B1:

(a)

For enable zebra.conf and ripd.conf routing protocol:

sudo vim /etc/quagga/daemons

We can set “zebra = yes” and “ripd = yes” here. Press ESC, and use “:wq!” to save and quit VIM.

“zebra = yes” is mandatory to bring ther others up.

1. To create the config files, copy the sample config files as follows:

sudo cp /usr/share/doc/quagga/examples/zebra.conf.sample /etc/quagga/zebra.conf

sudo cp /usr/share/doc/quagga/examples/ripd.conf.sample /etc/quagga/ripd.conf

1. Then, give user and group ownership to respectively quagga and quaggavty to the files inside the /etc/quagga directory

sudo chown quagga.quaggavty /etc/quagga/\*.conf

sudo chmod 640 /etc/quagga/\*.conf

1. Restart the Quagga service

sudo /etc/init.d/quagga restart

1. You can check the Quagga daemons status using

Ps -ef | grep quagga

1. Now if we check “ls /etc/quagga”, we can see

“daemons”

“debian.conf”

“ripd.conf”

“zebra.conf”

Then we just copy these configuration files to the “H1, H2, R1, R2, R3, R4”.

sudo cp /etc/quagga/\* /home/mininet/myfolder/configs/H1

sudo cp /etc/quagga/\* /home/mininet/myfolder/configs/H2

sudo cp /etc/quagga/\* /home/mininet/myfolder/configs/R1

sudo cp /etc/quagga/\* /home/mininet/myfolder/configs/R2

sudo cp /etc/quagga/\* /home/mininet/myfolder/configs/R3

sudo cp /etc/quagga/\* /home/mininet/myfolder/configs/R4

B1 Finish