

### Subnetting

	Binary form	Dot-decimal notation
IP address	11000000.10101000.0000101.10000010	192.168.5.30
Subnet mask	11111111.11111111.11111111.11111111	255.255.255.255
Network prefix	11000000.10101000.0000101.10000000	192.168.5.28
Host part	00000000.00000000.00000000.00000010	0.0.0.2

### A Laptop Walks Into a LAN...

DHCP Discovery	DHCP Offer
DHCP Request	DHCP ACK
ARP Request (For getting to DNS Server)	ARP Response
DNS Request	DNS Response
ARP Request (For getting to the host)	ARP Response
TCP SYN	TCP SYN-ACK
TCP ACK	
TCP GET	TCP Response
TCP FIN	TCP FIN-ACK
TCP ACK	

### BGP

iBGP - Internal (Within an AS)

eBGP - External (Between Ases)

#### Follow the money.

- Route to customers first
- Route to peers second
- Route to Providers last

### Multicast

#### CBT: Core Based Tree

- Pick a node that acts as the CORE
- If you want to send to the multicast group. send towards the core.
- If the message hits the spanning tree. Flood the tree

#### DVMRP: Distance-vector multicast routing protocol

- Use least cost path to reach every member of the multicast group.
- Centered on the sender



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