

# Synology Storage Backup Skript

Skript, welches vom mir erstellt wurde, um automatisiert wichtige Daten von meinem Synology NAS, auf eine externe Harddisk welche an meinem Backup-Server angeschlossen ist zu sichern! (Die HDD wird nur aktiv für die Zeit der Sicherung!)

## Skript Sourcecode

Filename: **blackserv\_backup\_script.sh**

```
#!/bin/bash
#####
#####
***** Backup blackSERV Script by Michael Reber - v 1.3
*****#
#####
#####

#####
#####
## Variable Definition & System Vorbereitungen:
today=`date +%Y-%m-%d`
OLDBACKUP=`date -d "7 days ago" +%Y-%m-%d`

## System dependency Check:
if [ -n "$(command -v apt-get)" ]; then
    if [ $(dpkg-query -W -f='${Status}' nfs-common 2>/dev/null | grep -c "ok
installed") -eq 0 ]; then
        apt-get install nfs-common -y;
    fi
else
    if [ $(yum -q list installed nfs-utils &>/dev/null && echo "1" || echo
"0") -eq 0 ]; then
        yum install nfs-utils -y;
        systemctl start rpcbind && systemctl enable rpcbind;
    fi
fi
if [ ! -d "/mnt/backup-disk" ]; then
    mkdir /mnt/backup-disk
fi
if [ ! -d "/mnt/blackSERV" ]; then
    mkdir /mnt/blackSERV
fi
#####
#####
```

```
## Aktivieren des Stroms der Backup-Festplatte und bereitstellen des Mounts:
uhubctl -a on -p 3 && mount /dev/sda1 /mnt/backup-disk

# Überprüfen, ob die für das Backup benötigte Disk (sda1) noch mindestens
50GB freien Speicher hat.
if [ "$(df | grep -oP '/sda1.* \K\d+(?=\s+\d+%)')" -lt "50000000" ] #
50000000 = 50GB
then
    echo "ERROR: Disk has less than 50GB free space!"
    df -h > /tmp/dfInfo
    sendmail -f "mail.blackgate@gmail.com" \
        -u "ERROR: Disk on `hostname` has less than 50GB free space!"
\
    -t "michael.r467@gmail.com" \
    -s "smtp.gmail.com:587" \
    -o tls=yes \
    -xu "mail.blackgate@gmail.com" \
    -xp "PW" \
    -o message-file="/tmp/dfInfo"

    umount /mnt/backup-disk && uhubctl -a off -p 3
    exit 1
else
    # Überprüfen, ob die für das Backup benötigten Ordner vorhanden sind;
    anderfalls sollen sie erstellt werden:
    if [ ! -d "/mnt/backup-disk/daten_michael" ]; then
        mkdir /mnt/backup-disk/daten_michael
        echo "$today - Creating new backup-topdir: 'daten_michael'.." >>
/var/log/blackSERV-backup.log
    fi
    if [ ! -d "/mnt/backup-disk/server_backups" ]; then
        mkdir /mnt/backup-disk/server_backups
        echo "$today - Creating new backup-topdir: 'server_backups'.." >>
/var/log/blackSERV-backup.log
    fi
    if [ ! -d "/mnt/backup-disk/web" ]; then
        mkdir /mnt/backup-disk/web
        echo "$today - Creating new backup-topdir: 'web'.." >>
/var/log/blackSERV-backup.log
    fi
    if [ ! -d "/mnt/backup-disk/znextCloud" ]; then
        mkdir /mnt/backup-disk/znextCloud
        echo "$today - Creating new backup-topdir: 'znextCloud'.." >>
/var/log/blackSERV-backup.log
    fi
#####
#####
## Start des täglichen blackSERV-Backups:
```

```
#Create Backup of daten_michael:
#*****
mount -t nfs -o ro,hard 192.168.1.21:/volume1/daten_michael
/mnt/blackSERV 2>> /var/log/blackSERV-backup.log
rsync -av --exclude '*@SynoResource' --exclude '@eaDir' \
--exclude '*.vsmeta' --exclude '.DS_Store' --exclude 'Thumbs.db' --
exclude 'Video2Brain_' \
/mnt/blackSERV/3_Dokumente /mnt/blackSERV/4_Medien
/mnt/blackSERV/5_Development /mnt/blackSERV/6_KnowHow \
/mnt/backup-disk/daten_michael/
umount /mnt/blackSERV

#Create Backup of server_backups:
#*****
mount -t nfs -o ro,hard 192.168.1.21:/volume1/server-backups
/mnt/blackSERV 2>> /var/log/blackSERV-backup.log
## Dynamic backup for all Server Systems in path:
for serverBackupPath in `find /mnt/blackSERV/* -prune -type d`
do
    serverBackupFolder=$(echo $serverBackupPath | cut -d '/' -f4)
    rsync -av --exclude '*@SynoResource' --exclude '@eaDir' \
--exclude '*.vsmeta' --exclude '.DS_Store' --exclude 'Thumbs.db' \
$serverBackupPath/$today/ \
/mnt/backup-disk/server_backups/$serverBackupFolder/
done
umount /mnt/blackSERV

#Create Backup of web:
#*****
mount -t nfs -o ro,hard 192.168.1.21:/volume1/web /mnt/blackSERV 2>>
/var/log/blackSERV-backup.log
rsync -av --exclude '*@SynoResource' --exclude '@eaDir' \
--exclude '*.vsmeta' --exclude '.DS_Store' --exclude 'Thumbs.db' \
/mnt/blackSERV/ \
/mnt/backup-disk/web/
umount /mnt/blackSERV

#Create Backup of znextCloud:
#*****
mount -t nfs -o ro,hard 192.168.1.21:/volume1/znextCloud /mnt/blackSERV
2>> /var/log/blackSERV-backup.log
rsync -av --exclude '*@SynoResource' --exclude '@eaDir' \
--exclude '*.vsmeta' --exclude '.DS_Store' --exclude 'Thumbs.db' \
/mnt/blackSERV/ \
/mnt/backup-disk/znextCloud/
umount /mnt/blackSERV

echo "$today -> Tägliche Sicherung erfolgreich abgeschlossen!" >>
/var/log/blackSERV-backup.log
fi
```

Last  
update:  
2018/09/25 11:21 skripting-section:bash:synology-backup-skript <https://michu-it.com/wiki/skripting-section/bash/synology-backup-skript?rev=1537866886>

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```
umount /mnt/backup-disk && uhubctl -a off -p 3
```

Last update: **2018/09/25 11:21**