

Andree Salvo

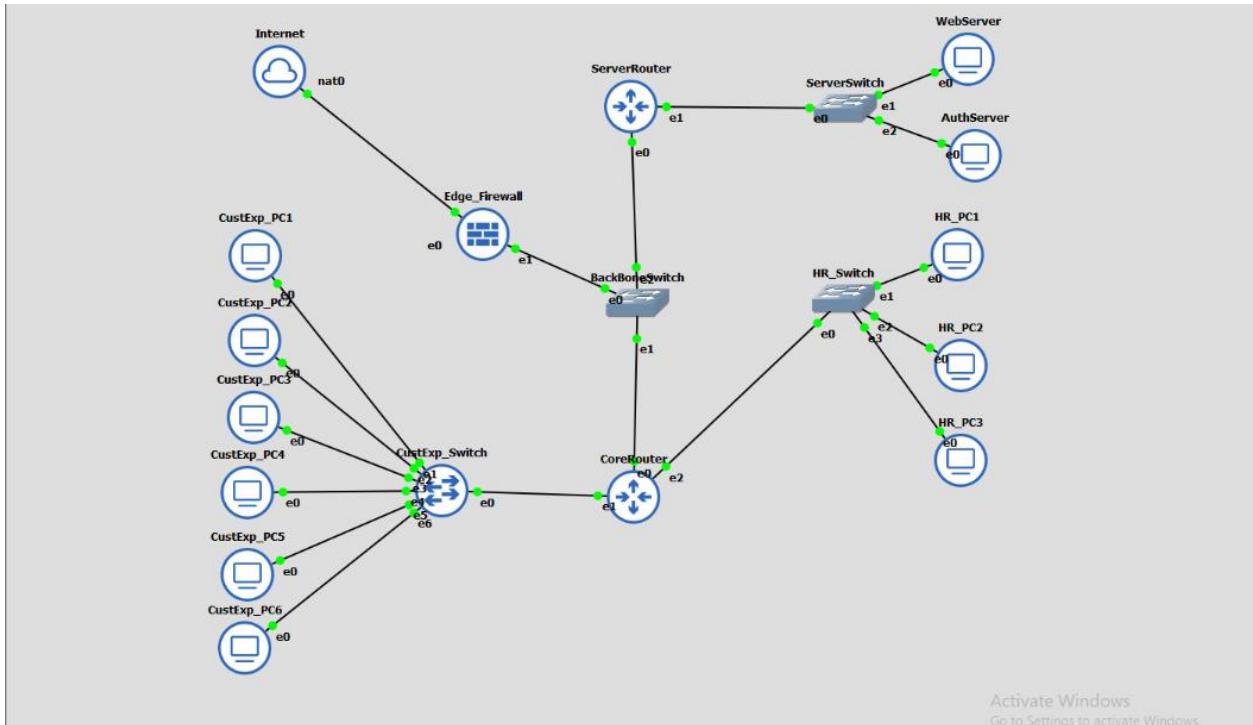
Southern New Hampshire University

CYB 310 – 7-2 Project Three Submission: Restructuring Status Report

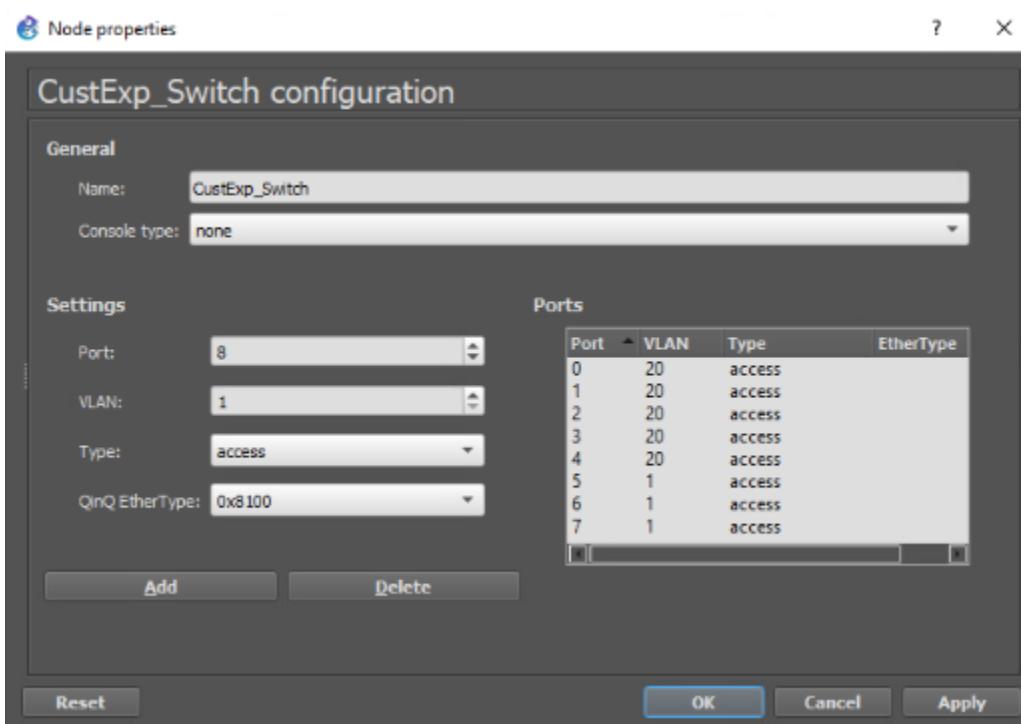
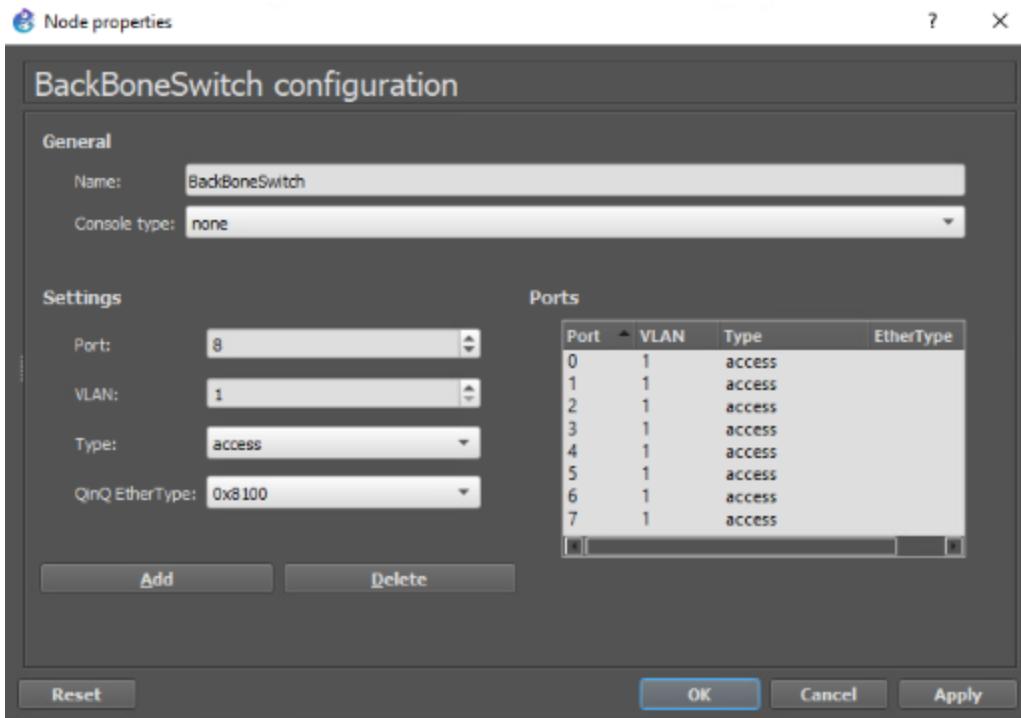
Instructor: Raschid Muller

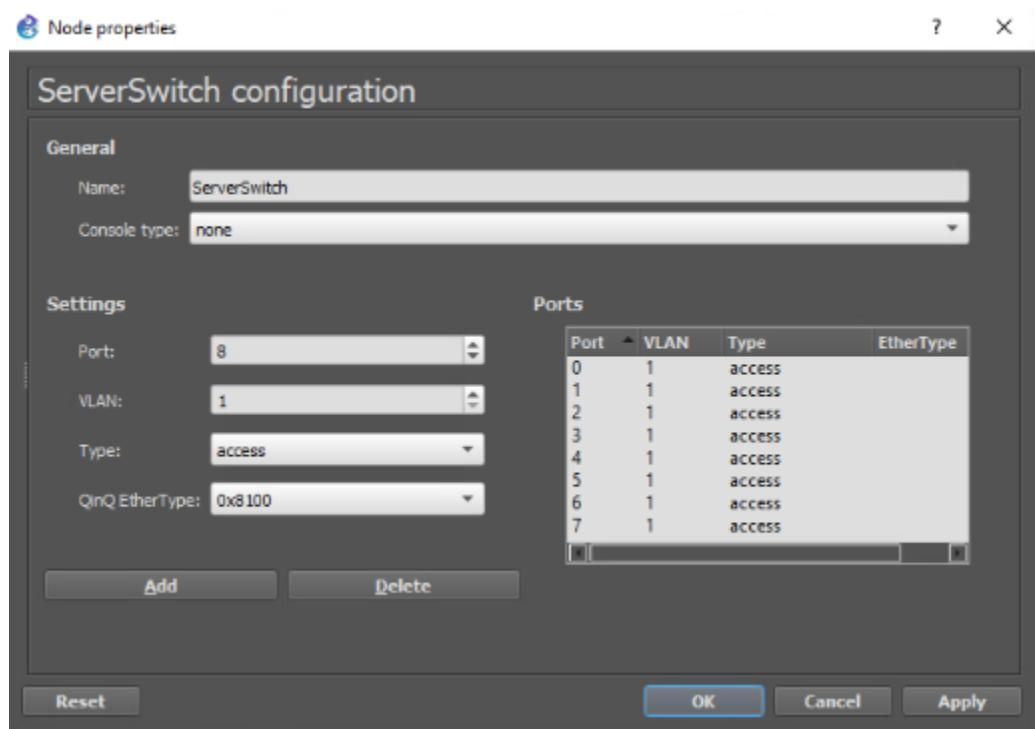
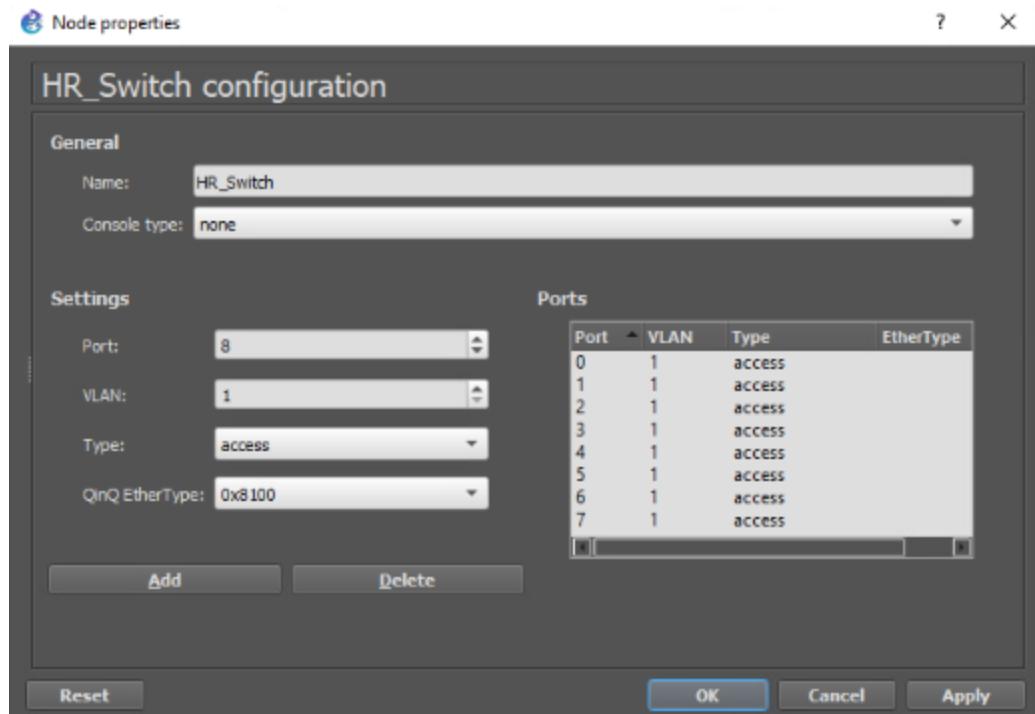
I. Network Reconfiguration

A. Network Diagram



B. Port assignment and VLAN assignment for each switch





II. Traffic Flow Configuration: Include screenshots of the following:

A. Configure a firewall rule to allow port 80 HTTP from the WAN to the Web server.

The screenshot shows the OPNsense Firewall Rules: WAN configuration page. A message at the top states "The changes have been applied successfully." The table below lists a single rule:

Protocol	Source	Port	Destination	Port	Gateway	Schedule	Description
IPv4 TCP	WAN net	*	192.168.4.2	80	(HTTP)	*	Automatically generated rules

Details for the rule:
Action: pass
Block: block
Reject: reject
Log: log
Inbound: in
Outbound: out
Schedule: first match
Description: automatically generated rules

B. Configure a firewall rule to allow port 443 HTTPS from the WAN to the Web server.

The screenshot shows the OPNsense Firewall Rules: WAN configuration page. A message at the top states "The firewall rule configuration has been changed. You must apply the changes in order for them to take effect." The table below lists two rules:

Protocol	Source	Port	Destination	Port	Gateway	Schedule	Description
IPv4 TCP	WAN net	*	192.168.4.2	80	(HTTP)	*	Allow HTTP to WebServer
IPv4 TCP	WAN net	*	192.168.4.2	443	(HTTPS)	*	Port 443 allowed to WebServer

Details for the second rule:
Action: pass
Block: block
Reject: reject
Log: log
Inbound: in
Outbound: out
Schedule: first match
Description: Port 443 allowed to WebServer

C. Configure a firewall rule to block port 80 HTTP from the WAN to any other system.

The firewall rule configuration has been changed.
You must apply the changes in order for them to take effect.

	Protocol	Source	Port	Destination	Port	Gateway	Schedule	Description
	IPv4 TCP	WAN net	*	192.168.4.2	80 (HTTP)	*	*	Allow HTTP to WebServer
	IPv4 TCP	WAN net	*	192.168.4.2	443 (HTTPS)	*	*	Port 443 allowed to WebServer
	IPv4 TCP	WAN net	*	*	80 (HTTP)	*	*	Port 80 blocked from other systems

D. Configure a firewall rule to block port 443 HTTPS from the WAN to any other system.

The firewall rule configuration has been changed.
You must apply the changes in order for them to take effect.

	Protocol	Source	Port	Destination	Port	Gateway	Schedule	Description
	IPv4 TCP	WAN net	*	192.168.4.2	80 (HTTP)	*	*	Allow HTTP to WebServer
	IPv4 TCP	WAN net	*	192.168.4.2	443 (HTTPS)	*	*	Port 443 allowed to WebServer
	IPv4 TCP	WAN net	*	*	80 (HTTP)	*	*	Port 80 blocked from other systems
	IPv4 TCP	WAN net	*	*	443 (HTTPS)	*	*	Port 443 blocked from other system