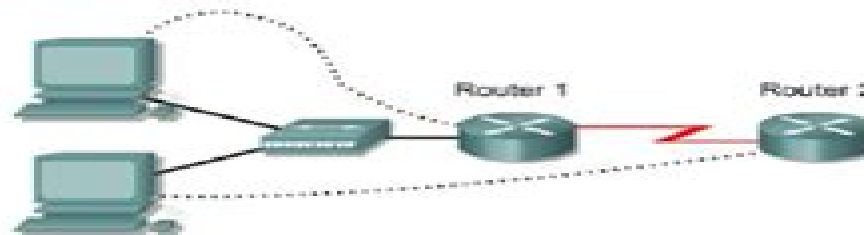


Lab 1.1.4a Configuring NAT



Router Designation	Router Name	FastEthernet 0 Address/Subnet Mask	Interface Type	Serial 0 Address/Subnet Mask	Loopback 0 Address/Subnet Mask	Enable Secret Password	Enable/VTY/Console Passwords
Router 1	Gateway	10.10.10.1/24	DCE	200.2.2.16/30	NA	class	class
Router 2	ISP	NA	DTE	200.2.2.17/30	172.16.1.1/32	class	class

Straight-through cable	—————
Serial cable	—————
Console (rollover)	
Crossover cable	-----

Objective

- Configure a router to use network address translation (NAT) to convert internal IP addresses, typically private addresses, into outside public addresses.

Background/Preparation

An ISP has allocated a company the public classless interdomain routing (CIDR) IP address 199.99.9.32/27. This is equivalent to 30 public IP addresses. Since the company has an internal requirement for more than 30 addresses, the IT manager has decided to implement NAT. The addresses 199.99.9.33 – 199.99.9.39 for static allocation and 199.99.9.40 – 199.99.9.62 for dynamic allocation. Routing will be done between the ISP and the gateway router used by the company. A static route will be used between the ISP and gateway router and a default route will be used between the gateway router and the ISP. The ISP connection to the Internet will be represented by a loopback address on the ISP router.

Cable a network similar to the one in the diagram above. Any router that meets the interface requirements displayed on the above diagram may be used. This includes the following and any of their possible combinations:

- 800 series routers
- 1600 series routers

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John Rullan



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Routers and Routing Basics Allan Johnson, 2007 The only authorized Labs and Study Guide for the Cisco Networking Academy Program Routers and Routing Basics CCNA 2 Labs and Study Guide supplements version 3 1 1 of the Cisco Networking Academy registered Program CCNA registered 2 course This Guide maximizes your understanding of configuring a router managing Cisco IOS registered Software selecting a routing protocol verifying and troubleshooting a network and implementing basic security with access control lists Each chapter contains a Study Guide section and a Lab Exercises section Keep all your completed work on hand in this book to study from later or take advantage of the perforated pages to tear out and hand in specific material for homework assignments Over 200 exercises in this book help you learn the concepts and configurations crucial to your success as a CCNA exam candidate Each chapter is slightly different and includes some or all the following types of exercises vocabulary matching and completion skill building activities and scenarios configuration scenarios concept questions journal entries and internet research you review all the commands covered in the chapter The book includes all 55 labs from the online course with an additional 15 labs in which you can apply your knowledge about the technologies and concepts introduced You will get ample opportunity for hands on practice in three different types of labs Curriculum Labs are step by step exercises designed to introduce you to new concepts Presenting you with detailed instructions and sometimes additional explanations for completing the lab Curriculum Labs come directly from the CCNA 2 online course Comprehensive Labs combine the concepts learned from the course and Curriculum Labs into new experiments These Exercises provide minimal guidance You are encouraged to complete the Curriculum Labs before moving on to a Comprehensive Lab and Challenge Labs are unique labs requiring a thorough understanding of the previously learned network concepts You should complete all Curriculum Labs and Comprehensive Labs before attempting a Challenge Lab Additionally the appendix includes a CCNA 2 Skills Based Assessment practice lab be well prepared to continue your networking education in the CCNA courses that follow Use this book with Routers and Routing Basics CCNA 2 Companion Guide ISBN 1 58713 166 8 Allan Johnson is an information technology instructor at Mary Carroll High School and Del Mar College in Corpus Christi Texas Since 2003 Allan has committed much of his time and energy to the CCNA Instructional Support team creating training materials and providing services for instructors worldwide He is a familiar voice on the Cisco Networking Academy Community forum Ask the Experts series This book is part of the Cisco Networking Academy Program series from Cisco Press registered The products in this series support and complement the Cisco Networking Academy Program online curriculum Information and Beyond: Part II Eli Cohen, WAN Technologies John Rullan, 2006 This book is the official supplemental textbook for version 3 1 1 of the CCNA 4 course in the Cisco Networking Academy Program

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