CCIE (8) PDF

Lab 08 - NAT TRANSLATION All configurations will refer to the diagram below. The scenario is as follows: Your organization is using the private address of 10.0.0.0 /24. Your ISP has assigned the public address of 200.200.200.0 /24 to your organization. Our goal is to configure Router A to provide us with address translation to go from the private address to the public address. We also want to advertise this public address out to the world. The configuration commands that accomplish these goals are presented in bold. Current configuration: !version 11.3no service password-encryption!hostname router_a!enable secret 5 1.s1R$iaEqZxLnYJo2QlZi8UNaO0enable password guess!ip nat pool nat-example200.200.200.1 200.200.200.255 prefix-length 24ip nat inside source list 1 pool nat-example!interface Ethernet0/0ip address 200.200.200.1 255.255.255.0secondaryip address 10.10.10.1 255.255.255.0ip nat inside!interface Serial0/0ip address 150.100.10.72 255.255.255.0ip nat outsideencapsulation frame-relay!interface TokenRing0/0no ip addressshutdownring-speed 16!interface FastEthernet1/0no ip addressshutdown!router ripnetwork 200.200.200.0network 150.100.0.0!ip classlessno logging bufferedaccess-list 1 permit 10.10.10.0 0.0.0.255!!line con 0exec-timeout 0 0line aux 0line vty 0 4login!endExplanation of the bold commands:Ip nat pool-Defines the pool name of "nat-example" the first public address is200.200.200.1 and the last

address 200.200.200.255. The mask is255.255.255.0 or /24Ip nat inside source-Applies the access-list 1 to the pool "nat-example"Ip address 200.200.200.1 255.255.255.0 secondary-Applies the public address to the e0/0 interface as a secondaryaddress. Since we want to advertise the public address we mustconfigure the address.Ip nat inside-Defines the e0/0 interface as the inside addressIp nat outside-Define serial 0 as the outside addressesRouter rip-Network 200.200.200.0Because we configures the 200.200.200.0 address as a secondaryaddress we can advertise it with RIP.Access-list 1 permit 10.10.10.0 0.0.0.255Permits the private addresses on the 10.10.10.o subnet to betranslated to the public address.The following is the actual translation taken after the seri 10.10.10.1interface of the router and the workstation 10.10.10.2 performed aping of the Serial interface of the ISP's router.router_a#sh ip nat transPro Inside global Inside local Outside local Outside global--- 200.200.200.1 10.10.10.1 --- ------ 200.200.200.2 10.10.10.2 --- --- 100Test

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