int=interfaces / sho=show / hos=hostname / sw=switch / sho=shoutdown / vl=vlan / sub=subnet maszk / add=address / r=range / swp=switchport / port-sec= port-security / _._._. _=ip cím / wsub=wildcard maszk / st = sartupconfig / r= runing-config / conf t = configure terminal / ena = enable / AS = eigrp id / pass = password / sec = secret

Alapok:

no ip domamin-lookup
do terminal-history size (szám)
line console 0
    exece timeout (szám) (szám)
    logging synchronous
Banner motd „szöveg”
hos „név”
Mec címek lekérdezése:
    sw: show int vlan (szám)
    router: show int (szám/tulajdonság)
description „leírás”
sh sdm prefer ### swich data maneger statistic
service password-encryption
service password min-lenght
sho ipv6/ip interfaces brief
login block-for (block idő) attempts (próbálkozás mennyisége) within (gépelés sebessége sec)
erase startup-config ### reset
int (id)
bandwidth (szám kb/s)
copy (forrás) (cél)

SW:

Ip cím adás:

    int (szám/tulajdonság)
    no swhitchport
    ip add _._._. _ sub
    no sho

Vlan beállitás:

vl (id)
    name „név”
int vl (id)
    ip add _._._. _ (sub)
int r (int id - id)
    swp mod access/trunk
    swp access vl (id)
    swp trunk allowe vl (id)
    swp t native vl (id) ###alapértelmezet / default út
    swp nonegotiate
    swp port-sec mac-address sticky
    swp port-sec maximum (szám 1-132)
    swp port-sec violation protect/restrict/shutdown ### eldobja a többleteket/növeli a max-ot/lekapcsolja a portot
sh port-sec add ###forrás mac-címeket jelenít meg
sh int trunk ###a trunk vonalak információk
ip default-gateway _._._. _
sh mac-address-table

Spanning-tree:

int (id)
    spanning-tree cost (szám) ### port path cost
    no spanning-tree cost ### vissza állítás
    spanning-tree vlan (id) root/priority primary/secopndory
int (id)
    spanning-tree prortfast
    spanning-tree bpduguard enable/disable

Ether channel:

int r (id)
channel-group (id) mode active/passive ### lacp
channel-group (id) mode desirable/auto ### pagp
int port-channel (id)
sw mode trunk
sw trunk allowed vl (id-k)
sh etherchannel summary

SSH:

ip domain-name „név”
crypto key generate rsa

int=interfaces / sho=show / hos=hostname / sw=switch / sho=shoutdown / vl=vlan / sub=subnet maszk / add=address / r=range / swp=switchport / port-sec= port-security / _._._. _=ip cím / wsub=wildcard maszk / st = sartupconfig / r= runing-config / conf t = configure terminal / ena = enable / AS = eigrp id / pass = password / sec = secret

(szám)
username „név” secret/password „jelszó”
username „név” privilege (szám 0-15) secret/password „jelszó”
ip ssh version 2
line vty 0 15
login local
transport input ssh
sh ip ssh ### ssh beállítás iformációk

Router:

Routing:

ip route _._._. _ sub (reouter _._._. _ vagy int (id))
ipv6 unicast-routing
ipv6 route _._._. _/prefix
Default route:
ip route 0.0.0.0 0.0.0.0 int (id)
ipv6 route ::/0 int (id)

OSPF:

ipv4:

router ospf (id)
router-id _._._. _
passive-int (int id)
network _._._. _ (net id) _._._. _ (wild sub) area (id)
default-information orignal ### csak a határ reouter-nél, az def-route-ot hírdeti tovább
auto-cost referent-bandwith (szám) ### ospf protokol sáv szélesége
redistribute static subnets ### osztály nélkülien hirdet
area (id) authentication messege-digest

ipv6:

int (id)
ipv6 ospf (id) area (szám)
ipv6 eigrp (id)
int (id)
ip/ipv6 ospf priority (szám 0-255)
ip/ipv6 ospf hello-inteval (szám sec)
ip/ipv6 ospf death-interval (szám sec hello*4)
ip ospf message-digest-key (id) md5 „password”
clear ospf process
sh ip ospf int (id) |include timer
sh ip protocols

DHCP:

ipv4:

ip dhcp excluded-address _._._. _ (alsó) _._._. _ (felső)
ip dhcp pool „név”
default-router _._._. _ (az adot hálozat nak a router-ének)
dns-server _._._. _ (ha van)
domain-name „név”
network _._._. _ sub

ipv6:

állapot mentes:

ipv6 dhcp pool „név”
dns-server _._._. _
domain-name „név”
int (id)
ipv6 dhcp server „dhcp pool név”
ipv6 nd other-config-flag

állapot taró:

ipv6 dhcp pool „név”
dns-server _._._. _
domain-name „név”
int (id)
ipv6 dhcp server „dhcp pool név”
ipv6 nd managed-config-flag
debug ip/ipv6 paccket
sh ip/ipv6 dhcp pool „név”

int=interfaces / sho=show / hos=hostname / sw=switch / sho=shoutdown / vl=vlan / sub=subnet maszk / add=address / r=range / swp=switchport / port-sec= port-security / _._._. _=ip cím / wsub=wildcard maszk / st = sartupconfig / r= runing-config / conf t = configure terminal / ena = enable / AS = eigrp id / pass = password / sec = secret

sh ip/ipv6 dhcp bindling
sh ip/ipv6 dhcp conflict

NAT:

dinamikus:

ip nat pool „név” _._._. _(start) _._._. _(end) netmask _._._. _ (sub/prefix)
access-list (szám) permit/deny _._._. _ (ip) wsub
ip nat inside source list (szám) pool „név” overload
int (id)
ip nat inside/outside

static:

ip nat inside source static _._._. _ (inside local) _._._. _ (inside global)
int int (id)
ip add _._._. _ sub
ip nat inside/outside
ip nat inside source static tcp/utp _._._. _ (port szám) _._._. _ (port szám gloál)
clear ip nat translation
debug ip nat
sh ip nat translations/statistics

ACL:

namál:

access-list (szám: 1-99) permit/deny _._._. _ wsub

kiterjesztett:

access-list (szám: 100-199) permit/deny (porotocol) _._._. _ wsub (source) _._._. _ wsub(destination) eq (szám)
int (id)
ip access-group (szám) in/out
sh access-lists (szám)

„PRIVÁT CSAK KI”:

ip access-list standart „név” /(szám)
permit host _._._. _ (public)
int (id)
ip access-group „név” /(szám) out

„PUBLIKUS CSAK BE”:

ip access-list extened „név” /(szám)
permit ip any host _._._. _ (public)
int (id)
ip access-group „név” /(szám) in

Eigrp:

router eigrp (AS)
eigrp router-id _._._. _
passive-int (int id)
no autosummary
redistribute static
network _._._. _ wsub
int (id)
ipv6/ip summary-address eigrp (AS) _._._. _ sub
ip hello-interval eigrp (AS) (sec)
ip hold-time eigrp (AS) (sec)
int (id)
ip authentication mode eigrp (AS) md5
ip authentication key-chain eigrp (AS) „key név”
sh ip ospf neightbor
ip bandwidth-percent eigrp (AS) ### eigrp settings reset
int lookback (id)
ip add _._._. _ sub

Jelszó visszaállítás Router-en:

Rom-monitor
ctrl+break
confireg 0x2142 ### boot regiszter átállítása
reset
ena
copy st r ### régi elmentett config betöltése
conf t
ena secrete „jelszó”

int=interfaces / sho=show / hos=hostname / sw=switch / sho=shoutdown / vl=vlan / sub=subnet maszk / add=address / r=range / swp=switchport / port-sec= port-security / _._._. _=ip cím / wsub=wildcard maszk / st = sartupconfig / r= runing-config / conf t = configure terminal / ena = enable / AS = eigrp id / pass = password / sec = secret

config-register 0x2102
copy r st ### elmentjük a változásokat, hogy a jelszó meg változzon
reload
sh ip eigrp int
sh version
sh flesh
sh ip eigrp topology all-links/netwok/AS
sh ip eigrp nightbors
debag eigrp fsm
sh cdp neghbors ### cdp a cisco által fejlesztett felderidő protocol (Cisco Discovery Protocol)
sh life system
sh spanning-tree vlan
sh int trunk
sh spanning-tree

PPP-conf

user name „név" pass „jelszó"
int (id)
encapsulation ppp
ppp authentication ppp

Pvst+

sapnning-tree mode rapid-pvst
int (id)
spanning-tree link-type point-to-point
clear spanning-tree detected-protokols
sh int port-channel(id)
sh etherchannel port-channel
sh int etherchanel
sh ip route static | begin gateway
sh ip protocols

Standby:

int (id)
standby (id) ip _._._. _
standby priority (szám)
standby preempt
boot system flash:// (név)
sh license feature
sh license udi
license install flash „fájl név"
license accept end user agrelment
license module „modul név" technology-ackage „név"
license save flash „license név"
license boot module „név" technology-package „név" /disable
license clear „név"
security authenticationfailure rate (szám) log
privilage exec level (0-15) „kulcs szó"
ena sec level (1-15) „jelszó"

Chap

username „másik router neve" sec/pass „jelszó"
int (id)
encapsulation ppp
ppp authentication chap

PAP

username „másik router neve" sec/pass „jelszó"
int (id)
encapsulation ppp
ppp pap sent-username „saját router neve" sec/pass „jelszó"

Frame-relay

int (id)
bandwidth (szám kb)
ipv4/ipv6 _._._. _
encapsulation frame-relay
frame-relay map ip/ipv6 _._._. _ (dlci) broatcast/cisco/ietf
sh frame-relay map

int=interfaces / sho=show / hos=hostname / sw=switch / sho=shoutdown / vl=vlan / sub=subnet maszk / add=address / r=range / swp=switchport / port-sec= port-security / _._._. _=ip cím / wsub=wildcard maszk / st = sartupconfig / r= runing-config / conf t = configure terminal / ena = enable / AS = eigrp id / pass = password / sec = secret

Gre

int tunnel (id)
    ip add _._._. _
    tunnel source (global) (int id)
    tunnel destionation _._._. _ (global)
router ospf/eigrp (id/AS)
    network _._._. _

Isak

access-list (id) permit udp _._._. _ (source) wsub _._._. _(destionation) wsub eq isakmp
sh crypto isakmp default policy
crypto isakmp key „jelszó” add _._._. _
sh crypto isakmp sa
crypto map „név” (szám) ipsec-isaskmp/ipsec-manual
sh crypto map
int (id)
    crypto map „név”
clear ip nat translation *
service timestamps log uptime
sh logging
logging _._._. _
logging trap (dibug id)
logging source-int (id)
sh logging |include changed state up

SNMP

snmp-server community „karakter lánc” ro/rw ### read only / read and write
snmp-server location „szöveg”
snmp-server host _._._. _ version (id) „közzöségi karakter lánc”
snmp-server enable traps ### acces-list készítése
snmp-server group „név” v1/2/3/4
snmp-server user „név” „group név”

NETFLOW

int (id)
    ip flow ingress/egress/monitor ### outbound/inbound enable/flowmonitor apply
ex
ip flow-export destionation _._._. _ (port id)
ip flow-export version (id) ### 1/5/7/8/9
sh ip cache flow

Ipsec

license boot module „név” technology-package securityk9
    yes
do copy r st
do reload
crypto isakmp policy (level id)
    encryption 3des/des/aes (bit key) ### triple des/Advanced Encryption Standard/Data Encrition Standard
    authentication pre-share
    group (DH szam) ### Diffie-hellman
    lifetime (second)
    ex
crypto isakmp key „key” add _._._. _
crypto map „név” (map entry) ipsec-isakmp
    description „leírás”
    set peer (source) _._._. _
    match add (acl id)
    ex
crypto ipsec transform-set „név” esp-aes 256 esp-md5-hmac
int (id)
    crypto map „név”

FRAME-RELAY

int (id) ### serial vonalakon csak
    encapculation frame-relay
    ex
int (id). (id) pont-to-pont

int=interfaces / sho=show / hos=hostname / sw=switch / sho=shoutdown / vl=vlan / sub=subnet maszk / add=address / r=range / swp=switchport / port-sec= port-security / _._._. _=ip cím / wsub=wildcard maszk / st = sartupconfig / r= runing-config / conf t = configure terminal / ena = enable / AS = eigrp id / pass = password / sec = secret

ip add _._._. _ sub
frame-relay int-dlci (dlci szam)
frame-relay map ip/ipv6 _._._. _ (dlci szam) broadcast

Diffie-Hellman Group	Name	Reference
Group 1	768 bit MODP group	RFC 2409
Group 2	1024 bits MODP group	RFC 2409
Group 3	EC2N group on GP(2^155)	RFC 2409
Group 4	EC2N group on GP(2^185)	RFC 2409
Group 5	1536 bits MODP group	RFC 3526
Group 14	2048 bits MODP group	RFC 3526
Group 15	3072 bits MODP group	RFC 3526
Group 16	4096 bits MODP group	RFC 3526
Group 17	6144 bits MODP group	RFC 3526
Group 18	8192 bits MODP group	RFC 3526
Group 19	256 bits random ECP group	RFC 5903
Group 20	384 bits random ECP group	RFC 5903
Group 21	521 bits random ECP group	RFC 5903