



























IPv4 Address Formats								
	7			24				
Class A	0 Network			Host			126 networks / 16M hosts each	
				14		16		
Class B	1	0	Ne	etwork	Host		16K networks / 64K hosts each	
				21		8		
Class C	1	1 0		Network		Host	2M networks / 255 hosts each	
 32 bits written in "dotted quad" notation, e.g., 18.31.0.135 Given an IP address, it's easy to determine the network number 								
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Key Concepts							
 Hierarchical add Technical Issu Addresses Advertise a Separate ir subnets Keep host Network Adm Distribute v 	dress allocation helps routing scale ues: are constrained by topology and compute routes for networks, not each host nternet view of networks from local implementation via simple and let routers worry about routing inistration Issue: workload of assigning IP addresses to clients						
DHCP provides information	convenient management of host startup						
ARP learns the	mapping from IP to MAC address						
NAT hides local	names behind a single global name						
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