Table of Contents

1 Intro	
2 License	2
3 Save Progress	3
4 Router	3
4.1 Security	
4.1.1 Management Security	3
4.1.1.1 Enable CLI Password	
4.1.1.2 Enable Password after enable – EXEC – Global Configuration	3
4.1.1.3 Enable Telnet Password	3
4.1.1.4 SSH	3
4.1.1.4.1 SSH Configuration	3
4.1.1.4.2 More SSH Settings	4
4.1.2 Access Lists Security	4
4.1,2.1 Standard ACLs	4
4.1.2.1.1 Numbered Standard ACLs	4
4.1.2.1.2 Named Standard ACLs	4
4.1.2.1.3 Modify Named ACLs	4
4.1,2.2 Extended ACLs	
4.1.2.2.1 Numbered Extended ACLs	4
4.1.2.2.2 Named Extended ACLs	5
4.1.2.2.3 Modify Numbered Extended ACLs	5
4.1.2.2.4 Modify Named Extended ACLs	5
4.1.2.3 Access Lists Info	5
4.1.2.3.1 More SSH Settings	5
4.2 IP	5
4.2.1 Assign IP to Interface	5
4.2.1.1 IPv4	5
4.2.1.2 IPv6	6
4.3 DHCP	6
4.4 Routing	6
4.4.1 OSPF	6
4.4.2 EIGRP	6
4.4.3 RIPv2	6
4.5 InterVLAN Routing	6
4.6 General Settings	
4.6.1 Date and Time Settings	
5 Switch	
5.1 Security	
5.1.1 Management Security	
5.1.1.1 Enable CLI Password	
5.1.1.2 Enable Encrypted Password after enable – EXEC – Global Configuration	
5.1.1.3 Enable Telnet Password	
5.1.1.3.1 SSH	
5.1.1.3.1.1 SSH Configuration	
5.1.1.3.1.2 More SSH Settings	
5.1.2 Port Security	
5.1.2.1 Close unused physical ports	
5.1.2.2 Configure Basic Port Security	
5.2 VLAN	
5.2.1 Create a VLAN	8

5.2.2 Assign Physical Access Ports to VLAN	9
5.2.3 Set Physical Ports to Trunk	
5.2.4 Set Physical Ports to Native Trunking	
5.2.5 Assign IP to VLAN	
5.2.6 Verify VLAN	
5.3 Ρυθμίσεις ÎP	
5.3.1 Prevent unwanted DNS Lookups	9
5.3.2 Default Gateway	9
5.4 General Settings	9
5.4.1 Date and Time Settings	
5.4.2 Log In Banner Message	

1 Intro

Hi. I am Panteleimon Sarantos (You can call me Pantelis) and I made this list of commands for the Cisco Routers and Switches. This document is version 1.0.

2 License

This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc-sa/4.0/ or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.



3 Save Progress

To save the following commands to the startup-config run:

en

conf t

wr

#or

do wr

4 Router

4.1 Security

4.1.1 Management Security

4.1.1.1 Enable CLI Password

en

conf t

line con 0

password conpass

4.1.1.2 Enable Password after enable – EXEC – Global Configuration

en

conf t

enable secret password

4.1.1.3 Enable Telnet Password

en

conf t

line vty 0 15

password telnetpass

login

4.1.1.4 SSH

4.1.1.4.1 SSH Configuration

en

conf t

ip domain-name isp.gr

username admin privilege 15 secret sshpass

line vty 0 15

transport input ssh

login local

exit

crypto key generate rsa

end

show ip ssh

4.1.1.4.2 **More SSH Settings**

en conf t ip ssh time-out 75

ip ssh authentication-retries 2

4.1.2 Access Lists Security

4.1.2.1 Standard ACLs

4.1.2.1.1 **Numbered Standard ACLs**

en

conf t

access-list 1 remark Allow R1 LANs Access access-list 1 permit 192.168.10.0 0.0.0.255 access-list 1 permit 192.168.20.0 0.0.0.255 access-list 1 deny any

en conf t interface g0/1 ip access-group 1 out

4.1.2.1.2 **Named Standard ACLs**

en conf t ip access-list standard BRANCH-OFFICE-POLICY permit host 192.168.30.3 permit 192.168.40.0 0.0.0.255 end

en conf t int g0/1ip access-group BRANCH-OFFICE-POLICY out

4.1.2.1.3 **Modify Named ACLs**

en conf t

ip access-list standard BRANCH-OFFICE-POLICY 30 permit 209.165.200.224 0.0.0.31 40 deny any end

4.1.2.2 **Extended ACLs**

4.1.2.2.1 **Numbered Extended ACLs**

en

conf t

access-list 100 remark Allow Web & SSH Access access-list 100 permit tcp host 192.168.10.3 host 10.2.2.1 eq 22 access-list 100 permit tcp any any eq 80

en conf t interface g0/1 ip access-group 100 out

4.1.2.2.2 Named Extended ACLs

en

conf t

ip access-list extended WEB-POLICY permit tcp 192.168.30.0 0.0.0.255 host 10.1.1.1 eq 80 permit tcp 192.168.30.0 0.0.0.255 209.165.200.224 0.0.0.31 eq 80

en conf t interface S0/0/1 ip access-group WEB-POLICY out

4.1.2.2.3 Modify Numbered Extended ACLs

en

conf t

ip access-list extended 100

30 permit ip 192.168.10.0 0.0.0.255 192.168.30.0 0.0.0.255 end

4.1.2.2.4 Modify Named Extended ACLs

en

conf t

ip access-list extended WEB-POLICY 30 permit ip 192.168.30.0 0.0.0.255 192.168.10.0 0.0.0.255 end

4.1.2.3 Access Lists Info

en

show access-lists

4.1.2.3.1 More SSH Settings

en

conf t

ip ssh time-out 75

ip ssh authentication-retries 2

4.2 IP

4.2.1 Assign IP to Interface

4.2.1.1 IPv4

En

conf t

int g0/0

ip add 192.168.1.1 255.255.255.0

no shut

4.2.1.2 IPv6

en conf t ipv6 unicast-routing int g0/0 ipv6 add 2001:db8:1:1::1/64 ipv6 add fe80::1 link-local no shut

4.3 DHCP

en conf t ip dhcp excluded-address 100.100.100.1 ip dhcp pool KATOSTARI network 100.100.100.0 255.255.255.0 default-router 100.100.100.1

4.4 Routing

4.4.1 OSPF

en conf t router ospf 1 network 192.168.1.0 0.0.0.255 area 0 network 10.0.0.0 0.0.0.3 area 0 network 10.1.1.0 0.0.0.3 area 0

4.4.2 EIGRP

en conf t router eigrp 1 network 200.200.200.0 0.0.0.3 network 100.100.100.0 0.0.0.255 auto-summary

4.4.3 RIPv2

en conf t router rip version 2 network 192.168.10.0 network 192.168.20.0 network 192.168.30.0 no auto-summary

4.5 InterVLAN Routing

interface g0/1.1 encapsulation dot1Q 1 ip add 192.168.1.1 255.255.255.0 interface g0/1.10 encapsulation dot1Q 10 ip add 192.168.10.1 255.255.255.0 interface g0/1.20 encapsulation dot1Q 20 ip add 192.168.20.1 255.255.255.0 exit interface g0/1 no shut

4.6 General Settings

4.6.1 Date and Time Settings

Set clock settings clock set 16:45:00 Dec 8 2016

5 Switch

5.1 Security

5.1.1 Management Security

5.1.1.1 Enable CLI Password

en
conf t
line con 0
password conpass
login
logging synchronous

5.1.1.2 Enable Encrypted Password after enable – EXEC – Global Configuration

en conf t enable password-encryption enable secret pass

5.1.1.3 Enable Telnet Password

en conf t line vty 0 15 password telnetpass login

5.1.1.3.1 SSH

5.1.1.3.1.1 SSH Configuration

en

conf t
ip domain-name isp.gr
username admin privilege 15 secret sshpass
line vty 0 15
transport input ssh
login local
exit
crypto key generate rsa
end
show ip ssh

5.1.1.3.1.2 More SSH Settings

en conf t ip ssh time-out 75 ip ssh authentication-retries 2

5.1.2 Port Security

5.1.2.1 Close unused physical ports

en conf t int f0/0 | int range f0/0-4 shut do sh ip interface brief

5.1.2.2 Configure Basic Port Security

en
conf t
int f0/5
shut
switchport mode access
switchport port-security
switchport port-security mac-address xxxx.xxxx
(switchport port-security mac-address sticky)
no shut
end
sh port-security int f0/5

5.2 VLAN

5.2.1 Create a VLAN

en conf t vlan 10 name Students exit

5.2.2 Assign Physical Access Ports to VLAN

en conf t int range f0/1 - 24, g0/1 - 2 switchport access vlan 10

5.2.3 Set Physical Ports to Trunk

en conf t int g0/1 switchport mode trunk

5.2.4 Set Physical Ports to Native Trunking

en conf t int g0/1 switchport mode trunk switchport trunk native vlan 99

5.2.5 Assign IP to VLAN

int vlan99 ip add 192.168.1.2 255.255.255.0 no shut

5.2.6 Verify VLAN

en sh vlan brief

5.3 Ρυθμίσεις ΙΡ

5.3.1 Prevent unwanted DNS Lookups

en conf t no ip domain-lookup

5.3.2 Default Gateway

en conf t ip default-gateway 192.168.1.1

5.4 General Settings

5.4.1 Date and Time Settings

show clock detail clock set 16:30:00 Mar 27 2017 do wr

5.4.2 Log In Banner Message

en conf t banner motd # Some message #