//LAB-3.1 Switch Security Configs

##SW01##

```
conf t
!
!
username web privilege 15 password 0 web
!
ip http server
ip http authentication local
!
lldp run
!
end
```

##SW02##

```
conf t
!
lldp run
!
end
```

##SW03##

```
conf t
!
crypto key generate rsa
[1024]
!
username test privilege 15 password 0 test
!
ip domain-name acme.org
!
ip ssh maxstartups 5
ip ssh logging events
ip ssh version 2
!
!
access-list 22 permit 192.168.10.0 0.0.0.255
access-list 22 permit 192.168.30.0 0.0.0.255
!
!
line vty 0 4
 access-class 99 in
 login local
 transport input ssh
!
lldp run
!
end
```

##SW04##

```
conf t
!
lldp run
!
end
```

##R01##

```
conf t
!
ip ssh source-interface ethernet 0/1
!
end
```

##R03##

```
conf t
!
ip ssh source-interface ethernet 0/1
!
end
```

//LAB-3.2 Protecting Attacks Configs

##SW01##

```
conf t
!
mac address-table aging-time 100
!
interface Ethernet0/0
 switchport port-security
 switchport port-security maximum 1
 switchport port-security mac-address sticky
 switchport port-security violation shutdown
!
!
end
```

##SW02##

```
conf t
!
mac address-table aging-time 100
!
interface Ethernet0/0
 switchport port-security
 switchport port-security maximum 1
 switchport port-security mac-address aabb.cc00.0300
 switchport port-security violation restrict
!
!
end
```

##SW03##

```
conf t
!
mac address-table aging-time 100
!
ip dhcp snooping
ip dhcp snooping information option
!
interface range ethernet 0/2 - 3
 ip dhcp snooping trust
 ip arp inspection trust
!
interface range ethernet 1/0 - 3
 ip dhcp snooping trust
 ip arp inspection trust
!
!
end
```

##SW04##

```
conf t
!
mac address-table aging-time 100
!
!
end
```

//LAB-3.5 Syslog, SNMP Configs

##SW01##

```
conf t
!
logging 192.168.56.1
!
snmp-server community cisco-full rw
snmp-server community test ro
!
end
```

##SW02##

```
conf t
!
logging 192.168.56.1
!
snmp-server community cisco-full rw
snmp-server community test ro
!
end
```

##SW03##

```
conf t
!
logging 192.168.56.1
!
snmp-server community cisco-full rw
snmp-server community test ro
!
end
```

##SW04##

conf t
!
logging 192.168.56.1
!
snmp-server community cisco-full rw
snmp-server community test ro
!
end

//LAB-3.6 RADIUS Configs

##R03##

conf t
!
!
aaa new-model
!
aaa authentication login default group radius
!
radius-server host 192.168.56.1 key cisco56
!
line vty 0 4
 login authentication default
!
end