

LAB 2

ByteBunch5

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RUNNING-CONFIGURATION

SW1 - BROOM

Building configuration...

Current configuration : 5637 bytes

!

! Last configuration change at 00:34:11 UTC Mon Mar 1 1993

!

version 15.0

no service pad

no service timestamps debug uptime

no service timestamps log uptime

no service password-encryption

!

hostname SW1_broom

!

boot-start-marker

boot-end-marker

!

!

username ByteBunch5 secret 5 \$1\$mERr\$hx5rVt7rPNoS4wqbXKX7m0

no aaa new-model

system mtu routing 1500

!

!

ip domain-name ByteBunch5.com

```
!  
!  
crypto pki trustpoint TP-self-signed-1451958272  
  enrollment selfsigned  
  subject-name cn=IOS-Self-Signed-Certificate-1451958272  
  revocation-check none  
  rsa-keypair TP-self-signed-1451958272  
!  
!  
crypto pki certificate chain TP-self-signed-1451958272  
  certificate self-signed 01  
    3082022B 30820194 A0030201 02020101 300D0609 2A864886 F70D0101 05050030  
    31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D 43657274  
    69666963 6174652D 31343531 39353832 3732301E 170D3933 30333031 30303030  
    35365A17 0D323030 31303130 30303030 305A3031 312F302D 06035504 03132649  
    4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D31 34353139  
    35383237 3230819F 300D0609 2A864886 F70D0101 01050003 818D0030 81890281  
    8100BBD3 00C3A0A9 27408ED8 5035C782 BD503576 8034E0FA 30FAFD39 ADB37701  
    F4E39ED0 750167DF 905C4ACC F9E1DA9F CC420F1D 31558D39 F9207F56 22AC0201  
    D6F30429 E75AB14F 7F29790E A75E09D2 D2992E3F B6E7B161 BB4EBB7B 8D32C7FC  
    A8E4ECF5 8214BED6 BB8F1177 352030B2 461E7682 2E8A4AB5 7C3D8500 3A584461  
    18490203 010001A3 53305130 0F060355 1D130101 FF040530 030101FF 301F0603  
    551D2304 18301680 143E5E36 D5CFD116 DCEC8568 7A24D663 C489E6CC 9A301D06  
    03551D0E 04160414 3E5E36D5 CFD116DC EC85687A 24D663C4 89E6CC9A 300D0609  
    2A864886 F70D0101 05050003 81810003 3161058B C4C0F495 6864B9C0 88B5BFEA  
    D6EFB759 8DFD2E99 57B9CF15 7EE97A94 682E2BF3 2C438ACE 08D4656C 7572944F  
    E83D8CEC 16B847DC E465AC40 2E4910CC FDD83E27 4A1ADFBB 233F6060 4973AFB9  
    90947FF0 ADF92392 CC75CB8B C77413A4 E8E737B8 355FDF8A CCE68E08 A15E8379  
    6C957699 A799A2AE 2BA0C549 B2091E  
  quit  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree portfast default  
spanning-tree portfast bpduguard default  
spanning-tree extend system-id  
!  
vlan internal allocation policy ascending  
!  
ip ssh version 2  
!
```

```
!  
!  
!  
!  
interface Port-channel1  
  switchport trunk native vlan 20  
  switchport trunk allowed vlan 10,20,30,40  
  switchport mode trunk  
  switchport nonegotiate  
!  
interface FastEthernet0/1  
  description Trunk port towards the router  
  switchport trunk native vlan 20  
  switchport trunk allowed vlan 10,20,30,40  
  switchport mode trunk  
  switchport nonegotiate  
!  
interface FastEthernet0/2  
  description Access port in VLAN 40 for Saana's comp  
  switchport access vlan 40  
  switchport mode access  
  switchport port-security maximum 4  
  switchport port-security mac-address sticky  
  switchport port-security mac-address sticky a0ce.c8d3.8166  
  switchport port-security  
  spanning-tree portfast  
  spanning-tree bpduguard enable  
!  
interface FastEthernet0/3  
  switchport access vlan 999  
  switchport mode access  
  shutdown  
!  
interface FastEthernet0/4  
  switchport access vlan 999  
  switchport mode access  
  shutdown  
!  
interface FastEthernet0/5  
  switchport access vlan 999  
  switchport mode access  
  shutdown  
!  
interface FastEthernet0/6
```

```
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/7
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/8
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/9
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/10
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/11
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/12
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/13
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/14
switchport access vlan 999
switchport mode access
shutdown
```

```
!
```

```
interface FastEthernet0/15
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/16
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/17
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/18
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/19
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/20
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/21
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/22
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/23
  switchport access vlan 999
  switchport mode access
  shutdown
```

```
!  
interface FastEthernet0/24  
  switchport access vlan 999  
  switchport mode access  
  shutdown  
!  
interface GigabitEthernet0/1  
  description Interfaces between switches for EtherChannel  
  switchport trunk native vlan 20  
  switchport trunk allowed vlan 10,20,30,40  
  switchport mode trunk  
  switchport nonegotiate  
  channel-group 1 mode desirable  
!  
interface GigabitEthernet0/2  
  description Interfaces between switches for EtherChannel  
  switchport trunk native vlan 20  
  switchport trunk allowed vlan 10,20,30,40  
  switchport mode trunk  
  switchport nonegotiate  
  channel-group 1 mode desirable  
!  
interface Vlan1  
  no ip address  
  shutdown  
!  
interface Vlan10  
  ip address 192.168.10.2 255.255.255.0  
!  
ip http server  
ip http secure-server  
!  
vstack  
!  
line con 0  
line vty 0 4  
  login local  
  transport input ssh  
line vty 5 15  
  login local  
  transport input ssh  
!  
End
```

SW 2

Building configuration...

Current configuration : 5731 bytes

!

! Last configuration change at 02:21:45 UTC Mon Mar 1 1993

!

version 15.0

no service pad

no service timestamps debug uptime

no service timestamps log uptime

no service password-encryption

!

hostname SW2

!

boot-start-marker

boot-end-marker

!

!

username ByteBunch5 secret 5 \$1\$mERr\$hX5rVt7rPNoS4wqbXKX7m0

no aaa new-model

system mtu routing 1500

!

!

ip domain-name ByteBunch5.com

!

!

crypto pki trustpoint TP-self-signed-1443785216

enrollment selfsigned

subject-name cn=IOS-Self-Signed-Certificate-1443785216

revocation-check none

rsa-keypair TP-self-signed-1443785216

!

!

crypto pki certificate chain TP-self-signed-1443785216

certificate self-signed 01

3082022B 30820194 A0030201 02020101 300D0609 2A864886 F70D0101 05050030

31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D 43657274

69666963 6174652D 31343433 37383532 3136301E 170D3933 30333031 30303030

35395A17 0D323030 31303130 30303030 305A3031 312F302D 06035504 03132649

4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D31 34343337

38353231 3630819F 300D0609 2A864886 F70D0101 01050003 818D0030 81890281

```
8100D435 31BC841D 78DECE18 827FA7E7 8F8808B0 61E9B1B5 CBDDDEF6 97738F9D
07E52630 BA7B75E5 F970A3DE A93485E1 F8C4545A 715E80D2 DB9B3DBC C68E0DB4
BE55E6EE 6AECCC33 D5EB6D67 49ED05B1 AF8022C7 0E574CAE B5372DC1 B2436A1D
13C809B1 75E6CE59 A7082D64 1B568D0E 1A4E867E 58F4E676 0CBD0339 C9AED828
E7930203 010001A3 53305130 0F060355 1D130101 FF040530 030101FF 301F0603
551D2304 18301680 143551EE C1010E22 F2611B9B A04165BF A27A8C8F 3E301D06
03551D0E 04160414 3551EEC1 010E22F2 611B9BA0 4165BFA2 7A8C8F3E 300D0609
2A864886 F70D0101 05050003 818100A3 3591C51A 3EDD0203 6FC72278 520E8776
11F0650B EBE35AA6 1D3BFD46 ABE4BE26 BACBA247 94DC96ED A24BAB21 543C4B39
D357A811 F3C8B171 9463A77B 1E25D232 39824C61 996186D1 C56B7F14 FC0D6FF6
EE3FA900 OCD6EA6A 9F19AB80 02AFC5CE DC9FB36C E260AF0D 60DBC38C A1384FEB
F8F2E576 60592F63 247500F6 170F23
```

quit

```
!
!
!
!
!
```

```
spanning-tree mode pvst
spanning-tree portfast default
spanning-tree portfast bpduguard default
spanning-tree extend system-id
```

```
!
```

```
vlan internal allocation policy ascending
```

```
!
```

```
ip ssh version 2
```

```
!
!
!
!
!
```

```
interface Port-channel1
```

```
switchport trunk native vlan 20
switchport trunk allowed vlan 10,20,30,40
switchport mode trunk
switchport nonegotiate
```

```
!
```

```
interface FastEthernet0/1
```

```
description Access port in VLAN 30 for Student computer
switchport access vlan 30
switchport mode access
switchport port-security maximum 10
switchport port-security violation restrict
switchport port-security mac-address sticky
```



```
switchport port-security mac-address sticky 88a4.c2c1.4273
switchport port-security mac-address sticky a0ce.c8d2.f60c
switchport port-security aging time 60
switchport port-security aging type inactivity
switchport port-security
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/2
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/3
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/4
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/5
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/6
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/7
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/8
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/9
```

```
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/10
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/11
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/12
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/13
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/14
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/15
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/16
switchport access vlan 999
switchport mode access
shutdown
!
interface FastEthernet0/17
switchport access vlan 999
switchport mode access
shutdown
!
```

```
interface FastEthernet0/18
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/19
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/20
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/21
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/22
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/23
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface FastEthernet0/24
  switchport access vlan 999
  switchport mode access
  shutdown
!
interface GigabitEthernet0/1
  description Interfaces between switches for the EtherChannel
  switchport trunk native vlan 20
  switchport trunk allowed vlan 10,20,30,40
  switchport mode trunk
  switchport nonegotiate
  channel-group 1 mode desirable
!
interface GigabitEthernet0/2
```

```
description Interfaces between switches for the EtherChannel
switchport trunk native vlan 20
switchport trunk allowed vlan 10,20,30,40
switchport mode trunk
switchport nonegotiate
channel-group 1 mode desirable
!
interface Vlan1
no ip address
shutdown
!
interface Vlan10
ip address 192.168.10.3 255.255.255.0
!
ip default-gateway 192.168.10.1
ip http server
ip http secure-server
!
vstack
!
line con 0
line vty 0 4
login local
transport input ssh
line vty 5 15
login local
transport input ssh
!
end
```

ROUTER

Building configuration...

Current configuration : 2295 bytes

!

! Last configuration change at 12:48:41 UTC Mon Jan 2 2006

! NVRAM config last updated at 12:48:51 UTC Mon Jan 2 2006

! NVRAM config last updated at 12:48:51 UTC Mon Jan 2 2006

version 15.1

no service timestamps debug uptime

```
no service timestamps log uptime
no service password-encryption
!
hostname Router_on_a_stick
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
memory-size iomem 5
!
dot11 syslog
ip source-route
!
!
ip cef
!
ip dhcp excluded-address 192.168.30.1 192.168.30.10
ip dhcp excluded-address 192.168.40.1 192.168.40.10
ip dhcp excluded-address 192.168.30.254
ip dhcp excluded-address 192.168.40.254
!
ip dhcp pool Students
network 192.168.30.0 255.255.255.0
default-router 192.168.30.1
dns-server 8.8.8.8
!
ip dhcp pool Saana
network 192.168.40.0 255.255.255.0
default-router 192.168.40.1
dns-server 8.8.8.8
!
!
no ipv6 cef
!
multilink bundle-name authenticated
!
```

```
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
voice-card 0  
!  
crypto pki token default removal timeout 0  
!  
!  
!  
!  
license udi pid CISCO2811 sn FCZ112871PS  
username ByteBunch5 secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0  
!  
redundancy  
!  
!  
ip ssh version 2  
!  
!  
!  
!  
!  
!  
!  
!  
!  
interface FastEthernet0/0  
no ip address  
shutdown  
duplex auto  
speed auto  
!  
interface FastEthernet0/1  
description Trunk link to SW1
```

```
no ip address
duplex auto
speed auto
!
interface FastEthernet0/1.10
description Remote_Management default Gateway
encapsulation dot1Q 10
ip address 192.168.10.1 255.255.255.0
!
interface FastEthernet0/1.20
description Interface for native VLAN 20
encapsulation dot1Q 20 native
!
interface FastEthernet0/1.30
description Smart_IoT_Students default Gateway
encapsulation dot1Q 30
ip address 192.168.30.1 255.255.255.0
!
interface FastEthernet0/1.40
description Saana_LabRats default Gateway
encapsulation dot1Q 40
ip address 192.168.40.1 255.255.255.0
!
interface Serial0/0/0
no ip address
shutdown
clock rate 2000000
!
interface Serial0/0/1
no ip address
shutdown
clock rate 2000000
!
ip forward-protocol nd
no ip http server
no ip http secure-server
!
ip flow-export version 9
!
!
```

```
!  
!  
!  
!  
!  
!  
control-plane  
!  
!  
!  
!  
mgcp profile default  
!  
!  
!  
!  
!  
line con 0  
line aux 0  
line vty 0 4  
  no login  
  transport input none  
line vty 5 15  
  no login  
  transport input none  
!  
scheduler allocate 20000 1000  
end
```