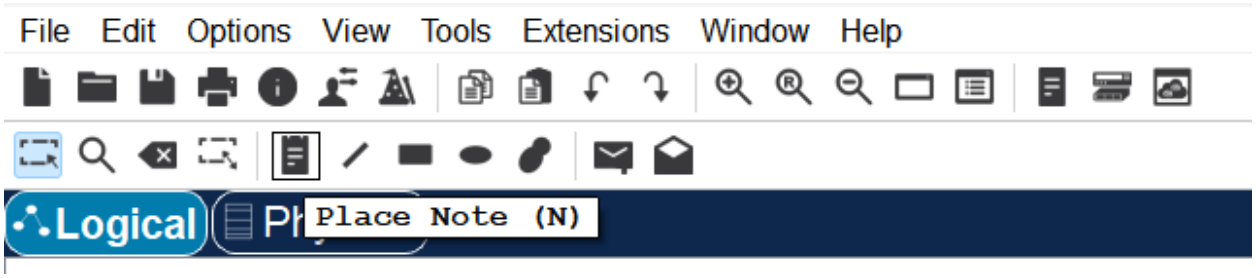
CSE421
Summer'24
LAB 5

Add ID_SECTION_NAME

Click on Place Note (N)



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1. Switch 1 LAN **{prefix mask = 21}**
   [Switch 1 LAN ⇒ R4 - Switch 1 - PC2]

   Configure R4
   Go to CLI
   enable
   config t
   interface fa0/1
   ip address **1st ip address subnet mask**
   exit

   Configure PC2
   Go to ip configuration
   ip address = **2nd ip address**
   subnet mask = **same as fa0/1 of R4**
   default gateway = **1st ip address**

Sanity Checking - 10%

2. Switch 2 LAN **{prefix mask = 20}**
   [Switch 2 LAN ⇒ Switch 2 - PC1 , Switch 2 - Switch 6 - Server 0, Switch 2 - Switch 6 - Server 0]

   Configure R2
   Go to CLI
   enable
   config t
   interface fa0/1
   ip address **1st ip address subnet mask**
   exit

   Configure PC1
   Go to ip configuration
   ip address = **2nd ip address**
   subnet mask = **same as fa0/1 of R2**
   default gateway = **1st ip address**

   Configure Server0
   Go to ip configuration
   ip address = **3rd ip address**
   subnet mask = **same as fa0/1 of R2**
   default gateway = **1st ip address**

   Configure Server1
   Go to ip configuration
   ip address = **4th ip address**
   subnet mask = **same as fa0/1 of R2**
   default gateway = **1st ip address**

3. Switch 3 LAN **{prefix mask = 21}**
   [Switch 1 LAN ⇒ R3 - Switch 3 - PC4]

   Configure R3
   Go to CLI
   enable
   config t
   interface fa0/1
   ip address **1st ip address subnet mask**
   exit

   Configure PC4
   Go to ip configuration
   ip address = **2nd ip address**
   subnet mask = **same as fa0/1 of R3**
   default gateway = **1st ip address**

Sanity Checking - 42%

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4. Switch 4 LAN **{prefix mask = 22}**
   [Switch 1 LAN ⇒ R1 - Switch 4 - PC0]

   Configure R1
   Go to CLI
   enable
   config t
   interface fa0/1
   ip address **1st ip address subnet mask**
   exit

   Configure PC0

Go to ip configuration
ip address = **2nd ip address**
subnet mask = **same as fa0/1 of R1**
default gateway = **1st ip address**

Sanity Checking - 53%

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5. Switch 5 LAN **{prefix mask = 22}**
   [Switch 1 LAN ⇒ R4 - Switch 5 - PC3]

   Configure R4
   Go to CLI
   enable
   config t
   interface fa0/1
   ip address **1st ip address subnet mask**
   exit

   Configure PC3
   Go to ip configuration
   ip address = **2nd ip address**
   subnet mask = **same as fa0/1 of R4**
   default gateway = **1st ip address**

   Sanity Checking - 63%

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6. Switch 0 **{prefix mask = 29}**
   [Switch 1 LAN ⇒R1 - Switch 0 - R2, R1 - Switch 0 - R3]

   Configure R1
   Go to CLI
   enable

config t
interface fa0/0
ip address **1st ip address subnet mask**
exit

Configure R2
Go to CLI
enable
config t
interface fa0/0
ip address **2nd ip address subnet mask**
exit

Configure R3
Go to CLI
enable
config t
interface fa0/0
ip address **3rd ip address subnet mask**
exit

Sanity Checking - 75%

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7. WAN network **{prefix mask = 30}**
   [WAN1 ⇒ R1 - R3]

   Configure R1
   Go to CLI
   enable
   config t
   interface se0/0/0
   ip address **1st ip address subnet mask**
   exit

Configure R3
Go to CLI
enable
config t
interface se0/0/0
ip address **2nd ip address subnet mask**
exit

[WAN2 ⇒ R3 - R2]

Configure R3
Go to CLI
enable
config t
interface se0/0/1
ip address **1st ip address subnet mask**
exit

Configure R2
Go to CLI
enable
config t
interface se0/0/0
ip address **2nd ip address subnet mask**
exit

[WAN3 ⇒ R2 - R4]

Configure R2
Go to CLI
enable
config t
interface se0/0/1
ip address **1st ip address subnet mask**
exit

Configure R4
Go to CLI
enable
config t
interface se0/0/0
ip address **2nd ip address subnet mask**
Exit

Sanity Checking - 100%

Keys:
Texts in bold and blue ⇒ from VLSM
Texts in bold and black ⇒ change accordingly to your ip address and subnet mask

Notes :

LAN network
Step 1 : Set ip address for default gateway of router
Step 2 : Set ip address for PC
Step 3 : Set ip address for Server

[Multiple PC/Server ⇒ Assign ip address to lower number assigned PC first and so on]

WAN/Switch network
Assign ip address to lower number assigned routers first and so on

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Sanity Checking = 100% using this pdf ⇒ Pray for me to pass 421 🥺

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