

# NFS

NFS

NAS

## Server

- sudo apt-get update
- sudo apt install nfs-common nfs-kernel-server portmap
- sudo mkdir -p /data/tomcat
- sudo chown nobody:nogroup /data/tomcat
- sudo chmod 777 /data/tomcat
- sudo vi /etc/exports

```
/data/tomcat *(rw,async,no_root_squash,no_subtree_check,no_root_squash)
```

- sudo exportfs -a
  - sudo systemctl restart nfs-kernel-server
- 

## Client

- sudo ufw allow from [clientIP or clientSubnetIP] to any port nfs

```
sudo ufw allow from 192.168.56.1/24 to any port nfs
```

- sudo ufw status
- sudo apt-get update
- sudo apt-get install nfs-common
- sudo mkdir -p /data/tomcat
- sudo mount 192.168.56.1:[nfs folder] [client folder]

```
sudo mount 192.168.56.6:/data/tomcat /data/tomcat
```

- fstab

```
192.168.56.6:/data/tomcat /data/tomcat nfs rsize=8192,wsiz=8192,timeo=14,intr
```

- Backup

- Host와 Guest의 공유 볼륨을 만든다. - 인터넷을 찾아서 동일하게 처리 <https://helpdeskgeek.com/virtualization/virtualbox-share-folder-host-guest/>
- All you have to do is run your virtual machine and then click Devices and then Insert Guest Additions CD Image...
- root로 실행하기
  -

```
vi /etc/cron.allow
crontab -e
에디터를 변경하고 싶으면 select-editor
```

- backup shell 만들기

```
export FinalBackupCnt=10
export FinalBackupDueDay=100
export BackupTarget=$1
export NOW=`date +%Y%m%d%H%M`
export FinalBackupDay=`date +%Y%m%d%H%M --date="$FinalBackupDueDay days ago"`
export BackupFolder=/host

# Backup Delete
DeleteBackupVm()
{
    echo "## Old $BackupTarget.tar backup file delete ! ##"
    TotalBackupCnt=`find $BackupFolder -name "$BackupTarget.tar" | wc -l`
    echo ' >> Total backup files count = ' $TotalBackupCnt
    echo ' >> Final backup files remain count = ' $FinalBackupCnt
    TargetDeleteBackupCnt=`expr $TotalBackupCnt - $FinalBackupCnt`
    echo ' > Total backup files count - Final backup files count = ' $TargetDeleteBackupCnt
    BackupAllFiles=$(find $BackupFolder -name "$BackupTarget.tar" | awk -F "/"

cnt=1
echo ' > ' $FinalBackupDueDay ' day before delete target snapshot list'
for i in $BackupAllFiles
do
    backupFileDate=`echo $i | awk -F "-" '{print $1}'`
    echo $cnt " : " $i
    if [ $backupFileDate -le $FinalBackupDay ]
    then
        echo "      DELETE!"
        if [ $TargetDeleteBackupCnt -ge $cnt ]
        then
            echo "      DELETED! " $BackupFolder/$i
            rm $BackupFolder/$i
        else
            echo "      DELETE SKIP!"
        fi
    fi
    cnt=$(expr $cnt + 1)
done
}

# Make Backup file
MakeBackUp()
```

```
{
  echo "Backup date is " $NOW
  tar cfP $BackupFolder/$NOW-$BackupTarget.tar /data/tomcat/$BackupTarget
}

echo "\n"
echo "===== SNAPSHOT START ! ====="
echo ">> Backup Target : $BackupTarget"
echo ">> DATE : $NOW"
echo ">> Final Backup Due Day : $FinalBackupDueDay"
echo ">> Final Backup Day : $FinalBackupDay"

DeleteBackupVm
MakeBackUp

echo "===== $1 BACKUP END ! ====="
echo "\n"
```

#### ◦ Crontab -e 등록

```
0 4 2,9,16,23 * * /host/backup.sh meta >> /host/meta-backup.log
0 4 2,9,16,23 * * /host/backup.sh mysql >> /host/mysql-backup.log
```

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