Check Point®
SOFTWARE TECHNOLOGIES LTD.

CCSA

Configuring Interfaces

Step by Step Configuration Guide

Intellectual Property

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1. Version Control

Version	Date	Notes	Created By	Release
1.0	18/12/2018	Student Workbook for LAB	Mazhar Minhas	Initial Release
1.1	07/04/2020	Formatting	Farooq Zafar	Final Release

2. Reference Document

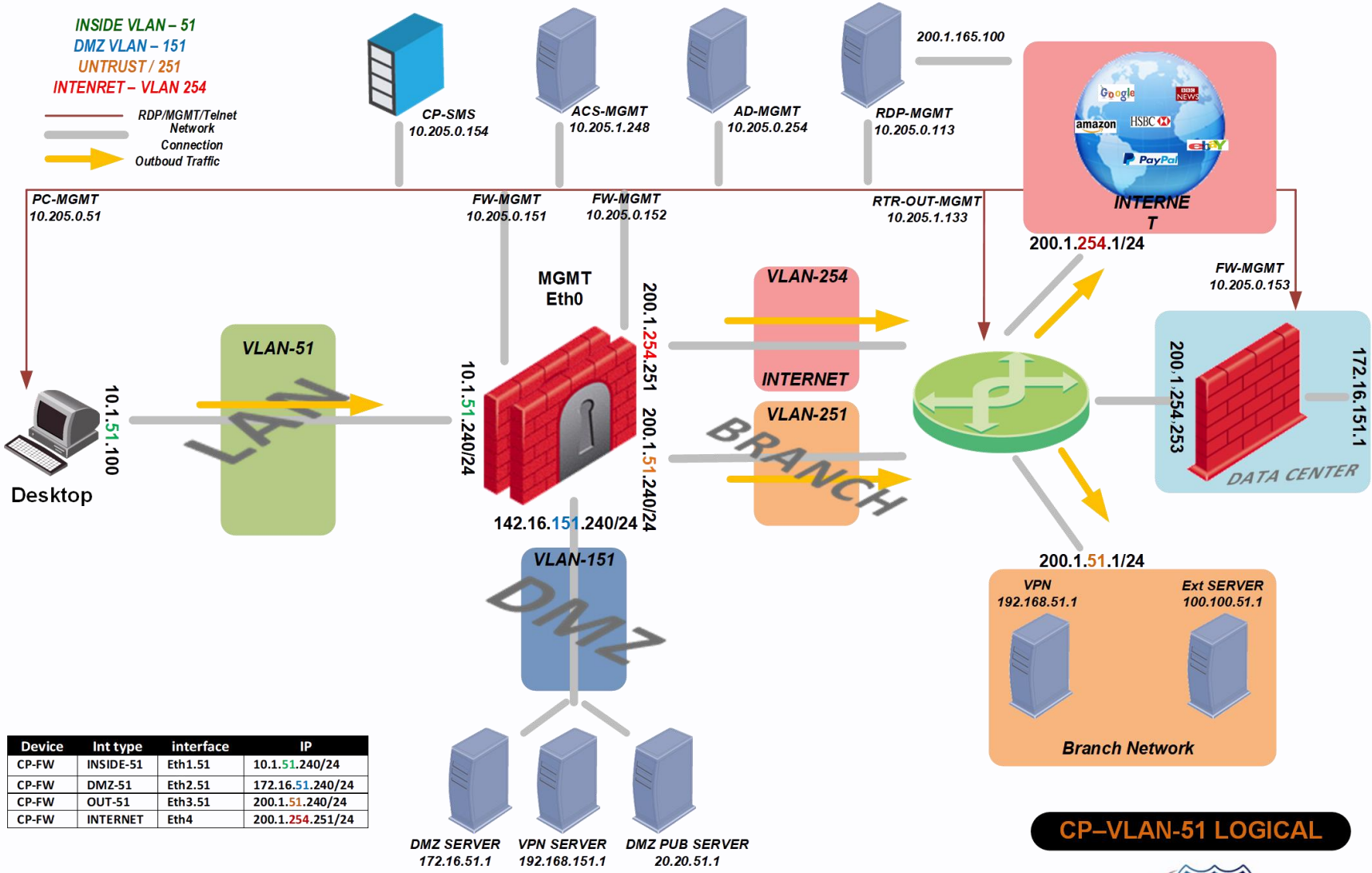
Click for the Reference document

3. Assumption

- ✓ We understand that delegate already understand L2/L3, Routing.
- ✓ The delegate already knows the "***Fortray Networks – Checkpoint Firewall"*** physical and logical connection.
- ✓ The delegate already has basis Troubleshooting skill, such as ping and trace.
- ✓ The delegate already has access to the "***Fortray Networks – Checkpoint Firewall"*** *Spreadsheet encompassing the Basic Layer, 2, 3 and allocated subnet information. For more details refer to the "**Student Folder".***
- ✓ This document is created to show an example for one topology only. The candidate needs to refer to his own topology and follow this step by step guide.
- ✓ We assume that delegate already have installed the VPN software and him/she have VPN user / Password. If any issue, contact our Technical team.
- ✓ Our VPN software is supported by PC, MAC, Android, and IOS devices.
- ✓ It's also assumed that delegate has access to PC/Laptop i5 with 4GB RAM.
- ✓ For optimal connectivity, we recommend at least 10MB Internet connection.
- ✓ We assume that we already have INTERNAL, DMZ, OUTISE interfaces are already configured.

4. Network Topology

The below network topology is just for information purpose only. Please refer to your student folder and your designated topology.
If any doubt, please ask your instructor.



Device	Int type	interface	IP
CP-FW	INSIDE-51	Eth1.51	10.1.51.240/24
CP-FW	DMZ-51	Eth2.51	172.16.51.240/24
CP-FW	OUT-51	Eth3.51	200.1.51.240/24
CP-FW	INTERNET	Eth4	200.1.254.251/24

5. Check Point – Interface Configuration Task

Every delegate / Student will be creating 3 x Interfaces. Please refer to your "Student Spread sheet". Only Trainer will be creating a 1 x Extra Interface for "INTERNET" only which will carry the default route for the Internet traffic.

Below is an example of Check Point VLAN 51, please refer to your own VPN Topology and VLAN

Check Point FW - Students VLANS & Test PC Parameters

NO	VLAN	Test PC (RDP)	PC USERS	PC Password	Trust VLAN	Physical	TRUST - IP	DMZ VLAN	Physical	DMZ - IP	UNTRUST Interface	Physical	UNTRUST VLAN	Physical Internet	INTERNET VLAN	PAT (Internet) IP
1	51	10.205.0.51	administrator	cisco	51	Eth1.51	10.1.51.240/24	151	Eth2.51	172.16.51.240/24	251	eth3.51	200.1.51.240/24	eth4	**254**	**200.1.254.251/24**
2	52	10.205.0.52	administrator	cisco	52	Eth1.52	10.1.52.240/24	152	Eth2.52	172.16.52.240/24	252	eth3.52	200.1.52.240/24	as above	N/A	N/A
3	53	10.205.0.53	administrator	cisco	53	Eth1.53	10.1.53.240/24	153	Eth2.53	172.16.53.240/24	253	eth3.53	200.1.53.240/24	as above	N/A	N/A
4	54	10.205.0.54	administrator	cisco	54	Eth1.54	10.1.54.240/24	154	Eth2.54	172.16.54.240/24	354	eth3.54	200.1.54.240/24	as above	N/A	N/A
5	55	10.205.0.55	administrator	cisco	55	Eth1.55	10.1.55.240/24	155	Eth2.55	172.16.55.240/24	255	eth3.55	200.1.55.240/24	as above	N/A	N/A
6	56	10.205.0.56	administrator	cisco	56	Eth1.56	10.1.56.240/24	156	Eth2.56	172.16.56.240/24	256	eth3.56	200.1.56.240/24	as above	N/A	N/A
7	57	10.205.0.57	administrator	cisco	57	Eth1.57	10.1.57.240/24	157	Eth2.57	172.16.57.240/24	257	eth3.57	200.1.57.240/24	as above	N/A	N/A
8	58	10.205.0.58	administrator	cisco	58	Eth1.58	10.1.58.240/24	158	Eth2.58	172.16.58.240/24	258	eth3.58	200.1.58.240/24	as above	N/A	N/A
9	59	10.205.0.59	administrator	cisco	59	Eth1.59	10.1.59.240/24	159	Eth2.59	172.16.59.240/24	259	eth3.59	200.1.59.240/24	as above	N/A	N/A
10	60	10.205.0.60	administrator	cisco	60	Eth1.60	10.1.60.240/24	160	Eth2.60	172.16.60.240/24	260	eth3.60	200.1.60.240/24	as above	N/A	N/A

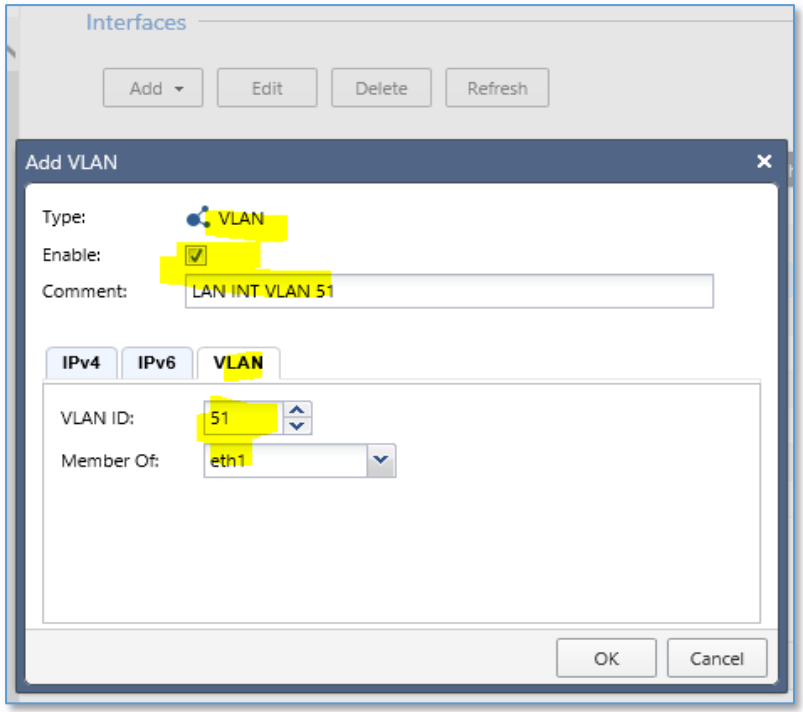
6. Check Point – Interface Configuration

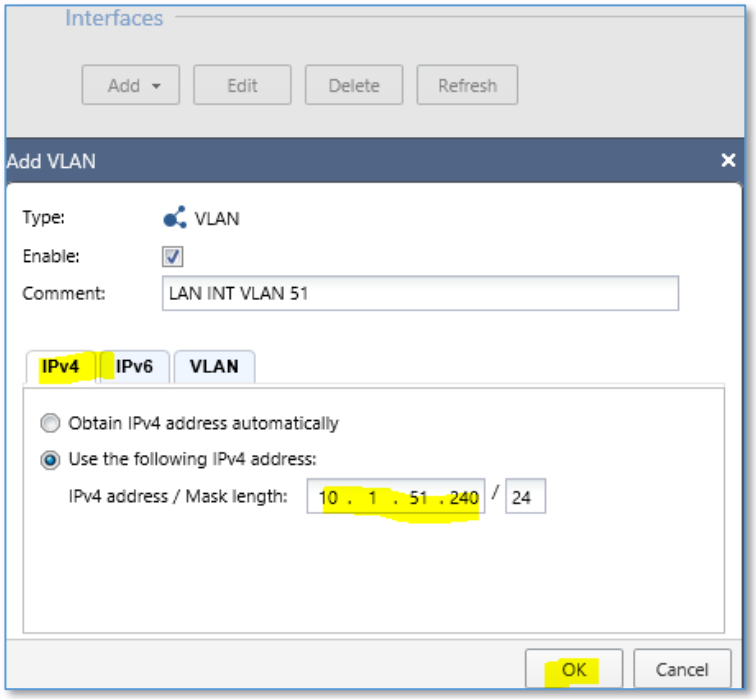
Go To > User Management > Users > get the lock > Click to Add > add login name, password, Role and Click OK

6.1 Step 1: Creating Trust / LAN Sub-Interface

Goto > Network Management> Network Interface > Add > VLAN

a) VLAN ID– refer to spreadsheet and choose the allocated VLAN no and interface
b) Assigned the IPv4 as per spreadsheet e.g. 10.1.51.240/24
c) Press Ok (the configuration will save automatically)

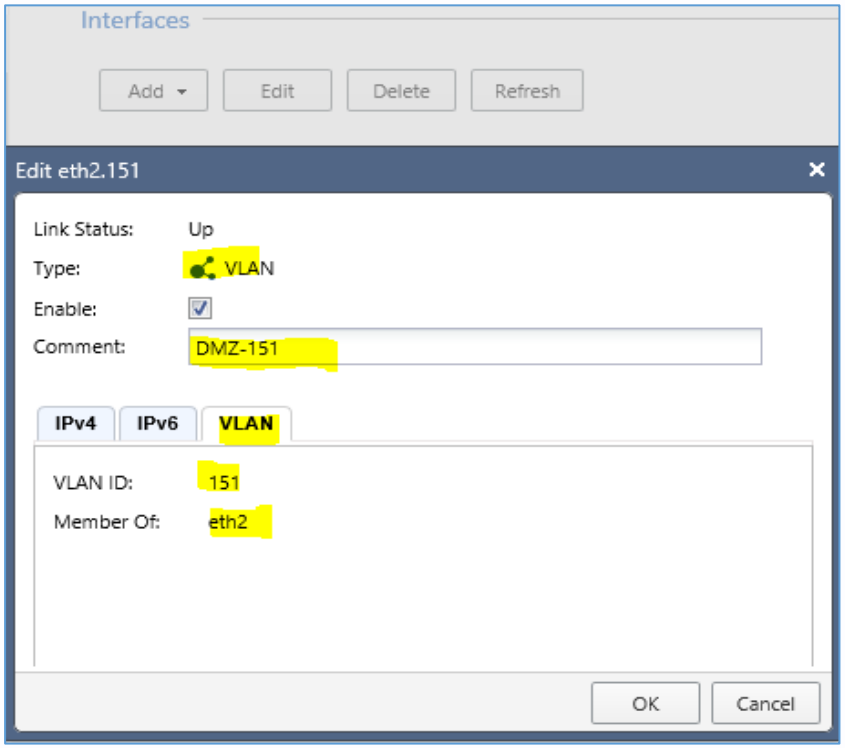


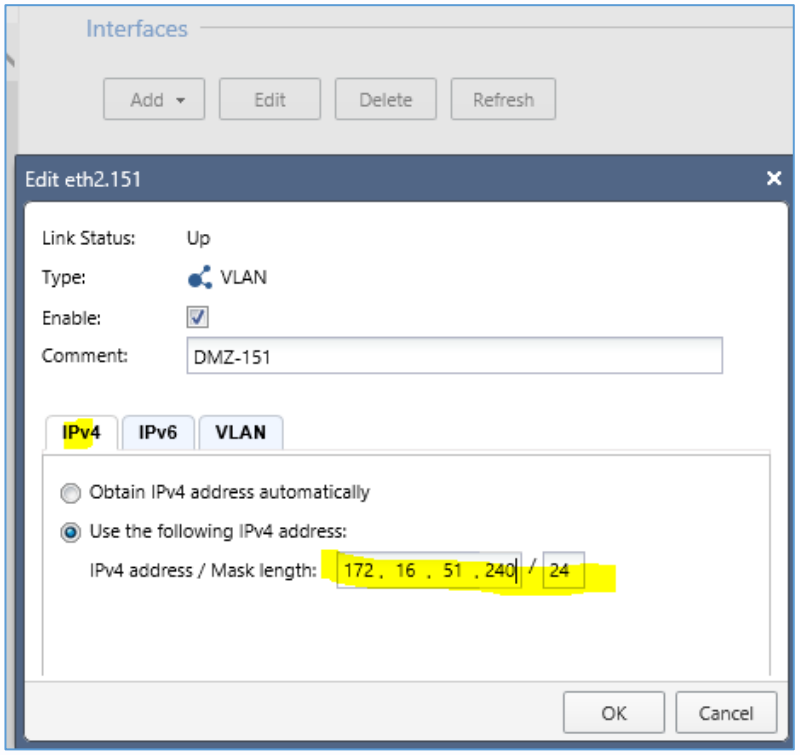


6.2 Step 2: Creating DMZ Sub-Interface

Goto > Network Management> Network Interface > Add > VLAN

a) VLAN ID– refer to spreadsheet and choose the allocated VLAN no and interface
b) Assigned the IPv4 as per spreadsheet e.g. 172.16.51.240/24
c) Press Ok (the configuration will save automatically)

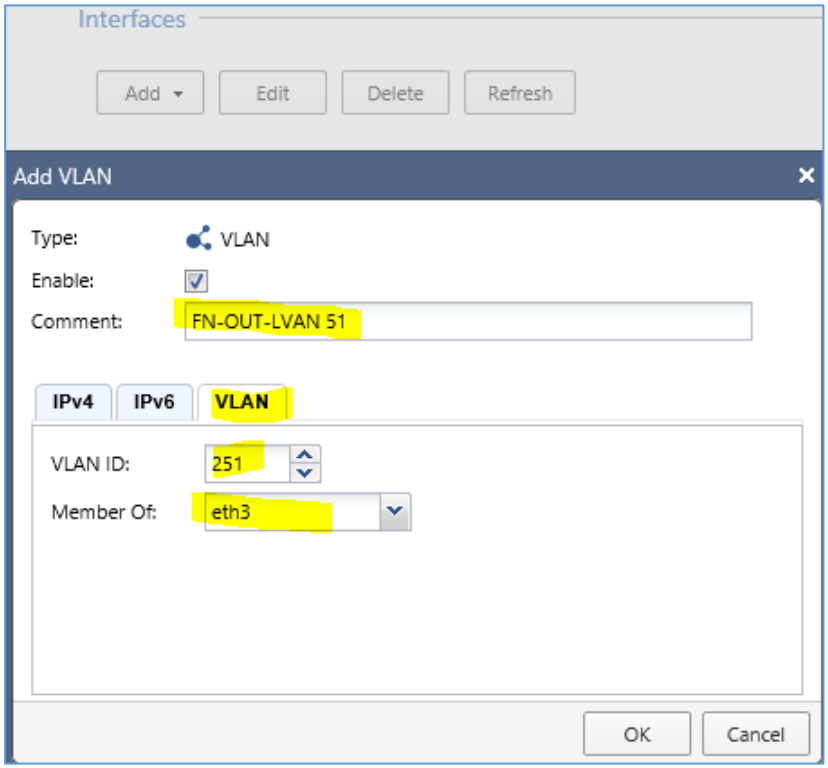


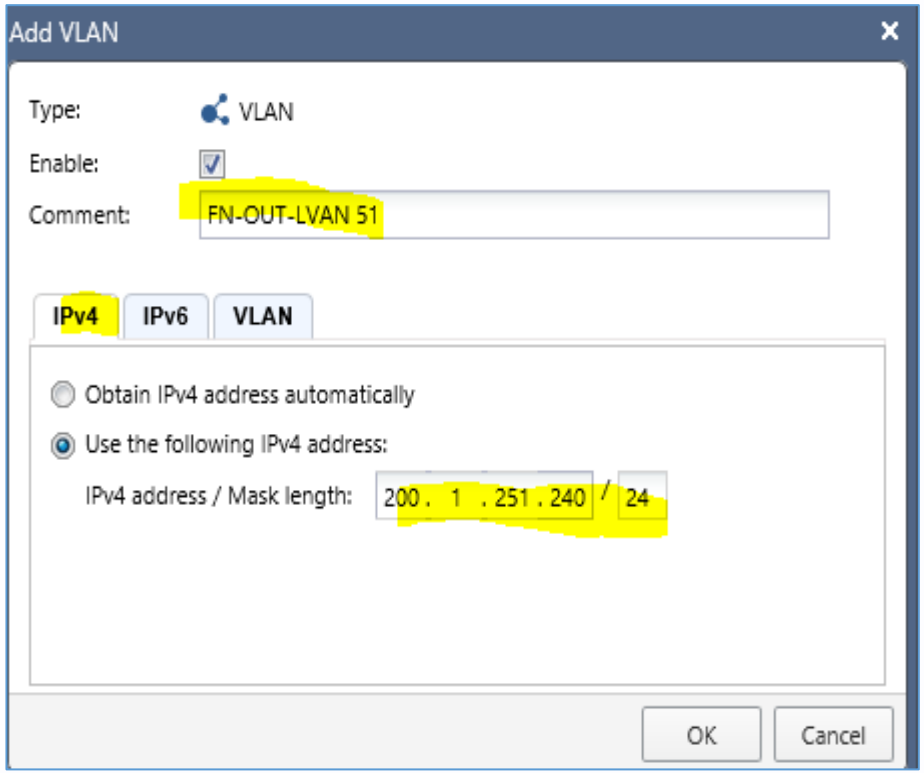


6.3 Step 3: Creating OUTSIDE Sub-Interface

Goto > Network Management> Network Interface > Add > VLAN

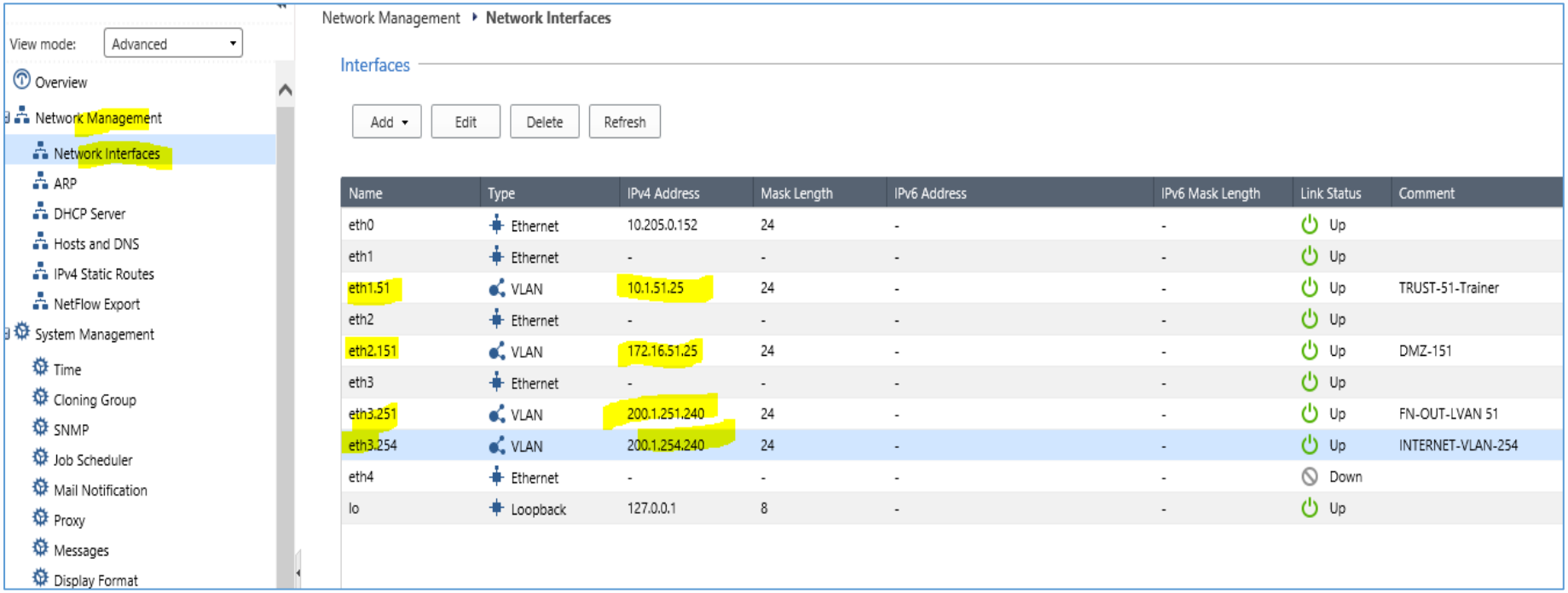
a) VLAN ID– refer to spreadsheet and choose the allocated VLAN no and interface
b) Assigned the IPv4 as per spreadsheet e.g. 200.1.51.240/24
c) Press Ok (the configuration will save automatically)





7. Verification (Via GUI)

After changing the format, we can see that now any delegate / student can assign the IP based on the CIDR notification



Name	Type	IPv4 Address	Mask Length	IPv6 Address	IPv6 Mask Length	Link Status	Comment
eth0	Ethernet	10.205.0.152	24	-	-	Up	
eth1	Ethernet	-	-	-	-	Up	
eth1.51	VLAN	10.1.51.25	24	-	-	Up	TRUST-51-Trainer
eth2	Ethernet	-	-	-	-	Up	
eth2.151	VLAN	172.16.51.25	24	-	-	Up	DMZ-151
eth3	Ethernet	-	-	-	-	Up	
eth3.251	VLAN	200.1.251.240	24	-	-	Up	FN-OUT-LVAN 51
eth3.254	VLAN	200.1.254.240	24	-	-	Up	INTERNET-VLAN-254
eth4	Ethernet	-	-	-	-	Down	
lo	Loopback	127.0.0.1	8	-	-	Up	

Thanks, and Good Luck