

## Fundamentals of Networks - Project

### Networks IP Addressing

VLAN/Sub Network		IP Addresses (IPv4 Private, IPv4 Public, IPv6)
<b>DMZ</b>		10.100.0.0/24 110.0.0.0/26 3100:0:0:0::/64
<b>Internal Datacenter</b>		10.100.1.0/24 110.0.0.64/26 3100:0:0:1::/64
<b>VLAN 2 Engineering</b>		10.100.2.0/24 110.0.0.128/26 3100:0:0:2::/64
<b>VLAN 3 Administration</b>		10.100.3.0/24 110.0.0.208/28 3100:0:0:3::/64
<b>VLAN 4 Video-conference equipment</b>		10.100.4.0 / 24 110.0.0.224/28 3100:0:0:4::/64
<b>VLAN 5 VoIP</b>		10.100.5.0/24 - 3100:0:0:5::/64
<b>NAT/PAT</b>		110.0.0.192/28
<b>Point-to-Point Connections</b>	Router 1 – SWL3 C1	10.100.6.0 / 30 3100:0:0:6::/126
	Router 1 – SWL3 C2	10.100.6.4 / 30 3100:0:0:6::4/126
	Router A – SWL3 C1	10.100.6.8 / 30 3100:0:0:6::8/126
	Router A – SWL3 C2	10.100.6.12 / 30 3100:0:0:6::12/126
	SWL3 C1 – SWL3 C2	10.100.6.16 / 30 3100:0:0:6::16/126
	Router 1 – ISP	100.0.50.0 / 24 3000:B:B::/64

## Fundamentals of Networks - Project

### Device Info and IP Addressing

Device	Interface/Item	IP Addresses and Other Important Info
SWL3 C1	F0/0 To Router 1	10.100.6.2/30 3100:0:0:6::2/126
	F1/0 To SWL3 C2	10.100.6.17/30 3100::6:0:0:16:1/126
	F1/1 To SWL3 F1	Trunk
	F1/2 To SWL3 F2	Trunk
	F1/3 To Router A	10.100.6.10/30 3100::6:0:0:8:2/126
	F1/4 To SWL2-Datacenter	110.0.0.68/26 10.100.1.1/24 3100:0:0:1::1/64
	F1/5 To SWL2-DMZ	110.0.0.4/26 10.100.0.1/24 3100::1/64
	VLAN2	110.0.0.132/26 10.100.2.4/24 3100:0:0:2::4/64
	VLAN3	110.0.0.212/28 10.100.3.4/24 3100:0:0:3::4/64
	VLAN4	110.0.0.228/28 10.100.4.4/24 3100:0:0:4::4/64
	VLAN5	No Public 10.100.5.4/24 3100:0:0:5::4/64 DHCP Pool 10.100.5.21 - 10.100.5.29 (GW 10.100.5.4)
SWL3 C2	F0/0 To Router 1	10.100.6.6/30 3100::6:0:0:4:2/126
	F1/0 To SWL3 C1	10.100.6.87/30 3100::6:0:0:16:2/126
	F1/1 To SWL3 F1	Trunk
	F1/2 To SWL3 F2	Trunk
	F1/3 To Router A	10.100.6.14/30 3100::6:0:0:12:2/126
	VLAN2	110.0.0.131/26 10.100.2.3/24 3100:0:0:2::3/64
	VLAN3	110.0.0.211/28 10.100.3.3/24 3100:0:0:3::3/64

## Fundamentals of Networks - Project

<b>SWL3 C2 (continuation)</b>	VLAN4	110.0.0.227/28 10.100.4.3/24 3100:0:0:4::3/64
	VLAN5	No Public 10.100.5.3/24 3100:0:0:5::3/64
<b>Router A</b>	F0/0 To SWL2-OB	192.168.0.1/20
	F1/0 To SWL3 C1	10.100.6.9/30 3100::6:0:0:8:1/126
	F1/1 To SWL3 C2	10.100.6.13/30 3100::6:0:0:12:1/126
<b>Router 1</b>	F0/0 To SWL3 C2	10.100.6.5/30 3100::6:0:0:4:1/126 NAT Inside Default Route Announced
	F0/1 To SWL3 C1	10.100.6.1/30 3100:0:0:6::1/126 NAT Inside Default Route Announced
	F1/0 To ISP	100.0.50.1/24 3000:B:B:B::1/64 NAT Outside
	NAT Pool	110.0.0.193 - 110.0.0.206 / 24 Translating 10.100.0.0 & 192.168.0.0
	IP Static Routes	100.0.0.0/24 by 100.0.50.2 3000:A:A:A::/64 by 3000:B:B:B::2
<b>ISP</b>	F0/0 To ISP	100.0.50.2/24 3000:B:B:B::2/64
	F0/1 To SWL2-INT	100.0.0.1/24 3000:A:A:A::1/64
	Static Routes	110.0.0.0/24 by 100.0.50.1