

NFS

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- Astra Linux Special Edition .10015-01 .10015-10 (1.7)
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10152-02 (4.7)
- Astra Linux Special Edition .10015-01 (1.6)
- Astra Linux Special Edition .10015-16 .1 .2
- Astra Linux Special Edition .10265-01 (8.1)
- Astra Linux Common Edition 2.12



- nfs-kernel-server, (Astra Linux)
- (Astra Linux)



- NFS IP- 192.168.1.10;
- NFS IP- 192.168.1.20.

nfs-kernel-server () nfs-common () Astra Linux Special Edition, Astra Linux Common Edition. NFS Astra Linux.

```
nfs-kernel-server . nfs nfs-common (. synaptic), .
```


$$\vdots$$

```
sudo apt update
sudo apt install nfs-kernel-server
```

⋮

```
sudo apt update
sudo apt install nfs-common
```

```
, " NFS ", , . Autofs .
```

NFS, :

- IP-;
- , IP-;
- (), .: /srv/nfsshare :

```
sudo mkdir /srv/nfsshare
sudo chmod 777 /srv/nfsshare
```

Astra Linux, x.7, nfs-kernel-server UNIT- /etc/systemd/system/multi-user.target.wants/nfs-server.service unit:

```
[Unit]
Requires=rpcbind.service
After=rpcbind.service
```

nfs-server rpcbind. :

```
sudo systemctl daemon-reload
sudo systemctl restart nfs-kernel-server
```

Astra Linux Special Edition x.7 .

nfs /etc/exports. :

- /etc/fstab - , nfs, .
- /etc/hosts.allow, /etc/hosts.deny - , , , IP-

() /srv/nfsshare /etc/exports .:

- :

 /srv/nfsshare <IP->(rw,nohide,all_squash,anonuid=1000,anongid=1000,no_subtree_check)

- :

 /srv/nfsshare </>(rw,nohide,all_squash,anonuid=1000,anongid=1000,no_subtree_check)

- :

 /srv/nfsshare <*>(rw,nohide,all_squash,anonuid=1000,anongid=1000,no_subtree_check)

:

- :
 - <IP-> — IP- - ();
 - </> — ;
 - <*> — ".*", . . "" (. man exports);
- (rw,no_root_squash,sync) — :

- `rw` — (`ro` —);
- `no_root_squash` — NFS root nfsnobody. , , root, nfsnobody, setuid. `no_root_squash` , , .
- `nohide` — NFS (, `mount -bind`), ;
- `sync` — (`-async`). `sync` , , .
- `async` , , , .. .
- `noaccess` — , , , .
- `all_squash` — , ;
- `subtree_check` (`no_subtree_check`)- , , . NFS , , , . (subtree checks) , , .
- `no_subtree_check`. `subtree_check` , , .
- `anonuid=1000` — «» ;
- `anongid=1000` — «» .

• , , ,

```
sudo exportfs -ra
```

(. `man exportfs`)

- NFS 4 (NFSv4).



NFSv2 NFSv3 , .

- NFS , `/etc/exports`.
, `/etc/exports` `/tmp/nfs/` / `master.astralinux.ru`:



`/tmp/nfs/ master.astralinux.ru(rw)`

`/etc/exports`, , `master.astralinux.ru` , ,
:



`/tmp/nfs/ master.astralinux.ru (rw)`

,



NFS `showmount`:

```
sudo showmount -e <hostname>
```

- `no_root_squash` , , . , NFS root nfsnobody. , , root, nfsnobody, setuid.

`nfs-common`, - . , :

```
sudo showmount -e 192.168.1.10
```

```
Export list for 192.168.1.10:
/srv/nfsshare 192.168.1.20
```

:

1. `mkdir /mnt/share:`

```
sudo mkdir /mnt/share
```

2. `mount -t nfs 192.168.1.10:/srv/nfsshare /mnt/share :`

```
sudo mount 192.168.1.10:/srv/nfsshare /mnt/share
```

3. `df -h :`

```
mount | grep nfs
```

```
0 0. , : :
```

```
df
```

NFS `vim /etc/fstab`

```
<IP-_->:/srv/nfsshare/ /mnt/share nfs rw, sync, hard, intr 0 0
```

NFS `autofs`.

NFS Samba `vim /etc/samba/smb.conf` `rpcbind` Astra Linux Special Edition. `rpcbind:`

```
sudo systemctl mask --now rpcbind
```

Astra Linux `vim /etc/samba/smb.conf` Samba SMB/CIFS.