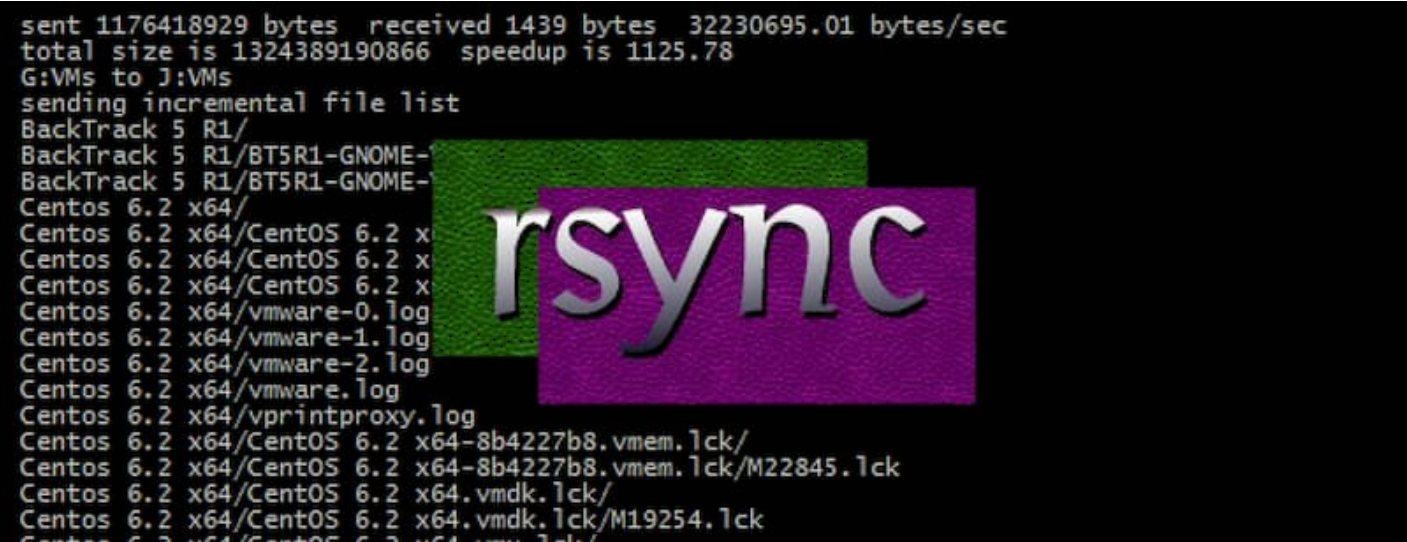# rsync

❝ rsync

rsync   Linux

`cp` `mv`

`r`   remote rsync   "   " remote sync   FTP   scp   rsync

rsync

```
# Debian
$ sudo apt-get install rsync


# Red Hat
$ sudo yum install rsync


# Arch Linux
$ sudo pacman -S rsync
```

rsync

-r

rsync `cp` `mv`

```
$ rsync -r source destination
```

`-r` `-r` `rsync` `source` `destination`

```
$ rsync -r source1 source2 destination
```

`source1` `source2` `destination`

-a

`-a` `-r` `rsync` `-a` `-r`

```
$ rsync -a source destination
```

`destination` `rsync` `source` `destination` `destination/source`

`source` `destination`

```
$ rsync -a source/ destination
```

`source` `destination` `destination` `source`

-n

`rsync` `-n` `--dry-run`

```
$ rsync -anv source/ destination
```

`-n` `-v`

--delete

r`--delete`

```
$ rsync -av --delete source/ destination
```

`--delete` `destination` `source`

--exclude

`--exclude`

```
$ rsync -av --exclude='*.txt' source/ destination
#
$ rsync -av --exclude '*.txt' source/ destination
```

TXT

rsync `--exclude=".*"`

```
$ rsync -av --exclude 'dir1/*' source/ destination
```

`--exclude`

```
$ rsync -av --exclude 'file1.txt' --exclude 'dir1/*' source/ destination
```

`--exclude`

```
$ rsync -av --exclude={'file1.txt','dir1/*'} source/ destination
```

`--exclude-from`

```
$ rsync -av --exclude-from='exclude-file.txt' source/ destination
```

--include

`--include` `--exclude`

```
$ rsync -av --include="*.txt" --exclude='*' source/ destination
```

TXT

SSH

rsync

```
$ rsync -av source/ username@remote_host:destination
```

```
$ rsync -av username@remote_host:source/ destination
```

rsync   SSH

rsync `-e` SSH `-e ssh`

```
$ rsync -av -e ssh source/ user@remote_host:/destination
```

`-e`   SSH

```
$ rsync -av -e 'ssh -p 2234' source/ user@remote_host:/destination
```

-e   SSH   2234

rsync

SSH `rsync://`   rs `::` 873

```
$ rsync -av source/ 192.168.122.32::module/destination
```

`module`   rsync

rsync   module

```
$ rsync rsync://192.168.122.32
```

rsync `rsync://`

```
$ rsync -av source/ rsync://192.168.122.32/module/destination
```

rsync

            rsync

`--link-dest`

```
$ rsync -a --delete --link-dest /compare/path /source/path /target/path
```

`--link-dest` `/compare/path` `/source/path` `/target/path`

```
#!/bin/bash
```

```
# A script to perform incremental backups using rsync

set -o errexit
set -o nounset
set -o pipefail

readonly SOURCE_DIR="${HOME}"
readonly BACKUP_DIR="/mnt/data/backups"
readonly DATETIME="$(date '+%Y-%m-%d_%H:%M:%S')"
readonly BACKUP_PATH="${BACKUP_DIR}/${DATETIME}"
readonly LATEST_LINK="${BACKUP_DIR}/latest"

mkdir -p "${BACKUP_DIR}"

rsync -av --delete \
  "${SOURCE_DIR}/" \
  --link-dest "${LATEST_LINK}" \
  --exclude=".cache" \
  "${BACKUP_PATH}"

rm -rf "${LATEST_LINK}"
ln -s "${BACKUP_PATH}" "${LATEST_LINK}"
```

`${BACKUP_DIR}/${DATETIME}` `${BACKUP_DIR}/latest` `${BACKUP_DIR}/latest` `${BACKUP_DIR}/latest`

`-a` `--archive`   modification time

`--append`

`--append-verify` `--append`

`-b` `--backup` `--suffix`   ~

`--backup-dir` `--backup-dir=/path/to/backups`

`--bwlimit` `KB/s` `--bwlimit=100`

`-c` `--checksum` `rsync` `rsync`

`--delete`

`-e`   SSH

`--exclude` `--exclude="*.iso"`

`--exclude-from`

`--existing` `--ignore-non-existing`

`-h`

`-h` `--help`

`-i`

`--ignore-existing`

`--include` `--exclude`

`--link-dest`

`-m`

`--max-size` `200KB --max-size='200k'`

`--min-size` `10KB --min-size=10k`

`-n` `--dry-run` `-v`

`-P` `--progress` `--partial`

`--partial` `rsync` `--append` `--append-verify`

`--partial-dir` `--partial-dir=.rsync-partial` `--append` `--append-verify`

`--progress`

`-r`

`--remove-source-files`

`--size-only`

`--suffix` `~`

`-u` `--update`

`-v` `-vv` `-vvv`

`--version` `rsync`

```
- z
```

How To Use Rsync to Sync Local and Remote Directories on a VPS, Justin Ellingwood

Mirror Your Web Site With rsync, Falko Timme

Examples on how to use Rsync, Egidio Docile

How to create incremental backups using rsync on Linux, Egidio Docile

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Revision #2
Created 19 July 2021 18:12:21 by
Updated 19 July 2021 18:33:14 by