192.116.0.0116

K2.168.00-19-168.235.253

ชื่อ-สกุล รัชริงาา

120 y June

\_กระดายแผ่นที่\_ใ\_\_รหัสนักศึกษา 50010215

for Staples Default galettery Romanica was wrong Router

Network Documentation visibinous's

- Device names
- Interfaces
- IP Address, subvid
- Default gateways

192.168.3.0124

192 168.20124

Device R, R2 PC1 PC2	Imerface Frolo Sololo Frolo Sololo NIA NIA	IP Address 192,166,1.1 192,168,1.2 192,168,2.1 192,168,1.10 192,168,3.2	255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0	Default Godoray NIA NIA NIA 192.166.1.1
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	Dynamic routing   St	atic routing
Configuration Complexity	Generally independent of the network size	Increases with network size
Required administral knowledge Topology changes Scaling Security Resource usage Predictability	Automatic aphapt topology simple   complex topologies Less	Move

classifying Rooting Protocols

Type of routing protocols

- Interior Godenay Protocols (IGP)
- -Exterior Gaterran Protocols (EGP)

IGP

- vouter Alika vis Louis ão sisimpontionistrupas, vidas - Distance vector
- -classful Talls subnet mark grams Edvar
- Clarestess to subject water framing loon

for Staples

for Staples

- Pouter all Distance vector routing astalishamy arrana tolds destination network assistance Langues of interface of packed sing forward & poor: sie: sien interpolation network - Distance Vector routing protocols 1: I'ms share
  - 1) Periodic Updates: RIP donner 30 ham, IGRP donner no diesel

2) Neighborg: Sha routers Link was an config aurouting protocol strates 3) Broadcast Update: 9: 917/1/17, 255.255.255.255

47 Entire Routing Table Updates rightstat, neighbor adalision

The purpose of algorithm industrial update a charactest path, source Turnimon from topology internalis - mously router (cold start uso power up ) grant fills obsides to we troplay is a dopo

voi Saved configuration file difudulu NVRAM

- ution of Rober is never cold start hours in mount of boulous for issurious directly compeded networks are subject make now tradout along messalogy froll routing table

- + to Louting prototol grations refered the six more rester routing updates

- speed of a chieving convergence vi rovolou i missos router humans no hold of solousque ed of milder topology 2. nost 2 human acontinue to the propositions of the most respectively

Louter table undtenance

1) invalid 150 sand metric of 6

2) flugh 240 int 12 moderning Boom no fouting table

11 Hold down fresteshung 1009 00 2 popology July of an Affect & Sofran

-EIGRP 4: Lamburga sur bounded updates

- RIP by trigger update der, is motivan modestilune & mollandels abuntarlace; Benson 8: Warned lusmas unreachable , & Sunsly 2

-routing loop studeren: Bepacket opsecholoop Paulinens Not from to forting Loop · miloster routing loop +: It hold down there wie split horizon (vouter vildingtuism Whillis interface & Instruction other, router fearned through and interface are not advertised our that some interface) ato Rote Possonly another marketen 13 \$1 1/2, instrumentally router \$15 to providers learn ent through an interface and advertised back out the same interface as unreachable ) who split horizon with poison reverse

- time to live (TPL) Wafeeld down 8-bit doll ulp header dollars & hatman hop Loll Temphinners busy of

Dictance vector forthy fotocols today - m sistered routing protocol Futuremos network, compatibility rules protocol router Knay ros go, cos

16 2 Marin & by porton or; Eby prospon my borson service fruito from 2 (Reloops, netvices Britad is hops, Himbalicions. Furebrokeness is PIP V2 120 1 Josubnet mask Nobel 2. Drive Adihen 3. July VLSM +91 Multices? address some broadous?

of a country protocol of circo John Mol Stondard was RIP, OSPF (multiprodom) - E16 PP IGRP Huckssless

OSPF (Open Shortest Path First) Massurvantar una Raramontador (subset ) blrowing occultate state no Routing loop 4. Ed h retire of Protocol Illums has also sonstand Whomas north surveiling OSPENBONKum JARNESHASN Daves Boughi gu yourso

OSPF nebrle : Reference Bondwidth Petault 100 M

interface type	Banduldth (bps)	1 OSPF Metric
Ethenet	16	10
Vince	[00 M	I de la Trail
	10 M	50
Moden	2 W	100
	1 m	508
	250 /2	100
	62500	1,600
serial	115200	868
	57,600	1736
	38,400	2604
	14200	5208
	9100	10417
V) The same of the		WS1 DU2

Jool

-Hierarchical network

- It Diijle Ara (SPE) donta Routhy Loop

- Classes Roving are CIPR (classless Interdomain Routing)

- va Loute summization adopt various Pouting table to

- Is multicust Address mends bouting update nine Broadeast Address

Noise Marsefrance Design, Ance, LSA Type, OSPF topology isosite water

EIGP DAM: good igland

ACE DEL REDUNDANTA UNA CACCES CONTROL ENTRY : ACE ) DIANTISABILITA MAN PREKET DISTANCIANT ACE DEL REDUNDANTA CALLANDE CALLANDE CONTROL DE CONTR

Standard Acces list and accessing the standard Acis guardard 1-92 oct 1700-1795 1414

של ציות פנים הוצר שיון בין בין ביו ביום

Extend Access list villasm ACE to Traffic ain I paddress voorgandinsisse disconsissing

Browners Acti rosed, but I not traduced and to

inbound sutraffic on the interface

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- In o "come bit" dos Match

- 2 × 1 - Nort case Bit ~ Idolos match

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ext v. N & 00001111 description of 200 of 20012 v. duo. Ish of - 192.100.100.0/28

od lams mass wild could mask post

37.800

- 1 interface Italia indoundate outbound into unstalises I routed Protocol
edu i pripx los networe duais

Granswarpy of Beplus is To VCE in VCE Was roughed to transmissions

- Megla Act manon Vers dazal willstropentow Ver Hills year

ded biedly bable

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Switch 1) Learning: Suframe wis witch vister Source Mac Address Signonia Port lun treset aging Switch Operation 27 Aging: Orgon Mar Address on war in

3) Flooding : of Frame ODANA port to switch airraments broadcast, multicast, unknown unicast

47 Formershing: 2171 do destination ( 152 Dest of Jutable)

5) Filtering : of Intrometable Dert and port of Lumit 1 Dest (source Edect vusane interface)

a Mins Filtering Switch Method

1) Store & Formand switch- Check CRC Six error lus, auto buffer

E) Cut - Through switch + Check form: 2001 da (Dest, source orbitos) 12 byte NEN)

Switch Donalds: 17 Collisson Donalds - Donald showed a travalle lower a & switch it note and

27 Broadcast - Donat and a Broadcast rod Donain effective loter of @ rector older older default Gateway:

Config

s (conflg) # interface vlan (num) S (confry-if) It ip address (ip subnet

- no shutdown

s (confly) & ip default gateway (ip

verity

show int

mac-adoress-table

startup-config

Version

running - config Nistory switch by to Loopback . Pravactive SVI ( switch virtual propose)

Config Switch Port - Duplen Communication: 1) Full 2) Half (Switch monopromosition was a formation) intf - s (config-if) # duplex full - s (config-if) # speed 100 (1988/speed)

Auto-MDIX . Il & suitch + 9 (merpanta dio cross-over - effection mone) with inf - s (config-if) # duplex auto + s (config-if) 1 speed auto - s (config-if) # maix auto

Switch security SSh TCP Port 22, Telnet : TCP Port 23

Config 5 (config) # ip donain: name (\$0) + it cryto key generate rsa - # username admin pass (cona) - line uty o is - - line ) It transport input ssh - line) & login local [verify ssh: Show ip ssl, showson]

switch part Security runa policy indu Mac Addr. Munch -conta - Talla

S coonfig-if 1 # switch port mode access - # switchport port-security

+ mac-oddress (MAC-ADD) static

rest 65 2 3 Mar & MAC: # Switch put port-security maximum (MA)

- Sticky Dynamic

Violation made: 17 protect: Security violation protect mode

restrict mode - 1201/6 installa chook who

3) Shotdom: Shotdom mode - default

ARP : ARP Cache shunac Adardi map sum, West. (14) suonoloso MAC gateway)

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LAN Redundancy & Spanning Tree Protocol (STP)
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STP - JOHNE UN Block port - Block Da oblinintraffic du baobrite, un guron is in foot Bridge . Law priority min Rule: 1 RB/INW IRP/IRB IDP/segment 27 w Path cost all & ( o, in BPDU : Bridge protect deta unit 1 - \$ RBE source ( soz. 1 D 1 ) 3) we Root port - path cost min - Fredomila Destination Port 41 les segment & Path Cost inity - of BIO with the Acstination port - drainty Block Port

31416 (1800 6 year 11 BADA Ered (# briority goods) 5) BID tongio

37 Path Cost C

4) senderic Bid (

SI Sender's PEVA (

| Config Si (config ) # spanning - tregi VLA N I rook primary Se (config 14 spanning - tree VLAN I priority as si, se ila Es s, (config ) & spanning-tree VLAN I root secondary (verify) show spanning tree

VLANS & Inter VLAN

VLAN it partition airisect : oga es: Now or broadcast domain the victoryer 2 15.800-

-robroad cost traffic Survey of som

Inter VLAN only had one VLAN exertenta bredford Layer, in faithe Roster, su Layers, filteren Trumport xoboom of hispers societar VLA 12 3 d

VTP (VLAN Trunking Protocol)

folians manage vlan memorage Juguitat vellum ranage Jus Donah

Oberegion unabyers AL + 3/100 horson nomper so Py 1900/201

L3 mode 17 server + 25,3, remove, rename VLAN motoba Domain scroper 37 27 Client - Butons VTP in Process it's utp ressage contribunde 1) Fram propert - 150, remove, remove bealtreates in proceedings as a

NAT + ride , printe ip - public lead ip

11:600 - MAI DER for state of other from the man in all the of the med than one than Enhearen 1 I rapid a tolouren moethers.

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for Staples	EIGRP	IPV6 & Digtonc	e Vector Room		State full	faderical Protocol	Path Vector EGP
	Classful Classless	-	12 EIGI		OSPF V2	15-15	BGPV4
	1906	e I bu	EIGRP	for IPub	08 6£ 13	IS-15 for 7PV6	BGRV4 for IPV6
	- Oval (Di - Establish Adjace Reliabl- Partial Equal	h Neighbor encies e Transport I and bound and Uneque	date Algorators  Adja  Protocol  Al Cost  R-confls	concies one  RIP Pr  REP an  REP an  REP an  REP an  REPAN  REPAN	ovides deliver ad reighbor ad admin Qualiture admin Qualiture	the (ID)	ed by DUAL (To a. Maintain)
for Staples	show !	p protocol	R- I confly	1 H A	CVA Youter	at-number injly c	and-rask)
	5 how	ip eigrp +	Astar reigi	nbors,			
	show	ip asset	- protocols				

show ip route