

Backup - Configuration - Windows

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Lösung (öffentlich)

Backup - Configuration - Windows

The configuration is located in the folder C:\Program Files\Tivoli\TSM\baclient. There is only one configuration file, dsm.opt, which needs to be created.

Comments are possible in the configuration file using the “*” symbol. Also, the capitalization of attributes does not matter.

The IBM Storage Protect Client also has a graphical GUI for configuration. We do not recommend this due to its complexity and various dependencies.

Configuration File dsm.opt Creating It

-

Start Windows PowerShell as Administrator (right-click -> Run as administrator)

-

Run the following commands:

```
cd "C:\Program Files\Tivoli\TSM\baclient"
```

```
notepad "C:\Program Files\Tivoli\TSM\baclient\dsm.opt"
```

-

Confirm the popup “Do you want to create a new file?” with “Yes”.

The configuration file has been created. Now it needs to be filled with content.

Content

This file configures the backup client and can be customized by you as you like. There are many different options; the most important ones are commented in the minimal configuration below, further ones can be found under [1]Advanced Options.

After requesting the backup node, you should see it in the [2]Self-Service Portal (SSP).

In the expanded view you will find the “Connection Details” section with the options TCPServeraddress, TCPPort, and Nodename. These values are needed in the following step.

You can adopt the following default configuration completely as is:

Replace the options <Nodename>, <TCPPort>, and <TCPServeraddress> with the information from the Self-Service Portal (in the expanded “Connection Details” tab).
Also adjust the domain option to the drives that should be included in the backup.

```
--- C:\Program Files\Tivoli\TSM\baclient\dsm.opt ---
```

```
* ****
```

```
* The following settings must be adjusted by you *
```

```
* ****
```

```
* Nodename from the SSP (Connection Details)
```

```
nodename <Nodename>
```

```
* TCPPort from the SSP (Connection Details)
```

```
tcpport <TCPPort>
```

```
* TCPServeraddress from the SSP (Connection Details)
```

```
tcpserveraddress <TCPServeraddress>
```

```
* Drives that receive a backup (on Windows, drive letters ONLY)
```

```
domain c:
```

```
* Multiple entries under domain are possible, e.g.:
```

```
* domain c: d: e:
```

```
* ****
```

* From here on you can adopt everything as is *

* *****

* Adjustments are possible, however - see "Advanced Options"

* Backup via TCP connection (do not change)

commethod tcpip

* Save password after first entry (do not change)

passwordaccess generate

* Path where info logs are written

schedlogname dsmsched.log

* How long info logs are kept, in days

schedlogretention 30 d

* Path where error logs are written

errorlogname dsmmerror.log

* How long error logs are kept, in days

errorlogretention 30 d

* Better transfer rates

diskbuffsize 512

compression yes

This minimal configuration file now backs up all files under the drives specified in domain. For further options and restrictions, see [3]Advanced Options.

Path Specifications on Windows

Windows backs up files using the UNC name. Unfortunately, this behavior cannot be turned off. As a result, paths in include, exclude, and exclude.dir rules must always be specified in full UNC notation. For the domain option (drive letters such as c:) and for commands such as dsmc incremental or dsmc restore, you can still use regular notation.

Example of a UNC path:

-

Regular notation: C:\Program Files

-

UNC notation: \\mycomputer\c\$\Program Files

-

mycomputer is the name of the Windows PC

-

c\$ is the drive in a different notation (C:\)

For further rules in the dsm.opt configuration file, UNC notation must be used. Note that no wildcards can be used before the domain entry point. If a path contains spaces, enclose it in quotation marks.

Examples for the PC mycomputer:

-

Excluding the Program Files folder on C:\:

exclude.dir "\\mycomputer\c\$\Program Files"

-

Excluding the Program Files folder on all drives:

-

We assume that the 3 drives c: d: e: were specified in the domain option

-

Each drive is its own domain, meaning we cannot use wildcards for it

-

A separate rule must be used for each domain

exclude.dir "\\mycomputer\c\$\Program Files"

exclude.dir "\\mycomputer\d\$\Program Files"

exclude.dir "\\mycomputer\e\$\Program Files"

Conclusion: The computer name and the domain must always be specified in full and cannot be replaced with wildcards (*).

Logging In

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Start Windows PowerShell as Administrator (right-click -> Run as administrator)

-

Run the following commands:

```
cd "C:\Program Files\Tivoli\TSM\baclient"
```

```
.\dsmc query session
```

-

You will now be prompted to log in.

-

The User-ID (the node name) should already be prefilled correctly (just confirm with Enter).

-

The password is the password generated via the Self-Service Portal.

-

The command should establish a connection to the server and output connection parameters.

Optional: Add the Backup Client to PATH

So that you don't have to cd into the directory C:\Program Files\Tivoli\TSM\baclient every time, you can add it to the system-wide Path environment variable once. To do so, run the following command in a Windows PowerShell as Administrator:

```
[Environment]::SetEnvironmentVariable("Path",  
[Environment]::GetEnvironmentVariable("Path", "Machine") + ";C:\Program  
Files\Tivoli\TSM\baclient", "Machine")
```

Afterwards, open a new PowerShell window. You can then call dsmc (instead of .dsmc) from any directory.

[1] <https://faq.tickets.tu-dresden.de/otrs/public.pl?Action=PublicFAQZoom;ItemID=1619;>

[2] <https://selfservice.tu-dresden.de/services/backup/overview/>

[3] <https://faq.tickets.tu-dresden.de/otrs/public.pl?Action=PublicFAQZoom;ItemID=1619;>