

# Server & desktop backup solutions

## rsync

Follow our [rsync](#) tutorial first.

The snapshots are stored locally and remotely via rsync daemon.

This backup solution is only recommended for an internal network. Use an encrypted backup method with [borg](#) instead.

## Credentials

```
echo "$password" > /etc/rsyncd.password
chmod 400 /etc/rsyncd.password
```

## Server

### Script

Add your details for DAEMONUSER="" and DAEMONHOST="".

```
#!/bin/sh

## Based on:
## my own rsync-based snapshot-style backup procedure
## (cc) marcio rps AT gmail.com

# config vars

SRC="/"
SNAP="/root/backup/"
OPTS="--rltogiPhv --stats --delay-updates --delete --chmod=a-w"
EXCL="--exclude-from=/root/backup-filter.rule"
DAEMONUSER=""
DAEMONHOST=""
MINCHANGES=1

# run this process with real low priority

ionice -c 3 -p $$
renice +12 -p $$

# List and save installed packages
pacman -Qn | awk '{ print $1 }' > /root/pkglist
```

```
# sync

rsync $OPTS $EXCL $SRC $SNAP/latest >> $SNAP/rsync.log

# check if enough has changed and if so
# make a hardlinked copy named as the date

COUNT=$( wc -l $SNAP/rsync.log|cut -d" " -f1 )
if [ $COUNT -gt $MINCHANGES ] ; then
    DATETAG=$(date +%Y-%m-%d-%H:%M)
    if [ ! -e $SNAP/$DATETAG ] ; then
        cp -al $SNAP/latest $SNAP/$DATETAG
        chmod u+w $SNAP/$DATETAG
        mv $SNAP/rsync.log $SNAP/$DATETAG
        chmod u-w $SNAP/$DATETAG
    fi
fi

rsync -avAXHP --delete --password-file=/etc/rsyncd.password $SNAP
rsync://$DAEMONUSER@$DAEMONHOST/archive/backup/server/root
```

### Exclude folder and files

This is an example and widely used as a starting point for a server. Add anything you don't need to backup.

#### backup-filter.rule

```
/dev/*
/proc/*
/sys/*
/tmp/*
/run/*
/mnt/*
/media/*
/home/*
/root/backup/*
/lost+found
```

### Desktop (home)

#### Script

Add your details for DAEMONUSER="" and DAEMONHOST="".

```
#!/bin/sh
```

```
## Based on:
## my own rsync-based snapshot-style backup procedure
## (cc) marcio rps AT gmail.com

# config vars

real_user=$SUDO_USER

SRC="/home/$real_user/"
SNAP="/home/$real_user/backup/"
OPTS="-rltgoiP --delay-updates --delete --chmod=a-w"
EXCL="--exclude-from=/home/$real_user/backup-filter.rule"
DAEMONUSER=""
DAEMONHOST=""
MINCHANGES=1

# run this process with real low priority

ionice -c 3 -p $$
renice +12 -p $$

# sync

rsync $OPTS $EXCL $SRC $SNAP/latest >> $SNAP/rsync.log

# check if enough has changed and if so
# make a hardlinked copy named as the date

COUNT=$( wc -l $SNAP/rsync.log | cut -d" " -f1 )
if [ $COUNT -gt $MINCHANGES ] ; then
    DATETAG=$(date +%Y-%m-%d-%H:%M)
    if [ ! -e $SNAP/$DATETAG ] ; then
        cp -al $SNAP/latest $SNAP/$DATETAG
        chmod u+w $SNAP/$DATETAG
        mv $SNAP/rsync.log $SNAP/$DATETAG
        chmod u-w $SNAP/$DATETAG
    fi
fi

rsync -avAXHP --delete --password-file=/etc/rsyncd.password $SNAP
rsync://$DAEMONUSER@$DAEMONHOST/archive/backup/server/$real_user
```

### Exclude folder and files

This is an example. Add anything you don't need to backup.

```
backup-filter.rule
```

backup/  
.cache/

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Last update: **2022/10/24 08:24**

