Home -> Virtual Nations

to create orthal moutine

Home-> Verhack machine

Go regource -s view um

VLAN Trunking Protocolin

ma01-02-1025

· VTP is a cisco proporctory protocal

· 21 we have

INTP Doman

- If you created van it will evicat it any other sight automatically

- But trunking should enable by they suither

> Suitchpal molt Trank.

- WITP Domain - all suchh worder vip aman

Used - to auto vian existion in all the Suithber who there is 10,20,30 suitch

STP-spanning Trunk Autocali STP werd to overcome took not eveale lupp.

(wp-Briday) Storm

STP remove this link / other line

- Suitches send Probe" into the notwork to find any loop.

Rocher

8 - Pouter Symbol.

o tilles in communication bu 2 for more reduons

- ised for smed org., Series: 800, 1800, 2800, 2900
- 2. Internet edge nuter.
- 3. service provide router.

#### composites

busis

- Interface - point where cable connect.

- 105 -15.9 versin.

- RXBOOL image.

- RAM

- NURAM - Youter Coying

- Rom

- flogh memory.

. configuration Register.

Routing.

- it is a process of sulling punt town doing with which the data can be transferd from source to destinction.

7 Static Rowing.

- Non-Adaphive Rowling,

- manually configuration needed.

- Gorrd to water and felling this Is we neighbor vocates, and this is .....

- youting table

Adventage

· No overhead - no cpu wage, cheap.

» no Pendenden - already feeded hers deba tronster isage blu rates

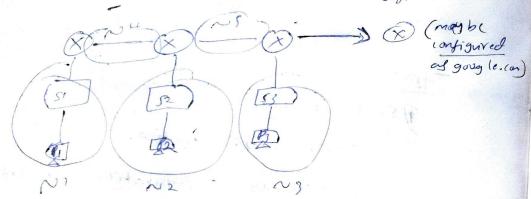
Disadventage

· Pithicult for large network . Admin frust have in-depth Knowledge

## hops - ) jumping hom one to anothe nuter.

### 2) O fault Rowing:

Or Hevant network

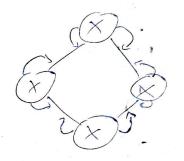


If he has he find P4 (not existed) we send it to different network.

- The a rechnique in which a router is configured to sent all the parkets to the same hop denice.
- The docent matter whether if bilongs to a particular rubions or not.

# of Ognamic Routing - Adoptive nating (of)

and indirectly connected to power poeter nighbor in Dynamic Routing



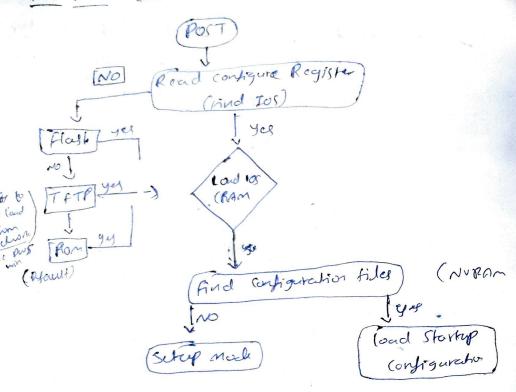
- Advantage - easier to configure.

#### · Dis advantage.

- · more expensive. Less source than dyaut & Stear's routing
- Here, youter adds a new router response

  fo the Changes in the cardinion or topulogy

  of network.
- Dynamit protocols are used to discover the new rates to reach the destination opposed like RIP & OSPF



#### Types of Interfaces

- · Ethernet 10Mbps
- · fost Ethernel Loomps
- · Signsit ethernet operate at 1000 mpps
- · Serial used for wan connections for 15P (beprecated).

In nating, things to configure which a periophop,

- 1. IP address
- 2. Subhet moult
- 3. Gateway IP address.
  - Gate way is the Door of the first router to got out or come in.
    - mention in Device.

Fasi (theret interface - 100 mbps -> 2811 &)
Gigabit (theret int = 1000 mbps -> 2911 &)

Therface (So we can range promy netronk) Then cre many interface)

pains configure Router Il configure ()and -> Router show ip rout. Stalic a naming the fast. - S Rady (corfig) # horname R1 But -> PY(contig) # ip 173.16.0.0 255,255,0.0 10.0,0.2-PI((anfig)#interfeue gigabit@thund 0/0 apposite Pa(copy) # ip address 10.0,0,1 255.0,0,0 pm2 - P2 (contry) # ip 192.16.7.10.0 255.255.205.0 Yuster Ports (land).) ipadras 192.168.10,1 285.255, 255.0 Dass Jolder He # no shuldown July (md rater cay, pg # exil RI (conjug)# interface gryabitEthernot O/1 -if) # ip address 10,0,0.1 255.0.0.0 IMP # no sautdown Ships to configure 2 router/more # exil sp only configured. D vool, configer Langue port 10 2 Por RI(conf.g)# 2. configure another nater network port & Rowling Do same for RQ

3 Po statie

will some

here

Dynamic routing. Two partigurations DI number galency Probotal DEXTHOR Galmay protocol. (cap) (IGP)

BGP (eBGP, : 8GP) IGP - Igp is used within a single "autonomous system" - An autonomous system is a network or a grap of networks under a common administration and with Common routing policies view in od)

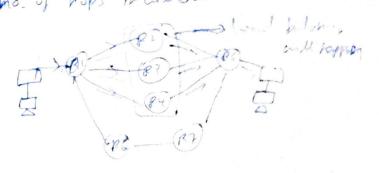
Ex & 19Ps:

- · PIP vI (Rating into protocol)
- · RID v2 (Rowing into protocal)
- · OSPF (open Shortest path fish)
- · EIGRP (Enhanced Interior Galency rowing proport
- · 15-15 Intermediate System to Intermediate system

provide valuable piper, uspf, Clapp, 86pmonte Lound Ale will and a plymen

Routing Information potacol VI (PIPW)

. Load balancine which padar all rator are home some no. of hops it will devide the



Broadcest - 255,255,255.255 Then new rater is added, new pouters neeghbors will andershot broadcast that " I have ner neighbor. here so on , ---

- open standard probotol supported in every networking device (dike: 1300, Juniper...)
- · classful routing protocol. subnetting no supported.
- · updates are broadcasted (even to mon-pip)

- melik hased on: Hop count

- maximum hops allowed: 15

- maximum routes allowed: (6(1+15)

- Enhire railing table is exchanged after 30 seconds

- Both ranter should configure with same version of App

RIP - V2:

- use multicost -> 224.0,0,9 will send to particular graps.

- Similar to piper.

- supports (cause parting protocol.

e supports. VLSM

= Auto summary ean be done on every rater

- supports authentication

~ mager updates

2) Dynamic rowling

RIPVI

-> "( orgin) # muter xiP

-router)# version 2

J# network 192.168,10,0

# nemark 10,0,00

# exit

# exid

Typen in word (one due)

2 Task-monday