for Staples

Chapter (Net work Over view

-Network dingram
-2 type :: 1) Physical port/interface law onions 2) Logical 201 ip

- Network protocal => TCP/UPP, FTP, ARP, SMTP, POP3, IMAP, ECMP

- Components of Natural (HWD end Levices

2) internediary Levices hub, suital, voular 3) network medin => copper fiber winders

CSM DSvitch Bernoon 2) volte in allana ya

Types of Vetwine Size D'small have no illusivation manodulates

2) Small office (Home Office => config available man Iman

3) Medium to large Novoda Mahr 100-1000 ides

4) World Wide Intund

intrastroline 1) LAN & population quis

And Agrivante & WAW (5 Reliable Network of fault Tolerance => MNO- Woman 2) Scalability

3) Security

4) Quality of Service

Layer TCP/EAQ OST Milm

OSI Mobil FCP Madel

7 Application

Appliation Presentation

5 Sessian

4 Transpirz Transport Inturna 2 Puta Lint Physical NV Accor Chapter 2 Busic Rouder Configuration

IDV4 solars

Picivate Abl. CIDR Puffia cluss A 10,0,0.0 >

172.16.0.6

C 192,102.0.0

116

Mac Addu. 466id = 12 mogr 16

for Staples

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Cisco Fos

Bit Sequence 1. POST

2. Birtlouder Sr mini Fos Biotstrup

s. Inst Flash & led Ids 5. lood Ids to RAM

Chapter 3 Static Parting & Dynamic Resting Pretical - Function of Routen 1- Topolog + 2-speel 3, cost 4. Security 5. A vailability 6. Scalability 7. Reliability - Packet Formuling Methols 1) Process switching 2) Fast switching 3) Circo Express - Switching Packet between NW in dest ip iou witing table vimoconlinier MAC of I det MAC - Pully Determination [Jest CP match sibnet] packed which in two ne Tratch wating table internel 5 (check ARP coids) renote my to (encap = nexthop) e Sefault + 9 drop paceled Is temp num S.IP - Best Path : love at metric - ask hop Ritting tufernation Protocol - Bu con Open Shortest Path fluit - Enhancel Interior Contento Produced 2Bw, Loke, but, reliability -load bulunchy Classful Add supplies on Class - Administrator Noton (AD) Class less não na silvaniamora connected 20 , stutical , Introval EDG RP290 MESM Routing Fixed length Subnot Markety 1) Static Porting ones 1) prefice 1) - 101 = 04.6/2 1804 1) well I wited openali (2 2) Dynamic 21 EGP (Eeteriar Galerny Pooling Protocol) WEEK (1) + 1/01 1/210 2.2 169 (Hateria

Chapter 4 Distance Vector Routing Protocal RIP va. 1 - Dynamic Rooting Protocal share into sous voter auto update vorting table

- Classiffing Routing Putocols

Exterior. Flaterian Gaterry Protocol (169) Pistane Vedr P. Link-State P. Borden Gade way Postocol -etran Vector Cdistance direction) complete no topology Autonomous System idelautor -incomplete viewus nutspilogy upade non periodic ninger 1.00 NOV 100 Size authority -periodic update citish boyed andoling (open shortest Patu First) Intermediate Syste Rotting Into P. Interior Garry Robby P.

RIPV.2 Fuhavehl ~

D Classful voiting P. -> update only class Taix's subnot mask havoling update

2) Class less > \$5 Subnor mark

- Convergen 2tgpe Slow: REPREGRA, Fasher (Duplard) EI GPA os px

- Routing P. Medrics

- Metric > Cost Hopcount, BW, cost, pelay, lond, Reliability

- bad balancing

-Almin Distance of a pooler (Ap)

RIRVI REPUZ IGRP EI GRP speckon. dow stow slow Scale soull not ont large Vish & 1 Resource L. L. C. Mel. implement simple 5th Sin complex

Chapter 5 RIP V2 & Access Control Lists

R tp n vs Class fol Maines subnet mask, Jasup Crox | Classless no sup discontigous subnet no sup VLSM renting update => broadcoast

update need hop del. OF authentication routing Rostin updace of multicust

torain RIP VI · bop back into spinold sip with out foreply har 104 virtual intf - Pull jutt - NEGRAL ADZIONER Changed mirablotion

RIP VZ

RAPANA Access Control list

Studen Checksource all Una permits redem vilga protrol

Ecten del -Che destrice - specific producilla

Chapter 6 OSPF & PHCP Link-State Rolling Protocols oins of Complete hap 120 strond est published hallo neibur, up isse into, flood USp to all neibur

EIGRP clussless vos IBRP abyage roms gunzung

Opt 1504 Itello 2) RSend Hillo ; Vpdr 3) Ry non

K, BU Kzlond kz Peha k4 Relinbility (Loush)

(omposite (KIX bw th3 x delig [x 25]

Complete

[KIXbWT (hzebu) + Kzzdelny) ~ [keliney]
(251-lond)

Successor Bird pan

Fersible Suc. Burning path

Reported Dist. distance on neighbor oindere port on

Fegalor Pist , distan Wino S



255. 255, 255, 252 130 214 255.255.255,249 612 129 255.255.255, 240 1416 128 30/32 127 155.255.255.224 82/64 255. 255. 255.192 126 255,255,255.12 126/128 125 25425. 255,255.2550 124