

# Removing & Re-Adding nodes from a Proxmox Cluster

[https://www.reddit.com/r/Proxmox/comments/1clf51c/removing\\_readding\\_nodes\\_from\\_a\\_proxmox\\_cluster/](https://www.reddit.com/r/Proxmox/comments/1clf51c/removing_readding_nodes_from_a_proxmox_cluster/)

1. Migrate all VM's & CTs to other nodes
2. Delete Host to be removed from any existing Replicating or HA group.  
→ Datacenter → HA → Groups, mark existing group and edit out the host to be removed.
3. On the proxmox host to be removed, do: 'nano /etc/pve/corosync.conf'

This is mostly left off in the guides completely, except for guides to *completely* remove the Cluster but I believe this is important for any cluster

1. Change the Quorum votes for the nodes being removed so that there can still be Quorum without it there
2. I personally have each node with 3 votes normally. This makes it easier to lower or raise the votes of any node when needed instead of needing to change everything to demote a node.
3. For this, since I plan to remove 2 nodes, even though just one at a time, & update each to 8.2.2, I have given my *trusted* node, that will not be removed, & has all VMs & CTs, Given it 5 votes & given each node to be removed 2.
4. This makes it easiest since **each node to be removed has an even number of votes**, so ***the total number will not be even when a single one is removed***.  
By doing this the total votes will always be odd & not cause a problem.
5. Change `config_version: <+1>`. This is shown half the time but never really stated why. I'm fairly certain it's just making this a higher version so if there's any "What these are different, which is the right one?" the higher number is considered the newest. But it may make a difference for versioning too. I dunno.
6. Now check on remaining hosts that the changes are replicated down to respective local by: `cat /etc/pve/corosync.conf` file.

4. On the primary host (ID=1) do: `pvecm delnode <NODE NAME>`
  1. Just about every guide says to do this while the node is off, while 1 says to do it while the node is on & seems to work. Is there a reason to do this while the node is off? obviously it allows it to be done while the node is powered down or unresponsive, so I understand why it's good to be able to, but why is it required or preferred?
  5. To be able to use the same host name again, move the directory for the removed node, nodes
    1. create a folder where to want to store it. In this example `/root/tmp/` is the location.
    2. BASH: `mv /etc/pve/nodes/<NODE NAME> /root/tmp/<NODE NAME>`

3. This is only really necessary if you want to re-add the node or another node with the same name. If you don't it causes problems because the name is already in use.
6. Add node back as I would a new node