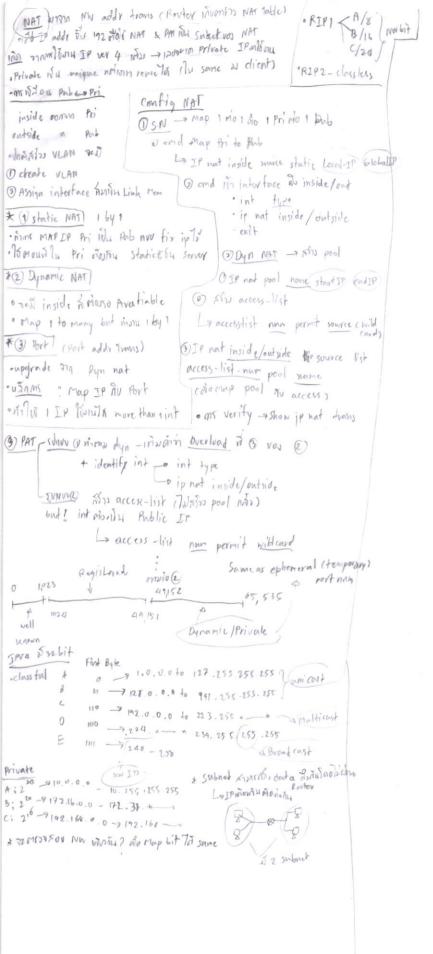
* NW odds to phy, Logic, MAC, Port (one Layer) of LAN Tuning iton compres NW पर्व, प्रमाध्या MARIPOR กระดาษแผ่นที่ 👍 รหัสนักศึกษา 🖵 Jaingle group of ply canuly NW - perice - O End device @ intermediany device @medica Pry diagram - mwssum shurboon NW (design mustal) - surro topology adducted Logic LAN & admin Agin NW Connection - Topology onevisor (346. cum)
- protocol - ngs-vouv à l'ésextul um às data la NW (militarlosal la NV quitil A Type of NN INN component of the & SW & Tomponent of new = Topology Playram Copic Reliable NW) Domusiaus /41180/10 " LAN Sp. M Su(2) म निर्माण अपने हुई हमारिक data @ Fault Tolerance @scalability romarbly My Smish scale up To (3) security - intromation, 1) we necess inmotion /4 Long doll + 7-104 Media dependent MEAT 15088 12 10 36 VALLED VALLED - GONZA VALLED VALLED - GONZA @ auality of source ARP No addr Resolution Protocol Lams weight motione Nw IN BW mands custoboom;) LOW MAC Tui IP (Mapping) · Intermediary NW Device . - | Note onalog working my my (Accessing Logical Resources Amplifier (word make dogs) cmd (mo) · Hub Repeaters มากราฐา ฉ ในการสางกาง 90 ARP MAUN MAC heleuse AVI päjun T568(A), 7568(B) · Snitches, Brides non Digital renew - volus on AA BB ex an bet - mep server idots pigi data liboury Rowters Cycross AB Repeater * mromo a Koviny m not error - notally Reporter Collision PNZ SIMAC DIMAC SIP DIP SIP DIP (monthy signal indousing) 13 csmA/co ลามชื่อมูลออกแลก NH * Ping ๆ รูการ หองการเชื้อมครา Msg Delivery MAC Tu phy · min IP - ipconfig v route print - g way minson /arp - g mach inso MESSUL (1) Unicast D. MAC NILL Goteway @ Multlant Mipage mistorando type 15 ms contra switch & horb (com + conter) (1) broadoust name, Inslookup + of IPm kind or s B byte, MN 201 Agsigneds ! Router + Router obo · Enable IP on host static - Manual IP Addr (04) 722 bit Didedou class but word 72/6 (classless) minjularing IP in host by caute is OHCP) * connect Sevice * * Document - price name Fait Serial -Device LED (กตารฮนโรกเมืองคำน) no comulticast) - ger conter strike hos in best Path · Ruonvon NW Trudals -IP addr & Subnet . Iti The domain name (Mrs unique) - The Real IP Final of (Public IP) 1 Lossest cost Metric L petault 6W (Pun v condition 110 Ac Protoco) has client month why Pri IP/401-sunique Ley 2 Ala Show int brief · RIP (ost No hop count (distance) - niuno intotace Cisco sos) rinter networking og down -manage milliony · OSPF do Bu clinks (3) Ad into add in A Bourser Boms if cond down - mula security - Rowting 1) Lood Balenceine Rowling AUSINAS (no nostrut) Router & Switch 300+ sequence do Travarinos - ms and 2 12 min and (cost) Telnet admin ashirono -Post (Power on set dest)
-Run (MOS) RIP J 120 ,059F 116 0107V - 55H · lu Remote Ny Ronting Entries Liter Applicomin 1/2 Routing table - usuvia & Ip addy no next hop teratern Dynamic TEP CIPR CIPR State TS-IS MUKOMAN Subnet ISTAMENTIAS TOS Turouter anuns console port + headers a only console mode were limit and Tamany - It show, ping · muccomen subnet in LEGP -BGP format a.b.c.d/x - Privillage (enable) - 7 1 To and the fire It Blobal 14 prount uits Rovinian EIGRP og la DV/hybrid /adpance distance suche + Global do (config) # and Struct O contest sonsitive New # 12 orlist and Notational New mounts,

O and syntax

O and sy · (DR - Put v HW (update) type - standard > 14 mw - default - LUON NW · classfull - update me class idia over class 3 not keys & shortcuts Has Flooting street is hery in littles and - classicss - and subnet Baric config i hostname - more letter- no space - availlet, nun max #4 char 1) limit access - As pros secret. /Rouner) · 18 resente 200 John VOISO = VTP OFFICE MP reversion lever my for Staples vice @verify Connect & Save config (acroniou 1050 seg) in soute 150 Mar manual 103 ansign another switch in sew & not clear config an config mostimals อาจมีกลง reversion เลยอะการทำใน sys change enable password sthe Router path - static (Routing its, INNJOU) (tobito NW 13 ng you Home AW secret enable secret VTP Prunning - mili BW ANDUM dynamic (1/304/ h, lomisos) Console pur Honorain console Pht Forward Met Hatch Wedling har was 15 x VTY Blunow telnet entry Tuui AV I'V defaut L Exprass (CEF)



P

รนักรีกศึกษา

Switch Domain

· Broadcust Domain

Long port switch Dun broadcast domain

Snitch Port Security

o secure MAC Addr Type

O Static secure MAC addr Lo suitchport port-security mac-address mac-address

1 Dynamic secure MAC addy

La switch port port-security mac-addr sticky @ ideal subnet mash

MODE

Lo Violation mode (shuldown)

3 Maximum MAC addr

Lo switchport port-security maximum MAX

(4) Violation mode

Lo snitch port port-security who input vialation? Frotect Security violation 4th mode

· ARP in Map IP to MAC addy

- ARP-8 Dest 400 Local NW

· classless Inter-Domain Routing (CIDR)

t Fixed Length Subnet Mashing Vorriable Length Subnet Mashing

955.255.240,0 /20 255.0.0.0 18 255,255,248,0 /21 255,128,0.0 259.192.0.0 255,255,252.0 /22 255, 224.0.0 /11 255.255, 254, 5 /23 255.240.0.0/12 255. 255. 255. 0/24 255.248.0.0/13 255. 255.255. 128/25 255, 252.0.0 /4 255.255.255.192/26 255, 254.0.0 /15 255.255.235.224 /27 255, 255.0,0 /16 255.255,255,240/28 255. 255.255, 248/29 255,255,128.0 /17 255.255.255.252 /31 255,255.192.0 /18 255.255, 224.0/19

255.755,255,254/31

(Not Valid)

subnet planning · NN 161.246.6,0/23 161. 246. 6.0 7 512 IP addr

O TV 26. host The NW (Reg host)

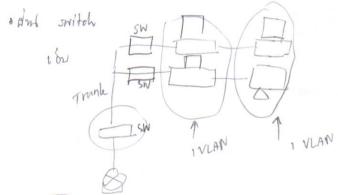
D m Max host Alnaidos -2

3) 1864 subnet work

. So virtual LAN 20 lu lay 2

· VLAN Broodcost domain Inogras IP NN VONTOID

· VLANS phot form to disciente router routino



OVLAN Trunk.

LO KIDITAD > 1 VLAN TO on SW MINER WE WAN INVITED Lo cisco IOS support IEEEso2.19

q VLAN num and 1-1005 config only invially vlan. dat (lu flosh) / Range

9 VLAN 1006-4096 config invlu running - config (in NVRAM) | Range

config 0 Vlan (id) name end

```
int_id
addr
     INV
```

switch port access

end

config trunk

switchport mode daess (mode sth)

mode trunk trunk native vlan id trunk allowed vlan id, id id (nouv))) trunk interVLAN do mix Lay 2 SN DEMISS forward traffic TEMPS VLAN ATDIX nowter one,

Router ounfig

> int 90/0.10 > encapsulation doting (10)

sip dddr 12V SN

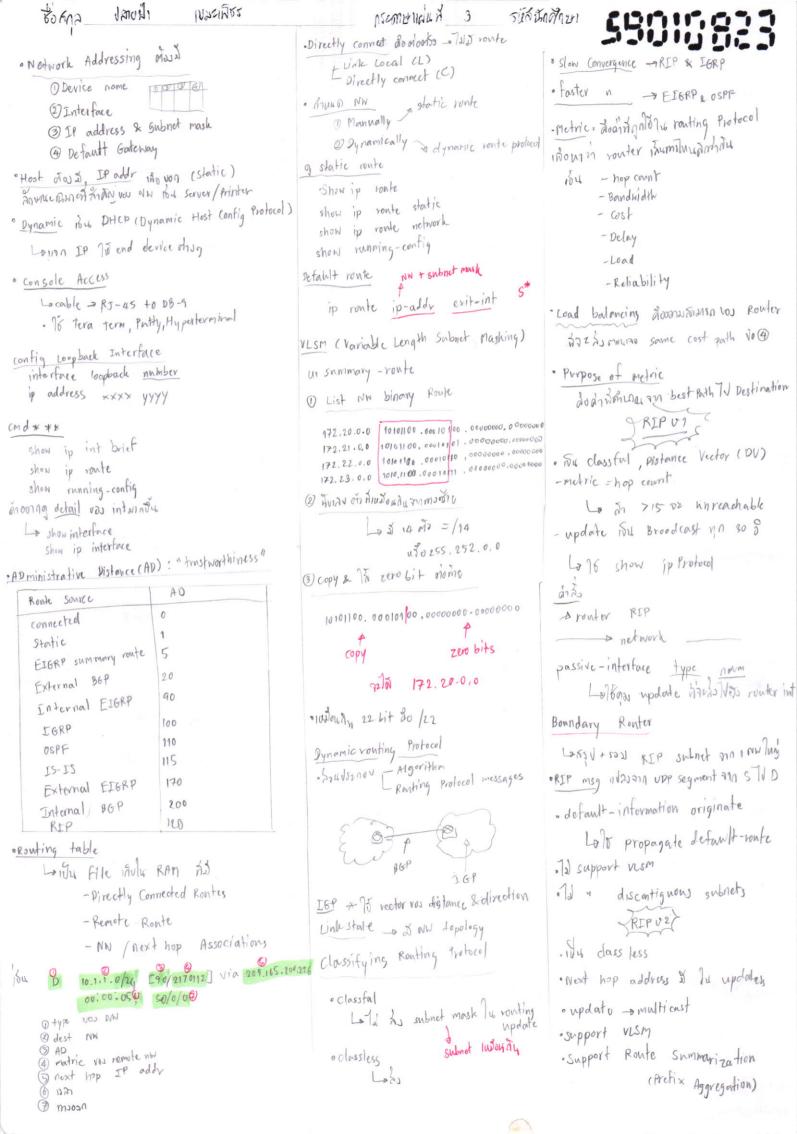
VTP (VLAN Trunking Protocol)

oil ms ? protocol To Lay 2 trunk frame & by 13047v VTP switch &3 mode - Server Client

- Transparent

mukonTvara · Vtp mode server sth uto p vlan database

vtp version domain name utp password mypassword



OSPF operation (Down State) · MINU RIP of To Router rip 11505 version 2 Establish 1 22 N Authorst Neighbor · mou 398 v2 & Ja auto-sum La subnet mash จะมีmoioriamevanily จันกับ exit-int & next-hop (init state) Adjacencies - Zuazv unicast (Two-way state) (CIDR) > IT supernetting (doesful NU) Access Control Lists CACL) Cexstart state Synchronize OSPF . วัดกรกรเหล็ง (Exchange State DB 1 Standard ACLS (Loading State) - chu source addr - permits or denins ("entire protocol suite") (full state) access-list 10 permit 192.168,30.0 0.0.0.255 Number of Ad = N(n-1)/2; n = 74. router · nowter ospR process-id -> (1-65,535) @ Extended Acls -chk is both - permit / deny "specific protocol," Milesian access-list 103 permit tcp 192.168,50.0 0.0.0.255 any eg80 router ospf Nwm router ospf Nwm Network NN Process-id wildcard default-information originate 12V ACL (1-99) & (1306 & 1999) - Standard IP ACL cost = reference BW/ interface BW (100-199) & (2000-2699) - perfended IP ACL * default ref BN = 128 = 100,000,000 bps 10 Glps = Walfard 1 Glps = Micha 4, 100 Mbps = 100,0000000 ip - access - group out Link-State Rowting Protocol (cost = 1) Ether=16Mbps=10 and cost=10 serial = 1,540 Mbps = 1,544,000 cust = 64 Drussy dom NN Eregril () n = 128 kbps = /128,000 = cost 781 1 sign post and s TVD Tailor 1452 POLOTANUE VOJ map vos NW M = 64 lebps = 64,000 = cost 1562 (3) 95 link- State information in ATI topology map 1/24/201 min & default BW vas OSPF 94 cisco router = 1544 Spps AGOND MA dest NH lu topology redistribute. @ munitalization for a large NH @ Fast converent you NW IN the crucial connected @ admin & anus Rodlink - state. elgrp 3 × 2 link-state 74 IPOZI ISPS 200 0×01 Hello netric 6) you is Verynomen ann Dijkstra's IS-IS 0x02 DB Manual OSPF Description(ND) 3 Algo in SPF (shorter Path first) * house 0x03 L-S RIP Automatic 224.0.0.5/6 Request static - Pynamic DJ3 dddr allow Meth · Atea o no biblebone area To san ipohop excluded -address MJ87 OSPF Pak OSPF ip dhep pool IP Pochet Header Packet subnet MAC & frame header network header default-router p&S~onsw Typecode amhayt 01-00-5800-00-5/06

for put