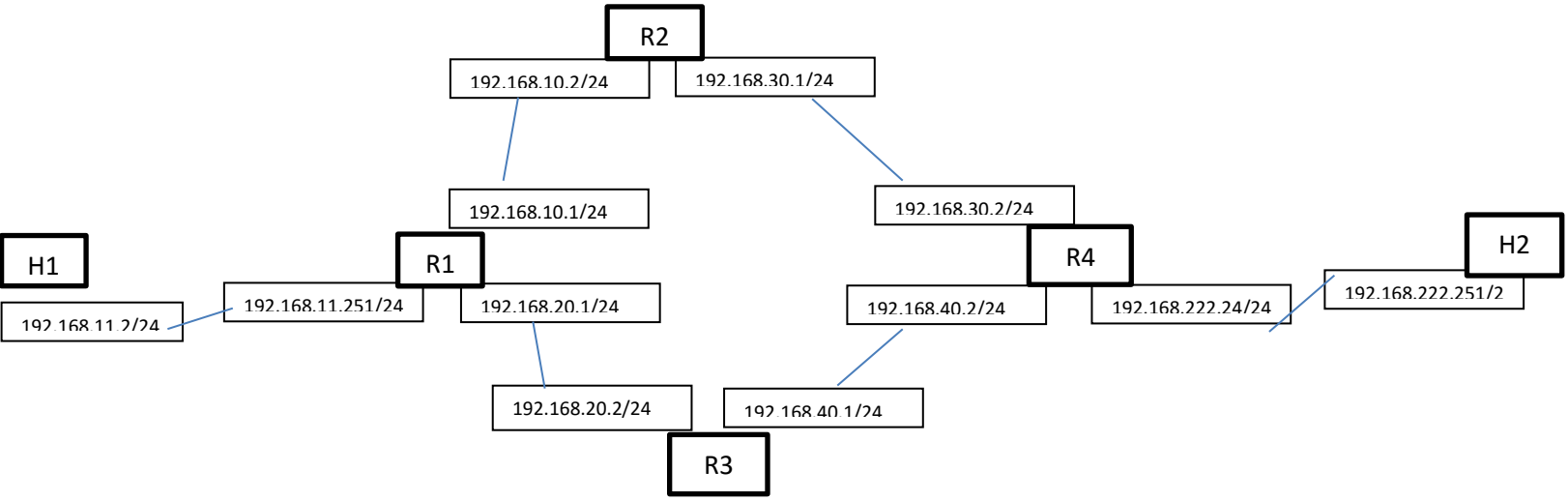
Topology figure




There are six subnets.

The subnet between H1 and R1 is in subnet 192.168.11.0/24

The subnet between R1 and R2 is in subnet 192.168.10.0/24

The subnet between R1 and R3 is in subnet 192.168.20.0/24

The subnet between R2 and R4 is in subnet 192.168.30.0/24

The subnet between R4 and R3 is in subnet 192.168.40.0/24

The subnet between R4 and H2 is in subnet 192.168.222.0/24

First link H1 to R1 by using h1.cmd("ip route add default via 192.168.11.251"), 192.168.11.251 is one interface address of R1.

R1 route packet to subnet 192.168.30.0/24 and subnet 192.168.222.0/24 via 192.168.10.2/24, which is the interface of R2.

R1 route packet to subnet 192.168.40.0/24 and subnet 192.168.222.0/24 via 192.168.20.2/24, which is the interface of R3

R2 route packet to subnet 192.168.11.0/24 via 192.168.10.1/24, which is the interface of R1

R2 route packet to subnet 192.168.222..0/24 via 192.168.30.2/24, which is the interface of R4

R4 route packet to subnet 192.168.10.0/24 AND subnet 192.168.11.0/24 via 192.168.30.1/24, which is the interface of R2

R4 route packet to subnet 192.168.20.0/24 AND subnet 192.168.11.0/24 via 192.168.40.1/24, which is the interface of R3

R3 route packet to subnet 192.168.11.0/24 via 192.168.20.1/24, which is the interface of R1

R3 route packet to subnet 192.168.222..0/24 via 192.168.40.2/24, which is the interface of R4

Then link H2 to R4 by using h2.cmd("ip route add default via 192.168.222.24"), 192.168.222.24 is one interface address of R4.