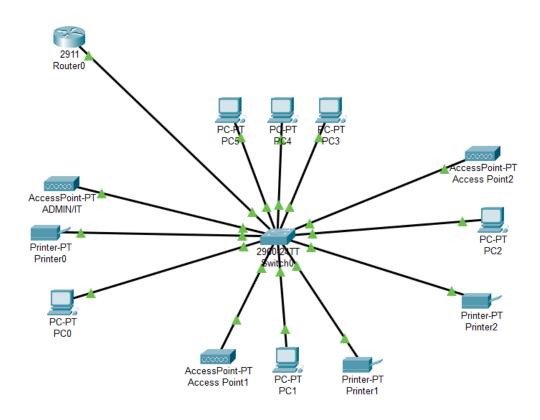
Network Troubleshooting and Enhancement Assignment

Submitted by Jaik lype, ID Number: 24159379

Complete Network Topology Overview



Router Configuration

Device Name: Router0								
Device Model: 2911								
Hostname: Router								
Port	Link	VLAN	IP Address	IPv6 Address	MAC Address			
GigabitEthernet0/0	Up		<not set=""></not>	<not set=""></not>	0010.1144.3B01			
GigabitEthernet0/0.10	Up		192.168.1.62/26	<not set=""></not>	0010.1144.3B01			
GigabitEthernet0/0.20	Up		192.168.1.126/26	<not set=""></not>	0010.1144.3B01			
GigabitEthernet0/0.30	Up		192.168.1.190/26	<not set=""></not>	0010.1144.3B01			
GigabitEthernet0/0.115	Up		192.168.50.1/24	<not set=""></not>	0010.1144.3B01			
GigabitEthernet0/1	Down		<not set=""></not>	<not set=""></not>	0010.1144.3B02			
GigabitEthernet0/2	Down		<not set=""></not>	<not set=""></not>	0010.1144.3B03			
Vlan1	Down	1	<not set=""></not>	<not set=""></not>	0001.42A9.3B9D			

Switch Configuration

Device Name: Switch)					
Custom Device Model:	2960]	OS15				
Hostname: Switch						
Port	Link	VLAN	IP Address	MAC Address		
FastEthernet0/1	$\mathbf{q}\mathbf{U}$			0003.E443.A801		
FastEthernet0/2	\mathbf{q}	10		0003.E443.A802		
FastEthernet0/3	$\mathbf{q}\mathbf{U}$	10		0003.E443.A803		
FastEthernet0/4	$\mathbf{q}\mathbf{U}$	10		0003.E443.A804		
FastEthernet0/5	$\mathbf{q}\mathbf{U}$	20		0003.E443.A805		
FastEthernet0/6	$\mathbf{u}_{\mathbf{p}}$	20		0003.E443.A806		
FastEthernet0/7	$\mathbf{q}\mathbf{U}$	20		0003.E443.A807		
FastEthernet0/8	$\mathbf{q}\mathbf{U}$	30		0003.E443.A808		
FastEthernet0/9	Up	30		0003.E443.A809		
FastEthernet0/10	$\mathbf{q}\mathbf{U}$	30		0003.E443.A80A		
FastEthernet0/11	$\mathbf{q}\mathbf{U}$	115		0003.E443.A80B		
FastEthernet0/12	Up	115		0003.E443.A80C		
FastEthernet0/13	$\mathbf{u}_{\mathbf{p}}$	115		0003.E443.A80D		
FastEthernet0/14	Down	1		0003.E443.A80E		
FastEthernet0/15	Down	1		0003.E443.A80F		
FastEthernet0/16	Down	1		0003.E443.A810		
FastEthernet0/17	Down	1		0003.E443.A811		
FastEthernet0/18	Down	1		0003.E443.A812		
FastEthernet0/19	Down	1		0003.E443.A813		
FastEthernet0/20	Down	1		0003.E443.A814		
FastEthernet0/21	Down	1		0003.E443.A815		
FastEthernet0/22	Down	1		0003.E443.A816		
FastEthernet0/23	Down	1		0003.E443.A817		
FastEthernet0/24	Down	1		0003.E443.A818		
GigabitEthernet0/1	Down	1		0003.E443.A819		
GigabitEthernet0/2	Down	1		0003.E443.A81A		
Vlan1	Down	1	<not set=""></not>	0003.E4CE.3925		
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > SwitchO						

Configurations of PC3, PC4, PC5

PC3

Device Name: PC3 Device Model: PC-PT

 Port
 Link
 IP Address
 IPv6 Address
 MAC Address

 FastEthernet0
 Up
 192.168.50.3/24
 <not set>
 0002.1784.4D2C

 Bluetooth
 Down
 <not set>
 0001.634B.AD0D

Gateway: 192.168.50.1 DNS Server: 192.168.50.1 Line Number: <not set>

Physical Location: Intercity > Home City > Corporate Office > PC3

PC4

Device Name: PC4 Device Model: PC-PT

 Port
 Link
 IP Address
 IPv6 Address
 MAC Address

 FastEthernet0
 Up
 192.168.50.4/24
 <not set>
 0090.2B86.4DA8

 Bluetooth
 Down
 <not set>
 000A.41B7.31E7

Gateway: 192.168.50.1 DNS Server: 192.168.50.1 Line Number: <not set>

Physical Location: Intercity > Home City > Corporate Office > PC4

PC5

Device Name: PC5 Device Model: PC-PT

 Port
 Link
 IP Address
 IPv6 Address
 MAC Address

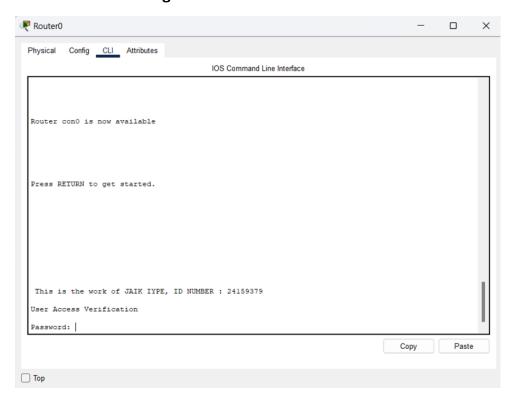
 FastEthernet0
 Up
 192.168.50.2/24
 <not set>
 0060.2F2B.7DE9

 Bluetooth
 Down
 <not set>
 0001.9784.570E

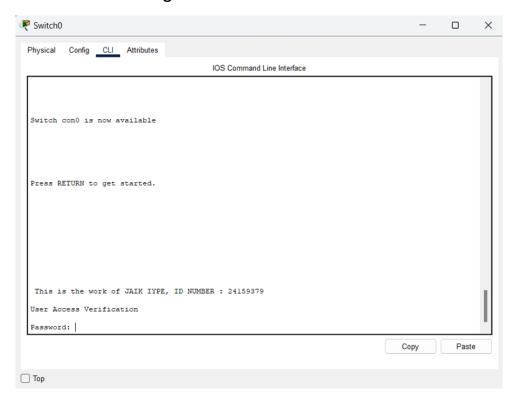
Gateway: 192.168.50.1 DNS Server: 192.168.50.1 Line Number: <not set>

Physical Location: Intercity > Home City > Corporate Office > PC5

Configuration of MOTD Message in Router



Configuration of MOTD Message in Switch



VLAN Configuration- Show VLAN Brief

```
Press RETURN to get started!
This is the work of JAIK IYPE, ID NUMBER: 24159379
User Access Verification
Password:
Switch>show vlan brief
                                     Status Ports
                                   active Fa0/14, Fa0/15, Fa0/16, Fa0/17
                                               Fa0/18, Fa0/19, Fa0/20, Fa0/21
                                                Fa0/22, Fa0/23, Fa0/24, Gig0/1
                                                Gig0/2
10 VLAN0010
20 VLAN0020
30 VLAN0030
                                   active
active
                                               Fa0/2, Fa0/3, Fa0/4
                                              Fa0/5, Fa0/6, Fa0/7
                                     active
                                               Fa0/8, Fa0/9, Fa0/10
115 VLAN115
                                     active
                                               Fa0/11, Fa0/12, Fa0/13
1002 fddi-default
                                     active
1003 token-ring-default
                                     active
1004 fddinet-default
                                     active
1005 trnet-default
                                      active
Switch>
```

DHCP Configuration – Show Run | Section DHCP

```
Router>enable
Password:
Router#show run | section dhcp
ip dhcp pool Admin-Pool
network 192.168.1.0 255.255.255.192
default-router 192.168.1.62
 dns-server 192.168.1.62
domain-name Admin.com
ip dhcp pool Finance-Pool
network 192.168.1.64 255.255.255.192
 default-router 192.168.1.126
dns-server 192.168.1.126
 domain-name Finance.com
ip dhcp pool Reception-Pool
network 192.168.1.128 255.255.255.192
 default-router 192.168.1.190
 dns-server 192.168.1.190
domain-name Reception.com
ip dhcp pool LAN POOL
network 192.168.50.0 255.255.255.0
 default-router 192.168.50.1
 dns-server 192.168.50.1
Router#
```