Routing Protocol Routing Protocol, say to food Intendomain Intendomain Distance Link state 10 (BGP) (RIP) (OSPF) 9/2 not bosh ylvommo sloot was soft packet nowlen a only our Routen you ANGER Soft way to packet distribute orging AN internal network so MOII very Routing table use Table include, - Network so All value store org - cost node (somertion em to cayo em (out). - Cost sat static Routing table. Add data manually. Dynamic à à : Update data automatically cocons Routing table use ou 20,

Internet is a large system. On system a network symt Routen con store Connected 2100 soro autonomous system oth i suppose s-dill khulna (Ny (N<sub>2</sub>) (N<sub>3</sub>) (N<sub>3</sub>) Autonomous 1 Antonomous 2 Intens Domain. IIII By It Autonomous system. The Connection 20 of data offer Ama 20 1000 and one autono syst. Intra Domain: TINTA COOTE ATO Autonomocy System Cro Ald data WIMIN GMIN OF SIA ROJAO Networking Pa apopulo 271 who within one Autono. System. RTP -> Real Life Protocol (Data sharing inha domain)
OSPF -> Open Sonted Path first (Link state:
BGP -> Boander Grateway Protocol These three protocol works on unicosting.

Distance Vector Routing (DVR): ONTHON GITTA, Routen vo mo rell store short distance a data algran, needed , Detail information cro (37) Routing table Routing Table Dest Dist Next N2 1 N2 Dest Dist Next 9 Ny 1 4 000/11 N3 00 -6 | N3 | 6 | N3 | N5 | 00 Dest Dist Nent Dest Dist Nent MIN SOUTH N 6 N2 Director No No On Ny no N3 10 M3 MED STAB POR Marino 180 91 Rowlen sam an worrow soll Routing table (Distance Noeston) share of Connection 18/20 or condition: - share only neighbour - share only distance rectoning south some

CINA, NI-DN2 18 Printed to the state of the  $N_2 \rightarrow N_5, N_3$ N3 > Ny, N2 suppose No and No cas sures rection build orgain Ex. A+ N1,9 My NEW R.T \* Na > N2 and N2 > No N24 Dest Dist New cost = 1+0=1 \* Ny > N2 and N2 > N3 cost = 1+6 =7 \* N1 -> N5 cost = 1+00 = 00 Lets another enample: \* NI > NE and NI > NS Suppose Connectin between cost = 1+3=4 No and Nr. Hence No & My distance will get to by of the shoutest areas By costs by all all all all N2 9 Ny 158 PONSW bont N57072-777 

Link state Routing: Routing table antone (3) R<sub>1</sub> R<sub>2</sub> R<sub>3</sub> R<sub>4</sub> R<sub>5</sub> Y R<sub>4</sub> R<sub>5</sub> Y R<sub>4</sub> R<sub>5</sub> Y R<sub>4</sub> R<sub>5</sub> Y R<sub>4</sub> A R<sub>5</sub> Y R<sub>5</sub> Y R<sub>5</sub> Y R<sub>6</sub> Y R<sub>4</sub> A R<sub>5</sub> Y R<sub>6</sub> Y R<sub>4</sub> A R<sub>5</sub> Y R<sub>6</sub> Y R<sub>4</sub> A R<sub>5</sub> Y R<sub>6</sub> Y R<sub></sub> blind portonion of the propertion build word Routen was overage hello crous entre details ित प्रमा Neighboun कि वलि वापाम अवामिष Commeded. Link state model a Routen Connection build packet sharing woo color Flooding method we and i met shoutest area RI (alo Re day Catarino क्रिया Digrastia method use करं २ए। Enample: Source Ry R3 Ry R5 R6 (Destination)

R<sub>1</sub>R<sub>3</sub> 5 3 0 12 0 1 R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>R<sub>5</sub> 1 R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>R<sub>5</sub> 1 R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>R<sub>5</sub> 1 R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>R<sub>5</sub> 1 R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>R<sub>5</sub> 1

R5-312-611 21 4/20011 Distance  $R_1 \rightarrow 0$   $R_3 \rightarrow 3$   $R_2 \rightarrow 5$   $R_4 \rightarrow 12$ Rb > 16, of all finding. Via: Ri >R, Ry > R3 R2  $R_2 \rightarrow R_1$   $R_5 \rightarrow R_3$   $R_3 \rightarrow R_1$   $R_b \rightarrow R_3 R_5$ sibutes: well known admibutes! BGP (Boarden Grateway Protocol): It is an intendomain nouting Protocol that uses path vector nouting. Types of Autonomous system (As): i) Stub As: It means only one connection with two another autonomony systems. Alta corto कार या किया कार मा मि प्रमार देव रह ता रहे Garlo Via data transfer or of strendiomoralis ofini phituo. A [Ask Tonipmoners not all the 11) Multihomed As: gt has more than one connection to another As. But same as stub. Via data fronter out of other of AS2 AST ASS

(iii) Transit As: It is a multihomed and to allow to transmit data via it. Path attributes: well known admibutes 3 Eveny BGP Routers must Recognize First Attributes: BGP Sessions: It defines with 2 types: O Internal BGP (within As) @ Entennal BGP (Outside of As) Speaken Node: A Speaken node is a nowlen within an a As that is designed to communicate BGP information with router in other As. - 9+ runs Byp Protocol - Responsible for enchanging BAP Routing info with another As via external BGP. - octs representative of As to the outside world. A) Enternal BGrp