**Lab # 04**

VIRTUAL LAN

# OBJECTIVE

Implementation of Virtual LAN (VLAN) Operation.

**Lab Task:**

Switch>

Switch>

Switch>en

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- ------------------------------- 1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

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

1. fddi-default act/unsup
2. token-ring-default act/unsup
3. fddinet-default act/unsup
4. trnet-default act/unsup

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------

1 enet 100001 1500 - - - - - 0 0

1. fddi 101002 1500 - - - - - 0 0
2. tr 101003 1500 - - - - - 0 0
3. fdnet 101004 1500 - - - ieee - 0 0
4. trnet 101005 1500 - - - ibm - 0 0

Remote SPAN VLANs

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Primary Secondary Type Ports

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Switch#

Switch#

Switch#

Switch#

Switch#config t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 2

Switch(config-vlan)#name IT

Switch(config-vlan)#int range f0/3-4

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 2

Switch(config-if-range)#exit

Switch(config)#exit

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- ------------------------------- 1 default active Fa0/1, Fa0/2, Fa0/5, Fa0/6

Fa0/7, Fa0/8, 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

2 IT active Fa0/3, Fa0/4

1. fddi-default act/unsup
2. token-ring-default act/unsup
3. fddinet-default act/unsup
4. trnet-default act/unsup

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------

1. enet 100001 1500 - - - - - 0 0
2. enet 100002 1500 - - - - - 0 0
3. fddi 101002 1500 - - - - - 0 0
4. tr 101003 1500 - - - - - 0 0
5. fdnet 101004 1500 - - - ieee - 0 0
6. trnet 101005 1500 - - - ibm - 0 0

Remote SPAN VLANs

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Primary Secondary Type Ports

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Switch#

Switch#

Switch#

Switch#config t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 3

Switch(config-vlan)#name HR

Switch(config-vlan)#int range f0/5-6

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 3

Switch(config)#exit

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- ------------------------------- 1 default active Fa0/1, Fa0/2, Fa0/7, Fa0/8

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

1. IT active Fa0/3, Fa0/4
2. HR active Fa0/5, Fa0/6
3. fddi-default act/unsup
4. token-ring-default act/unsup
5. fddinet-default act/unsup
6. trnet-default act/unsup

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------

1. enet 100001 1500 - - - - - 0 0
2. enet 100002 1500 - - - - - 0 0
3. enet 100003 1500 - - - - - 0 0
4. fddi 101002 1500 - - - - - 0 0
5. tr 101003 1500 - - - - - 0 0
6. fdnet 101004 1500 - - - ieee - 0 0
7. trnet 101005 1500 - - - ibm - 0 0

Remote SPAN VLANs

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Primary Secondary Type Ports

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Switch#

Switch#

Switch#config t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 4

Switch(config-vlan)#name ACCOUNTING

Switch(config-vlan)#int range f0/7-8

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 4

Switch(config-if-range)#exit

Switch(config)#exit

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- ------------------------------- 1 default active Fa0/1, Fa0/2, 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

1. IT active Fa0/3, Fa0/4
2. HR active Fa0/5, Fa0/6
3. ACCOUNTING active Fa0/7, Fa0/8
4. fddi-default act/unsup
5. token-ring-default act/unsup
6. fddinet-default act/unsup
7. trnet-default act/unsup

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------

1. enet 100001 1500 - - - - - 0 0
2. enet 100002 1500 - - - - - 0 0
3. enet 100003 1500 - - - - - 0 0
4. enet 100004 1500 - - - - - 0 0

Switch#