IT Technology 2. sem

SRX L2 switch and SOHO
&
SRX port mirroring

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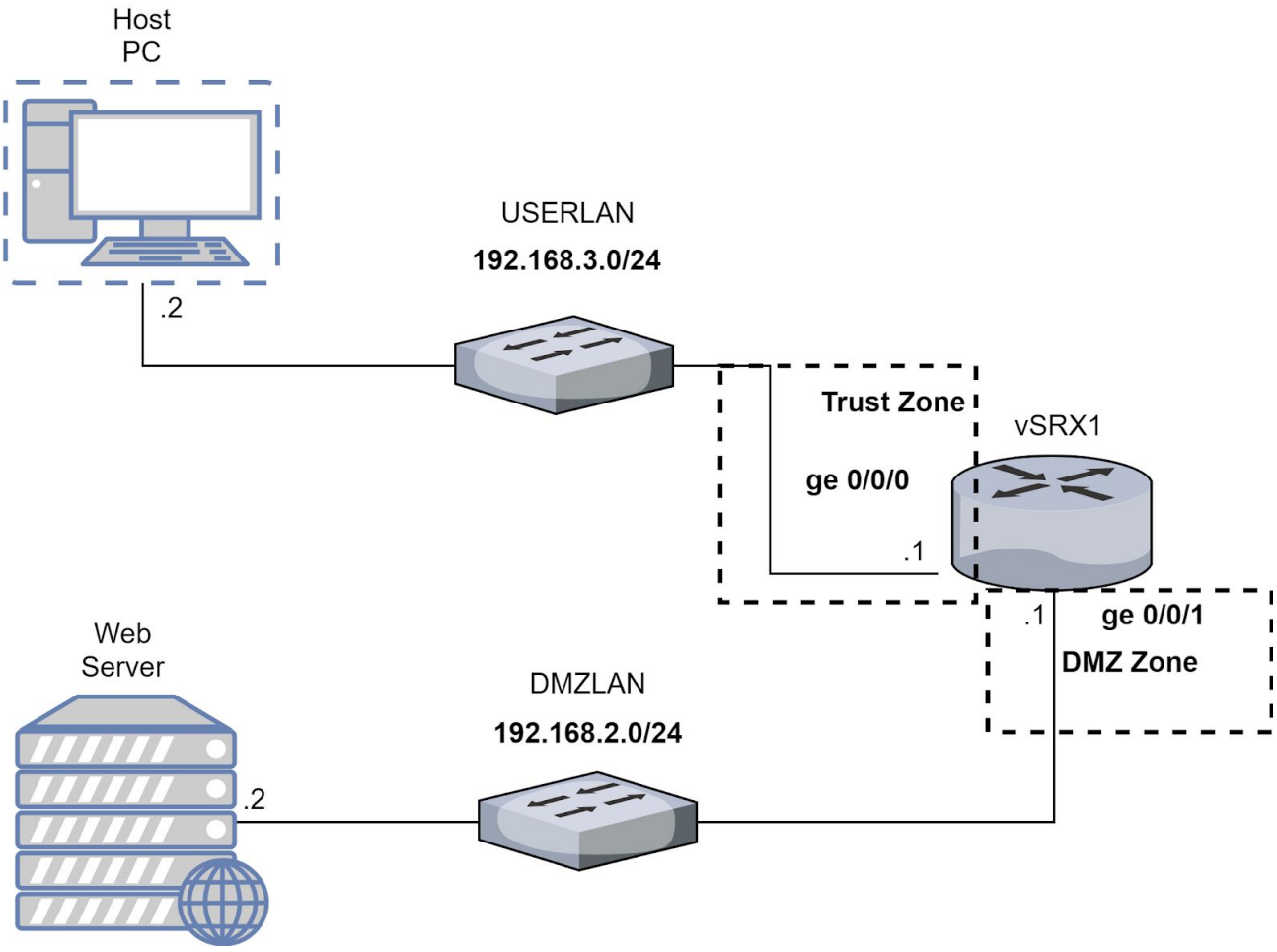
Assignment 05

A topology diagram with explanation.



Two Vlans, USERLAN and DMZLAN were created in the SRX router and set up as shown on the diagram above. USERLANs interface is set to be in the Trust zone and DMZLANs interface in the DMZ zone. This is an abstraction from the actual router configuration because our actual router setup is used for our project and it contains configurations which are not relevant for this assignment.

Low level Design

LOW LEVEL DESIGN								
INSTANCE TYPE	INTERFACE	UNIT	IP ADDRESS	MASK	FAMILY	CONNECTS TO	STATUS	Comments
vSRX1	ge-0/0/0	0	192.168.3.1	/24	inet	Host PC	up	
	ge-0/0/1	0	192.168.2.1	/24	inet	Web Server	up	
	ge-0/0/2	0	2.2.2.1	/24	inet	Monitor	up	
Web server	ens33	0	192.168.2.2	/24	inet	DMZLAN	up	
Host PC	ens33	0	192.168.3.2	/24	inet	USERLAN	up	

Test plan

TEST PLAN			
ASSERTION	METHOD	EXPECTED RESULT	SUCCESS
Web Server accessible via router	Use a web browser on Host to access 192.168.2.2	Web page displays successfully	✓
Web Server can access router	Ping 192.168.2.1 from Web Server	Ping replies received	✓
Host1 can access router	Ping 192.168.3.1 from Host 1	Ping replies received	✓

Put the router configuration and the topology diagram in GitLab

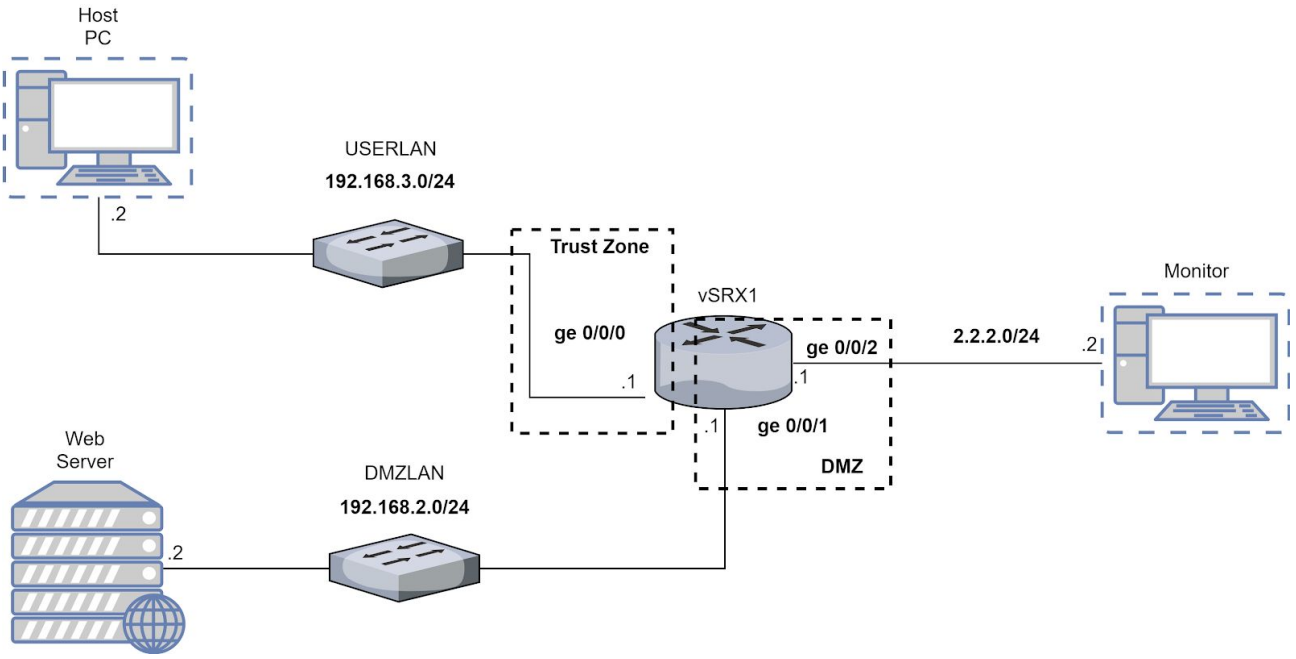
Diagram[1]

Config[2]

[1]https://github.com/Sebski123/Network/blob/master/ITT2/ass05%2B06L2%20switchAndport%20mirroring/Diagrams/Ass5_Topology.pdf
[2]https://github.com/Sebski123/Network/blob/master/ITT2/ass05%2B06L2%20switchAndport%20mirroring/Router_configs/ass05.json

Assignment 06

A topology diagram with explanation



On this diagram we can observe that we have two zones (Trust Zone and DMZ Zone). In the DMZ zone we configured port mirroring, which means that the traffic on ge-0/0/1 interface will be mirrored to ge-0/0/2. This means that the traffic on the web server can be monitored on the Monitor PC.

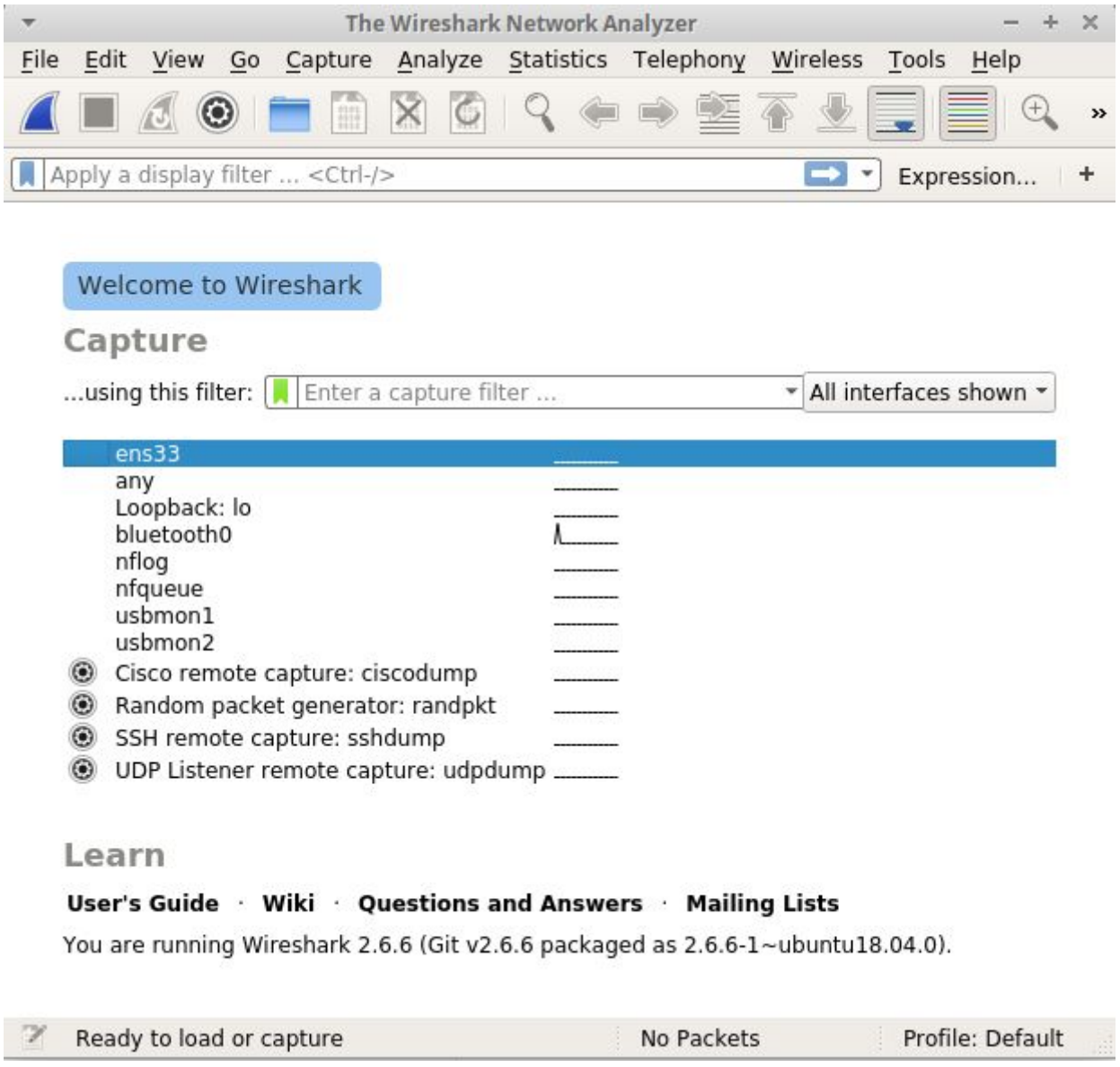
A Low Level Design

LOW LEVEL DESIGN								
INSTANCE TYPE	INTERFACE	UNIT	IP ADDRESS	MASK	FAMILY	CONNECTS TO	STATUS	Comments
vSRX1	ge-0/0/0	0	192.168.3.1	/24	inet	Host PC	up	
	ge-0/0/1	0	192.168.2.1	/24	inet	Web Server	up	
	ge-0/0/2	0	2.2.2.1	/24	inet	Monitor	up	
Web server	ens33	0	192.168.2.2	/24	inet	DMZLAN	up	
Host PC	ens33	0	192.168.3.2	/24	inet	USERLAN	up	
Monitor	ens33	0	2.2.2.2	/24	inet	vSRX1	up	connected to interface ge0/0/2

How to install and run the monitoring on Host1

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install wireshark
sudo wireshark
```

Select ens33 and press enter



Test plan

TEST PLAN			
ASSERTION	METHOD	EXPECTED RESULT	SUCCESS
Web Server accessible via router	Use a web browser on Host to access 192.168.2.2	Web page displays successfully	✓
Web Server can access router	Ping 192.168.2.1 from Web Server	Ping replies received	✓
Host1 can access router	Ping 192.168.3.1 from Host 1	Ping replies received	✓
Host1 can access Monitor	Ping 2.2.2.2 from Host1	Ping replies received	✓
Web Server can Access Host1	Ping 192.168.3.2 from Web Server	Ping replies received	✓
Monitor can monitor traffic between Host 1 and Webserver	Capturing traffic with Wireshark (running on Monitor) while Host1 accesses Web Server	Traffic appears on Wireshark	✓

Put the router configuration and the topology diagram in GitLab

Diagram[3]

Config[4]

[3] https://github.com/Sebski123/Network/blob/master/ITT2/ass05%2B06L2%20switchAndport%20mirroring/Diagrams/Ass6_Topology.pdf

[4] https://github.com/Sebski123/Network/blob/master/ITT2/ass05%2B06L2%20switchAndport%20mirroring/Router_configs/ass06.json