CS 640 Introduction to Computer Networks

Lecture10

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Today's lecture

- Implementing routers/switches
- · Network address translation

• IPv6

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- · Network address translation
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Network Address Translation

- Multiple clients access network through NAT box using single IP address
- · Advantages:
 - Fewer IP addresses used (clients have private RFC 1918 addresses)
 - Outside hosts cannot connect to NATed clients
- Disadvantages:
 - Breaks end to end reachability
 - Outside hosts cannot connect to NATed clients
- · Works by rewriting IP, TCP, and UDP headers

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