

Restore mit Bareos

Zusammenfassung

Hier wird beschrieben, wie selbst ein Restore vorgenommen werden kann.

Diese Anleitung richtet sich besonders an folgende Zielgruppen:

- **Mitarbeitende**

Bconsole

Es gibt eine Konsolenschnittstelle zum Bareos Server. Für einzelne User kann eine zugeschnittene Sicht auf einige Server/Backups erzeugt werden, damit dort auch individuelle Restores selbst möglich sind.

Voraussetzung

- URZ-Account
- Zugang zu dem Host `bcons.rz.uni-jena.de`
- Berechtigungen für den oder die jeweiligen Client(s)



Für den Zugang bitte ein Ticket im [Servicedesk](#) öffnen.

Anwendung

1. SSH Login mit eigener Kennung an '`bcons.rz.uni-jena.de`'.
2. Befehl '`bconsole`' eingeben.

Nun gibt es dort verschiedene Befehle, die auch mit 'help' abgefragt werden können.

Allgemein

Liste der Befehle, bzw. Hilfe

```
* help
* help status
```

Status des Backup Servers

```
* status dir
```

Status eines Clients (auch check ob erreichbar)

```
* status client=floh.rz.uni-jena.de
```

Liste der Jobs und Backups eines Clients (ggf. mit Beschränkung der letzten Tage)

```
* list jobs client=floh.rz.uni-jena.de
* list backups client=floh.rz.uni-jena.de
* list backups client=floh.rz.uni-jena.de days=4
```

Testen, wie viel ein aktuelles Backup benötigen würde:

```
* estimate job=floh.rz
```

Anschauen der Konfigurationene in Bareos:

```
* show client=floh.rz.uni-jena.de
* show job=floh.rz
* show jobs
* show jobdefs=ServerDefaultJob3W
* show fileset=default-win-fs1
* show schedule=3WS
```

Restore

```
* restore
* restore client=floh.rz.uni-jena.de
```

Für die nächste Frage sind vermutlich meist nur die Punkte **2**, **5** und **6** relevant.

```
To select the JobIds, you have the following choices:
  1: List last 20 Jobs run
  2: List Jobs where a given File is saved
  3: Enter list of comma separated JobIds to select
  4: Enter SQL list command
  5: Select the most recent backup for a client
  6: Select backup for a client before a specified time
  7: Enter a list of files to restore
  8: Enter a list of files to restore before a specified time
  9: Find the JobIds of the most recent backup for a client
 10: Find the JobIds for a backup for a client before a specified time
 11: Enter a list of directories to restore for found JobIds
 12: Select full restore to a specified Job date
 13: Cancel
```

- **2**: um eine Datei (ohne Pfad) zu finden in den unterschiedlichen Backup Versionen
- **3**: wenn man die JobIDs kennt
- **5**: Wiederherstellen der letzten Version
- **6**: Wiederherstellen zu einem bestimmten Zeitpunkt
- Danach kommt man in einen virtuellen Verzeichnisbaum um die Dateien/Verzeichnisse zu markieren (Befehl **mark**). Die Auswahl wird dann mit **d** **one** abgeschlossen.

Nun erfolgt nochmal eine Kontrolle. Normalerweise wird nach /tmp/bareos-restore zurückgesichert. Wenn dies bestätigt wird, startet der Restore. Mit **status dir**

Beispiel 1

```
* restore client=floh.rz.uni-jena.de
```

First you select one or more JobIds that contain files to be restored. You will be presented several methods of specifying the JobIds. Then you will be allowed to select which files from those JobIds are to be restored.

```
To select the JobIds, you have the following choices:
  1: List last 20 Jobs run
  2: List Jobs where a given File is saved
  3: Enter list of comma separated JobIds to select
  4: Enter SQL list command
  5: Select the most recent backup for a client
  6: Select backup for a client before a specified time
  7: Enter a list of files to restore
  8: Enter a list of files to restore before a specified time
  9: Find the JobIds of the most recent backup for a client
 10: Find the JobIds for a backup for a client before a specified time
 11: Enter a list of directories to restore for found JobIds
 12: Select full restore to a specified Job date
 13: Cancel
```

Select item: (1-13): 2

Enter Filename (no path):blabla.txt

```
+-----+-----+-----+-----+-----+-----+-----+
| jobid | name                               | starttime           | jobtype | jobstatus | jobfiles | jobbytes |
```

JobId	File	Time	Day	Week	Size	Checksum
9419	/home/floh/bla bla.txt	2016-01-31 12:00:06	B	W	723222	25847959779
8095	/home/floh/bla bla.txt	2016-01-14 09:02:21	B	W	720177	26887045352
7187	/home/floh/bla bla.txt	2016-01-07 16:02:12	B	T	1952	206679936

To select the JobIds, you have the following choices:

- 1: List last 20 Jobs run
- 2: List Jobs where a given File is saved
- 3: Enter list of comma separated JobIds to select
- 4: Enter SQL list command
- 5: Select the most recent backup for a client
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- 9: Find the JobIds of the most recent backup for a client
- 10: Find the JobIds for a backup for a client before a specified time
- 11: Enter a list of directories to restore for found JobIds
- 12: Select full restore to a specified Job date
- 13: Cancel

Select item: (1-13): 3

Enter JobId(s), comma separated, to restore: 8095

You have selected the following JobId: 8095

Building directory tree for JobId(s) 8095 ...
658,342 files inserted into the tree.

You are now entering file selection mode where you add (mark) and remove (unmark) files to be restored. No files are initially added, unless you used the "all" keyword on the command line.
Enter "done" to leave this mode.

cwd is: /

\$ ls

etc/

home/

root/

\$ mark /home/floh/bla bla.txt

1 file marked.

\$ done

Bootstrap records written to /var/lib/bareos/bareos1-dir.restore.13.bsr

The job will require the following

Volume(s)	Storage(s)	SD Device(s)
VFBP-21149	VirtualStorageVFB	VirtualVFB

Volumes marked with "*" are online.

1 file selected to be restored.

Automatically selected Job: RestoreDummy

Run Restore job

JobName: RestoreDummy

Bootstrap: /var/lib/bareos/bareos1-dir.restore.13.bsr

Where: /tmp/bareos-restores

Replace: Always

FileSet: default-linux-fs0

Backup Client: floh.rz.uni-jena.de

Restore Client: floh.rz.uni-jena.de

Format: Native

Storage: VirtualStorageVFB

When: 2016-02-11 15:28:11

Catalog: MyCatalog

Priority: 10

Plugin Options: *None*

OK to run? (yes/mod/no): yes

Job queued. JobId=10670



Wenn der Restorepfad /tmp/bareos-restores nicht passt, insbesondere für Windows muss dieser angepasst werden z.B.: 'D:/bareos-restores/'

```
*status dir
*list joblog jobid=10670
```

Beispiel 2

```
*restore client=bcons.rz.uni-jena.de
```

First you select one or more JobIds that contain files to be restored. You will be presented several methods of specifying the JobIds. Then you will be allowed to select which files from those JobIds are to be restored.

To select the JobIds, you have the following choices:

- 1: List last 20 Jobs run
- 2: List Jobs where a given File is saved
- 3: Enter list of comma separated JobIds to select
- 4: Enter SQL list command
- 5: Select the most recent backup for a client
- 6: Select backup for a client before a specified time
- 7: Enter a list of files to restore
- 8: Enter a list of files to restore before a specified time
- 9: Find the JobIds of the most recent backup for a client
- 10: Find the JobIds for a backup for a client before a specified time
- 11: Enter a list of directories to restore for found JobIds
- 12: Select full restore to a specified Job date
- 13: Cancel

Select item: (1-13): 5

Automatically selected FileSet: default-linux-fs1

jobid	level	jobfiles	jobbytes	starttime	volumename
9,973	F	10,129	473,003,772	2016-02-05 19:10:02	OF0516L6
10,102	I	11	168,082	2016-02-08 21:25:53	OF0516L6
10,456	I	3	130,522	2016-02-09 19:02:52	OF0516L6
10,586	I	10	143,905	2016-02-10 19:03:30	OF0516L6

You have selected the following JobIds: 9973,10102,10456,10586

Building directory tree for JobId(s) 9973,10102,10456,10586 ...
8,287 files inserted into the tree.

You are now entering file selection mode where you add (mark) and remove (unmark) files to be restored. No files are initially added, unless you used the "all" keyword on the command line.
Enter "done" to leave this mode.

```
cwd is: /
ls
etc/
home/
root/
usr/
$ cd home
cwd is: /home/
$ ls
de65lun/
lost+found
$ mark de65lun
11 files marked.
$ done
```

Bootstrap records written to /var/lib/bareos/bareos1-dir.restore.14.bsr

The job will require the following

Volume(s)	Storage(s)	SD Device(s)
*OF0516L6	Scalar6k-TWR	Scalar6k-TWR

Volumes marked with "*" are online.

12 files selected to be restored.

Automatically selected Job: RestoreDummy

Run Restore job

JobName: RestoreDummy
Bootstrap: /var/lib/bareos/bareos1-dir.restore.14.bsr
Where: /tmp/bareos-restores
Replace: Always
FileSet: default-linux-fs0
Backup Client: bcons.rz.uni-jena.de
Restore Client: bcons.rz.uni-jena.de
Format: Native
Storage: Scalar6k-TWR
When: 2016-02-11 15:35:30
Catalog: MyCatalog
Priority: 10
Plugin Options: *None*
OK to run? (yes/mod/no): yes
Job queued. JobId=10671
*status dir days=0

```
...
JobId Level  Name                               Status
=====
10671      RestoreDummy.2016-02-11_15.35.33_25 is running
=====
```

```
...
*list joblog jobid=10671
2016-02-11 15:35:35 bareos1-dir JobId 10671: Start Restore Job RestoreDummy.2016-02-11_15.35.33_25
2016-02-11 15:35:35 bareos1-dir JobId 10671: Using Device "LT06-twr-05" to read.
*
```

WebUI

Der Restore über eine Weboberfläche wird auch möglich sein, wird aber noch etwas dauern bis diese hier zur Verfügung steht.

...

Verwandte Artikel

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