CSE421 Lab Project

# Summer 2022

**Section: 2**

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# VLSM Tree

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Host** | **Interfaces** | **Network Address** | **Subnet Mask** | **Default Gateway** |
| Bind | 780 | fa0/0 | 200.0.0.0 | 255.255.248.0 | N/A |
| se0/1/1 | 200.0.32.0 | 255.255.255.248 | N/A |
| Ascent | 484 | fa0/1 | 200.0.16.0 | 255.255.252.0 | N/A |
|  |  | se0/0/0 | 200.0.34.0 | 255.255.255.248 | N/A |
| Fracture | 674 | fa0/1 | 200.0.8.0 | 255.255.248.0 | N/A |
|  |  | se0/0/1 | 200.0.33.0 | 255.255.255.248 | N/A |
|  |  | se0/1/0 | 200.0.35.0 | 255.255.255.248 | N/A |
| Breeze | 359 | fa0/0 | 200.0.24.0 | 255.255.252.0 | N/A |
|  |  | se0/1/0 | 200.0.36.0 | 255.255.255.248 | N/A |
| Icebox | 441 | fa0/1 | 200.0.20.0 | 255.255.2 | N/A |
|  |  | se0/0/1 | 200.0.36.0 | 255.255.255.248 | N/A |
|  |  | se0/1/0 | 200.0.35.0 | 255.255.255.248 | N/A |
| Heaven | 293 | fa0/1 | 200.0.28.0 | 255.255.252.0 | N/A |
|  |  | se0/1/1 | 200.0.32.0 | 255.255.255.248 | N/A |
|  |  | se0/0/1 | 200.0.33.0 | 255.255.255.248 | N/A |
|  |  | se0/0/0 | 200.0.34.0 | 255.255.255.248 | N/A |
| Bind to Heaven | 2 | N/A | 200.0.3 2.0 | 255.255.255.248 | N/A |
| Bind to Fracture | 2 | N/A | 200.0.3 3.0 | 255.255.255.248 | N/A |
| Bind to Ascent | 2 | N/A | 200.0.3 4.0 | 255.255.255.248 | N/A |
| Fracture to Icebox | 2 | N/A | 200.0.3 5.0 | 255.255.255.248 | N/A |
| Icebox to Breeze | 2 | N/A | 200.0.3 6.0 | 255.255.255.248 | N/A |

**IP Address Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Interfaces** | **IP Address** | **Subnet Mask** | **Default Gateway** |
| Bind | PC0 | 200.0.0.13 | 255.255.248.0 | 200.0.0.1 |
| PC1 | 200.0.0.11 | 255.255.248.0 | 200.0.0.1 |
| Ascent | PC2 | 200.0.16.3 | 255.255.252.0 | 200.0.16.1 |
|  | PC3 | 200.0.16.4 | 255.255.252.0 | 200.0.16.1 |
| Fracture | PC6 | 200.0.8.3 | 255.255.248.0 | 200.0.8.1 |
|  | PC7 | 200.0.8.5 | 255.255.248.0 | 200.0.8.1 |
| Breeze | PC9 | 200.0.24.3 | 255.255.252.0 | 200.0.24.1 |
|  | Laptop | 200.0.24.2 | 255.255.252.0 | 200.0.24.1 |
| Icebox | PC8 | 200.0.20.3 | 255.255.252.0 | 200.0.20.1 |
|  | Laptop0 | 200.0.20.2 | 255.255.252.0 | 200.0.20.1 |
| Heaven | PC4 | 200.0.28.4 | 255.255.252.0 | 200.0.28.1 |
|  | PC5 | 200.0.28.3 | 255.255.252.0 | 200.0.28.1 |
| DHCP1 | N/A | 200.0.28.2 | 255.255.252.0 | 200.0.28.1 |
| DHCP3 | N/A | 200.0.21.2 | 255.255.252.0 | 200.0.20.1 |
| DHCP4 | N/A | 200.0.16.2 | 255.255.252.0 | 200.0.16.1 |
| DHCP5 | N/A | 200.0.27.2 | 255.255.252.0 | 200.0.24.1 |
| DNS | N/A | 200.0.0.2 | 255.255.248.0 | 200.0.0.1 |
| Web server | N/A | 200.0.0.3 | 255.255.248.0 | 200.0.0.1 |

# Terminal Commands:

**Bind:**

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config) #int fa0/1

Router(config-if) #ip address 200.0.8.1 255.255.248.0 Router(config-if) #no shut

Router(config-if) #exit

Router(config) #int se0/1/1

Router(config-if) #ip address 200.0.32.1 255.255.255.248

Router(config-if)#no shut Router(config-if)#exit

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#network 200.0.0.0

Router(config-router)#network 200.0.32.0 Router(config-router)#no auto summary Router(config-router)#exit

Router(config)#

Router(config)#interface FastEthernet0/1 Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial10/1/1

Router(config-if)#ip address 200.0.32.1 255.255.255.248

Router(config-if)#ip address 200.0.32.1 255.255.255.248 Router(config-if)#

Router#copy run

Router#copy running-config startup-config Destination filename [startup-config]?

Building configuration. . . [ok]

Router#conf

Router#configure term

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#router rip

Router(config-router)#redistribute static Router(config-router)#no auto-summary Router(config-router)#end

Router#

# Fracture:

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config) #int fa0/1

Router(config-if)#ip address 200.0.8.1 255.255.248.0 Router(config-if)#no shut

Router(config-if)#exit

Router(config-if)#int se0/0/1

Router(config-if)#ip address 200.0.35.1 255.255.255.248 Router(config-if)#no shut

Router(config-if)#exit

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#no auto summary Router(config-router)#network 200.0.33.0

Router(config-router)#network 200.0.8.0

Router(config-router)#network 200.0.35.0 Router(config-router)#redistribute static Router(config-router)#exit

Router(config)#exit

Router#copy run start

# Icebox:

Router>en Router#

Router#configure terminal Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config) #int se0/0/1

Router(config-if) #ip address 200.0.20.1 255.255.252.0

%200.0.20.0 overlaps with FastEthernet0/1 Router(config-if)#no shut

Router(config-if)#exit

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#no auto-summary Router(config-router)#network 200.0.35.0

Router(config-router)#network 200.0.20.0 Router(config-router)#exit

Router(config)#

%SYS-5-CONFIG\_I: Configure from console by console Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#int fa0/1

Router(config-if)#ip address 200.0.20.1 255.255.252.0 Router(config-if)#no shut

Router(config-if)#exit Router(config)#

Router(config)#int Se0/1/0

Router(config-if)#ip address 200.0.35.3 255.255.255.248 Router(config-if)#no shut

Router(config-if)#exit

Router(config)#Ip route 200.0.24.0 255.255.252.0 200.0.36.3 Router(config)#

Router(config)#Ip route 200.0.33.0 255.255.255.248 200.0.33.1

Router(config)#Ip route 200.0.8.0 255.255.248.0 200.0.35.1 Router(config)#

Router(config)#Ip route 200.0.32.0 255.255.255.248 200.0.33.1

Router(config)#Ip route 200.0.34.0 255.255.255.248 200.0.33.1

Router(config)#Ip route 200.0.28.0 255.255.252.0 200.0.33.1 Router(config)#

Router(config)#Ip route 200.0.0.0 255.255.248.0 200.0.32.1

Router(config)#Ip route 200.0.16.0 255.255.252.0 200.0.34.3 Router(config)#

Router(config)#exit Router#

**Breeze:**

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config) #int fa0/0

Router(config-if) #ip address [200.0.24.1](http://200.0.24.1/?fbclid=IwAR1DK37QPF3rw08D5yV2GLo20zfFDWuDkVsGqt7W93qbKubfwqwnz7_bjoU) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR1-1yIZQhOcCZrPmm5NC5bAVttY7NS3UQiVcdpXrcgcV2t9Jws4cSg36hw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router(config-if)#no shut

Router(config-if)#exit Router(config)#

Router(config)#int Se0/0/1

Router(config-if)#ip address [200.0.36.3](http://200.0.36.3/?fbclid=IwAR0Ha5HhHumlW4lLd9oT5E6eMFZ-RME8FthE6JcsSWz2c5B5rV3_rBILSY4) [255.255.255.248](http://255.255.255.248/?fbclid=IwAR2ksYeNVBG0q4031eKUnbDXOf0JV7MBqP464dRVcCTDnq5DkQ_reWy5stc) Router(config-if)#no shut

Router(config-if)#exit Router(config)#

Router(config)#ip route [200.0.35.0](http://200.0.35.0/?fbclid=IwAR38x7w-dbY2Kx1pZvPrkOI3QA-SJHg8CjWzAvQR9mh-HCqKKn7YRdHKIV4) [255.255.255.248](http://255.255.255.248/?fbclid=IwAR3e78J0-VG0Pe_sR6nB9MpogKKp8PnIeJQ5XVzM_lJ6CbUQpWScwQVKe7A) [200.0.36.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.36.1%2F%3Ffbclid%3DIwAR3s-3mNaKORwXMgN89PBb7JqSItiFJl49a6K0lAFBGZvgs_3ZVeBnOruws&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router(config)#ip route [200.0.20.0](http://200.0.20.0/?fbclid=IwAR0Ha5HhHumlW4lLd9oT5E6eMFZ-RME8FthE6JcsSWz2c5B5rV3_rBILSY4) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR0E1TUSd6Z3ApQu9fATiTPq_Le3XBkLcTSZ4CcUw6MxZTidAStMekS65J8&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.36.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.36.1%2F%3Ffbclid%3DIwAR1da2ws5etk1NynVSjmN76JZAD8KXtOVpprQ6cCfe2qesCsA2hkNLXmuKY&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router(config)#

Router(config)#ip route [200.0.33.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.33.0%2F%3Ffbclid%3DIwAR12CarNbIul3Hq8vmdtGhd4onPa8dkxB4eMZvULhz228wCJ3al0yiJO1lo&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.255.248](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.255.248%2F%3Ffbclid%3DIwAR0Ha5HhHumlW4lLd9oT5E6eMFZ-RME8FthE6JcsSWz2c5B5rV3_rBILSY4&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.35.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.35.1%2F%3Ffbclid%3DIwAR38x7w-dbY2Kx1pZvPrkOI3QA-SJHg8CjWzAvQR9mh-HCqKKn7YRdHKIV4&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router(config)#ip route [200.0.8.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.8.0%2F%3Ffbclid%3DIwAR0M19FzraQwZZnKmOoCZDNeQqfBVI5WCqd7TDrs2GDXCvk8j9fE_7CtZ5k&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.248.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.248.0%2F%3Ffbclid%3DIwAR1yuEpHcpEqhsDXkzDeUWEn_lwG25dLmPTbp36qX0W_JP7DyL35uvyDDCE&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.35.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.35.1%2F%3Ffbclid%3DIwAR1DK37QPF3rw08D5yV2GLo20zfFDWuDkVsGqt7W93qbKubfwqwnz7_bjoU&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router(config)#

Router(config)#ip route [200.0.32.0](http://200.0.32.0/?fbclid=IwAR2AflmiTc4Wj9rzwFSupGyd0RP6keeo6b6GxcfhF2_sYt8qHjIfWqR8A5E) [255.255.255.248](http://255.255.255.248/?fbclid=IwAR1PvKiWE_6LDZapjsUxINaKQoPJhdY84pbM2Y_dcM-emcoF8OIIPIWccZo) [200.0.33.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.33.1%2F%3Ffbclid%3DIwAR38x7w-dbY2Kx1pZvPrkOI3QA-SJHg8CjWzAvQR9mh-HCqKKn7YRdHKIV4&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router(config)#ip route [200.0.34.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.34.0%2F%3Ffbclid%3DIwAR2npUw3d003xahLmo3y110DtpOBdErzPpNW8ZftT_Zb4F7koud5VuF85XU&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.255.248](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.255.248%2F%3Ffbclid%3DIwAR38x7w-dbY2Kx1pZvPrkOI3QA-SJHg8CjWzAvQR9mh-HCqKKn7YRdHKIV4&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.33.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.33.1%2F%3Ffbclid%3DIwAR1z7SdbxFY8_6RE9tq80Zgy0kOqyjzAQpvZm1gYMYI3MRK290Uv4GK-E7o&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router(config)#ip route [200.0.28.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.28.0%2F%3Ffbclid%3DIwAR2-nY7QDkY7z1cKglidgRmGDPglYV3IeFhj1sas992H_viaDUCglribPg0&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR1RK66E07SOpi4G2uEL4P_3uBSZD_YQBHjEqO7zYEa3JyNoLcEzfLsemqA&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.33.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.33.1%2F%3Ffbclid%3DIwAR1nOVNelRnm3NRyHqZvSD1CTGOuBSdRHjoeG-RCgYVmOSxfequmjynmAc4&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router(config)#

Router(config)#ip route [200.0.0.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.0.0%2F%3Ffbclid%3DIwAR2-nY7QDkY7z1cKglidgRmGDPglYV3IeFhj1sas992H_viaDUCglribPg0&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.248.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.248.0%2F%3Ffbclid%3DIwAR3iQ5wBLqlh3LHKsSj4IwuOqyyyBda9JayWb0N6mKVD3SIrs9NQldoIR3A&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.32.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.32.1%2F%3Ffbclid%3DIwAR3iQ5wBLqlh3LHKsSj4IwuOqyyyBda9JayWb0N6mKVD3SIrs9NQldoIR3A&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router(config)#ip route [200.0.16.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.16.0%2F%3Ffbclid%3DIwAR08k_YpR0SCbla0vP8plBkOPeJFZ6pLHYjWOZJomM8-x4kUNc2yCx5WMZg&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR0TA7W2h5BrMSH6NRjgHv4tnN7j8sJTcCCpdQwBDA2Ut1RuAK9Wu8Xai04&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.34.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.34.3%2F%3Ffbclid%3DIwAR1wTSwo3lJm2_SSy_6clMa1fBuhVZHtij3KdcTlvSCG0zjJSPnY24gA3uw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router(config)#

Router(config)#exit Router#

SYS-5-CONFIG\_I: Configured from console by console

**Heaven:**

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z. Router(config)#int fa0/1

Router(config-if)#ip address [200.0.33.1](http://200.0.33.1/?fbclid=IwAR0E1TUSd6Z3ApQu9fATiTPq_Le3XBkLcTSZ4CcUw6MxZTidAStMekS65J8) [255.255.252.0](http://255.255.252.0/?fbclid=IwAR24dB1AOC0MG--5IUTYXlEXEceA8qHKrF54asfMsqWuHm8moztvPW_0XNY) [200.0.32.0](http://200.0.32.0/?fbclid=IwAR0TA7W2h5BrMSH6NRjgHv4tnN7j8sJTcCCpdQwBDA2Ut1RuAK9Wu8Xai04) overlaps with Serial0/0/0 Router(config-if)#no shut

Router(config-if)#exit

Router(config)#int se0/1/1

Router(config-if)#ip address [200.0.32.3](http://200.0.32.3/?fbclid=IwAR1DRDjywqwITnlF6UT3EPk3lI6dPg1sGHbu7EkmysSHzixa3USyWf7ufhY) [255.255.255.248](http://255.255.255.248/?fbclid=IwAR38x7w-dbY2Kx1pZvPrkOI3QA-SJHg8CjWzAvQR9mh-HCqKKn7YRdHKIV4) Router(config-if) #no shut

Router(config-if) #exit

Router(config) #int se0/0/1

Router(config-if) #ip address [200.0.33.1](http://200.0.33.1/?fbclid=IwAR1nOVNelRnm3NRyHqZvSD1CTGOuBSdRHjoeG-RCgYVmOSxfequmjynmAc4) [255.255.255.248](http://255.255.255.248/?fbclid=IwAR12CarNbIul3Hq8vmdtGhd4onPa8dkxB4eMZvULhz228wCJ3al0yiJO1lo) Router(config-if) #no shut

Router(config-if) #exit

Router(config) #router rip

Router(config-router) #version 2

Router(config-router) #network [200.0.32.0](http://200.0.32.0/?fbclid=IwAR38x7w-dbY2Kx1pZvPrkOI3QA-SJHg8CjWzAvQR9mh-HCqKKn7YRdHKIV4) Router (config-router) #network [200.0.33.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.33.0%2F%3Ffbclid%3DIwAR0t4aAbStI1Nh61tjKbxdzDbOIpsGLxkGOHG983EVMdhG7BG5IE1v8ienw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router (config-router) #network [200.0.28.0](http://200.0.28.0/?fbclid=IwAR0C2gCM0qkqASRvw9fb8Mt_PpvcW-45N4LerVVwEZ2tRn0ovKr1z7hrkLI) Router (config-router) no auto-summary

Router (config-router) #exit Router (config) #exit

Router>en

Router #conf t

Enter configuration commands, one per line. End with CNTL/Z. Router (config) #int fa0/1

Router (config-if) #ip address [200.0.16.1](http://200.0.16.1/?fbclid=IwAR2AflmiTc4Wj9rzwFSupGyd0RP6keeo6b6GxcfhF2_sYt8qHjIfWqR8A5E) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR2yk6xyRuRBN0cwjlC7KR6DdaukNDHAbhNj0nsO9-cJPxTSNXCK9X1CwjY&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router (config-if) #no shut

Router (config-if) #exit

Router (config) #int Se0/0/0

Router (config-if) #ip address [200.0.34.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.34.3%2F%3Ffbclid%3DIwAR2M1vcyn5XrNPbN4ui3nBJJgYQEU0FyV90Ud6BjHnM4u-RH2dy1f3mLASE&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.255.248](http://255.255.255.248/?fbclid=IwAR0ECmufyruCSgWg8y5_YotqfdfLShRy2sT9Tgi18KoWUdoCMlYMSkYsCD8) Router (config-if) #no shut

Router (config-if) #exit

Router (config) #ip route [200.0.0.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.0.0%2F%3Ffbclid%3DIwAR2yXDv8kP52X3EMr8mVKc-aF2LAC5G_YQM5qUBQ6U16kVK6dpChojPNVtw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.248.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.248.0%2F%3Ffbclid%3DIwAR3iQ5wBLqlh3LHKsSj4IwuOqyyyBda9JayWb0N6mKVD3SIrs9NQldoIR3A&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.32.1](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.32.1%2F%3Ffbclid%3DIwAR0t4aAbStI1Nh61tjKbxdzDbOIpsGLxkGOHG983EVMdhG7BG5IE1v8ienw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router (config) #ip route [200.0.16.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.16.0%2F%3Ffbclid%3DIwAR0ECmufyruCSgWg8y5_YotqfdfLShRy2sT9Tgi18KoWUdoCMlYMSkYsCD8&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR1nOVNelRnm3NRyHqZvSD1CTGOuBSdRHjoeG-RCgYVmOSxfequmjynmAc4&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.34.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.34.3%2F%3Ffbclid%3DIwAR0E1TUSd6Z3ApQu9fATiTPq_Le3XBkLcTSZ4CcUw6MxZTidAStMekS65J8&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Invalid next hop address (it's this router)

Router (config) #ip route [200.0.8.0](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.8.0%2F%3Ffbclid%3DIwAR0t4aAbStI1Nh61tjKbxdzDbOIpsGLxkGOHG983EVMdhG7BG5IE1v8ienw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [255.255.248.0](http://255.255.248.0/?fbclid=IwAR1hiy39dfK9DkoKDuZB-7clw2k0oVRck9A6kvvewXi_k-Famr20N0WxG6M) [200.0.33.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.33.3%2F%3Ffbclid%3DIwAR2DxRl9pT9c8P0HXh3C4uf4tMo5539pbC7FO718hcaMUGI875ZOOCxfB6Q&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router (config) #ip route [200.0.35.0](http://200.0.35.0/?fbclid=IwAR0AmTOdyc-QLlVM0aj_jlR5bcUJHOvfD6pLMVEYCYHU8zZJlE21htDqUuw) [255.255.255.248](http://255.255.255.248/?fbclid=IwAR1yuEpHcpEqhsDXkzDeUWEn_lwG25dLmPTbp36qX0W_JP7DyL35uvyDDCE) [200.0.33.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.33.3%2F%3Ffbclid%3DIwAR0psqIem23T9X463FfiZzdTof4SM5Gpr8kJKEl8bC7DkPWYxz7sw1kBRfg&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router (config) #ip route [200.0.20.0](http://200.0.20.0/?fbclid=IwAR2M1vcyn5XrNPbN4ui3nBJJgYQEU0FyV90Ud6BjHnM4u-RH2dy1f3mLASE) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR1wTSwo3lJm2_SSy_6clMa1fBuhVZHtij3KdcTlvSCG0zjJSPnY24gA3uw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.35.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.35.3%2F%3Ffbclid%3DIwAR12CarNbIul3Hq8vmdtGhd4onPa8dkxB4eMZvULhz228wCJ3al0yiJO1lo&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router (config) #ip route [200.0.36.0](http://200.0.36.0/?fbclid=IwAR3Krf85e8nZJgu06i92HTGnBQqOPT9L5gvbhnlHRmjn9IaWbHEDJ5cMWFc) [255.255.255.248](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.255.248%2F%3Ffbclid%3DIwAR1yuEpHcpEqhsDXkzDeUWEn_lwG25dLmPTbp36qX0W_JP7DyL35uvyDDCE&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.35.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.35.3%2F%3Ffbclid%3DIwAR2yXDv8kP52X3EMr8mVKc-aF2LAC5G_YQM5qUBQ6U16kVK6dpChojPNVtw&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw)

Router (config) #ip route [200.0.24.0](http://200.0.24.0/?fbclid=IwAR2M1vcyn5XrNPbN4ui3nBJJgYQEU0FyV90Ud6BjHnM4u-RH2dy1f3mLASE) [255.255.252.0](https://l.facebook.com/l.php?u=http%3A%2F%2F255.255.252.0%2F%3Ffbclid%3DIwAR2AflmiTc4Wj9rzwFSupGyd0RP6keeo6b6GxcfhF2_sYt8qHjIfWqR8A5E&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) [200.0.36.3](https://l.facebook.com/l.php?u=http%3A%2F%2F200.0.36.3%2F%3Ffbclid%3DIwAR2DYTgtuhnNjlArzus0l877LQFEO2BpR1iAy8YqS8islrmveRKGKVVkEm8&h=AT33OxStvepYpzZDsELhkgCKoXXm_lRkUeGQZv93bd5Q6KVHPMRWcY1oabbwqHVqMPdawQn-YEsHQd0hFzAH6EvRGvR1pZkL3kEGDTo1ZMtQELiEJkAxfWZvQ5QOyRGQIINdTw) Router (config) #exit

Router #

SYS-5-CONFIG\_I: Configured from console by console

# Ascent

Router>en

Router #conf t

Router(config) #int fa0/1

Router(config-if) #ip address 200.0.16.1 255.255.252.0 Router(config-if) #no shut

Router(config-if) #exit

Router(config) #int se0/0/0

Router(config-if) #ip address 200.0.34.3 255.255.255.248 Router(config-if) #no shut

Router(config-if) #exit

Router(config) #ip route 200.0.28.0 255.255.252.0 200.0.34.1

Router(config) #ip route 200.0.32.0 255.255.255.248 200.0.34.1

Router(config) #ip route 200.0.33.0 255.255.255.248 200.0.34.1 Router(config) #

Router(config) #ip route 200.0.0.0 255.255.248.0 200.0.32.1 Router(config) #

Router(config) #ip route 200.0.8.0 255.255.248.0 200.0.33.3

Router(config) #ip route 200.0.35.0 255.255.255.248 200.0.33.3 Router(config) #

Router(config) #ip route 200.0.20.0 255.255.252.0 200.0.35.3

Router(config) #ip route 200.0.36.0 255.255.255.248 200.0.35.3 Router(config) #

Router(config) #ip route 200.0.24.0 255.255.252.0 200.0.36.3 Router(config) #exit

Router(config) #