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 aptitude install net-tools #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 c.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 #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 IPInterfaceName #sudo systemctl restart networking.service