

CS 430/594 Routing Spring, 2004 straight

examples

1) diagram C, static routing (assumes nothing has been configured)

a) configure router A:

```
router>en enable
router#config t
router(config)#int s0
router(config-if)#ip address 10.10.4.1 255.255.255.0
router(config-if)#clock rate 56000
router(config-if)#no shut
```

b) configure router B

```
router>en
router#config t
router(config)#int s1
router(config-if)#ip address 10.10.4.3 255.255.255.0
router(config-if)#clock rate 56000
router(config-if)#no shut
router(config-if)#int e0
router(config-if)#ip address 10.10.5.2 255.255.255.0
```

etc

2) diagram B, with OSPF.

to set up a virtual link from ABR A to ABR C--connecting the two pieces of the backbone:

(assume A's IP into area 3 is 10.10.5.7, B's IP into area 3 is 10.10.6.2)

a) at A: router(config-router)#area 3 virtual-link 10.10.6.2

b) at C: router(config-router)#area 3 virtual-link 10.10.5.7

3) diagram A. OSPF: to set up area 1 as a stub area:

a) at router C: router(config-router)#area 1 stub

b) at router A: router(config-router)#area 1 stub

3a) diagram A. OSPF: to set up area 1 as a totally stubby area:

a) at C: router(config-router)#area 1 stub

b) at A: router(config-router)#area 1 stub no-summary