BRYANT ICDN1 SEC 5. IP, BINARY & ROUTIN 192.168.1.100= 11000000 10101000 00000001101100100 255. 255. 255.0 = (11 /24) hand han hand 100000000 Network Host Pooting 2: IP Address Classes Class A: 1-126 255,000.0 (18) Class B: 128-191 255.255.0.0 (16) Class C: 192-223 255.255.255.0 (/24) Loop back: 127 Class D: 224-239 Multicast Class E: 240-255 Reserved ("experimental") Routing 3 Private Addresses Non-routable address classes that can't leave a local Network. Class A: 10.0.0.0 - 10.255.255.255 Class B: 172.16.0.0 - 172.31.255.255 Class C: 192.168.0.0 - 192.168.255.255 10.0.0.0 255.0.0.0 (10.0.0.0/8) 172.16.0.0 255.240.0.0 (176.16.0.0/12) 192.168.0.0 255.255.0.0 (192.168.0.0/24)

Rooting 4: ] Connected Rootes walk-through 192.168.1.100/24 10.1.1.5/24 F0/0 192.168.1.1/24 10.1.1.1/24 192.168.1.15/24 PACKET DESTINATIONS HOST SENDS PACKET ROOTER REGEVES PACKET · Directly connected network @ Same subnet as the packets source · Non-directly connected 3 different subnet network with entry · Non-directly connected network without routing entry 10.1.1.5/24 30.1.1.5/21 0/0 20.1.1.2/24 0/0 10.1.1.1/24 0/1 30.1.1.2/24 0/1 20.1.1.1/24 21# Show ip route 20.0.0 delis subnetted, I subnets 20.1.1.0 is directly connected, fast-thernet 0/1 10.0.0.0/24 is subnetted, I subnets
10.0.1.0 is directly connected, fast Ethernet 010 At this point RI has no route to 30.1.1.0, so packets will be dropped. To add RZ as default route ... R1(config)# ip route 0.0.0.0 0.0.0.0 20.1.1.2 22 would also need a static route for return traffi