

How to setup trunk interface on WAN port

Topology:

PC1 (10.90.90.100) ----- (port 3) ----- cisco switch (port 2 trunk) ----- DFL-210

PC2 (192.168.20.100) ----- (port 5)

PC3 (192.168.30.100) ----- (port 7)

PC 1: VLAN 1

PC 2: VLAN 2

PC 3: VLAN 3

Customer wants to achieve the following solutions:

1. Create Three VLANs on DFL as in Cisco switch (VLAN 1,2,3)
2. Make a switch port member of the Three VLANs as well as DFL's WAN_1 port
3. Tagged the switch port for two of the VLANs (VLAN 2 and 3)
4. Untagged same switch port for VLAN 1 (default or native VLAN)
5. The untagged port (default VLAN) will be used for management.

Step:

(1) Configuration CISCO switches.

Port 2: trunk

Port 5-6: VLAN 2

Port 7-8: VLAN 3

```
Switch#show vlan brief
-----
VLAN Name                Status    Ports
-----
1    default                active    Fa0/1, Fa0/3, Fa0/4, Fa0/9
                Fa0/10, Fa0/11, Fa0/12, Fa0/13
                Fa0/14, Fa0/15, Fa0/16, Fa0/17
                Fa0/18, Fa0/19, Fa0/20, Fa0/21
                Fa0/22, Fa0/23, Fa0/24, Gi0/1
                Gi0/2
2    vlan2                  active    Fa0/5, Fa0/6
3    vlan3                  active    Fa0/7, Fa0/8
10   VLAN0010                active
20   VLAN0020                active
30   VLAN0030                active
50   VLAN0050                active
100  VLAN0100                active
261  VLAN0261                active
304  VLAN0304                active
404  VLAN0404                active
1002 fddi-default            act/unsup
1003 token-ring-default    act/unsup
1004 fddinet-default       act/unsup
1005 trnet-default         act/unsup
Switch#
Switch#
Switch#show inter
Switch#show interfaces fa
Switch#show interfaces fast
Switch#show interfaces fastEthernet 0/2 trunk
Switch#show interfaces fastEthernet 0/2 trunk

Port      Mode                Encapsulation  Status      Native vlan
Fa0/2    on                   802.1q         trunking    1

Port      Vlans allowed on trunk
Fa0/2    1-4094

Port      Vlans allowed and active in management domain
Fa0/2    1-3,10,20,30,50,100,261,304,404

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/2    1-3,10,20,30,50,100,261,304,404
Switch#
```

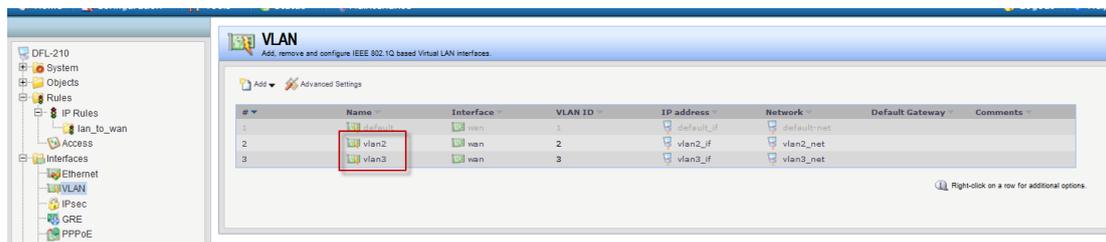
```
Switch#show ver
Switch#show version
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 12.2(55)SE, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2010 by Cisco Systems, Inc.
Compiled Sat 07-Aug-10 23:04 by prod_rel_team
Image text-base: 0x00003000, data-base: 0x01800000

ROM: Bootstrap program is C2960 boot loader
BOOTLDR: C2960 Boot Loader (C2960-HB00T-M) Version 12.2(44)SE5, RELEASE SOFTWARE (fc1)

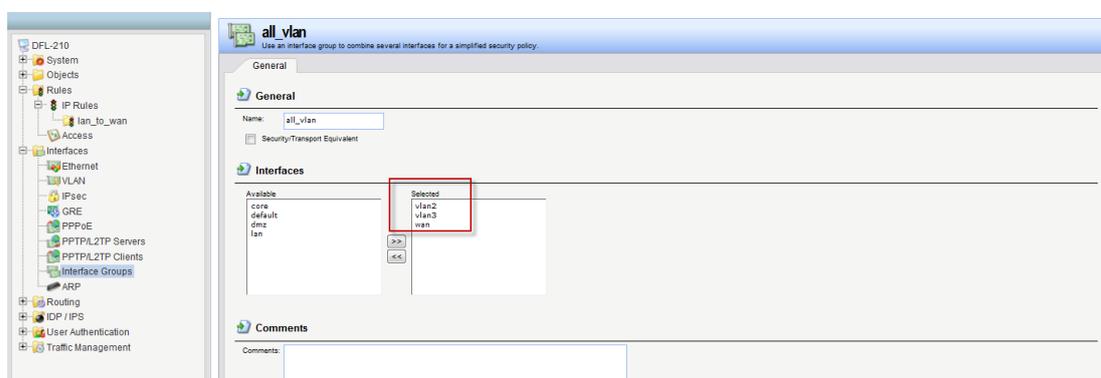
Switch uptime is 2 hours, 2 minutes
system returned to ROM by power-on
system image file is "flash:/c2960-lanbasek9-mz.122-55.SE/c2960-lanbasek9-mz.122-55.SE.bin"

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
Switch#
```

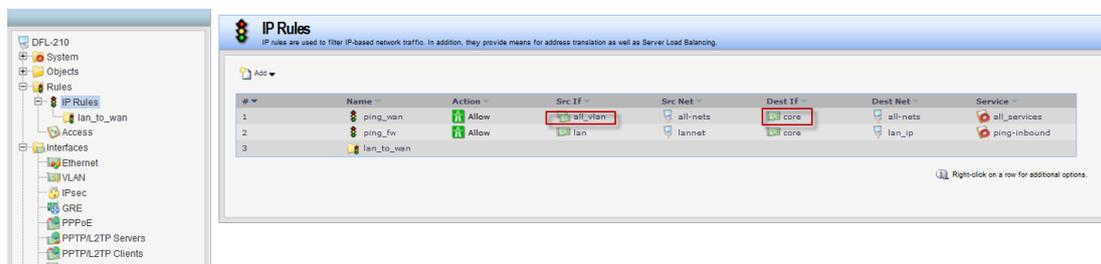
(2) You just need to configuration VLAN 2 and 3, because VLAN 1 is default VLAN.



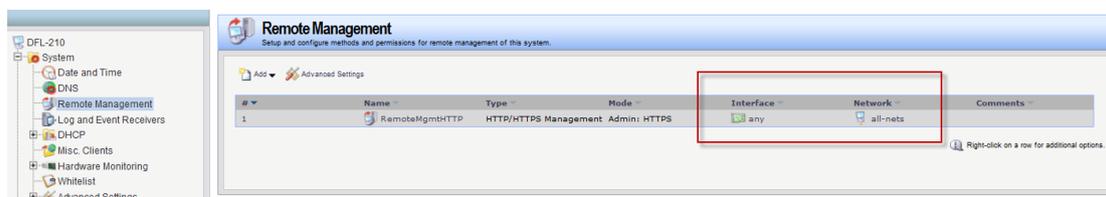
(3) Create interface group then add VLAN 2, 3 and WAN interface in this group.



(4) Create IP rule for VLAN interface.



(5) Change remote management interface from LAN to ANY!



(6) DFL can ping PC 1, 2 and 3. Now, we can make sure traffic can pass through trunk to reach other device.

Ping
Tool for sending ICMP pings. Useful for testing network connectivity.

IP Address: 10.90.90.100
Number of Packets: 7
Packet Size: 32

Results of ping to 10.90.90.100:

Seq	Roundtrip	TTL
0	10 ms	128
1	10 ms	128
2	10 ms	128
3	10 ms	128
4	10 ms	128
5	10 ms	128
6	10 ms	128

7 packets transmitted, 7 packets received, 0% packet loss.
Round trip time average: 10 ms.

Ping
Tool for sending ICMP pings. Useful for testing network connectivity.

IP Address: 192.168.20.100
Number of Packets: 7
Packet Size: 32

Results of ping to 192.168.20.100:

Seq	Roundtrip	TTL
0	10 ms	128
1	10 ms	128
2	10 ms	128
3	10 ms	128
4	10 ms	128
5	10 ms	128
6	10 ms	128

7 packets transmitted, 7 packets received, 0% packet loss.
Round trip time average: 10 ms.

Ping
Tool for sending ICMP pings. Useful for testing network connectivity.

IP Address: 192.168.30.100
Number of Packets: 7
Packet Size: 32

Results of ping to 192.168.30.100:

Seq	Roundtrip	TTL
0	10 ms	128
1	10 ms	128
2	10 ms	128
3	10 ms	128
4	10 ms	128
5	10 ms	128
6	10 ms	128

7 packets transmitted, 7 packets received, 0% packet loss.
Round trip time average: 10 ms.

END