

Server & desktop backup solutions

The first backups will take a while. The following ones are much faster, but it depends on how much you change. Only the changes are saved.

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.

Dependencies

The script needs `inetutils` for `hostname` command.

```
pacman -S inetutils
```

Credentials

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

Script

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

```
nano /root/rsnapbackup.sh
```

```
#!/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=""
HOSTNAME=$(hostname)
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@$DAEMONHOST/archive/backup/$HOSTNAME

chmod +x /root/rsnapbackup.sh
```

Exclude folder and files

This is an example. Add anything you don't need to backup. And change home \$USER.

```
nano /root/backup-filter.rule
```

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

```
# root user
/root/backup/*
/root/.cache/*
# Home user
/home/$USER/.cache/*
```

borg

Follow our [borg](#) tutorial first.

The snapshots are stored remotely via ssh.

Script

Don't forget to create the borg repo first and add the credentials to the script.

```
borg init --encryption=keyfile-blake2 --make-parent-dirs
ssh://username@remote.host.address:$port>/~/backups/borg/{hostname}
```

Add your excluded folders/files --exclude '/home/*/.cache/*' \ and under :: '{hostname}-
{now}' \ add folders/files you want to backup.

```
#!/bin/sh

# Setting this, so the repo does not need to be given on the commandline:
export BORG_REPO=ssh://username@example.com:2022/~/backups/borg/{hostname}

# See the section "Passphrase notes" for more infos.
export BORG_PASSPHRASE='XYZl0ngandsecurepa_55_phrasea&&123'

# some helpers and error handling:
info() { printf "\n%s %s\n\n" "$( date )" "$*" >&2; }
trap 'echo $( date ) Backup interrupted >&2; exit 2' INT TERM

info "Starting backup"

# Backup the most important directories into an archive named after
# the machine this script is currently running on:

borg create \
  --verbose \
  --filter AMEhsx \
  --list \
  --stats \
  --progress \
  --verbose \
  --show-version \
  --show-rc \
```

```
--compression zstd,11      \
--exclude-caches           \
--exclude '/home/*/.cache/*' \
--exclude '/var/tmp/*'     \
                             \
:: '{hostname}-{now}'      \
/etc                       \
/home                      \
/root                      \
/var                       \

backup_exit=$?

info "Pruning repository"

# Use the `prune` subcommand to maintain 7 daily, 4 weekly and 6 monthly
# archives of THIS machine. The '{hostname}-' prefix is very important to
# limit prune's operation to this machine's archives and not apply to
# other machines' archives also:

borg prune                 \
  --list                   \
  --prefix '{hostname}-'   \
  --show-rc                \
  --keep-daily 7           \
  --keep-weekly 4          \
  --keep-monthly 6         \
  --keep-yearly 1          \

prune_exit=$?

# use highest exit code as global exit code
global_exit=$(( backup_exit > prune_exit ? backup_exit : prune_exit ))

if [ ${global_exit} -eq 0 ]; then
  info "Backup and Prune finished successfully"
elif [ ${global_exit} -eq 1 ]; then
  info "Backup and/or Prune finished with warnings"
else
  info "Backup and/or Prune finished with errors"
fi

exit ${global_exit}
```

Crontab - rsync and borg

Follow our [crontab](#) tutorial first and add the following for your root user:

```
@daily /root/rsnapbackup.sh
```

```
@daily /root/bsnapbackup.sh
```

- @yearly
- @annually
- @monthly
- @weekly
- @daily
- @hourly
- @reboot

Syncting

Follow our [Syncting](#) tutorial for both devices (backup server and your data device).

Add device

Add the backup server to your client under Remote Devices.

Add folder

- Add a folder under Folder and select the folder you want to backup under General.
- Select your backup server under Sharing.
- Under File Versioning you could add Staggered File Versioning which gives you more certainty, but have a look at <https://docs.syncting.net/users/versioning.html> and choose what suits you best.
- Also check Advanced and Folder type and again choose what suits you best. For example, KeePass can be used with Send & Receive if you want sync your database on both devices.

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