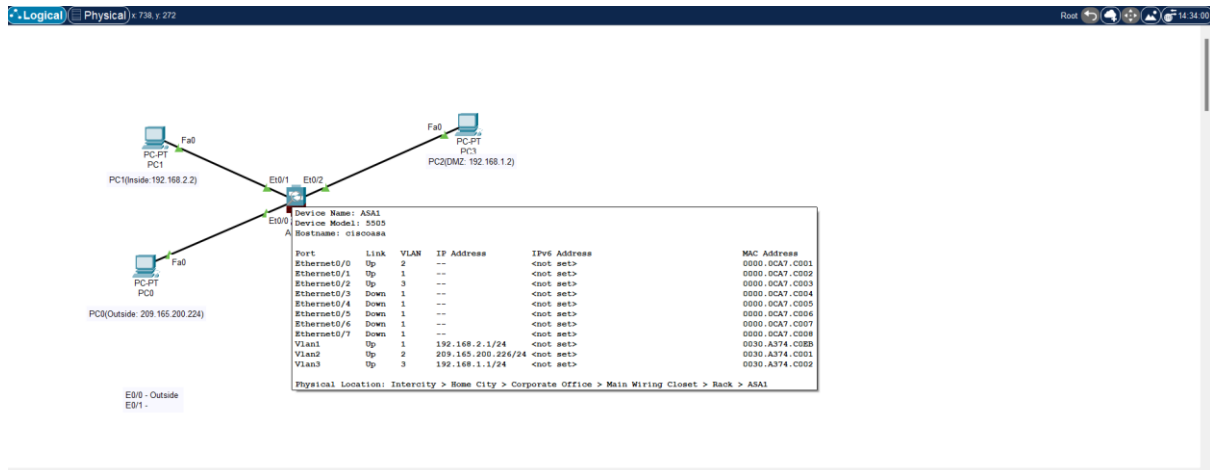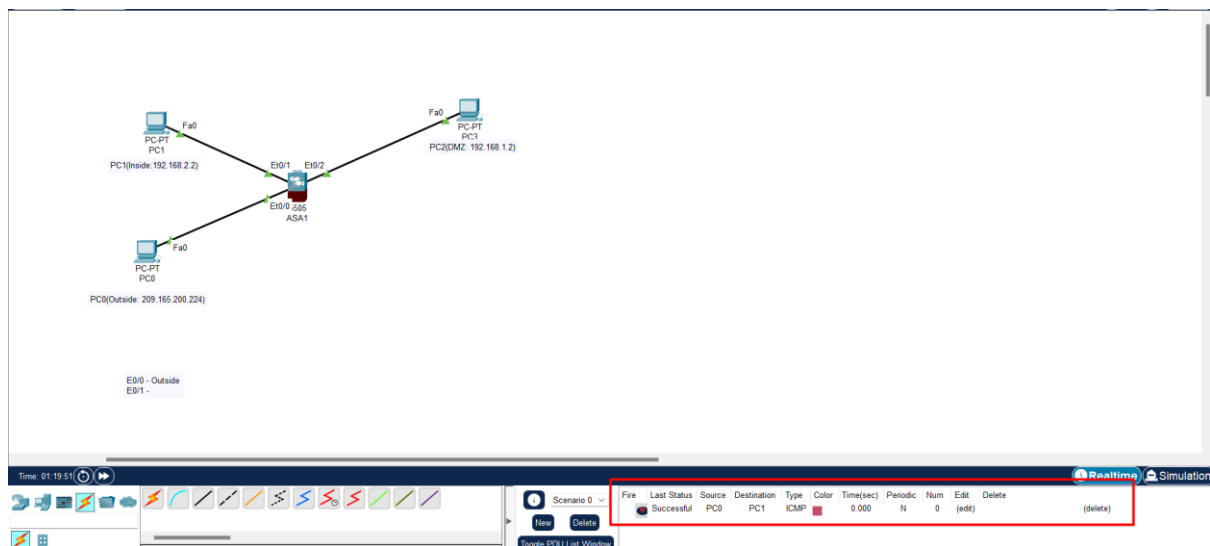# Network Security Exam

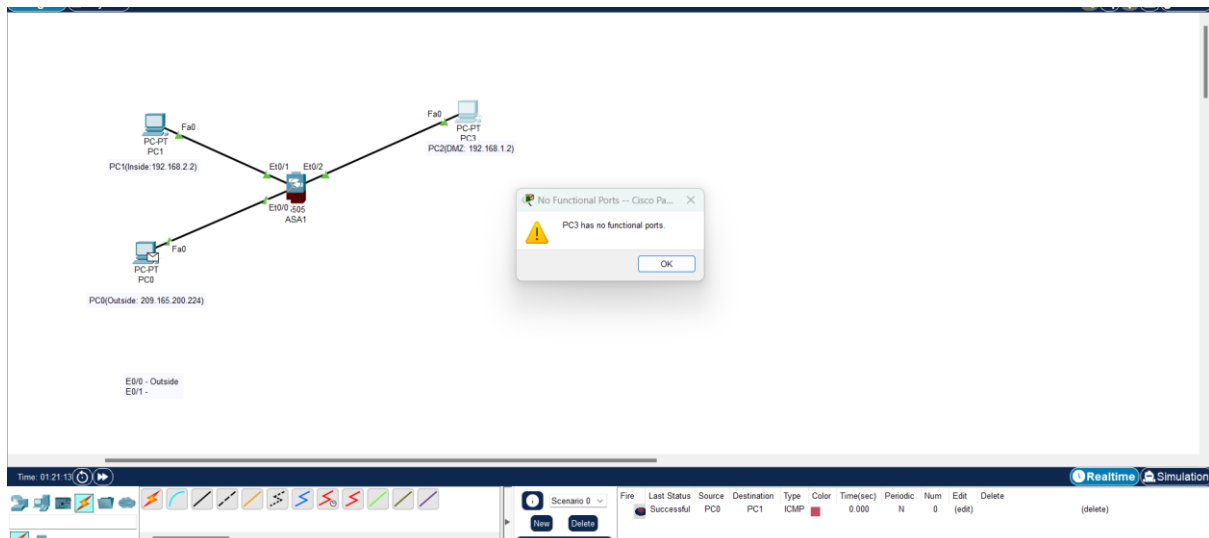**Jay Shah: CB.SC.P2CYS23009**

Date: 07/02/2024

If we transfer packet from Outside to Inside. It is Successful.

If we transfer packet from Outside to DMZ then it will not work

- For Inside Network and Outside Network


```
!
!
!
ciscoasa(config)#
ciscoasa(config)#
ciscoasa(config)#
ciscoasa(config)#
ciscoasa(config)#
ciscoasa(config)#no dhcpd address 192.168.1.5-192.168.1.36 inside
ciscoasa(config)#exit
ciscoasa#conf t
ciscoasa(config)#int vlan 1
ciscoasa(config-if)#ip address 192.168.2.2 255.255.255.0
ciscoasa(config-if)#name
ciscoasa(config-if)#nameif inside
ciscoasa(config-if)#securiy
ciscoasa(config-if)#securi
ciscoasa(config-if)#security-level 100
ciscoasa(config-if)#exit
ciscoasa(config)#int
ciscoasa(config)#interface e
ciscoasa(config)#interface ethernet 0/1
ciscoasa(config-if)#switchport acce
ciscoasa(config-if)#switchport access vlan 1
ciscoasa(config-if)#
ciscoasa(config-if)#
ciscoasa(config-if)#exit
ciscoasa(config)#
ciscoasa(config)#int vlan 2
ciscoasa(config-if)#ip address 209.165.200.224 255.255.255.0
ciscoasa(config-if)#no shut
ciscoasa(config-if)#name
ciscoasa(config-if)#nameif outside
ciscoasa(config-if)#se
ciscoasa(config-if)#security-level 0
ciscoasa(config-if)#exit
ciscoasa(config)#interface e
ciscoasa(config)#interface ethernet 0/0
ciscoasa(config-if)#switchport ac
ciscoasa(config-if)#switchport access vlan 2
ciscoasa(config-if)#exit
ciscoasa(config)#
```

- For DMZ read on

We need to write this command

ciscoasa(config-if)#no forward interface vlan 1
ciscoasa(config-if)#name
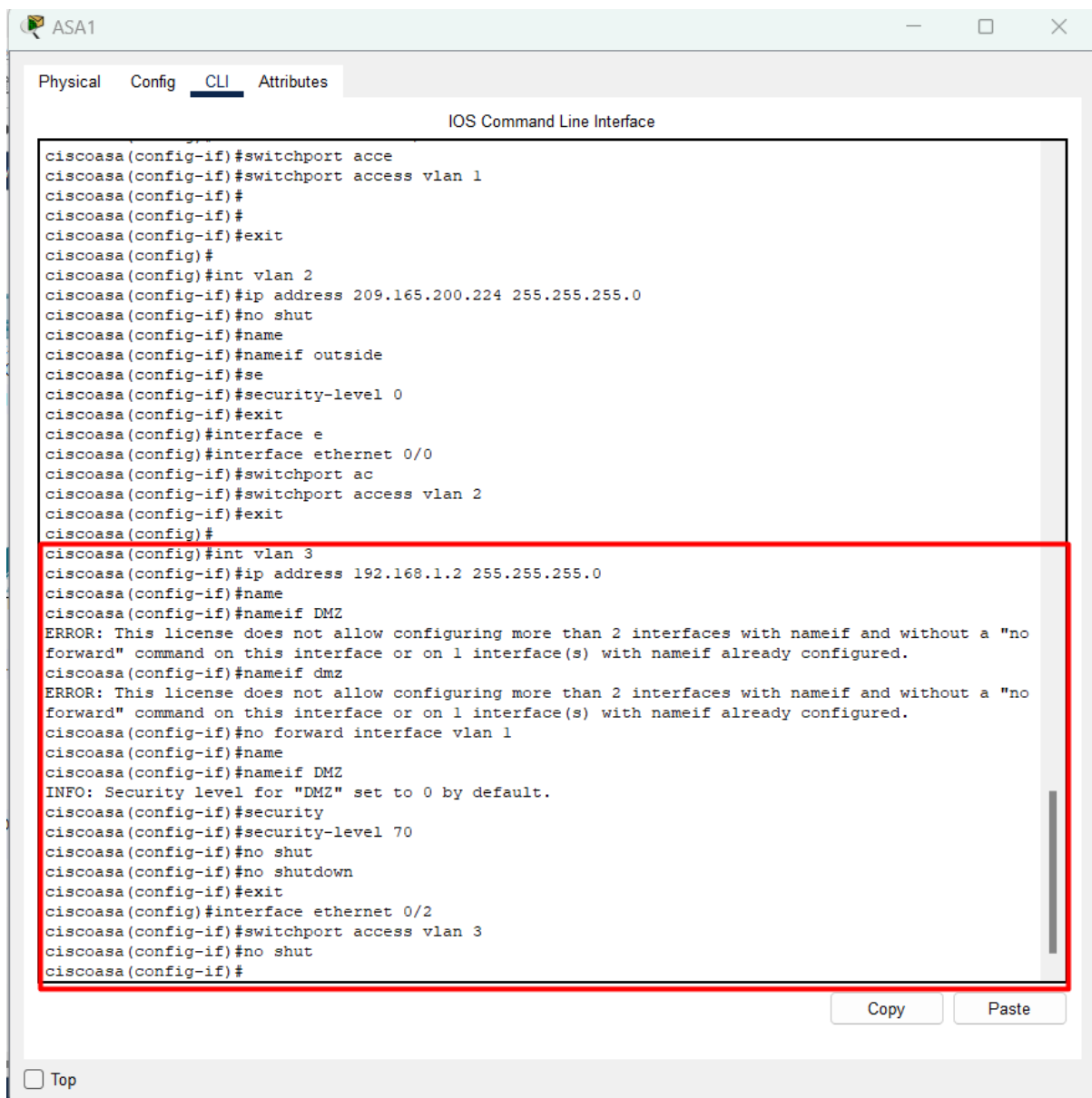**ciscoasa(config-if)#nameif DMZ**
INFO: Security level for "DMZ" set to 0 by default.
ciscoasa(config-if)#security
ciscoasa(config-if)#security-level 70
ciscoasa(config-if)#no shut
ciscoasa(config-if)#no shutdown

ASA1

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
ciscoasa(config-if)#switchport acce
ciscoasa(config-if)#switchport access vlan 1
ciscoasa(config-if)#
ciscoasa(config-if)#
ciscoasa(config-if)#exit
ciscoasa(config)#
ciscoasa(config)#int vlan 2
ciscoasa(config-if)#ip address 209.165.200.224 255.255.255.0
ciscoasa(config-if)#no shut
ciscoasa(config-if)#name
ciscoasa(config-if)#nameif outside
ciscoasa(config-if)#se
ciscoasa(config-if)#security-level 0
ciscoasa(config-if)#exit
ciscoasa(config)#interface e
ciscoasa(config)#interface ethernet 0/0
ciscoasa(config-if)#switchport ac
ciscoasa(config-if)#switchport access vlan 2
ciscoasa(config-if)#exit
ciscoasa(config)#
ciscoasa(config)#int vlan 3
ciscoasa(config-if)#ip address 192.168.1.2 255.255.255.0
ciscoasa(config-if)#name
ciscoasa(config-if)#nameif DMZ
ERROR: This license does not allow configuring more than 2 interfaces with nameif and without a "no
forward" command on this interface or on 1 interface(s) with nameif already configured.
ciscoasa(config-if)#nameif dmz
ERROR: This license does not allow configuring more than 2 interfaces with nameif and without a "no
forward" command on this interface or on 1 interface(s) with nameif already configured.
ciscoasa(config-if)#no forward interface vlan 1
ciscoasa(config-if)#name
ciscoasa(config-if)#nameif DMZ
INFO: Security level for "DMZ" set to 0 by default.
ciscoasa(config-if)#security
ciscoasa(config-if)#security-level 70
ciscoasa(config-if)#no shut
ciscoasa(config-if)#no shutdown
ciscoasa(config-if)#exit
ciscoasa(config)#interface ethernet 0/2
ciscoasa(config-if)#switchport access vlan 3
ciscoasa(config-if)#no shut
ciscoasa(config-if)#
```

Copy   Paste

☐ Top

For Access List and NAT Configuration

```
ciscoasa(config-if)#switchport access vlan 3
ciscoasa(config-if)#no shut
ciscoasa(config-if)#
ciscoasa(config-if)#exit
ciscoasa(config)#dhcpd address 192.168.2.2 inside
ciscoasa(config)#dhcpd dns 0.0.0.0 interface inside
ciscoasa(config)#object network LAN
ciscoasa(config-network-object)#subnet 192.168.2.0 255.255.255.0
ciscoasa(config-network-object)#nat (inside,outside) dynamic interface
ciscoasa(config-network-object)#exit
ciscoasa#conf t
ciscoasa(config)#access-list internetl extended permit tcp any any
ciscoasa(config)#access-list internetl extended permit icmp any any
ciscoasa(config)#access-group internetl in interface out
ciscoasa(config)#access-group internetl in interface outside
ciscoasa(config)#route outside 0.0.0.0 0.0.0.0 209.165.200.1
ciscoasa(config)#
```

- **For PC 1 Inside**

- **For PC 0 Outside**

- **For PC 2 DMZ**

PC3 — □ X

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0   ▾

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.1.2

Subnet Mask   255.255.255.0

Default Gateway   192.168.1.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address   /

Link Local Address   FE80::201:96FF:FEAA:2BD0

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5   ▾

Username

Password

☐ Top