OS setting

We are going to install some helpful software, set up hostnames, and do some its simple (a). If you have followed my guides, you should not have any issues.

Set hostname to every node

If you remember, Here, I have set variable var_hostname in file /etc/ansible/hosts for each node, and this little nugget comes into play right now. On your main control node execute the following:

```
ansible cube -b -m shell -a "hostnamectl set-hostname {{ var_hostname }}"
```

Notable parameters are "cube", as mentioned before, it means it will execute commands on every single node. Next, -b is short for -become. What this does is sudo by default, as we should have an ubuntu user with sudo already set up. This is all we need to execute our commands as root.

Next in line, -m shell. we are telling Ansible to use the shell module. This in essence mean we are going to execute commands via shell, and the commands are in -a " <commands> "."

Last in line is {{ var_hostname }}. This gets replaced for each node with a variable we set up in /etc/ansible/hosts. Setting variables ahead can be an easy way to customize some no still letting Ansible do all the heavy lifting.

You can check manually if everything worked by logging in to any of the nodes and running:

```
hostnamectl status

### or from main control node run Ansible command and get result from all nodes | Isn't Ansible useful ?

### ansible code - 5- m shell - a "hostnamectl status | grep hostname" |
```

Remove "snap"

Don't get me wrong. Ubuntu's snap is not a bad idea, just useless for us. We are going to remove this feature and save some resources

```
# All nodes should be the same so running this "list" should be enough on the main control node ubuntu#Control01:-5 snap list with the same so running this "list" should be enough on the main control node ubuntu#Control01:-5 snap list with the same so running this "list" should be enough on the main control node ubuntu#Control node ubuntu#Contr
# Remove the snaps from all nodes ( order matters )
ansible cube -b -m shell -a "snap remove lxd && snap remove core18 && snap remove snapd"
```

```
ansible cube -b -m shell -a "apt purge snapd -y" ansible cube -b -m shell -a "apt autoremove -y"
```

Update the OS

Simple as stated, we are going to update OS packages to the latest ones:

```
ansible cube -m apt -a "upgrade=yes update_cache=yes" --become
```

Edit /boot/firmware/cmdline.txt

Required stuff for running containers.

```
ansible cube -b -m shell -a "sed -i '$ s/$/ cgroup_enable=cpuset cgroup_enable
                                                                                  ory=1 swapaccount=1/' /boot/firmware/cmdline.txt"
```

Iptables to see bridged traffic

Create file k3s.conf in your home directory

```
# add following to -/k3s.conf
net.bridge.bridge-nf-call-ipstables = 1
net.bridge.bridge-nf-call-ipstables = 1
### to provide for the provide f
```

Disable green led

Since we do not have an SD card in our Raspberry Pt, the green LED is going nuts. We can disable it (turn it off) with a simple command. If anybody has a way to show disk activelated to USB disk, please let me know!

```
# Disable the green led ( chaning led0 to led1 you can disable power led 🔞 ) also enabling it back on, just changed echo 0 to echo 1 sudo sh -c 'echo 0 > /sys/class/leds/hrightness'
 # Disable it for good after reboot adding paramters to /boot/firmware/config.txt
ansible cube -b -m shell -a "echo 'dtparam=act_led_trigger=none' >> /boot/firmware/config.txt && echo 'dtparam=act_led_activelo
```

My /boot/firmware/config.txt looks like this:

```
ubuntu@control01:~$ cat /boot/firmware/config.txt [p14] \max_{r} framebuffers=2
[all]
arm_64bit=1
kernel=vmlinuz
cmdline=cmdline.txt
initramfs initrd.img followkernel
 # Enable the audio output, I2C and SPI interfaces on the GPIO heddparameaudio=on dtparame=12c_arm=on dtparameji=on
 # Enable the serial pins
enable_uart=1
 # Comment out the following line if the edges of the desktop appear outside # the edges of your display disable_overscan=1 \,
# If you have a CM4, uncomment the following line to enable the USB2 outputs # on the IO board (assuming your CM4 is plugged into such a board) #doverlay=mod_c/_en_ouderbated diparamaet_led_trigger=mone diparamaet_led_en_etivelowoff
```

There are other options that green light can do, just none that I found for USB disk :-/

I don't like it, so it's gone.

```
# Edit /etc/sysctl.d/99-sysctl.conf and add to the bottom

net.ipv6.conf.all.disable.ipv6 = 1

net.ipv6.conf.default.disable.ipv6 = 1

net.ipv6.conf.lo.disable.ipv6 = 1

net.ipv6.conf.eth0.disable.ipv6 = 1
# If you do not have that file, create it and coppy contet of /etc/sysctl.conf into it first
```

Reboot Do a reboot of all nodes. We can speed it up a little again with Ansible, but I will target just workers. If I did a reboot on all, I might kill my main node faster than it can be executed on others... So, Ansible reboot for workers, and manually log in and reboot for controllor-3. I hope you liked this part and got something useful. Take a break, grab some beverage and maybe for me too. Last update. October 20, 2021 Comments What do you think? 3 Responses Upyvole Funny Love Suprised Angry Sad 2 Comments https://rpi4cluster.com Disqus' Privacy Policy Pavorte March Share Sort by Bast

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Name

DRUSE DRU + 10 months ago + edited
Shouldnif it be # add following to ~/k3s.conf instead of # add following to ~/k8s.conf?

And also ansible workers -b -m reboot instead of "cube"?

Thank you for this!

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