

Modes

Router> (user EXEC mode)

Router> enable (en)

Router# (privileged mode)

Router# configuration terminal (conf t)

Router(config)# (Global configuration mode)

Kommandoen "exit" springer et niveau tilbage Kommandoen "end" springer tilbage til "privileged" mode

Ctrl-shift-6 (afbryder funktion)

SHOW

Router#show flash

Router#show version

Router#show running-config (sh r)

Router#show interfaces (sh int)

Router#show ip interfaces breaf

Router#show arp

Router#show ip route

Router#show protocols

Router#show version

Hjælpe funktioner

Router(config)#logging synchronous (- status opdateringer)

Router(config)#no ip domain-lookup (forhindre DNS opslag ved forkerte kommandoer)



Password

Router(config)#enable password [password] (enable password)

Router(config)#enable secret [password] (krypterer enable password)

Router(config)# service password-encryption (krypterer alle password)

Router(config)# security password min-length 10 (password skal have 10 karaterer)

Router(config)# login block-for 180 attempts 4 within 120 (blokerer i 3 min efter 4 forsøg inden for 2 min)

Router(config-line)#exec-timeout 5 30 (consol logout efter 5 m. og 30 sek.)

Gem kørende opsætning

Router#copy running-config startup-config (copy run start)(wr) (Gemmer kørende fil i nvram)

Interface opsætning

Router(config)# interface fastethernet 0/0 (int fa0/0)
Router(config-if)# ip address 192.168.2.1 255.255.255.0 (ip add)
Router(config-if)# description Studentnet1
Router(config-if)# no shutdown (n sh)
Router(config-if)#exit

Router(config)#interface serial 0/0/0 Router(config-if)#ip address 192.168.1.125 255.255.255.0 Router(config-if)#clock rate 64000 Router(config-if)#no shutdown

DHCP opsætning

Router(config)#ip dhcp excluded-address 192.168.1.1 Router(config)#ip dhcp excluded-address 192.168.1.101 192.168.1.254

Router(config)#ip dhcp pool navn (navn er navnet på pool)
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#domain-name zbc.dk (ikke krav)(ikke Packet Tracer)
Router(dhcp-config)#default-router 192.168.1.1 (gateway)
Router(dhcp-config)#dns-server 192.168.1.200

R1#show ip dhcp binding (viser hvilke dhcp adresser der er delt ud)

LOOPBACK

Router(config)# interface loopback (laver et virtuelt interface på router)
Router(config-if)# ip address 3.3.3.3 255.0.0.0
Router(config-if)#exit



NAT opsætning

Router(config)# interface fastethernet 0/0 (int fa0/0)
Router(config-if)# ip address 192.168.2.1 255.255.255.0 (ip add)
Router(config-if)# ip nat inside
Router(config-if)# no shutdown (n sh)
Router(config-if)#exit

Router(config)#interface serial 0/0/0
Router(config-if)#ip address 192.168.1.125 255.255.255.0
Router(config-if)#ip nat outside
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown

Router(config)ip nat inside sourse static 192.168.1.25 209.25.63.44

TFTP

Router#copy running-config tftp (til tftp server)
Address or name of remote host []? 192.168.1.100
Destination filename [Router-confg]? router0

Router#copy tftp running-config (fra tftp server)

Statisk Routning

Router(config)#ip route 0.0.0.0 0.0.0.0 192.168.1.5 (next hop) (default Gateway)
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0 (interface pakken sende ud af) (default Gateway)

Router(config)#ip route 192.168.1.0 255.255.255.224 192.168.2.1 (next hop)
Router(config)#ip route 192.168.1.0 255.255.255.224 s0/0/0 (interface pakken sende ud af)

Router RIP

Router(config)#router rip
Router (config-router)#version 2
Router(config-router)#network 192.168.1.0 (net id)
Router (config-router)#no auto-summary (slå opsummering af router fra)

Router# Show ip route (Viser hvilke netværk routeren kender)
Router# Show ip protocols (Viser den aktuelle protocol)

Router# debug ip rip (Viser udvekslingen af informationer i rip)

Router#undebug all (u all) (Slår alle debug kommandoer fra)

Router# clear ip route* (ryder router rip info)

Router(config)#default information originate (henter default gateway fra toprouteren)



FILSYSTEM

Router#Show file system (file systems)

Router#dir (flash)

Router#cd nvram: (nvram)

Router#pwd Router#dir

SWITCH VLAN OPSÆTNING

Switch#en

Switch#conf t

Switch(config)#interface vlan 1

Switch(config-if)#ip address 192.168.1.200 255.255.255.0

Switch(config-if)#no shutdown

Switch(config-if)#exit

Switch(config)#ip default-gateway 192.168.1.1

Switch(config)#exit

Switch#

SWITCH SECURITY

Switch>

Switch>en

Switch#conf t

Switch(config)#interface fa 0/20

Switch(config-if)#switchport mode access

Switch(config-if)#switchport port-security

Switch(config-if)#switchport port-security maximum 1

Switch(config-if)#switchport port-security mac-address sticky

Switch(config-if)#end

Switch#

Switch#show port-security int fa0/19



LINE con og Line VTY

Router(config)#line console 0 Router(config-line)#password [password] Router(config-line)login

Route(config)# line vty 0 4
Router(config)# password [password]
Router(config)# login

SSH Access

R1(config)# ip domain-name ccna-lab.com
R1(config)# crypto key generate rsa (derefter enter og svar på antal bit→) modulus "1024"
R1(config)# username admin password cisco (her er brugernavn "admin" og password er "cisco"

Enable SSH on the VTY lines.

R1(config)# line vty 0 4 R1(config-line)# transport input ssh R1(config-line)# login local

Tilgå SSH via commando prompt I Packet Tracer

C:> ssh -l admin 192.168.1.1 ("-l" er bogstavet L, "admin" er brugernavn og derefter ip addressen)

Interface opsætning IPv6

Router(config)# ipv6 unicast-routing (activate ipv6 routning)

Router(config)# interface fastethernet 0/0 (int fa0/0 eller int g0/0)
Router(config-if)# ipv6 address 2001:ABCD:1234:0001::1/64
Router(config-if)# ipv6 address FE80::1 link-local
Router(config-if)# no shutdown (n sh)
Router(config-if)#exit

Grundforløb SSI



<u>CDP</u>

R1#cdp run (starter "cisco discovery protocol" afslut cdp sæt NO foran.)

R1#show cdp

R1#show cdp neighbor

R1#show cdp neighbor detail

TELNET

R1#show session (viser forbindelse til telnet skift mellem dem (crtl+alt+6 med efterf. X))

R1#disconect