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.

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4 Save Progress

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

en

conf t

wr

#or

do wr

5 Router

5.1 Security

5.1.1 Management Security

5.1.1.1 Enable CLI Password

en conf t line con 0 password conpass

5.1.1.2 Enable Password after enable – EXEC – Global Configuration

en conf t enable secret password

5.1.1.3 Enable Telnet Password

en conf t line vty 0 15 password telnetpass login

5.1.1.4 SSH

5.1.1.4.1 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

5.1.1.4.2 More SSH Settings

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

5.1.2 Access Lists Security

Standard ACLs 5.1.2.1

5.1.2.1.1 **Numbered Standard ACLs**

<u>en</u>

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

5.1.2.1.2 **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 g0/1

ip access-group BRANCH-OFFICE-POLICY out

5.1.2.1.3 **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

5.1.2.2 **Extended ACLs**

5.1.2.2.1 **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

5.1.2.2.2 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

5.1.2.2.3 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

5.1.2.2.4 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

5.1.2.3 Access Lists Info

en

show access-lists

5.1.2.3.1 More SSH Settings

en

conf t

ip ssh time-out 75

ip ssh authentication-retries 2

5.2 IP

5.2.1 Assign IP to Interface

5.2.1.1 IPv4

En

conf t

int g0/0

ip add 192.168.1.1 255.255.255.0

no shut

5.2.1.2 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

5.3 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

5.4 Routing

5.4.1 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

5.4.2 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

5.4.3 RIPv2

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

5.5 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

5.6 General Settings

5.6.1 Date and Time Settings

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

6 Switch

6.1 Security

6.1.1 Management Security

6.1.1.1 Enable CLI Password

en
conf t
line con 0
password conpass
login
logging synchronous

6.1.1.2 Enable Encrypted Password after enable – EXEC – Global Configuration

en conf t enable password-encryption enable secret pass

6.1.1.3 Enable Telnet Password

en conf t line vty 0 15 password telnetpass login

6.1.1.3.1 SSH

6.1.1.3.1.1 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

6.1.1.3.1.2 More SSH Settings

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

6.1.2 Port Security

6.1.2.1 Close unused physical ports

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

6.1.2.2 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

6.2 VLAN

6.2.1 Create a VLAN

en conf t vlan 10 name Students exit

6.2.2 Assign Physical Access Ports to VLAN

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

6.2.3 Set Physical Ports to Trunk

en conf t int g0/1 switchport mode trunk

6.2.4 Set Physical Ports to Native Trunking

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

6.2.5 Assign IP to VLAN

int vlan99 ip add 192.168.1.2 255.255.255.0 no shut

6.2.6 Verify VLAN

en sh vlan brief

6.3 Ρυθμίσεις ΙΡ

6.3.1 Prevent unwanted DNS Lookups

en conf t no ip domain-lookup

6.3.2 Default Gateway

en conf t ip default-gateway 192.168.1.1

6.4 General Settings

6.4.1 Date and Time Settings

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

6.4.2 Log In Banner Message

en conf t banner motd # Some message #