

Server: Backup

There are many ways to backup your server. As NC-AIO already has Borg, you may use Borg for a complete Backup of your system. The docs can be found here: <https://borgbackup.readthedocs.io/en/stable/>

You need to perform everything as root. So login as root somehow (maybe use `sudo -i`)

Create Borg Repository

First, create the Directories:

- /backup (should already be there by NC-AIO)
- /backup/borg/root

Please refer to the Documentations of Borg found at <https://borgbackup.readthedocs.io/en/stable/usage/init.html> to create a Repository. You can also use some graphical tool like vorta for this - i did, while it will help to setup borg.

For me, i chose the location /backup/borg/root as repository. I included the key, so that i only needed a new passphrase to access the repository:

```
borg init --encryption repokey-blake2 /backup/borg/root
```

Setup a Script

Create the Directory /root/backup and add a new file named `borg_backup_root.sh` there with the contents:

```
#!/bin/bash
# Make Borg Backup of Root and all what is needed for Base-System
cd /root/backup

#Vars
export BORG_PASSPHRASE='yoursecretpassphrase'
ARCHIVNAME="backup-$(date '+%Y%m%d_%H%M%S')"
```

```
REPONAME="/backup/borg/root"

echo "Starting Backup of Root with Borg"
#This will create a btrfs readonly snapshot of root in the directory /root_snapshot
/sbin/btrfs subvolume snapshot -r / /root_snapshot
echo "Creating Archive ${ARCHIVNAME} in ${REPONAME}..."
/usr/bin/borg create --warning --show-version --list --filter=AM --show-rc -s -C lz4 --exclude-from /root/backup/excludelist
${REPONAME}::${ARCHIVNAME} /root_snapshot /boot/grub2 /i386-pc /boot/grub2/x86_64-efi /opt /root /srv /tmp /usr/local /var
/boot/efi /home
RETURNCODE=$?
/sbin/btrfs subvolume delete /root_snapshot
if [ ${RETURNCODE} -ne 0 ]; then
    echo "Some ERROR with Borg. Stopping execution."
    exit ${RETURNCODE}
fi

echo "Pruning Archives"
/usr/bin/borg prune --show-rc --warning --progress --keep-hourly 2 --keep-daily 7 --keep-weekly 4 --keep-monthly 6 --keep-
yearly 2 -a pcserver2023-* --keep-within 10H ${REPONAME}

echo "Checking this Archive (${ARCHIVNAME})"
/usr/bin/borg check --show-rc ${REPONAME}::${ARCHIVNAME}
echo "Done Backup root"
```

Second, add n new File named excludelist and put in e.g:

```
#This list was created by Vorta as root (manually copying preview of exlcudes)
#
# custom added rules
/home/docker/nextcloud_data/
/home/docker/.local/share/docker/
/var/lib/mysql/

# flatpak-builder
fm:*.flatpak-builder

# recycle-bin-trash
```

```
fm:*/.local/share/Trash/*
fm:*/.Trash/*
fm:*/.Trash-*//*

# chromium-cache
fm:*/.config/chromium*/Application Cache
fm:*/.config/chromium*/History Index *
fm:*/.config/chromium*/Local Storage
fm:*/.config/chromium*/Service Worker/CacheStorage
fm:*/.config/chromium*/Session Storage
fm:*/.config/chromium/GrShaderCache
fm:*/.config/chromium/GraphiteDawnCache
fm:*/.config/chromium/ShaderCache
fm:*/.var/app/org.chromium.Chromium/cache
fm:*/.var/app/org.chromium.Chromium/config/chromium*/Application Cache
fm:*/.var/app/org.chromium.Chromium/config/chromium*/History Index *
fm:*/.var/app/org.chromium.Chromium/config/chromium*/Local Storage
fm:*/.var/app/org.chromium.Chromium/config/chromium*/Service Worker/CacheStorage
fm:*/.var/app/org.chromium.Chromium/config/chromium*/Session Storage
fm:*/.var/app/org.chromium.Chromium/config/chromium/GrShaderCache
fm:*/.var/app/org.chromium.Chromium/config/chromium/GraphiteDawnCache
fm:*/.var/app/org.chromium.Chromium/config/chromium/ShaderCache
fm:*/snap/chromium*/.config/chromium*/Service Worker/CacheStorage
fm:*/snap/chromium*/.local/share
fm:*/snap/chromium/common/.cache

# google-chrome-cache
fm:*/.cache/google-chrome
fm:*/.cache/google-chrome-unstable
fm:*/.config/google-chrome-unstable*/Application Cache
fm:*/.config/google-chrome-unstable*/History Index *
fm:*/.config/google-chrome-unstable*/Local Storage
fm:*/.config/google-chrome-unstable*/Service Worker/CacheStorage
fm:*/.config/google-chrome-unstable*/Session Storage
fm:*/.config/google-chrome-unstable/GrShaderCache
fm:*/.config/google-chrome-unstable/GraphiteDawnCache
fm:*/.config/google-chrome-unstable/ShaderCache
fm:*/.config/google-chrome*/Application Cache
```

```
fm:*/.config/google-chrome/*/History Index *
fm:*/.config/google-chrome/*/Local Storage
fm:*/.config/google-chrome/*/Service Worker/CacheStorage
fm:*/.config/google-chrome/*/Session Storage
fm:*/.config/google-chrome/GrShaderCache
fm:*/.config/google-chrome/GraphiteDawnCache
fm:*/.config/google-chrome/ShaderCache
fm:*/.var/app/com.google.Chrome/cache
fm:*/.var/app/com.google.Chrome/config/google-chrome/*/Feature Engagement Tracker
fm:*/.var/app/com.google.Chrome/config/google-chrome/*/Local Storage
fm:*/.var/app/com.google.Chrome/config/google-chrome/*/Service Worker/CacheStorage
fm:*/.var/app/com.google.Chrome/config/google-chrome/*/Session Storage
fm:*/.var/app/com.google.Chrome/config/google-chrome/GrShaderCache
fm:*/.var/app/com.google.Chrome/config/google-chrome/GraphiteDawnCache
fm:*/.var/app/com.google.Chrome/config/google-chrome/Safe Browsing
fm:*/.var/app/com.google.Chrome/config/google-chrome/ShaderCache
fm:*/.var/app/com.google.ChromeDev/cache
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/*/Feature Engagement Tracker
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/*/Local Storage
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/*/Service Worker/CacheStorage
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/*/Session Storage
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/GrShaderCache
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/GraphiteDawnCache
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/Safe Browsing
fm:*/.var/app/com.google.ChromeDev/config/google-chrome-unstable/ShaderCache

# firefox-cache
fm:*/.cache/mozilla/firefox
fm:*/.mozilla/firefox/*/.parentlock
fm:*/.mozilla/firefox/*/Cache
fm:*/.mozilla/firefox/*/XPC.mfasl
fm:*/.mozilla/firefox/*/XUL.mfasl
fm:*/.mozilla/firefox/*/blocklist.xml
fm:*/.mozilla/firefox/*/compreg.dat
fm:*/.mozilla/firefox/*/extensions.cache
fm:*/.mozilla/firefox/*/extensions.ini
fm:*/.mozilla/firefox/*/extensions.rdf
fm:*/.mozilla/firefox/*/extensions.sqlite
```

```
fm:*/.mozilla/firefox/*/extensions.sqlite-journal
fm:*/.mozilla/firefox/*/minidumps
fm:*/.mozilla/firefox/*/pluginreg.dat
fm:*/.mozilla/firefox/*/urlclassifier3.sqlite
fm:*/.mozilla/firefox/*/xpti.dat
fm:*/snap/firefox/common/.cache
fm:*/snap/firefox/common/.mozilla/firefox/*/.parentlock
fm:*/snap/firefox/common/.mozilla/firefox/*/XPC.mfasl
fm:*/snap/firefox/common/.mozilla/firefox/*/XUL.mfasl
fm:*/snap/firefox/common/.mozilla/firefox/*/blocklist.xml
fm:*/snap/firefox/common/.mozilla/firefox/*/compreg.dat
fm:*/snap/firefox/common/.mozilla/firefox/*/extensions.cache
fm:*/snap/firefox/common/.mozilla/firefox/*/extensions.ini
fm:*/snap/firefox/common/.mozilla/firefox/*/extensions.rdf
fm:*/snap/firefox/common/.mozilla/firefox/*/extensions.sqlite
fm:*/snap/firefox/common/.mozilla/firefox/*/extensions.sqlite-journal
fm:*/snap/firefox/common/.mozilla/firefox/*/minidumps
fm:*/snap/firefox/common/.mozilla/firefox/*/pluginreg.dat
fm:*/snap/firefox/common/.mozilla/firefox/*/urlclassifier3.sqlite
fm:*/snap/firefox/common/.mozilla/firefox/*/xpti.dat
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/.parentlock
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/XPC.mfasl
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/XUL.mfasl
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/blocklist.xml
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/compreg.dat
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/extensions.cache
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/extensions.ini
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/extensions.rdf
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/extensions.sqlite
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/extensions.sqlite-journal
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/minidumps
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/pluginreg.dat
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/urlclassifier3.sqlite
fm:*/.var/app/org.mozilla.firefox/.mozilla/firefox/*/xpti.dat
fm:*/.var/app/org.mozilla.firefox/cache
```

Cron- Job

To setup a cron, add a new File named `borg_backup_root_cron.sh` with content:

```
#!/bin/bash
# Execute Borg Backup with cron
cd /root/backup
./borg_backup_root.sh> $0.log 2>&1
cat $0.log
```

And insert this script to crontab with `crontab -e`:

```
0 1 * * * /root/backup/borg_backup_root_cron.sh
```

Thats it, your Backup will perform on a daily base. You could also do more backups if you like.

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