

Backup - Configuration - Advanced Options

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Lösung (öffentlich)

Backup - Configuration - Advanced Options

This page explains further options for configuring the backup.

Parameters and Configuration

Some parameters and configuration options are already commented in the minimal configuration file. Fundamentally, there is only one main category you need to adjust: which files or folders should be included in the backup.

There are 4 different options you can use:

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domain: The starting point of the backup, from which the backup client considers files. On Linux, this is a mount point (a regular subfolder like /home/service does not work); on Windows, a drive letter.

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exclude: Excludes files from the backup

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exclude.dir: Excludes an entire folder (including all of its contents) from the backup by no longer traversing it

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include: Explicitly includes files that were previously excluded by an exclude rule

Additionally, there is exclude.compression, which exempts files from client-side compression (e.g., already compressed archives) - these files are still backed up, just not compressed again.

exclude.dir is permanent: An exclude.dir rule removes the folder completely from the backup client's traversal - the folder is never even entered during the backup. An include rule for a file or subfolder located under an exclude.dir path is simply ignored during the automatic (incremental) backup, because the client never looks there.

Therefore, only use exclude.dir for folders you never want to back up (e.g., cache, temp, or system folders). If you want to exclude a large area but still back up individual subfolders, use the regular exclude option instead (see below) - this only excludes files without removing the folder itself from traversal, so an include rule for files underneath it still works.

Windows Peculiarity - UNC Paths

On Windows, paths in exclude, exclude.dir, and include rules must always be specified as a full UNC path (e.g., \\mycomputer\c\$\... instead of C:\...*) - see [1] Configuration - Windows for details and further examples.

How Do domain, include, and exclude Work Together?

domain defines the starting point (mount point or drive) - by default, all files under it are backed up. exclude removes files from this set, and include adds individual ones back in.

domain /home

* First, exclude all files ...

exclude "/home/.../*"

* ... but the user "foobar" should be backed up

include "/home/foobar/.../*"

The folder structure itself continues to be traversed and backed up - only the actual files outside of foobar are skipped. This only works because exclude is used here instead of exclude.dir.

Evaluation Order

include and exclude rules are evaluated from top to bottom - the last matching rule wins. This is why more specific rules must always be placed below more general rules:

* General rule (top): exclude all log files

exclude "/home/.../*.log"

* Specific exception (bottom): include access.log anyway

```
include "/home/.../access.log"
```

If the order were reversed, the exclude rule would be the last matching rule, and access.log would still be excluded.

Wildcards

The backup client supports three wildcard characters:

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*: Any characters within a path segment (no /), e.g., *.log

-

?: Exactly one arbitrary character, e.g., file?.txt

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...: Any number of directory levels (specific to IBM Storage Protect, equivalent to the Unix-like */), e.g., /home/.../

Typical use cases:

* Exclude all .log files anywhere under /var

```
exclude "/var/.../*.log"
```

* Exclude all hidden files under /home

```
exclude "/home/.../*."
```

* Exempt all already compressed files from compression

```
exclude.compression ".../*.gz"
```

```
exclude.compression ".../*.zip"
```

Examples

The following examples combine all the options explained above into a realistic scenario. Add the lines to the minimal configuration in dsm.sys (Linux) or dsm.opt (Windows), replacing the existing domain line.

Linux

A server has /home and /var as separate mount points. /var should be backed up in full (except for cache and temp files). Under /home, only the home directories of the users service and foobar should be backed up.

```
domain /home /var
```

* Cache and temp data under /var is never needed - exclude completely

```
exclude.dir "/var/cache"
```

```
exclude.dir "/var/tmp"
```

* By default, back up nothing under /home ...

```
exclude "/home/.../*"
```

* ...but certain users should be backed up

```
include "/home/foobar/.../*"
```

```
include "/home/service/.../*"
```

* Don't recompress already compressed, rotated logs

```
exclude.compression "/var/log/.../*.gz"
```

Windows

A Windows server winsrv01 has the drives C: and D:. On C:, only the Windows system folder C:\Windows should be excluded (never needed), the rest of C: is backed up. On D: the actual payload data is located under D:\MyService - everything else on D: should be skipped.

```
domain c: d:
```

* Windows system data is not needed in the backup

```
exclude.dir "\\winsrv01\c$\Windows"
```

* By default, back up nothing on D: ...

```
exclude "\\winsrv01\d$\\...\\*"
```

* ... but explicitly include the service's application data

```
include "\\winsrv01\d$\MyService\\...\\*"
```

* Don't recompress already compressed archives

```
exclude.compression "\\winsrv01\d$\MyService\\...\\*.zip"
```

[1] <https://faq.tickets.tu-dresden.de/otrs/public.pl?Action=PublicFAQZoom;ItemID=1620;>