Mapúa University

School of Electrical, Electronics and Computer Engineering

**Network Topology for**

**3-Floor Commercial Building**

By

**Cisconatix**

**ECE161L/E01**

**Ibasco, Hiede Geene D.**

**Logronio, April D.**

**Martinez, Roland P.**

**Sangani, Mansi A.**

A Network Design submitted to

**Engr. Andrew Kim Pahutan**

in Partial Fulfilment of the Requirements for the Course, Routing and Switching Essentials

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1. **SITUATIONAL PROBLEM**

The proprietor of a 3-floor commercial building where Wi-Fi is not available is requesting for a modern design renovation that will attract people to come by often, one of the things that will make it contemporary is a network design.

The 3-floor commercial building has a coffeeshop on the 1st floor while the 2nd and 3rd floors are vacant. The proprietor has planned to open an Internet café occupying the 2nd and 3rd floor.

Since there is already a coffee shop on the 1st floor which operates only on a local network, the proprietor also requested for network upgrade like Wi-Fi access for the guest. The estimated maximum guest users are around 30 customers which will be using the Wi-Fi access at the same time. There will be an individual PC for the Counter and Inventory for the inventory monitoring of the coffee shop, the customers are only allowed to register their devices once they have ordered. The connection of unauthorized and unregistered devices in the coffee shop are to be monitored, recorded and to restrict unauthorized access.

For the 2nd and 3rd floor, they requested to make it into an internet café. The estimated count of PC units that can occupy a single floor is around 20 to 25 units. The clerk of the Internet Café will be on the second floor. An additional PC unit, LAN server, and network printer for the clerk is added to the network.

For the whole network administration, there will be an assigned Network Administrator on the 3rd floor. An admin-PC, admin-Laptop, and main server is connected. The main server will store CCTV monitoring files, network logs, and backup files of the two shops.

For added security and to avoid unauthorized access, only the Network Administrator can access the routers and switches using SSH for a secure connection. All unused ports will be shut down for additional security.

Network Expansions and improvements should also be accounted for in the future. As well as back up routes for internet connection and Administrator intervention.

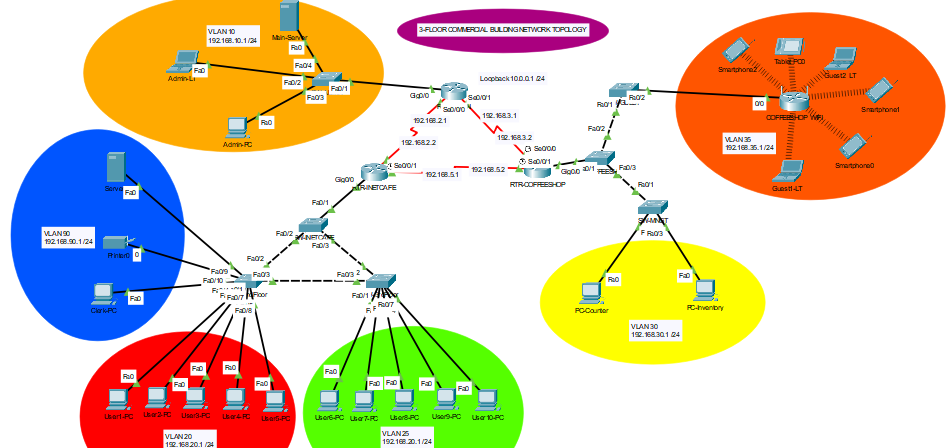
1. **OBJECTIVES**

The goal of the group in this project is to apply all the concepts and learnings that were taught in the course Switching, Routing, and Wireless Essentials. As requested by our professor, we were asked to create and simulate a Network Design by using Packet Tracer and our fundamental knowledge in the said course.

Specifically, the group objectives are :

* To relate and apply the knowledge gained in the Routing and Switching Concepts to further design the network topology.
* To be able to provide stable internet access in all the 3 floors of the commercial building.
* To be able to sustain the network while giving expansions and providing improvements that would be counted for in the future.
* To maintain security in an order to prevent any unauthorized access to the network.
* To apply port security for devices MAC-address registration and restriction for unauthorized access.
* To apply access control in remote connection using ssh to prevent unauthorized access.

1. **PROPOSED NETWORK TOPOLOGY**



The ADMIN Router has the network for the Admin-PC, Admin-Laptop, Main Server, and connection to the Internet Service Provider (ISP) represented by loopback.

The SSH is used to connect to the switches and routers remotely for a more secure and encrypted connection. The Admin-PC and the Admin-Laptop have the authorization to connect remotely to all the routers and switches using the SSH.

The Routers are connected by the static and dynamic routing while the guest network is statically routed only to connect to the internet access.

The application of a Router-On-A-Stick configuration happened on the INETCAFE and the COFFEESHOP.

The Spanning Tree Protocol was applied in the INETCAFE LAN to use its network redundancy. The Root Priority on the SW-2nd Floor will be connected directly first to the SW-INETCAFE. As the connection happens between the two, the SW-2nd Floor will also use a secondary route that will be the connection from SW-3rd Floor to the SW-INETCAFE. A backup route should be used in the case of a connection being failed in between the SW-2nd Floor and the SW-INETCAFE. On the other hand, the SW-2nd Floor route is used when the connection fails between the SW-3rd Floor and the SW-INETCAFE.

The Clerk-PC, LAN server, and the network printer use static addressing while the connected customer-PC will be using the dynamic addressing.

The Counter-PC, Inventory-PC and the Wi-Fi are all connected to SW-COFFEESHOP.

The Switchport port-security is applied on the switches only to allow the registered MAC address/es to connect to the designated ports to prevent unauthorized access using the open ports.

1. **NETWORK ADDRESSES USED**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VLAN # / INTERFACE** | **NAME** | **IPv4 ADDRESS** | | | | |
| **90** | **MGNT** | **192** | **168** | **90** | **1** | **/24** |
| **99** | **NATIVE** | **192** | **168** | **99** | **1** | **/24** |
| **20** | **2nd floor** | **192** | **168** | **20** | **1** | **/24** |
| **25** | **3rd floor** | **192** | **168** | **25** | **1** | **/24** |
| **30** | **CSHOP** | **192** | **168** | **30** | **1** | **/24** |
| **35** | **CGUEST** | **192** | **168** | **35** | **1** | **/24** |
| **10** | **ADMIN** | **192** | **168** | **10** | **1** | **/24** |
| **DEVICE** | **INTERFACE** | **IPv4 ADDRESS** | | | | |
| **RTR-ADMIN** | **G0/0** | | | | | |
|  | **G0/0.10** | **192** | **168** | **10** | **1** | **/24** |
|  | **G0/0.99** | **192** | **168** | **99** | **9** | **/24** |
|  | **S0/0/0** | **192** | **168** | **2** | **1** | **/24** |
|  | **S0/0/1** | **192** | **168** | **3** | **1** | **/24** |
|  |  |  |  |  |  |  |
| **RTR-INETCAFE** | **G0/0** | | | | | |
|  | **G0/0.20** | **192** | **168** | **22** | **1** | **/24** |
|  | **G0/0.25** | **192** | **168** | **23** | **1** | **/24** |
|  | **G0/0.90** | **192** | **168** | **90** | **1** | **/24** |
|  | **G0/0.99** | **192** | **168** | **99** | **1** | **/24** |
|  | **S0/0/0** | **192** | **168** | **2** | **2** | **/24** |
|  | **S0/0/1** | **192** | **168** | **5** | **1** | **/24** |
|  |  |  |  |  |  |  |
| **RTR-COFFEESHOP** | **G0/0** | | | | | |
|  | **G0/0.30** | **192** | **168** | **30** | **1** | **/24** |
|  | **G0/0.35** | **192** | **168** | **35** | **1** | **/24** |
|  | **G0/0.99** | **192** | **168** | **99** | **1** | **/24** |
|  | **S0/0/0** | **192** | **168** | **3** | **2** | **/24** |
|  | **S0/0/1** | **192** | **168** | **5** | **2** | **/24** |
|  | **Loopback0** | **10** | **0** | **0** | **1** | **/24** |

1. **RUNNING CONFIGURATIONS**

**RTR-ADMIN**

Building configuration...

Current configuration : 1655 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname RTR-ADMIN

!

!

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

!

!

!

no ip cef

no ipv6 cef

!

!

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

license udi pid CISCO2911/K9 sn FTX152417GJ-

!

!

!

!

!

!

!

!

!

no ip domain-lookup

ip domain-name cisconatix.com

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface Loopback0

ip address 10.0.0.1 255.255.255.0

!

interface GigabitEthernet0/0

no ip address

duplex auto

speed auto

!

interface GigabitEthernet0/0.10

encapsulation dot1Q 10

ip address 192.168.10.1 255.255.255.0

!

interface GigabitEthernet0/0.99

encapsulation dot1Q 99

ip address 192.168.99.1 255.255.255.0

!

interface GigabitEthernet0/1

no ip address

duplex auto

speed auto

shutdown

!

interface GigabitEthernet0/2

no ip address

duplex auto

speed auto

shutdown

!

interface Serial0/0/0

ip address 192.168.2.1 255.255.255.0

!

interface Serial0/0/1

ip address 192.168.3.1 255.255.255.0

!

interface Vlan1

no ip address

shutdown

!

ip classless

ip route 192.168.30.0 255.255.255.0 192.168.3.2

ip route 192.168.35.0 255.255.255.0 192.168.3.2

ip route 192.168.25.0 255.255.255.0 192.168.2.2

ip route 192.168.90.0 255.255.255.0 192.168.2.2

ip route 192.168.20.0 255.255.255.0 192.168.2.2

!

ip flow-export version 9

!

!

!

banner motd ^CAuthorized Access Only!^C

!

!

!

!

!

line con 0

password 7 0822455D0A16

login

!

line aux 0

!

line vty 0 4

password 7 0822455D0A16

login local

transport input ssh

line vty 5 15

password 7 0822455D0A16

login local

transport input ssh

!

!

!

End

**RTR-COFFEESHOP**

Building configuration...

Current configuration : 1678 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname RTR-COFFEESHOP

!

!

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

!

!

!

no ip cef

no ipv6 cef

!

!

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

license udi pid CISCO2911/K9 sn FTX15249GC0-

!

!

!

!

!

!

!

!

!

ip domain-name cisconatix.com

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

no ip address

duplex auto

speed auto

!

interface GigabitEthernet0/0.30

encapsulation dot1Q 30

ip address 192.168.30.1 255.255.255.0

!

interface GigabitEthernet0/0.35

encapsulation dot1Q 35

ip address 192.168.35.1 255.255.255.0

!

interface GigabitEthernet0/0.99

encapsulation dot1Q 99

ip address 192.168.99.1 255.255.255.0

!

interface GigabitEthernet0/1

no ip address

duplex auto

speed auto

shutdown

!

interface GigabitEthernet0/2

no ip address

duplex auto

speed auto

shutdown

!

interface Serial0/0/0

ip address 192.168.3.2 255.255.255.0

clock rate 2000000

!

interface Serial0/0/1

ip address 192.168.5.2 255.255.255.0

clock rate 2000000

!

interface Vlan1

no ip address

shutdown

!

ip classless

ip route 192.168.10.0 255.255.255.0 192.168.3.1

ip route 192.168.20.0 255.255.255.0 192.168.5.1

ip route 10.0.0.0 255.255.255.0 192.168.3.1

ip route 192.168.25.0 255.255.255.0 192.168.5.1

ip route 192.168.90.0 255.255.255.0 192.168.5.1

!

ip flow-export version 9

!

!

!

!

!

!

!

!

line con 0

password 7 0822455D0A16

login

!

line aux 0

!

line vty 0 4

password 7 0822455D0A16

login local

transport input ssh

line vty 5 15

password 7 0822455D0A16

login local

transport input ssh

!

!

!

end

**RTR-INETCAFE**

Building configuration...

Current configuration : 1742 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname RTR-INETCAFE

!

!

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

!

!

!

no ip cef

no ipv6 cef

!

!

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

license udi pid CISCO2911/K9 sn FTX1524BSDO-

!

!

!

!

!

!

!

!

!

ip domain-name cisconatix.com

!

!

spanning-tree mode pvst

!

!

!

!

!

!

interface GigabitEthernet0/0

no ip address

duplex auto

speed auto

!

interface GigabitEthernet0/0.20

encapsulation dot1Q 20

ip address 192.168.20.1 255.255.255.0

!

interface GigabitEthernet0/0.25

encapsulation dot1Q 25

ip address 192.168.25.1 255.255.255.0

!

interface GigabitEthernet0/0.90

encapsulation dot1Q 90

ip address 192.168.90.1 255.255.255.0

!

interface GigabitEthernet0/0.99

encapsulation dot1Q 99

ip address 192.168.99.1 255.255.255.0

!

interface GigabitEthernet0/1

no ip address

duplex auto

speed auto

shutdown

!

interface GigabitEthernet0/2

no ip address

duplex auto

speed auto

shutdown

!

interface Serial0/0/0

ip address 192.168.2.2 255.255.255.0

clock rate 2000000

!

interface Serial0/0/1

ip address 192.168.5.1 255.255.255.0

!

interface Vlan1

no ip address

shutdown

!

ip classless

ip route 192.168.30.0 255.255.255.0 192.168.5.2

ip route 192.168.10.0 255.255.255.0 192.168.2.1

ip route 10.0.0.0 255.255.255.0 192.168.2.1

ip route 0.0.0.0 0.0.0.0 Serial0/0/0

ip route 192.168.35.0 255.255.255.0 192.168.5.2

!

ip flow-export version 9

!

!

!

!

!

!

!

!

line con 0

password 7 0822455D0A16

login

!

line aux 0

!

line vty 0 4

password 7 0822455D0A16

login local

transport input ssh

line vty 5 15

password 7 0822455D0A16

login local

transport input ssh

!

!

!

end

**SW-ADMIN**

Building configuration...

Current configuration : 1923 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SW-ADMIN

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

ip domain-name cisconatix.com

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport mode trunk

!

interface FastEthernet0/2

switchport access vlan 10

switchport mode access

switchport port-security mac-address sticky

!

interface FastEthernet0/3

switchport access vlan 10

switchport mode access

switchport port-security mac-address sticky

!

interface FastEthernet0/4

switchport access vlan 10

switchport mode access

switchport port-security mac-address sticky

!

interface FastEthernet0/5

shutdown

!

interface FastEthernet0/6

shutdown

!

interface FastEthernet0/7

shutdown

!

interface FastEthernet0/8

shutdown

!

interface FastEthernet0/9

shutdown

!

interface FastEthernet0/10

shutdown

!

interface FastEthernet0/11

shutdown

!

interface FastEthernet0/12

shutdown

!

interface FastEthernet0/13

shutdown

!

interface FastEthernet0/14

shutdown

!

interface FastEthernet0/15

shutdown

!

interface FastEthernet0/16

shutdown

!

interface FastEthernet0/17

shutdown

!

interface FastEthernet0/18

shutdown

!

interface FastEthernet0/19

shutdown

!

interface FastEthernet0/20

shutdown

!

interface FastEthernet0/21

shutdown

!

interface FastEthernet0/22

shutdown

!

interface FastEthernet0/23

shutdown

!

interface FastEthernet0/24

shutdown

!

interface GigabitEthernet0/1

shutdown

!

interface GigabitEthernet0/2

shutdown

!

interface Vlan1

no ip address

shutdown

!

banner motd ^CAuthorized Access Only!^C

!

!

!

line con 0

password 7 0822455D0A16

login

!

line vty 0 4

password 7 0822455D0A16

login local

transport input ssh

line vty 5 15

password 7 0822455D0A16

login local

transport input ssh

!

!

!

!

End

**SW-INETCAFE**

Building configuration...

Current configuration : 1686 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SW-INETCAFE

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

no ip domain-lookup

ip domain-name cisconatix.com

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

spanning-tree vlan 1 priority 0

!

interface FastEthernet0/1

switchport mode trunk

!

interface FastEthernet0/2

switchport mode trunk

!

interface FastEthernet0/3

switchport mode trunk

!

interface FastEthernet0/4

shutdown

!

interface FastEthernet0/5

shutdown

!

interface FastEthernet0/6

shutdown

!

interface FastEthernet0/7

shutdown

!

interface FastEthernet0/8

shutdown

!

interface FastEthernet0/9

shutdown

!

interface FastEthernet0/10

shutdown

!

interface FastEthernet0/11

shutdown

!

interface FastEthernet0/12

shutdown

!

interface FastEthernet0/13

shutdown

!

interface FastEthernet0/14

shutdown

!

interface FastEthernet0/15

shutdown

!

interface FastEthernet0/16

shutdown

!

interface FastEthernet0/17

shutdown

!

interface FastEthernet0/18

shutdown

!

interface FastEthernet0/19

shutdown

!

interface FastEthernet0/20

shutdown

!

interface FastEthernet0/21

shutdown

!

interface FastEthernet0/22

shutdown

!

interface FastEthernet0/23

shutdown

!

interface FastEthernet0/24

shutdown

!

interface GigabitEthernet0/1

shutdown

!

interface GigabitEthernet0/2

shutdown

!

interface Vlan1

no ip address

shutdown

!

banner motd ^CAuthorized Access Only!^C

!

!

!

line con 0

password 7 0822455D0A16

login

!

line vty 0 4

password 7 0822455D0A16

login local

transport input ssh

line vty 5 15

password 7 0822455D0A16

login local

transport input ssh

!

!

!

!

End

**SW-COFFEESHOP**

Building configuration...

Current configuration : 1696 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SW-COFFEESHOP

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

no ip domain-lookup

ip domain-name cisconatix.com

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport mode trunk

!

interface FastEthernet0/2

switchport mode trunk

!

interface FastEthernet0/3

switchport mode trunk

!

interface FastEthernet0/4

shutdown

!

interface FastEthernet0/5

shutdown

!

interface FastEthernet0/6

shutdown

!

interface FastEthernet0/7

shutdown

!

interface FastEthernet0/8

shutdown

!

interface FastEthernet0/9

shutdown

!

interface FastEthernet0/10

shutdown

!

interface FastEthernet0/11

shutdown

!

interface FastEthernet0/12

shutdown

!

interface FastEthernet0/13

shutdown

!

interface FastEthernet0/14

shutdown

!

interface FastEthernet0/15

shutdown

!

interface FastEthernet0/16

shutdown

!

interface FastEthernet0/17

shutdown

!

interface FastEthernet0/18

shutdown

!

interface FastEthernet0/19

shutdown

!

interface FastEthernet0/20

shutdown

!

interface FastEthernet0/21

shutdown

!

interface FastEthernet0/22

shutdown

!

interface FastEthernet0/23

shutdown

!

interface FastEthernet0/24

shutdown

!

interface GigabitEthernet0/1

shutdown

!

interface GigabitEthernet0/2

shutdown

!

interface Vlan1

no ip address

!

banner motd ^CAuthorized Access Only!^C

!

!

!

line con 0

password 7 0822455D0A16

!

line vty 0 4

password 7 0822455D0A16

login local

transport input ssh

line vty 5 15

password 7 0822455D0A16

login local

transport input ssh

!

!

!

!

End

**SW-2ndFloor**

Building configuration...

Current configuration : 4226 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SW-2ndFloor

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

no ip domain-lookup

ip domain-name cisconatix.com

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport access vlan 90

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 0005.5EA4.8B87

!

interface FastEthernet0/2

switchport mode trunk

!

interface FastEthernet0/3

switchport mode trunk

!

interface FastEthernet0/4

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 00E0.A381.E12C

!

interface FastEthernet0/5

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/6

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/7

switchport access vlan 20

switchport mode access

!

interface FastEthernet0/8

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 0050.0F27.5DD6

!

interface FastEthernet0/9

switchport access vlan 90

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 000A.F30D.2129

!

interface FastEthernet0/10

switchport access vlan 90

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 00E0.8F99.00B0

!

interface FastEthernet0/11

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/12

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/13

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/14

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/15

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/16

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/17

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/18

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/19

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/20

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/21

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/22

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/23

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/24

switchport access vlan 20

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface GigabitEthernet0/1

shutdown

!

interface GigabitEthernet0/2

shutdown

!

interface Vlan1

no ip address

shutdown

!

banner motd ^CAuthorized Access Only!^C

!

!

!

line con 0

password 7 0822455D0A16

login

!

line vty 0 4

password 7 0822455D0A16

login local

line vty 5 15

password 7 0822455D0A16

login local

!

!

!

!

end

**SW-3rdFloor**

Building configuration...

Current configuration : 4304 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SW-3rdFloor

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

no ip domain-lookup

ip domain-name cisconatix.com

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 0001.9682.38A9

!

interface FastEthernet0/2

switchport mode trunk

!

interface FastEthernet0/3

switchport mode trunk

!

interface FastEthernet0/4

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/5

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/6

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/7

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 0010.111D.7913

!

interface FastEthernet0/8

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/9

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/10

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/11

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/12

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/13

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/14

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/15

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/16

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/17

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/18

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/19

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/20

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/21

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/22

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/23

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface FastEthernet0/24

switchport access vlan 25

switchport mode access

switchport port-security

switchport port-security mac-address sticky

!

interface GigabitEthernet0/1

shutdown

!

interface GigabitEthernet0/2

shutdown

!

interface Vlan1

no ip address

shutdown

!

banner motd ^CAuthorized Access Only!^C

!

!

!

line con 0

password 7 0822455D0A16

login

!

line vty 0 4

password 7 0822455D0A16

login local

transport input ssh

line vty 5 15

password 7 0822455D0A16

login local

transport input ssh

!

!

!

!

End

**SW-MNGT**

Building configuration...

Current configuration : 1934 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SW-MNGT

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

no ip domain-lookup

ip domain-name cisconatix.com

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

!

interface FastEthernet0/2

switchport access vlan 30

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 0090.0C58.E7C9

!

interface FastEthernet0/3

switchport access vlan 30

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security mac-address sticky 0030.F2E8.2B56

!

interface FastEthernet0/4

shutdown

!

interface FastEthernet0/5

shutdown

!

interface FastEthernet0/6

shutdown

!

interface FastEthernet0/7

shutdown

!

interface FastEthernet0/8

shutdown

!

interface FastEthernet0/9

shutdown

!

interface FastEthernet0/10

shutdown

!

interface FastEthernet0/11

shutdown

!

interface FastEthernet0/12

shutdown

!

interface FastEthernet0/13

shutdown

!

interface FastEthernet0/14

shutdown

!

interface FastEthernet0/15

shutdown

!

interface FastEthernet0/16

shutdown

!

interface FastEthernet0/17

shutdown

!

interface FastEthernet0/18

shutdown

!

interface FastEthernet0/19

shutdown

!

interface FastEthernet0/20

shutdown

!

interface FastEthernet0/21

shutdown

!

interface FastEthernet0/22

shutdown

!

interface FastEthernet0/23

shutdown

!

interface FastEthernet0/24

shutdown

!

interface GigabitEthernet0/1

!

interface GigabitEthernet0/2

!

interface Vlan1

no ip address

shutdown

!

banner motd ^CAuthorized Access Only!^C

!

!

!

line con 0

password 7 0822455D0A16

login

!

line vty 0 4

login local

transport input ssh

line vty 5 15

login local

transport input ssh

!

!

!

!

End

**SW-GUEST**

Building configuration...

Current configuration : 1665 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

service password-encryption

!

hostname SW-GUEST

!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

no ip domain-lookup

ip domain-name cisconatix.com

!

username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0

!

!

!

spanning-tree mode pvst

spanning-tree extend system-id

!

interface FastEthernet0/1

switchport mode trunk

!

interface FastEthernet0/2

switchport access vlan 35

switchport mode access

switchport port-security

!

interface FastEthernet0/3

shutdown

!

interface FastEthernet0/4

shutdown

!

interface FastEthernet0/5

shutdown

!

interface FastEthernet0/6

shutdown

!

interface FastEthernet0/7

shutdown

!

interface FastEthernet0/8

shutdown

!

interface FastEthernet0/9

shutdown

!

interface FastEthernet0/10

shutdown

!

interface FastEthernet0/11

shutdown

!

interface FastEthernet0/12

shutdown

!

interface FastEthernet0/13

shutdown

!

interface FastEthernet0/14

shutdown

!

interface FastEthernet0/15

shutdown

!

interface FastEthernet0/16

shutdown

!

interface FastEthernet0/17

shutdown

!

interface FastEthernet0/18

shutdown

!

interface FastEthernet0/19

shutdown

!

interface FastEthernet0/20

shutdown

!

interface FastEthernet0/21

shutdown

!

interface FastEthernet0/22

shutdown

!

interface FastEthernet0/23

shutdown

!

interface FastEthernet0/24

shutdown

!

interface GigabitEthernet0/1

shutdown

!

interface GigabitEthernet0/2

shutdown

!

interface Vlan1

no ip address

!

banner motd ^CAuthorized Access Only!^C

!

!

!

line con 0

!

line vty 0 4

password 7 0822455D0A16

login local

line vty 5 15

password 7 0822455D0A16

login local

!

!

!

!

end