Date:	
CSF421- Computer Networks-SFQ	
Lecture 17 - Routing Algorithms	-
* Autonomous System - group of networks and routers under the	author
of a single administration.	
* Routing inside an AS-intra-domain routing > Distance V u between AS-inter-domain routing > dink State	ector (OSP
* Routing Alam classification -	
(1) (tobal- link state	
* all routers have complete topology + Unk cost info.	VOTING
> gathers information about the network before	-
making the routing table	
400(11) Decentralized - Distance Vector	
* routers know physically connected neighbors & the	20 (2.4)
* Distance-Vertor Algorithm-	11
-> contacts its neighbors + exchanges its routing table	
(1) each node periodically sends its DV to	פאבעקו
tall wetwoerks have constrainty	1/3/00
(1) when a node x receives new DV estimate & TX	He die
form reighbor, it updates its brow BV using BF eg (x) —
(111) Periodically - broadcast the entire table to each of its heigh	abors
every 30 seconds (RIP) -> inefficient	1
(N) Routepis only aware of the N.A. of its own interfaces + N.A.	- 36
the neighbors running the same routing protocol. > unawa	are of
remote netroorts.	
* Network Discovery- enables routers to learn about remote net	hoons
for the first time.	-
* Cold Start - powering up the router + empty routing table	
saved in NVRAM Sends updates about its known networks.	

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	* Router notes down the information of the directly connected
	ueboorte in its nou muting table - KIP command
V=10-11	D Thimer passive pare
100475	
01-1	(x)
4) 401	Paolo R Seofoto R2 sofoth R3 10.4.0.0
7420)	10.1.0.0 passive 10.5.0.0 10.3.0.0
- 1	Enterface
	Network Interface Hop Network Interface Hop
Initial	3 10.10.0. Facto 0 10.2.0.0 Sectoro 0 3 mitial
71111	1 10.2.0.0 sectoro 0 10.3.0.0 sector 03
	10.3.0.0 sectolo 1 3 TI 10.1.0.0 820/010 1 2 TI
	10.4.0.0 Seofofo 2 3 T2 10.4.0.0 Se ofof1 1 5"
	· garal supplied - paciforduna () no sin T2
strell 4	and be anadysian hanetwork ill Interface Hopeanding &
اديران	10.30.0 Sé of of 100 2 milial
8	10.4.0.0 fauto 0 3 1111101
Alter ive	Halizing, 100.00 se of of 1 1 3 Ty
router	
	uging.wf 1 standtes the standard what has a call of a company that the call of the company that the call of the company that the call of t
Touters	unt Ang
	* all networks have converged— all routers
	table that complete muting tables
	to converge & size of
- Zrow	as passive
	interface -> R does not * Kouting protocot's are compared
-30	send routing based on their speed of converge
jo, 2 m	* Newsork is work combined
	Disadvantages - operable until has converged.
241000	* Sending update every 308 -> you do not have complete
	even though there is no update, still Enformation so cannot route
	getting souter tables from neighbors packets.
	congestion in notrook 1 Bandwidth wante 1
	* speed of convergence shas no stopping criteria
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