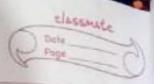
5) Broadband Router provides high speed internet access to computer. A Benefitz of Router of the same and appropriate the same 2) Penjoumance Enhancement
3) Reviability 4) Metworking Range Routing Protocols 1) OSPF Open shoutest path forst. a) BGP Bouden gateway protoco) Intenton gateway Protocol. 3) IGRP Enhanced Interior Gateway Protocol 1) EIGRP Extensor gataway protocol. 5) EUP douting Information Protocol

	Features
-	) works on 3rd layer.
7	The later of the second states and the second
2	) provides high speed connectivity
- 1	allows user to configure the pout.
	puovides reamidancy.
	Types of Routers.
	acount ofter supposite unitable fragues withings of
_ 1	Wireless Router.
)	Combination of buildge & router, coalled buildages
	Compliantion of buildes & muteu coulded builded
-	combination of buildge & routen. coalled buildging router. Can work on data the layer and
1	network layor both.
9)	Com Routen
c	an noute data within you but not between n/10.
4)	Edge Router
	lso called access router.
	ennecte internal n/w to external n/w.
	to be a most institute and the same to
	ypes -> Subsculber ER, Label ER.

	RIPY! VS RIPY2	14017 111 111
井	RIPY! VS KIP	RIPIVZ
		KIPPE
	RIPY1	· Oanship harton
7	Classful Routing protocol	-> classless Routing protoco
	10111	- It does send Prop of
-1	does not send into of	Subut mask.
	does not send into of subnet mask.	-> Et does send Prybig Subnet mask.
		- multicasted.
-	Routing updates are	1
	Routing updates are broadcasted.	The second second is
		A LA LACOSTO
-)	No authentication	> Has Authentication
	does not suppose VISM	-> supporte.
		- More Secure.
-1-	Less secure	7 7 7 7 7
		- provides .
	Does not provident tolggen updates	
->	classless Interdomain	o supporta,
	Classless Jutendomain	110
	Routing	Malla Manage
	January 1	Stands 1300A
		mandal stra
	Advantages - Nonday - 1	Most to Tomas
	Advantages, Disadvantages.	account success
		12/11/14 /14
		small but portraits

to 1 4 1 mars Frage 9 100 # Rowling Table determines the path of a given packet with the Hu souters have Enternal memory Known as RAM (Random Access Memory) I see information of northing table is stored in RAM Interjace Subut Mask Destination 255,255,255,0 Etho 2001.2.0.0 1113 Eth 1 255, 255, 255, 28 200.1.2.€64 Eth2, 255, 255, 255, 255. 200.8.2.128 903 Louise 14,75 Ways of maintaing Routing Table 14013 1) Static Routing 2) Dynamic Routing 171 6 # RIP - Routing Information protocol. dynamic routing protocol which uses hop count as routing metric to find the best path bho source & destination you.

3 reusions: RIPVI, RIPV2, RIPNG



Elgep Rocetes	AD Valus.
Sumony Routes	5
Juternal Routes	90
External Routes	170 http:// - 1994 Attest

OSPE #

Open Shoutest Path First.

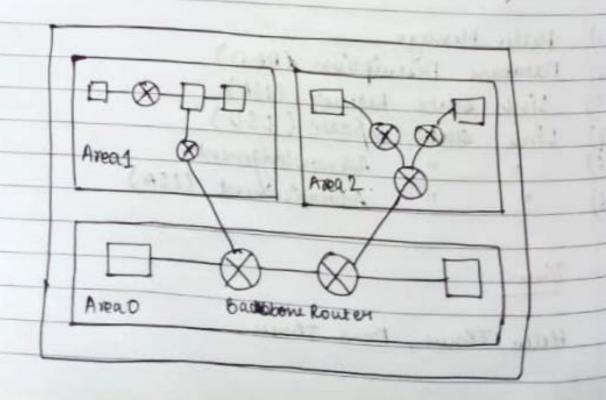
It is an Entradomain protocol.

-) It used within an area or a network.

It is an intensor gateway protocol that has been designed withen a single autonomous cystem.

) It is based on the state Routing algorithmi.

Areas



JURP VIS EIGRP	Don't by wing the
IGRP:	EIGRP: 11
ntenson gateway Routh	g + Enhanced Intention Gateway Routing protocol.
assful noutling technique	e 4 classess routing technique.
	- fast convergence.
used foud Algo B	→ Dual algorithm
eds high bandwidte	
ast hop count is \$55	To reast hop count is 256.
vides 24 bits for dela	y> 32 b?+3.
GRP Messages. & Tin	urs!
llo Message	1) Hello Timor
III update	e) Dead Timer.
rial whate	
vy Mussage	· prince 1,
ly Message	
nowledgment Message	
	assful rowling technique slow convergence sellman foud Algo B used  eds high bandwichte ast hop count is \$55  victes &4 bits for dela  URP Messages. & Tin  Up Message  U update up date up Message

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0				Q Por
	- Grand	HA .	-strag	August .
	Jeatures	8	SELECTION ALL	
-1	Wide scope - multip	All III		
- 1	Fort Cause	ue nerwi	our stae	8 41
	Fast Convergence			
_ b)	Loop Free - avoid ~	ouring to	ops.	1
-1)	Area based n/w pau	h° too	1427 14514	15 14
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	KINOVL.		
6)	ECMP Rowling - numer	iple equa	L cost roc	ites .
6)	Routing Weraracing	Elisa Si	- Sudtike	2014
	and the property	INT. INT. INT.	- None of	-
7)	Authentication	Sandale	7.54%	has
6)	Supports multicasting	10022	M sie s	150 4
	Messages / Packet Forms			
-	O .			
1)	Hello Mussage			
-2)	Database Description	(DBD)	)	_
3)	Link State Request	(LSR)	1 12	-
1	Link state update	(LSU	) '	-
(1)				
6)	" Adve	issemen	+ (LSA)	
1				
	Tenery	100		-
		V	1	4
	Hella Temus Dead	Thur		AHEL
30	Link state update	wledgm Wisemen	int	4

## Advantages . Supporte both 1844 & 1846 load Balancing with equal cost VISM & route summanization Unlimited Hop counts. Classless protocols. BALLE BULLET IN MINER OF LOURIS A OSPF Packet Veusion. Type (8) Musage (16) Source IP Address

Source IP Address

Area Identification

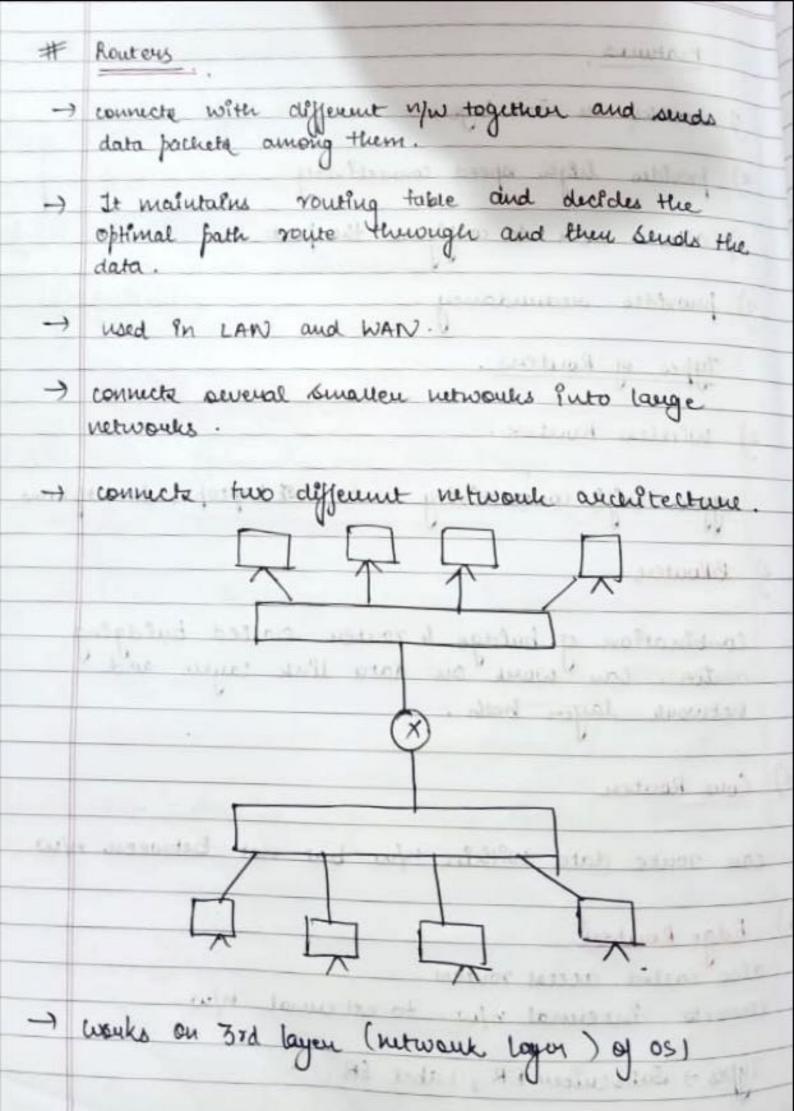
Check sum Authintication Type

Authintication (32)

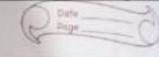
author to poloci de malia

Con authorized against and a

which edited



井	similarities b/w 15-15 and 05PF			
1)	Both are Mus state protocols			
2)	Book are used to weate heravachical structure			
3)	Both supposet unlimited no of hop count			
4)	Both are classless nowing protocols			
5)	Both support authentication protocols			
6)	Both are IGP (Interview gateway protocols).			
井	Defference b/w 15-15 &	OSPF. MANON AMONE MANON		
u.	OSPF	15-15.		
	Supposent four to	-) doss not.		
	multipoint link.	124-1		
->	runs on data link	-> Network layer		
	layen	(CIE)		
-)	Bupporta virtual 1914s	-) does not		
100	Lated marks			
,	uses Router ID	August The Street		
	Marie Control	→ system 1D		
,	a he i sia	Ten)		
7	can belong to multiple area	-> single area		



- -> Inaffic Engêneeuring occurs outside the actual network.
- -) From the actual network, traffic necessarinents are collected to estimate traffic matolix.
- -) Topology and configuration are also obtained from the network.
- -> The computed thus weight is injected into
- -) lacu nouteu receives metrics pou les outforny links.
- -) Once the souter receives these links, it them disseminates throught frooding to other routers through ospe
- Just means y no new link weighte are obtained from the trayic englueving system, the rower will generate a new ISA.

3 ballos activipales to

( Jutermediate System). Jutequated 15-15 It runs alrectly over layer-2 protocols: to provide traffic engineering capabilities. An address to identify is is called NSAP (Network Survice Access Point). system means routen to router. Features. Open Standard (OS) Manufacte Routing Protocol VISM & Manual Sumnary Works on Dijkstra Algorithm. Protocol Independent. 15-15 defences 4 protocol Pacheto: Hello Packet Link State PDU complete sequence number PDU Parital sequence number PDU.