history
- **Method** : POST
- **Request Params** : {filepath: [string], targetFilePath: [string], dateTimeMillis: [number]}
- **Response Params** : {filePath: [string], fileHistoryEntryList: [fileHistoryEntry[]]}
- **Response Codes** : Success (200 OK), Partial Fail (304), Invalid Request (400), Unauthorized (403), Internal Error (500)
- **Other** : fileHistoryEntry = {dateTime: [string], hashes: [string[]], size: [number], remove: [boolean]}

CHAPTER 6

Support

If you are having issues, please let us know. We have a mailing list located at: support@mbrn.io

CHAPTER 7

Indices and tables

- `genindex`
- `modindex`
- `search`