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 |
                       c.2   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
    C:
    #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 IPInterfaceName
    #sudo systemctl restart networking.service

6) basic local network scanner:
    #sudo aptitude install nast.

7) basic network interfaces traffic tool:
    #sudo aptitude install bmon

8) WiFi (WPA authorization) terminal commands: „http://linux.icydog.net/wpa.php"