



Make a Streaming Backup

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Make a Streaming Backup

Stream mode sends the backup to `STDOUT` in the `xbstream` format instead of copying it to the directory named by the first argument. You can pipe the output to a local file, or, across the network, to another server.

To extract the resulting `xbstream` file, you **must** use the `xbstream` utility: `xbstream -x < backup.xbstream`.

Examples of Using `xbstream`

Task	Command
Stream the backup into an archive named <code>backup.xbstream</code>	<code>xtrabackup --backup --stream=xbstream --target-dir=./ > backup.xbstream</code>
Stream the backup into a <i>compressed</i> archive named <code>backup.xbstream</code>	<code>xtrabackup --backup --stream=xbstream --compress --target-dir=./ > backup.xbstream</code>
Encrypt the backup	<code>\$ xtrabackup --backup --stream=xbstream ./ > backup.xbstream gzip - openssl des3 -salt -k "password" > backup.xbstream.gz.des3</code>
Unpack the backup to the current directory	<code>xbstream -x < backup.xbstream</code>

Task	Command
 PERCONA Send the backup compressed directly to another host and unpack it	<pre>xtrabackup --backup --compress --stream=xbstream --target-dir=./ ssh user@otherhost "xbstream -x"</pre>
Send the backup to another server using netcat .	<p>On the destination host:</p> <pre>\$ nc -l 9999 cat - > /data/backups/backup.xbstream</pre> <p>On the source host:</p> <pre>\$ xtrabackup --backup --stream=xbstream ./ nc desthost 9999</pre>
Send the backup to another server using a one-liner:	<pre>\$ ssh user@desthost (mailto:user%40desthost) "(nc -l 9999 > /data/backups/backup.xbstream &)" && xtrabackup --backup --stream=xbstream ./ nc desthost 9999</pre>
Throttle the throughput to 10MB/sec using the pipe viewer tool [1]	<pre>\$ xtrabackup --backup --stream=xbstream ./ pv -q -L10m ssh user@desthost (mailto:user%40desthost) "cat - > /data/backups/backup.xbstream"</pre>
Checksumming the backup during the streaming:	<p>On the destination host:</p> <pre>\$ nc -l 9999 tee >(sha1sum > destination_checksum) > /data/backups/backup.xbstream</pre> <p>On the source host:</p> <pre>\$ xtrabackup --backup --stream=xbstream ./ tee >(sha1sum > source_checksum) nc desthost 9999</pre> <p>Compare the checksums on the source host:</p> <pre>\$ cat source_checksum 65e4f916a49c1f216e0887ce54cf59bf3934dbad -</pre> <p>Compare the checksums on the destination host:</p> <pre>\$ cat destination_checksum 65e4f916a49c1f216e0887ce54cf59bf3934dbad -</pre>
Parallel compression with parallel copying backup	<pre>xtrabackup --backup --compress --compress-threads=8 --stream=xbstream --parallel=4 --target-dir=./ > backup.xbstream</pre>

- [1] Install from the official site (<http://www.ivarch.com/programs/quickref/pv.shtml>) or from the distribution package
 (`apt install pv`)

See also

More information about streaming and compressing backups

Section Streaming Backups ([../xtrabackup_bin/backup.streaming.html#pxb-xtrabackup-streaming](http://xtrabackup_bin/backup.streaming.html#pxb-xtrabackup-streaming))

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- [Percona XtraBackup 8.0 \(/doc/percona-xtrabackup/8.0/index.html\)](#)
- [Percona XtraBackup 2.4 \(/doc/percona-xtrabackup/2.4/index.html\)](#)
- [Percona XtraBackup 2.3 \(EOL\) \(/doc/percona-xtrabackup/2.3/index.html\)](#)
- [Percona XtraBackup 2.2 \(EOL\) \(/doc/percona-xtrabackup/2.2/index.html\)](#)
- [Percona XtraBackup 2.1 \(EOL\) \(/doc/percona-xtrabackup/2.1/index.html\)](#)
- [Percona XtraBackup 2.0 \(EOL\) \(/doc/percona-xtrabackup/2.0/index.html\)](#)
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