SOME NETWORKING TIPS\ STATIC ROUTING

1) ssh console error: port 22 permition denied: #sudo apt-get install openssh-server #sudo ufw allow 22 2) modify and restart interfaces: #sudo vim /etc/network/interfaces #sudo /etc/init.d/networking restart #sudo service network-manager restart 3) static routing: a.2 – net 10.1.0.0/16 b.1.1.1 net 10.2.0.0/16 | net 10.3.0.0/16 | d.2 current routing table: #route track frames from a.2 to c.2: #sudo apt-get install traceroute #traceroute 10.2.0.2 3a) temporary: A: #sudo route add -net 10.2.0.0 netmask 255.255.0.0 gw 10.1.0.1 dev ethA #sudo route add -net 10.3.0.0 netmask 255.255.0.0 gw 10.1.0.1 dev ethA #sudo route add -net 10.1.0.0 netmask 255.255.0.0 gw 10.2.0.1 dev ethC D: #sudo route add -net 10.1.0.0 netmask 255.255.0.0 gw 10.3.0.1 dev ethD 3b) pernamently – add lines: #sudo vim /etc/network/interfaces A: up route add -net 10.2.0.0/16 gw 10.1.0.1 dev ethA up route add -net 10.3.0.0/16 gw 10.1.0.1 dev ethA C: up route add -net 10.1.0.0/16 gw 10.2.0.1 dev ethC D: up route add -net 10.1.0.0/16 gw 10.3.0.1 dev ethD 4) enable ip forwarding: check: #cat /proc/sys/net/ipv4/ip_forward modify: #sudo vim /etc/sysctl.conf net.ipv4.ip_forward restart: #sudo sysctl -p /etc/sysctl.conf 5) static ip refresh without restart: #sudo ip addr flush NetInterfaceName && sudo systemctl restart networking.service && sudo service networking restart && sudo service network-manager restart 6) firewall blocking outgoing data: #sudo ufw default allow outgoing 7) netplan static configuration: #sudo vi /etc/netplan/XX-network-manager-all.yaml

network:

version: 2
renderer: networkd
ethernets:
enpXX:
dhcp4: no
addresses: [192.168.0.XX/24]
gateway4: 192.168.0.1
nameservers:
addresses: [8.8.4.4,8.8.8.8]

#sudo netplan --debug apply