

Sept-30-2014

Note Title

8/28/2014

- Start designing and performance #6
Read Network performance notes
on Homework page.

HW #6

1. a) 173.94.45.247

Longest prefix first 127.224

173.94.45.247

1111 0111 ~~224~~247

Binary AND

1110 0000 224

255.255.255.224

1110 0000 224

173.94.45.224 → not in table

use default

d) 172.4.153.17
 255.255.255.192

0001	0001	17
1100	0000	And
	0	

AND binary

192.4.153.0

is in table → R3

3, 173.94.46.64 / 28

64 → 0100 | 0000 / 28
 ←

173.94.46.64 → not address

can not use for host

0100 1111 → 79 173.94.46.79 → Broadcast

- IP packet processing
- Routing
 - AS
 - ~~AS~~ ASW
 - EGP \rightarrow BGP
 - IGP \rightarrow OSPF
- Routing issues
 - + cost \rightarrow link weight
 - + graph
 - + shortest path
 - + Exhaustive search
 - + Source Routing

- IPv6

- + ~~to~~ 128 bit address
- + No header checksum
- + No Fragmentation
- + Better support
 - high speed nets
 - mobility
 - Plug & play.

+ IPv4 → IPv6

- + Dual stacks
- + Tunneling