COMPUTER NETWORKS
PRACTICUM 4

By :

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INFORMATION TECHNOLOGY

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Activity 1 : 1. Topologi 1

1. Make the following topology using packet tracer
2. Give the name of each device

       a. Switch: SW

       b. PC0: Leo c.
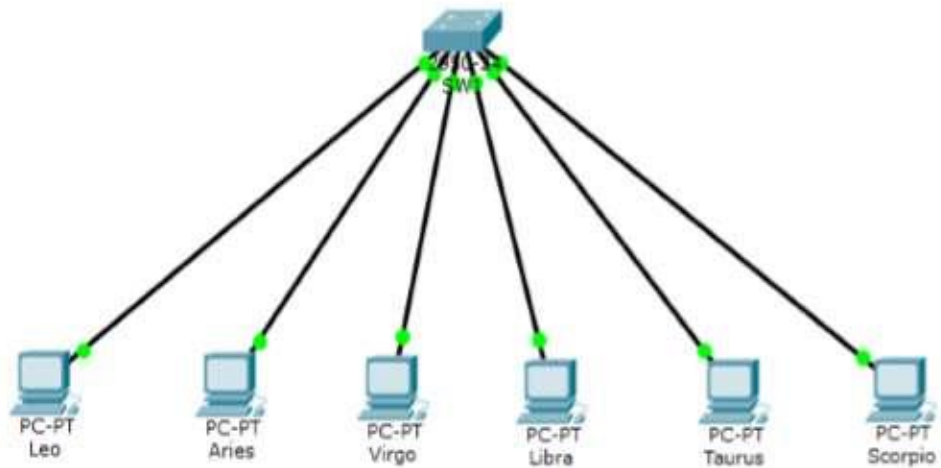
       Pc1: Aries d.

       Pc2: Virgo e.

       PC3: Libra f.

       Pc4: Taurus

       g. Pc5: Scorpio

3. Change the configuration of each PC
    a. Leo: 172.21.1.1/24
    b. Aries : 172.21.1.2/24
    c. Virgo : 172.21.1.3/24
    d. Libra : 172.21.1.4/24
    e. Taurus : 172.21.1.5/24
    f. Scorpio: 172.21.1.6/24

        /24 means enter to class c

Aries

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

IP Configuration

○ DHCP   ⦿ Static

IP Address   172.21.1.2

Subnet Mask   255.255.255.0

Default Gateway   0.0.0.0

DNS Server   0.0.0.0

IPv6 Configuration

○ DHCP   ○ Auto Config   ⦿ Static

IPv6 Address   /

Link Local Address   FE80::230:A3FF:FE7E:1606

IPv6 Gateway

IPv6 DNS Server

☐ Top

Virgo

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

IP Configuration

○ DHCP   ⦿ Static

IP Address   172.21.1.3

Subnet Mask   255.255.255.0

Default Gateway   0.0.0.0

DNS Server   0.0.0.0

IPv6 Configuration

○ DHCP   ○ Auto Config   ⦿ Static

IPv6 Address   /

Link Local Address   FE80::201:C9FF:FE64:C6CA

IPv6 Gateway

IPv6 DNS Server

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Libra — □ ✕

Physical | Config | Desktop | Attributes | Software/Services

IP Configuration ✕

IP Configuration

○ DHCP ● Static

IP Address | 172.21.1.4

Subnet Mask | 255.255.255.0

Default Gateway |

DNS Server |

IPv6 Configuration

○ DHCP ○ Auto Config ● Static

IPv6 Address | /

Link Local Address | FE80::2D0:D3FF:FE09:8B82

IPv6 Gateway |

IPv6 DNS Server |

☐ Top

Activ

Taurus ▢ ▣ ▨

Physical | Config | Desktop | Programming | Attributes

IP Configuration ✕

IP Configuration

○ DHCP ● Static

IP Address | 172.21.1.5

Subnet Mask | 255.255.255.0

Default Gateway | 0.0.0.0

DNS Server | 0.0.0.0

IPv6 Configuration

○ DHCP ○ Auto Config ● Static

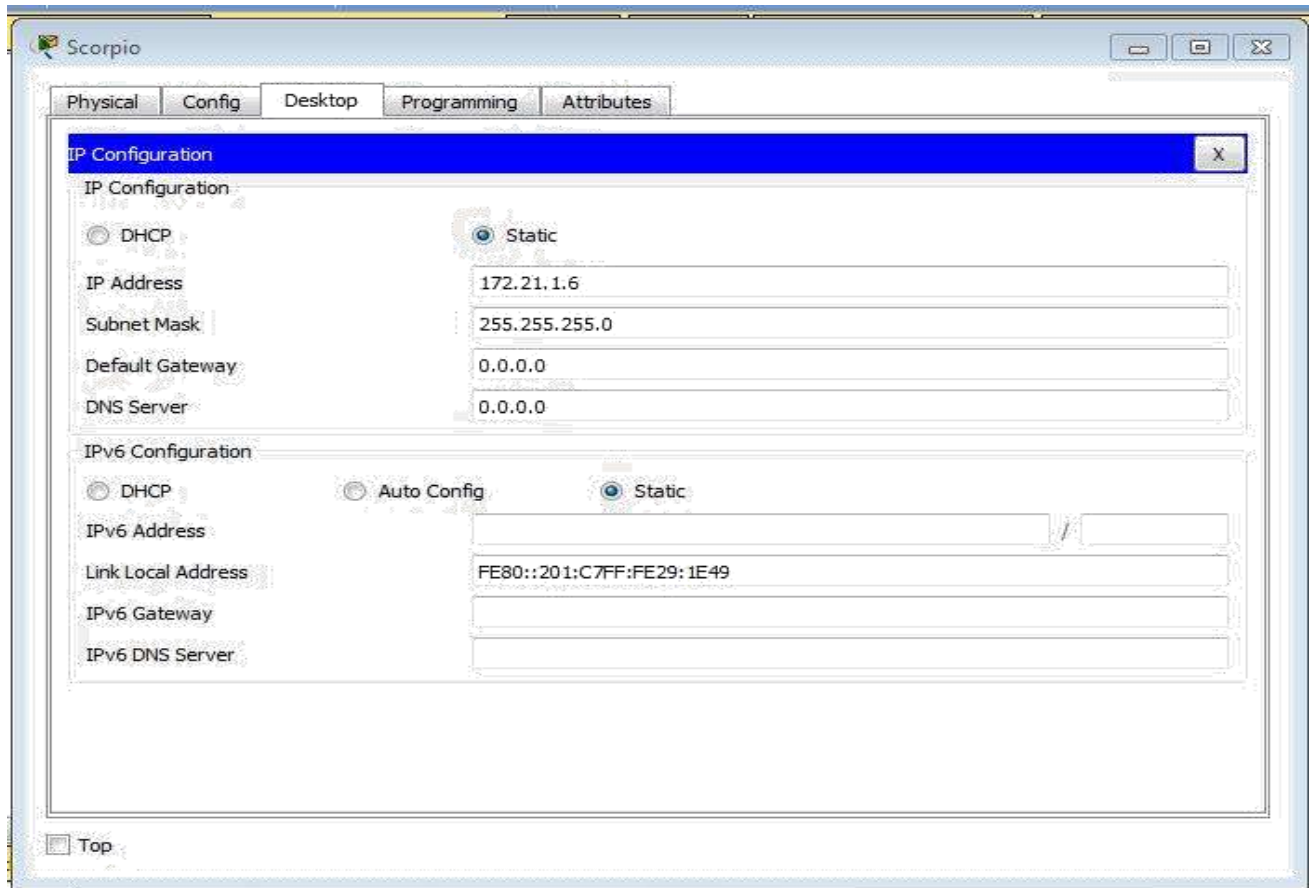IPv6 Address | /

Link Local Address | FE80::260:5CFF:FE96:CB00

IPv6 Gateway |

IPv6 DNS Server |

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4. Make 3 pieces of Vlan with the names zodiac1, zodiac2, and zodiac3
5. Then in configuration mode, group the switch ports into the Zodiac1, zodiac2, and zodiac3 VLANs. The setting is :
    - Zodiak1   : leo and libra
    - Zodiak2   : aries and Taurus
    - Zodiak3   : virgo dan scorpio

```
SW1

| Physical | Config | CLI | Attributes |

                                                              IOS C

    Switch>enable
    Switch#conf term
    Enter configuration commands, one per line.  End with CNTL/Z.
    Switch(config)#vlan 10
    Switch(config-vlan)#name zodiak1
    Switch(config-vlan)#exit
    Switch(config)#vlan 20
    Switch(config-vlan)#name zodiak2
    Switch(config-vlan)#exit
    Switch(config)#vlan 30
    Switch(config-vlan)#name zodiak3
    Switch(config-vlan)#exit
    Switch(config)#int fa 0/1
    Switch(config-if)#sw mode access
    Switch(config-if)#sw access vlan 10
    Switch(config-if)#int fa 0/4
    Switch(config-if)#sw mode access
    Switch(config-if)#sw access vlan 10
    Switch(config-if)#int fa 0/2
    Switch(config-if)#sw mode access
    Switch(config-if)#sw access vlan 20
    Switch(config-if)#int fa 0/3
    Switch(config-if)#sw mode access
    Switch(config-if)#sw access vlan 30
    Switch(config-if)#int fa 0/5
    Switch(config-if)#sw mode access
    Switch(config-if)#sw access vlan 20
    Switch(config-if)#sw mode access
    Switch(config-if)#sw access vlan 30
    Switch(config-if)#end
```

6. Displays Vlan information in its entirety

```
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    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
10   zodiak1                          active    Fa0/1, Fa0/4
20   zodiak2                          active    Fa0/2
30   zodiak3                          active    Fa0/3, Fa0/5
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active
Switch#show vlan id 10

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
10   zodiak1                          active    Fa0/1, Fa0/4

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
10   enet  100010     1500  -      -      -        -    -        0      0
```

7. Display information vlan 10, 20, and 30

```
Switch#show vlan id 10

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
10   zodiak1                          active    Fa0/1, Fa0/4

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
10   enet  100010     1500  -      -      -        -    -        0      0

Switch#show vlan id 20

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
20   zodiak2                          active    Fa0/2

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
20   enet  100020     1500  -      -      -        -    -        0      0

Switch#show vlan id 30

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
30   zodiak3                          active    Fa0/3, Fa0/5

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
30   enet  100030     1500  -      -      -        -    -        0      0

Switch#
```