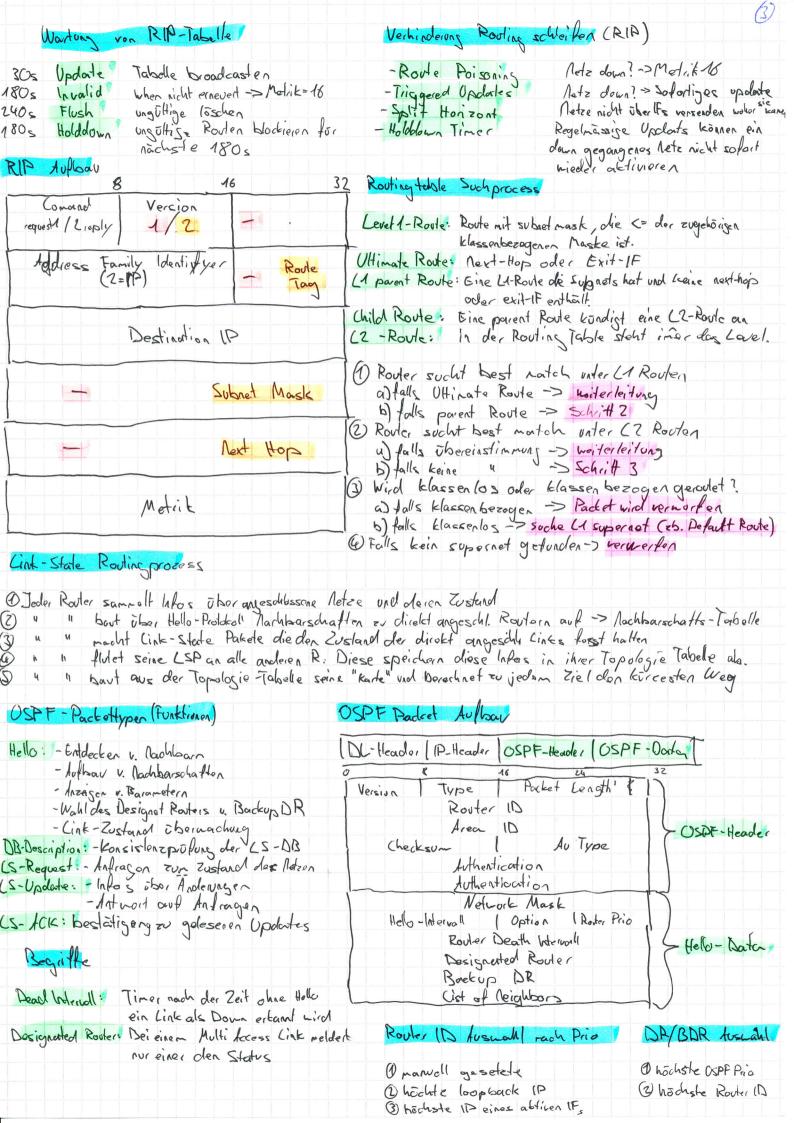


Ethernet Rahmen  \$ Ded. Mac 6b  \$ Sic. Mac 6b  \$ Type 2b (an welses (3 Piotokoll in France Check Seq 415)	nissen die Dalen übergeben Leiden)
Medium Access Condroll  - Stollt ein Sender eine Kollision last -> 1  - Alle anderen Sehen in den Backolf - Zusten	1th-signal
	ein Rahaen haben muss un kollizionen testeustollen)
Ethernet Grerate	Switch Aufgaben
Repeater  Hub (keine Kollisionsdomenen aufgahrent)  Bridge (tralysiert Newber, trenst Köllisionsdomane  Smitch (Multiport Bridge)	Learning - Mac Tabelle arstellen  Agina - Mac intrage löschen noch ner Zeit  Toodling - Whon kein Eintregg -> malke Parts  Selective Forwarding - Nor an Port and der Tabelle forwarde  Filtering - Bestimte Rahmen filtern
Crossover Cable Staight-through	7
-Switch >Switch -Rouler -> 5 -Switch > Hub -> Towitch -> Towitch -> Towitch -> Towitch -> Rouler -> Rouler -> Rouler -> Rechner -> Rechner -> Rouler -> Rou	Switch 1,3 2 10/100 Rechne, 2,6 >Mbps 2 16Aps
Dynamic Routing Protokolle	
Interior Gatenay: Distanz-Vektor R Cink - State Exterior Gatenay: Pfeed - Vektor	RIP, 1, IGRP, RIP, 2, EIGRD
Distanz Veldor	Cink State
-periodicthe Updates mit Routing Table -updates per Brandonst -unbekannte Topologie -dozentraler Routing process	- Updates nu Dei Varianderungen - Zust and der direktageschlossenen Netze wird geplutet - Teder Router sieht das ganze Netz - keine Routingschleifen Ischnoter I aufwändiger zu Konfiguneren
Administrative Distanz	
Falls ein Router mehrere passende Routen aus versch. Protokollen hat gilt das Protokoll mit der niedrigsten AD.	
Connected (c) O Static (s) 1 EIGRID (int Yest) 90/170 OSPF 110 RIP 120	



Router Modes e disable exec mode enable -> privileged cont + -> conding noche e end privileged Interface C] > config mode & exit specific config mode -> line CJ Routers [ ] Loging / Debug Parsmader (confight logging synchronous (config ) # have console () (config-line) # password xy (config-line) # login Console: (conlig) # debug ip [couting lip] (config) # enable secret xy Privileged: (config) & line vty 0 14 MY: (config)# undebug all (confightte) # password > y (config-line) # login Interface configuration Settings (config )# dode set 19: 30:00 25 June 2007 (cooking) # interface type 0/0 (config) # hostname xy (config-it) # ip achess 1.4.2.9 155.255.0.0 (config) + banner moted [] (config-if) to shotdown (config-if)# clock rate \$5000 (confis) # copy sic dest (roming-confis, startup-rontis, thp) (configuit) # description text (config-it) # exit Informationer version /processes (PU/protocolls/nemory/stack/buffers/flasty (config) # show interface s/runing-coafis/ startup-coafis/ reighbors/
ip route / ip protocolls / interface brief/
ip interface type 0/0/controllers serial 0/010 ip oupt neighbors / ip ospt interface social 0/0/0 Routine Static (condis)# ip & route net-address next-hop-address Stup Network: subject-mask exit-IF (contig) it ip route net-address Exit-1F: subret mask RIPVZ USPF (wildraid = inverse subset-mark) RIPVI (conting) # rowler cip (confis) # conter ins (confis) 4 couter 05/25 process-id (1) (config-rover) # verision 2 (configurate) # retwork A.B.(.D (config-rater) & notroit not wildcord area ich (config-rover) H router-id addices (config-route) thredwork E.F.G.H (config contest network A.BC.D (config-route) & passive-interface type slot port (config-rowler) & notwork E.F. G. N (config)# clear is orph process (config-router) the outo - summery cooking-roote) to default-information originate (contig-conter) # redestribute static (Statischer Routen auch vertalen) OSPF Medik Routine verhalter 1 158 Dps = 1 (Fast-Ethanel) Cest? (contis) + ip classless 10 1505 = 10 (Etheraet) (config) # no is classless 128 kb - 781 64kb =1562 = 1785 56 Kb bandwich cost config # interface type slot/port (conting if) # bandwidth / ip espt rost []

(4)