Infrastructure Systems

- How To: Change the IP Address of a Proxmox Clustered Node
- How To: Mount SMB Shares on a Pi
- How To: Change the Location of a ZVOL on TrueNas Scale

How To: Change the IP Address of a Proxmox Clustered Node

If changing entire subnet:

(e.g. 192.168.1.0/24 to 192.168.2.0/24)

```
# Stop the cluster services
systemctl stop pve-cluster
systemctl stop corosync

# Mount the filesystem locally
pmxcfs -l

# Edit the network interfaces file to have the new IP information
# Be sure to replace both the address and gateway
vi /etc/network/interfaces

# Replace any host entries with the new IP addresses
vi /etc/hosts

# Change the DNS server as necessary
vi /etc/resolv.conf

# Edit the corosync file and replace the old IPs with the new IPs for all hosts
# :%s/192\.168\.1\./192.168.2./g   <- vi command to replace all instances
# BE SURE TO INCREMENT THE config_version: x LINE BY ONE TO ENSURE THE CONFIG IS NOT
OVERWRITTEN
vi /etc/pve/corosync.conf

# Edit the known hosts file to have the correct IPs
# :%s/192\.168\.1\./192.168.2./g   <- vi command to replace all instances
/etc/pve/priv/known_hosts

# If using ceph, edit the ceph configuration file to reflect the new network
# (thanks u/FortunatelyLethal)
```

```
# :%s/192\.168\.1\./192.168.2./g   <- vi command to replace all instances
vi /etc/ceph/ceph.conf

# If you want to be granular... fix the IP in /etc/issue
vi /etc/issue

# Verify there aren't any stragglers with the old IP hanging around
cd /etc
grep -R '192\.168\.1\.' *
cd /var
grep -R '192\.168\.1\.' *

# Reboot the system to cleanly restart all the networking and services
reboot

# Referenced pages:
# - https://forum.proxmox.com/threads/change-cluster-nodes-ip-addresses.33406/
# - https://pve.proxmox.com/wiki/Cluster_Manager#_remove_a_cluster_node
```

If changing only the IP:

(e.g. 192.168.1.10/24 to 192.168.1.20/24)

```
# Stop the cluster services
systemctl stop pve-cluster
systemctl stop corosync

# Mount the filesystem locally
pmxcfs -l

# Edit the network interfaces file to have the new IP information
vi /etc/network/interfaces

# Replace any host entries with the new IP addresses
vi /etc/hosts

# Edit the corosync file and replace the old IPs with the new IPs for any changed hosts
# BE SURE TO INCREMENT THE config_version: x LINE BY ONE TO ENSURE THE CONFIG IS NOT
OVERWRITTEN
vi /etc/pve/corosync.conf
```

```
# Edit the known hosts file to have the new IP(s)
/etc/pve/priv/known_hosts

# If using ceph, edit the ceph configuration file to reflect the new network
# (thanks u/FortunatelyLethal)
# :%s/192\.168\.1\./192.168.2./g   <- vi command to replace all instances
vi /etc/ceph/ceph.conf

# If you want to be granular... fix the IP in /etc/issue
vi /etc/issue

# Verify there aren't any stragglers with the old IP hanging around
cd /etc
grep -R '192\.168\.1\.' *
cd /var
grep -R '192\.168\.1\.' *

# Reboot the system to cleanly restart all the networking and services
reboot

# Referenced pages:
# - https://forum.proxmox.com/threads/change-cluster-nodes-ip-addresses.33406/
# - https://pve.proxmox.com/wiki/Cluster_Manager#_remove_a_cluster_node
```

How To: Mount SMB Shares on a Pi

https://linuxize.com/post/how-to-mount-cifs-windows-share-on-linux/

tl;dr (assuming user/share is set up on freenas)

1. Install cifs-utils and create your mount directory

2. Create a credentials file */etc/win-credentials-app*

3. Populate with *username*= and *password*= on two lines in plaintext (scary, I know)

4. Chown root: and chmod 600 to have a thin veil of security

5. One-off mount:
sudo mount -t cifs -o credentials=/etc/win-credentials-app,dirmode=0755,uid=1000,gid=1000 //freenas.lan/app /app
Replace win-credentials-app with your credentials file and 1000/1000 with your user's user/group IDs.

6. Auto-mount: (add to /etc/fstab)
//freenas.lan/app /app cifs credentials=/etc/win-credentials-app,file_mode=0755,uid=1000,gid=1000 0 0

7. Will mount automatically on boot. Use *sudo mount /app* or *sudo umount /app* to manually mount/unmount with an fstab entry.

How To: Change the Location of a ZVOL on TrueNas Scale

https://www.truenas.com/community/threads/moving-a-zvol.76574/

1. Log in to the TrueNAS server via SSH and elevate to the root user (if you are not already).
2. Run the **zfs list** command and look for the full path of the volume you would like to move.
3. Run the command **zfs snapshot -r path-to/your-zvol@relocate** where **@relocate** is the name of the snapshot we are creating.
4. Run the command **zfs send path-to/your-zvol@relocate | zfs receive -v new-path/to-zvol**
5. Wait for the command to complete.
6. Delete the original in the TrueNAS web UI