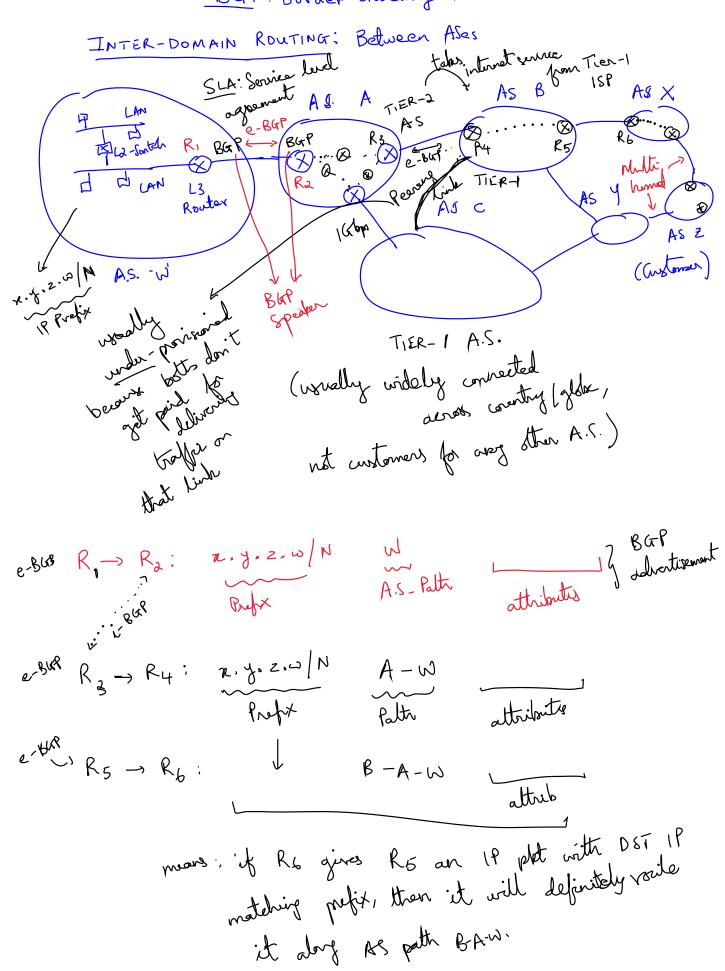
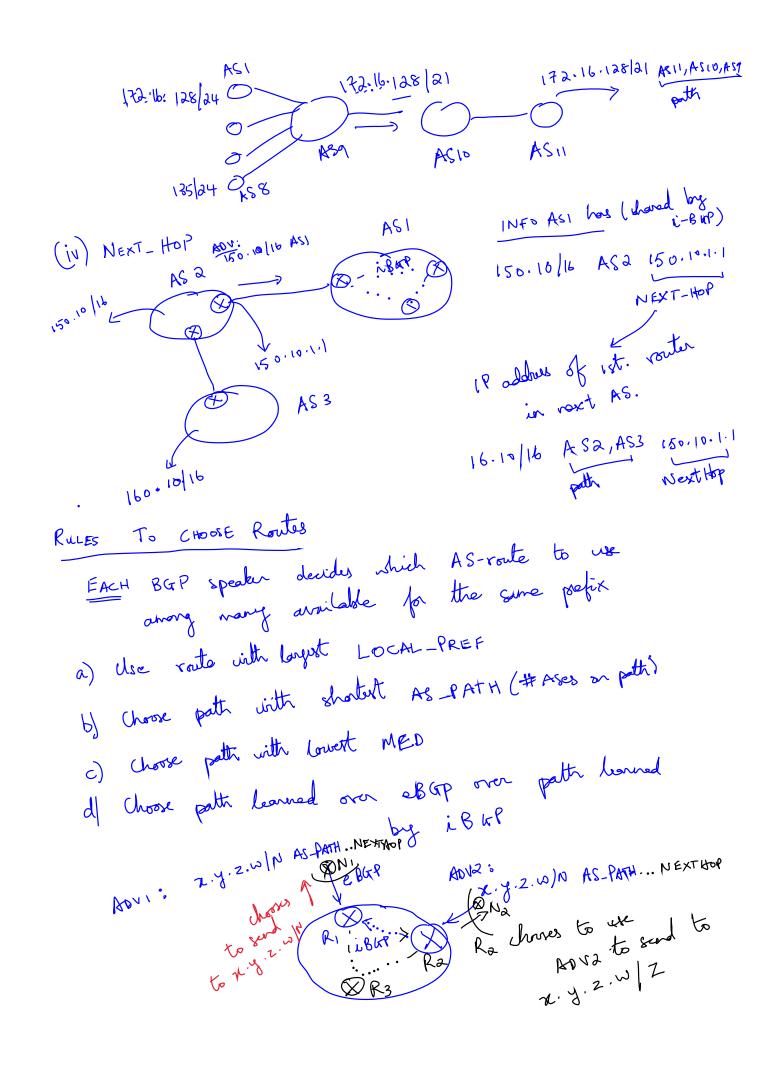
BGP: Border Gateway Protocal



B does not have to tell (: that there is
a path B-A or B-A-
C-BGP: Proted between BGP speakers in diffrent (reighborny) ASes RI RI RD TCP port 179
, save A.S.
BUR De l'A TCP conneilvirs
I GP: Interior (rateurs) Protord (Intra-domain voutrip) Steps to decide But putter (i) e-But speakers learn AS-paths from reighbouring routers in other Ases
[1] e-Bup nodes share learned stops. AS
(iii) BAP speakers solect vontes to various IP prefixes
(ii) Bat speakers soled voites into IGT (since all vooters (iv) Insert chosen voites into IGT (since all vooters must be able to forward plets AS. I must be able to forward plets a destandaria IP) A. J. Z. W/N No 8 are No 8 ar

(v) eBGP speakers can advertise nearly greated routy reighbourg Ases 172.16.1 a4 Bar attributes (i) LOCAL-PREF MDV: 172,16,1/24 AS3.... Admin of ASa adds adds local-part himself Higher LOCAL-PREF => more preferable path (ii) MULTI- EXIT DISCRIMINATOR (MED) 172.16-1/24 APV: 172-16.1/24 ASI... MED=1000 (S)R1 As a ASI is telling ASA: I prefer that you rend ne plots for 172.16.5/24 on link R4-Ra [lower MED] (iii) AS-Path: hist of AS numbers all the way to the destination with that 1P prefix Subserver first adv. that IP prefix



e) Choose path with lowest IGP metric to Newst-Hop Suppose dut (R3, Na) > dut (R3, Ni)

=> R3 Chooses ADVI

HOT-POTATO ROUTING

(f) Use ROUTER ID (borret vouter ID among all BGP)

Speakers who have Sent there ADV)

ROUTER-ID = highert IP address on vouter