

PRAKTIKUM JARINGAN KOMPUTER

MODUL 4

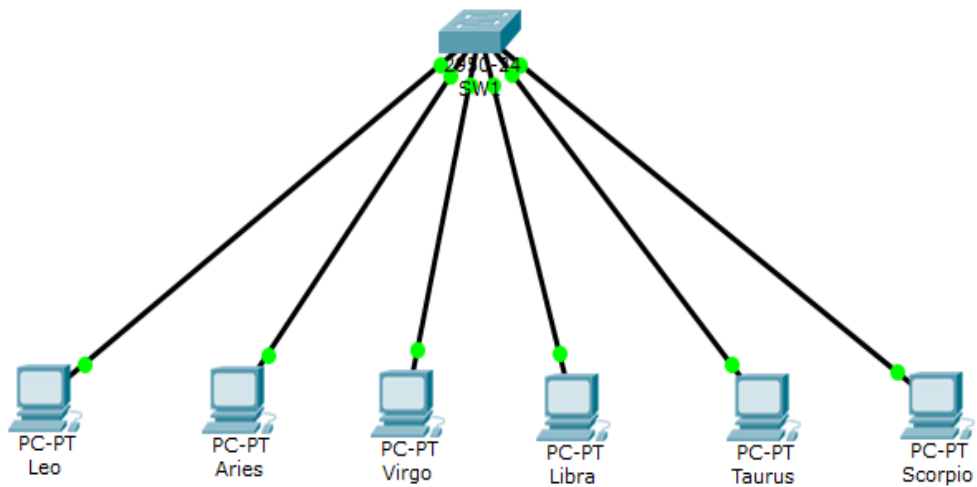
Nama : Tasya Farah Putri A.

Kelas : D

NIM : L200170146

Kegiatan 1 : 1. Topologi 1

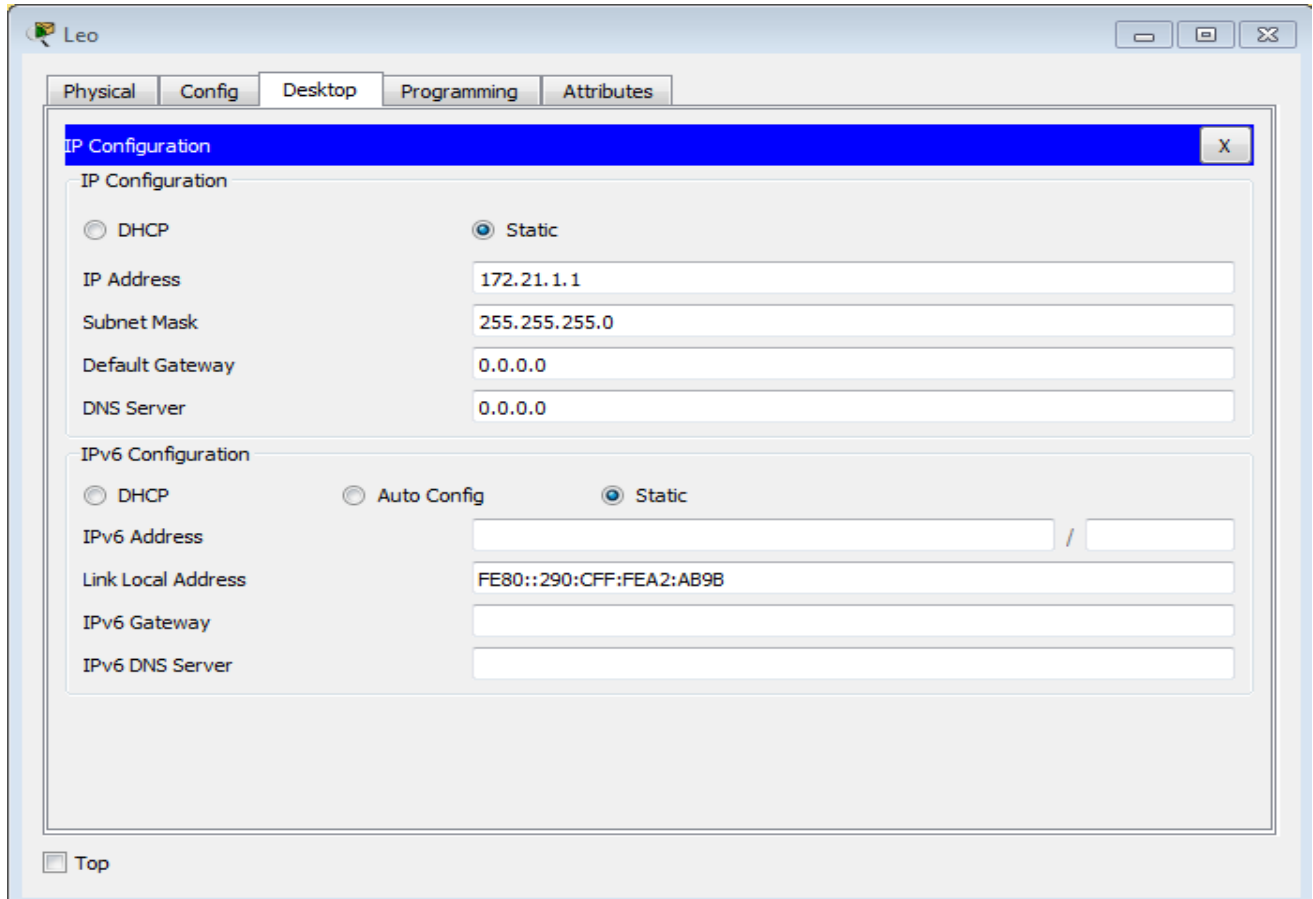
1. Membuat topologi berikut ini menggunakan packet tracer
2. Memberi nama masing masing perangkat
 - a. Switch : SW
 - b. Pc0 : Leo
 - c. Pc1 : Aries
 - d. Pc2 : Virgo
 - e. Pc3 : Libra
 - f. Pc4 : Taurus
 - g. Pc5 : Scorpio



3. Merubah konfigurasi tiap 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 maksudnya adalah masuk kelas c



Aries

Physical Config Desktop Programming Attributes

IP Configuration

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

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

Top

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

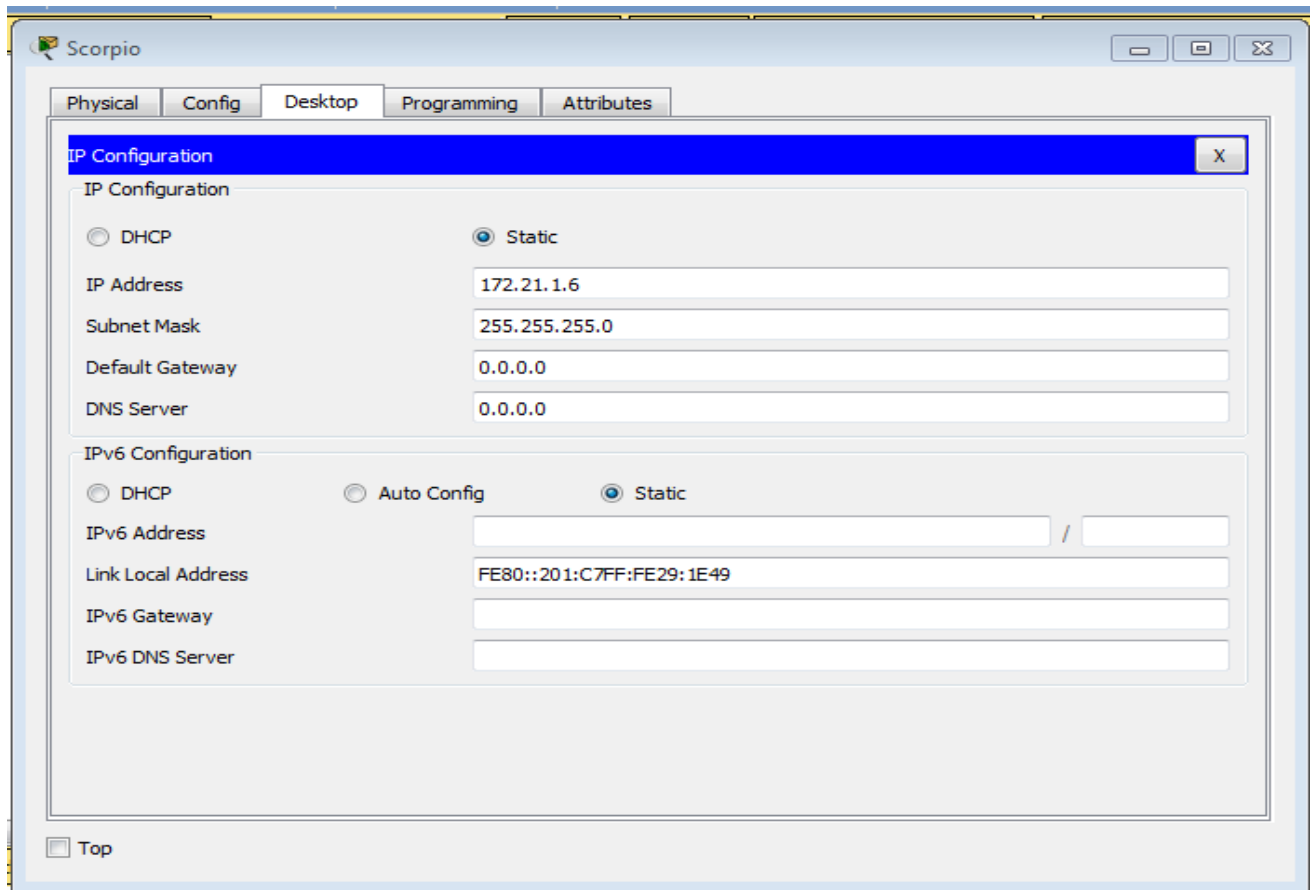
IPv6 Address: /

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

IPv6 Gateway:

IPv6 DNS Server:

☐ Top



4. Membuat 3 buah Vlan dengan nama zodiak1, zodiak2, dan zodiak3
5. Selanjutnya pada mode konfigurasi, kelompokkan port-port switch ke dalam VLAN zodiak1, zodiak2, dan zodiak3. Pengaturannya sebagai berikut :
 - Zodiak1 : leo dan libra
 - Zodiak2 : aries dan 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. Menampilkan informasi Vlan secara keseluruhan

```

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. Menampilkan informasi vlan 10, 20,dan 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  BrgdMode 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  BrgdMode 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  BrgdMode Trans1 Trans2
-----
30   enet    100030    1500    -      -      -      -    -         0      0

Switch#
```

8.

Informasi VLAN 2

No	variabel	Nilai
1	Nomor VLAN	10
2	Nama VLAN	zodiak1
3	Port	fa 0/1, fa 0/4
4	Status	active

Informasi VLAN 3

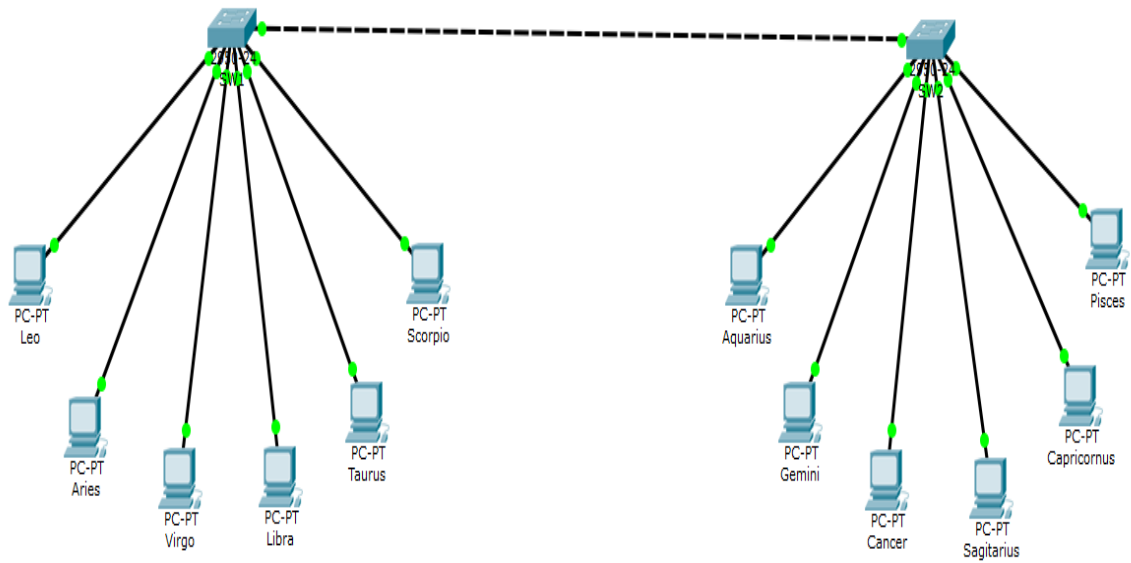
No	variabel	Nilai
1	Nomor VLAN	20
2	Nama VLAN	zodiak2
3	Port	fa 0/2
4	Status	active

Informasi VLAN 4

No	variabel	Nilai
1	Nomor VLAN	30
2	Nama VLAN	zodiak3
3	Port	fa 0/3, fa 0/5
4	Status	active

Kegiatan 2. Topologi 2

1. Membuat topologi berikut ini menggunakan packet tracer
2. Memberi nama masing masing perangkat
 - a. Switch1 : SW1
 - b. Pc0 : Leo
 - c. Pc1 : Aries
 - d. Pc2 : Virgo
 - e. Pc3 : Libra
 - f. Pc4 : Taurus
 - g. Pc5 : Scorpio
 - h. Switch2 : SW2
 - i. Pc6 : Aquarius
 - j. Pc7 : Gemini
 - k. Pc8 : Cancer
 - l. Pc9 : Sagitarius
 - m. Pc10 : Capricornus
 - n. Pc11 : Pisces



9. Merubah konfigurasi tiap PC

- a. Leo : 172.21.1.1/24
- b. Aries : 172.21.1.2/24
- c. Virgo : 172.21.2.1/24
- d. Libra : 172.21.2.2/24
- e. Taurus : 172.21.3.1/24
- f. Scorpio : 172.21.3.2/24
- g. Aquarius : 172.21.1.3/24
- h. Gemini : 172.21.1.4/24
- i. Cancer : 172.21.2.3/24
- j. Sagitarius : 172.21.2.4/24
- k. Capricornus : 172.21.3.3/24
- l. Pisces : 172.21.3.4/24

/24 maksudnya adalah masuk kelas c

Leo

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.1

Subnet Mask 255.255.255.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20B:BEFF:FE46:D5AA

IPv6 Gateway

IPv6 DNS Server

Top

Aries

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.2

Subnet Mask 255.255.255.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:FFFF:FEA3:4D36

IPv6 Gateway

IPv6 DNS Server

Top

Virgo

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.1

Subnet Mask 255.255.255.0

Default Gateway

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:63FF:FE52:668A

IPv6 Gateway

IPv6 DNS Server

Top

Activ

Libra

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.2

Subnet Mask 255.255.255.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20A:41FF:FE80:8070

IPv6 Gateway

IPv6 DNS Server

Top

Activ

Taurus

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.3.1

Subnet Mask: 255.255.255.0

Default Gateway:

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:58FF:FE0A:5735

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Activ

Scorpio

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.3.2

Subnet Mask: 255.255.255.0

Default Gateway:

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2E0:F9FF:FE68:83E9

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Activ

Aquarius

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.1.3

Subnet Mask: 255.255.255.0

Default Gateway:

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:BAFF:FE34:39EA

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Gemini

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: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::250:FFF:FEDE:7891

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Cancer

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.3

Subnet Mask 255.255.255.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:63FF:FE39:B33E

IPv6 Gateway

IPv6 DNS Server

Top

Activ

Sagittarius

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.2.4

Subnet Mask 255.255.255.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::260:70FF:FE63:6222

IPv6 Gateway

IPv6 DNS Server

Top

Activ

Capricornus

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.3.3

Subnet Mask 255.255.255.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::230:F2FF:FE61:1250

IPv6 Gateway

IPv6 DNS Server

Top

Pisces

Physical Config Desktop Attributes Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.3.4

Subnet Mask 255.255.255.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::205:5EFF:FE64:6562

IPv6 Gateway

IPv6 DNS Server

Top