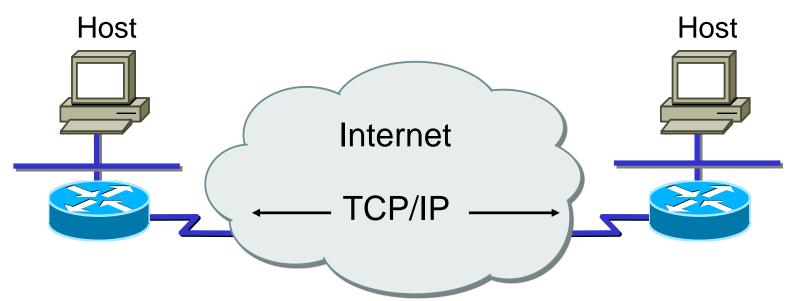
Aula 7 - TCP/IP - I

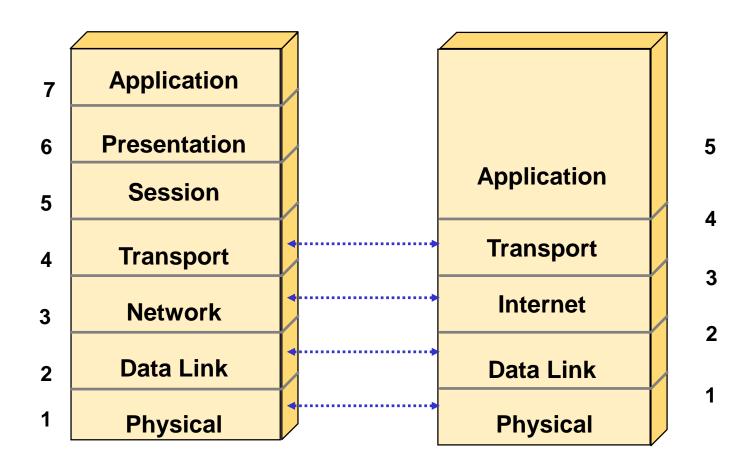
Interconnecting Networks with TCP/IP

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Introduction to TCP/IP

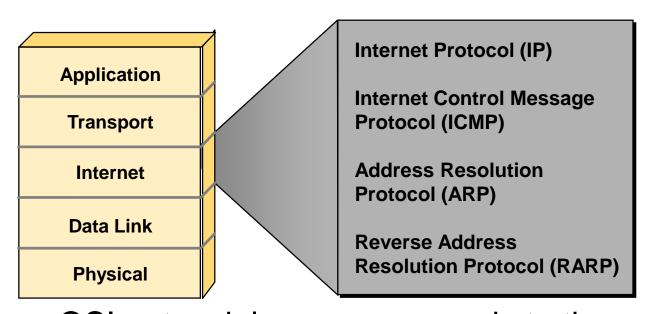


- Early protocol suite
- Universal



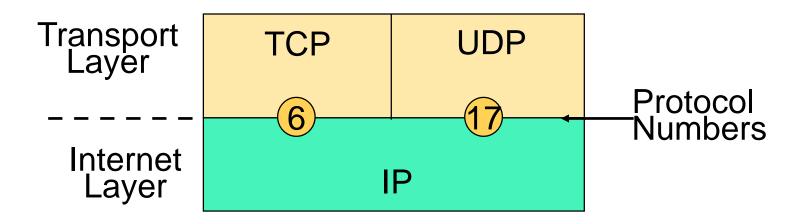
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Internet Layer Overview



 OSI network layer corresponds to the TCP/IP internet layer

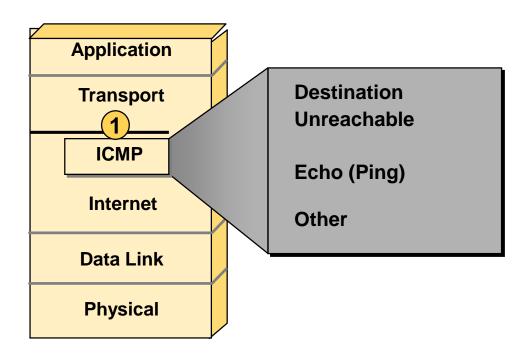
Protocol Field



Determines destination upper-layer protocol

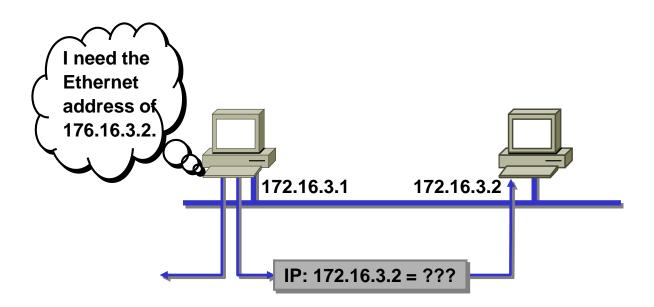
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Internet Control Message Protocol



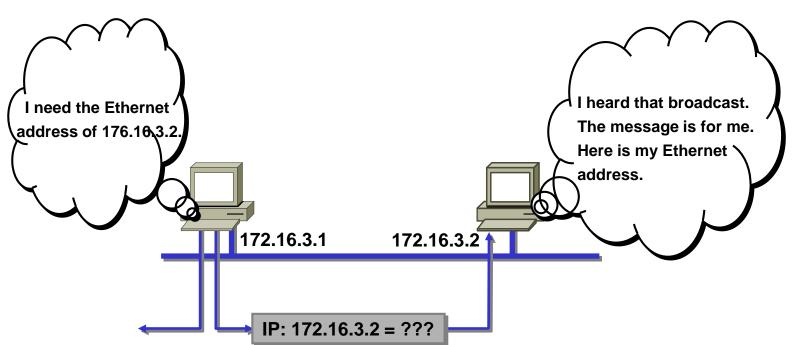
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Address Resolution Protocol



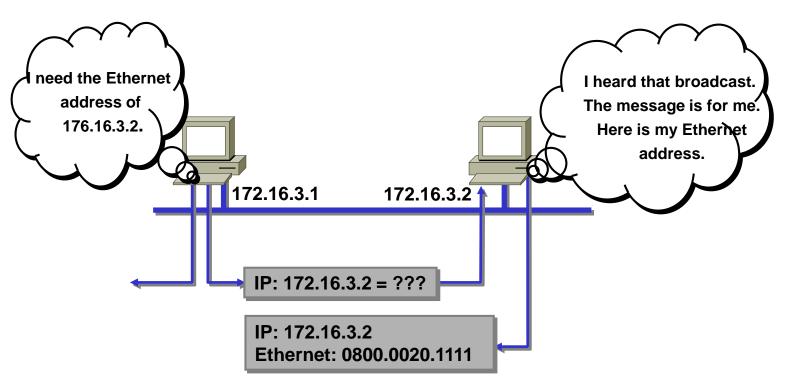
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Address Resolution Protocol



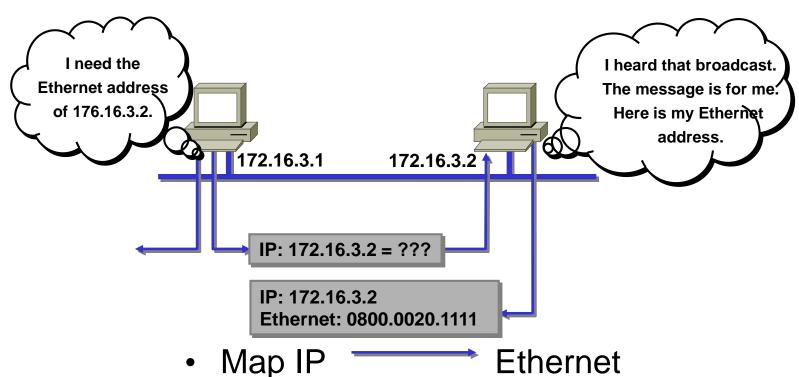
Aula 7 - TCP/IP - I

Address Resolution Protocol



Aula 7 - TCP/IP - I

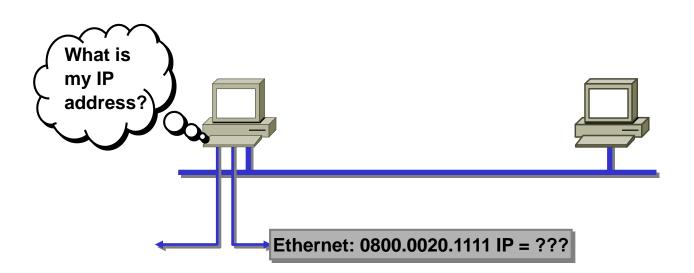
Address Resolution Protocol



Local ARP

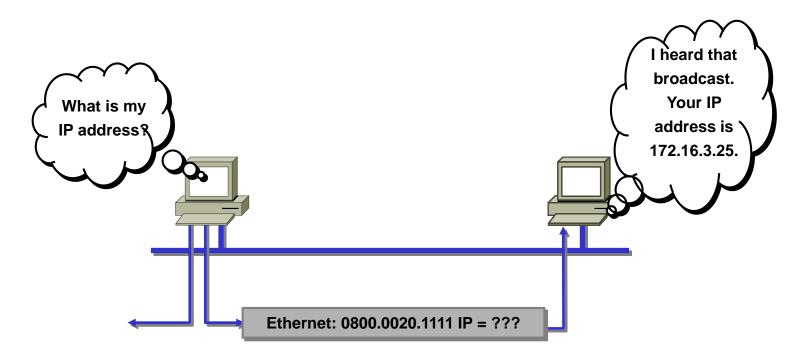
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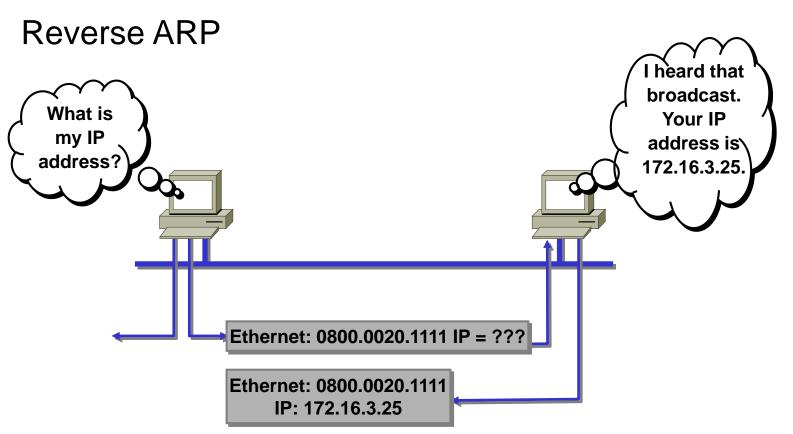
Reverse ARP

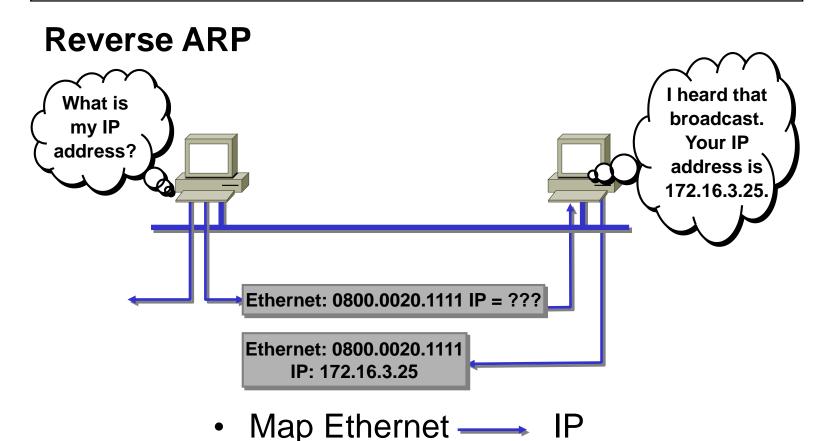


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Reverse ARP

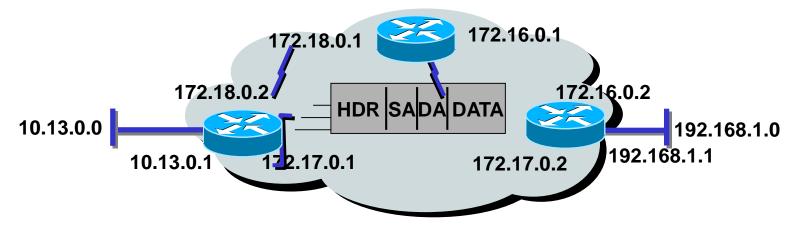






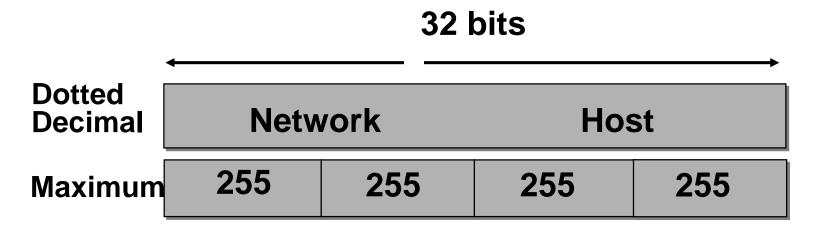
Aula 7 - TCP/IP - I

Introduction to TCP/IP Addresses



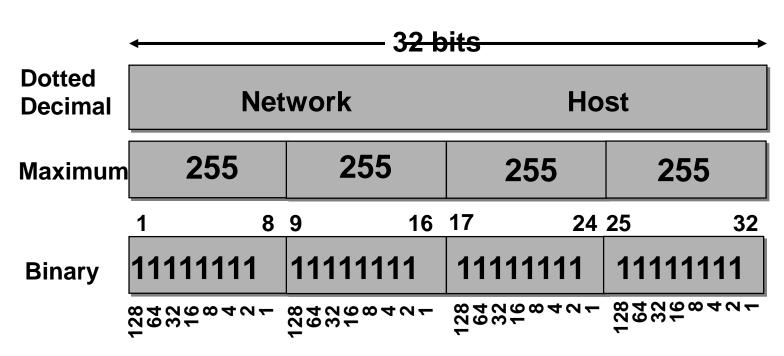
- Unique addressing allows communication between end stations
- Path choice is based on location
- Location is represented by an address

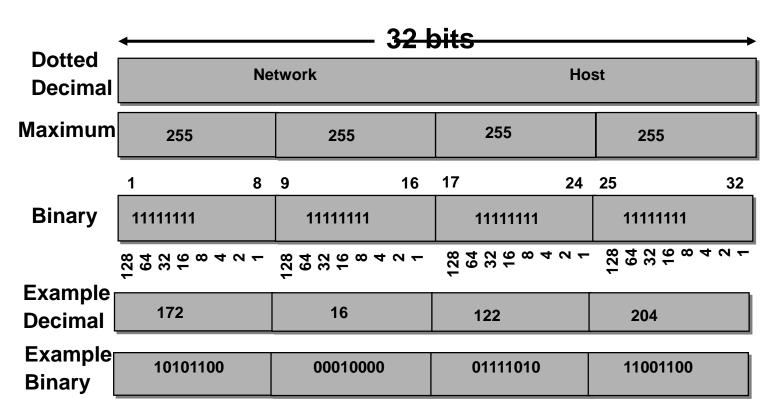
IP Addressing



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IP Addressing





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IP Address Classes

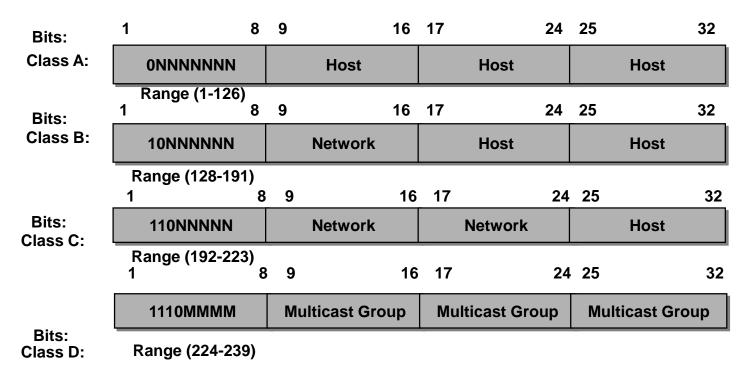
8 bits 8 bits 8 bits 8 bits Class A: Network Host Host Host Class B: Network Network Host Host Class C: Network Network Network Host

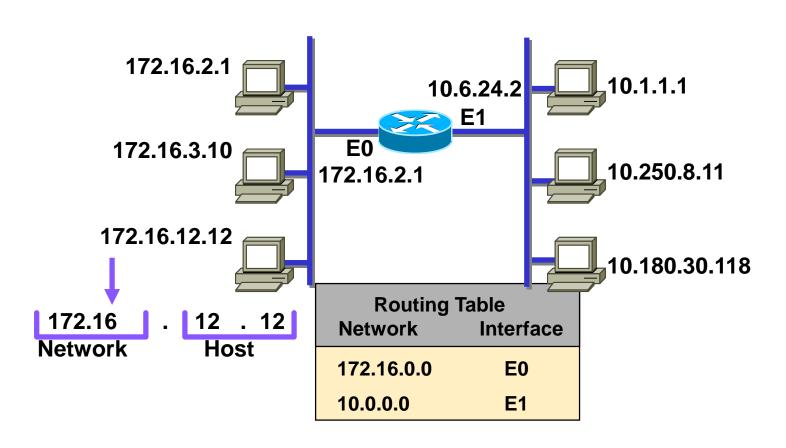
Class D: Multicast

Class E: Research

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IP Address Classes





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IP Address Classes

| Address | Class | Network | Host |
|----------------|-------|---------|------|
| 10.2.1.1 | | | |
| 128.63.2.100 | | | |
| 201.222.5.64 | | | |
| 192.6.141.2 | | | |
| 130.113.64.16 | | | |
| 256.241.201.10 | | | |