

NFS Share with root for anonuid / anongid



serverfault.com/questions/539267/nfs-share-with-root-for-anonuid-anongid

I've exported a share from my server and set anonuid and anongid to be 0 (root). However, when I mount the share on the client, it doesn't appear my settings are working as I'm getting permission denied to folders within the share owned by root.

Server **CentOS 5.7** / Client **CentOS 6.4** using **NFS version 3.2.29.**

Here is my /etc/exports on SERVER:

```
/STORAGE 10.0.5.10(rw, sync, no_subtree_check, no_root_squash, anonuid=0, anongid=0)
```

Basically, when the client **(10.0.5.10)** connects to the server, I need it to behave as if it were root on the server. Thank you in advance for the help!!

asked Sep 16 '13 at 14:09



Jason

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2 Answers

up vote 6 down vote

If you want any user on 10.0.5.10 to appear as root you want to do this:

```
/STORAGE 10.0.5.10(rw, sync, no_subtree_check, all_squash, anonuid=0, anongid=0)
```

all_squash tells NFS that for any user connecting from 10.0.5.10, ignore their actual UID/GID and instead treat them as if UID=anonuid and GID=anongid. Since you set **anonuid=0, anongid=0** that gives all users on **10.0.5.10** root access privileges on **/STORAGE**, effectively bypassing all security on **/STORAGE** and leaving it wide open to abuse from anyone appearing to come from the 10.0.5.10 IP address.

FWIW, this is a terrible idea from a security point of view.

If you can use NFSv4 on the server, you can enable UID/GID mapping and add a static map to **/etc/idmapd.conf** on the server, telling it that a specific user on 10.0.5.10 should be given root access on the NFSv4 server. **man idmapd.conf** for details on setting up the config file. Once the config file is set up on the NFSv4 server, update your export:

```
/STORAGE 10.0.5.10(rw, sync, no_subtree_check, no_root_squash)
```

Then you just want to enable mapping, clear the idmap cache, and restart the map service:

```
echo N > /sys/module/nfs/parameters/nfs4_disable_idmapping
nfsidmap -c
service rpcidmapd restart
```

If you do that, you're only giving one user root access, not all users.

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First of all, you should upgrade to NFS4, as things behave slightly different on each version.

Instead of `no_root_squash` you will need to use `root_squash` or `all_squash` - this is the only relevant parameter regarding this question.

`all_squash` makes any client connected to that share to use the ID given in the `anonuid` / `anongid` parameters.

answered Jul 25 '14 at 23:03



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