



# Computer Networks

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# Recap

- Network Architecture
- Network Models

# Unit 3

## Network Layer



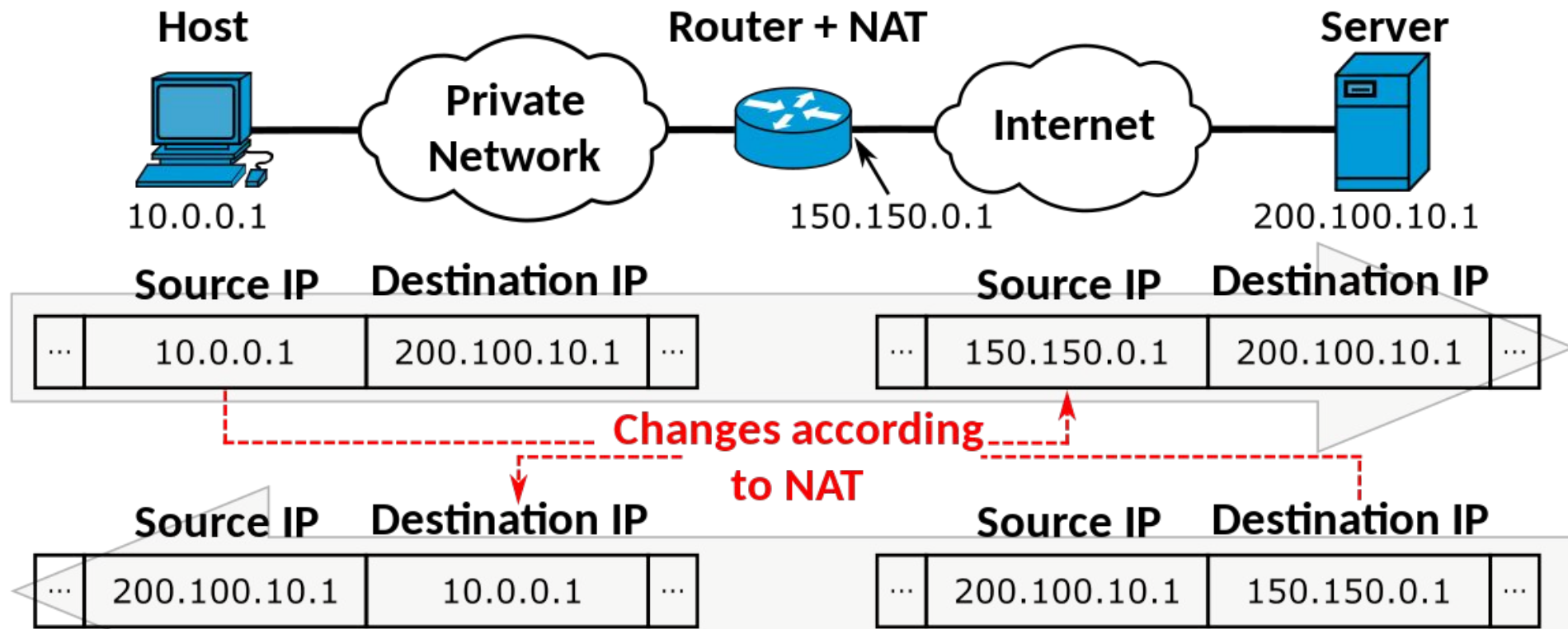
# Contents

NAT

CIDR

# Network Address Translation

- Network address translation (NAT) refers to a method for mapping packets generated by machines in a private network into packets that can traverse the global Internet.
- NAT also transfers packets arriving from the global Internet to the appropriate destination machine in the private network.



# CIDR

- Classless Interdomain Routing
- Using a CIDR notation, a prefix 205.100.0.0 of length 22 is written as 205.100.0.0/22. The /22 notation indicates that the network mask is 22 bits, or 255.255.252.0
- The entries in a CIDR routing table contain a 32-bit IP address and a 32-bit mask
- CIDR enables a technique called supernetting to allow a
- single routing entry to cover a block of classful addresses



**Thank you**