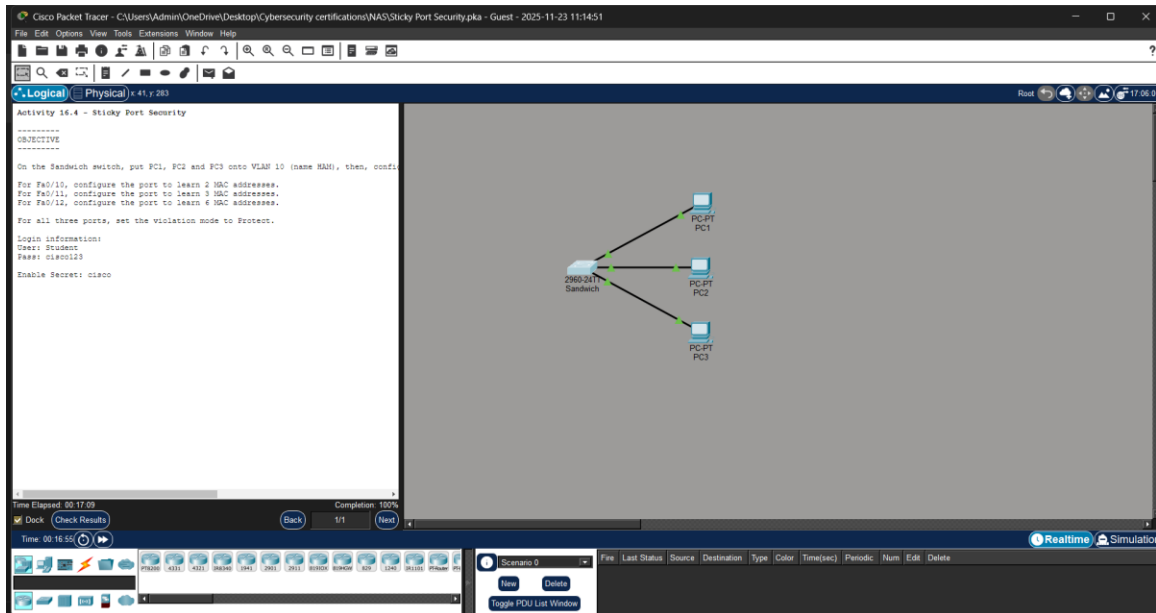## Lab Report — VLAN & Port Security Configuration

1. Objective

The purpose of this lab was to configure VLAN segmentation and apply sticky port security on designated FastEthernet ports of the Sandwich switch.
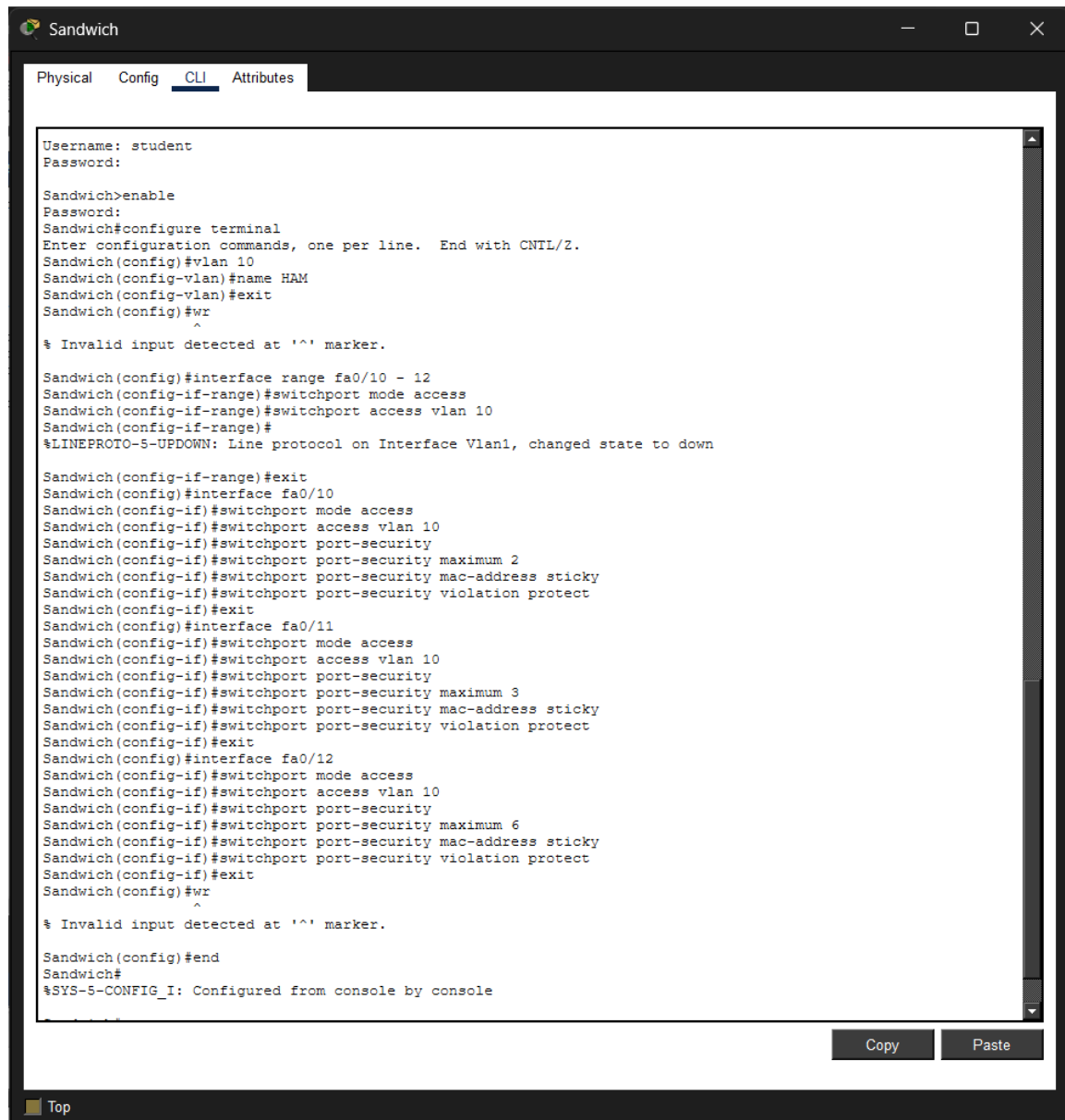
2. Topology Overview

The following screenshot shows the Packet Tracer topology:

3. CLI Configuration

The screenshot below shows the CLI configuration process on the Sandwich switch:

```
Sandwich                                                    —    ☐    ✕

Physical   Config   CLI   Attributes

Username: student
Password:

Sandwich>enable
Password:
Sandwich#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Sandwich(config)#vlan 10
Sandwich(config-vlan)#name HAM
Sandwich(config-vlan)#exit
Sandwich(config)#wr
                 ^
% Invalid input detected at '^' marker.

Sandwich(config)#interface range fa0/10 - 12
Sandwich(config-if-range)#switchport mode access
Sandwich(config-if-range)#switchport access vlan 10
Sandwich(config-if-range)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down

Sandwich(config-if-range)#exit
Sandwich(config)#interface fa0/10
Sandwich(config-if)#switchport mode access
Sandwich(config-if)#switchport access vlan 10
Sandwich(config-if)#switchport port-security
Sandwich(config-if)#switchport port-security maximum 2
Sandwich(config-if)#switchport port-security mac-address sticky
Sandwich(config-if)#switchport port-security violation protect
Sandwich(config-if)#exit
Sandwich(config)#interface fa0/11
Sandwich(config-if)#switchport mode access
Sandwich(config-if)#switchport access vlan 10
Sandwich(config-if)#switchport port-security
Sandwich(config-if)#switchport port-security maximum 3
Sandwich(config-if)#switchport port-security mac-address sticky
Sandwich(config-if)#switchport port-security violation protect
Sandwich(config-if)#exit
Sandwich(config)#interface fa0/12
Sandwich(config-if)#switchport mode access
Sandwich(config-if)#switchport access vlan 10
Sandwich(config-if)#switchport port-security
Sandwich(config-if)#switchport port-security maximum 6
Sandwich(config-if)#switchport port-security mac-address sticky
Sandwich(config-if)#switchport port-security violation protect
Sandwich(config-if)#exit
Sandwich(config)#wr
                 ^
% Invalid input detected at '^' marker.

Sandwich(config)#end
Sandwich#
%SYS-5-CONFIG_I: Configured from console by console

                                              Copy        Paste

Top
```

4. VLAN Configuration

Commands used to create VLAN 10 (HAM) and assign the switchports connected to PC1, PC2, and PC3:

vlan 10
 name HAM
exit

interface range fa0/10 - 12
 switchport mode access
 switchport access vlan 10
exit

5. Port Security Configuration

Sticky port security was configured on Fa0/10, Fa0/11, and Fa0/12 with varying MAC limits.

6. Verification

Relevant verification commands were used to confirm proper configuration.