

NFS Server - Red Hat 7 / 8

A Network File System (NFS) allows remote hosts to mount file systems over a network and interact with those file systems as though they are mounted locally. This enables system administrators to consolidate resources onto centralized servers on the network.

Server Konfiguration

Installation eines NFS Servers, um eigene Dateien via Netzwerkshare zu verwalten.

1. Benötigte **Packete Installieren**

```
# yum -y install nfs-utils
```

2. **Festlegen** des korrekten Domain-namens:

```
# vim /etc/idmapd.conf
```

```
[General]
#Verbosity = 0
# The following should be set to the local NFSv4 domain name
# The default is the host's DNS domain name.
Domain = blackgate.org
..
```

3. **Definition** eines neuen NFS Shares:

```
# vim /etc/exports
```

```
/volumel/server-backups 192.168.1.0/24(rw,sync)
```

In this example all Clients in 192.168.1.0/24 can mount /volumel/server-backups read/write and all transfers to disk are committed to the disk before the write request by the client is completed.

4. Setzen der korrekten **Firewall Rules**:

```
# firewall-cmd --add-service=nfs --permanent
# firewall-cmd --add-service=rpcbind --permanent
# firewall-cmd --add-service=mountd --permanent

# firewall-cmd --reload
```

5. Zum Schluss wird der **Services gestartet und enabled**:

```
# systemctl enable rpcbind nfs-server --now
```

Client Konfiguration

1. Benötigte **Packete** **Installieren**

```
# yum -y install nfs-utils
```

2. Benötigte **Services** **starten und enablen:**

```
# systemctl enable rpcbind --now
```

3. **Mounten des Shares:** **server-backups** auf das Verzeichnis: **/mnt/server-backup**

```
# mount -t nfs -o rw,hard 192.168.1.21:/volume1/server-backups  
/mnt/server-backup
```

Für einen Eintrag in die **/etc/fstab** lautet die Syntax wie folgt:

```
10.0.0.21:/volume1/media /mnt/blackserv nfs rw,hard,intr 0 0
```

Last update: **2020/01/31 22:15**