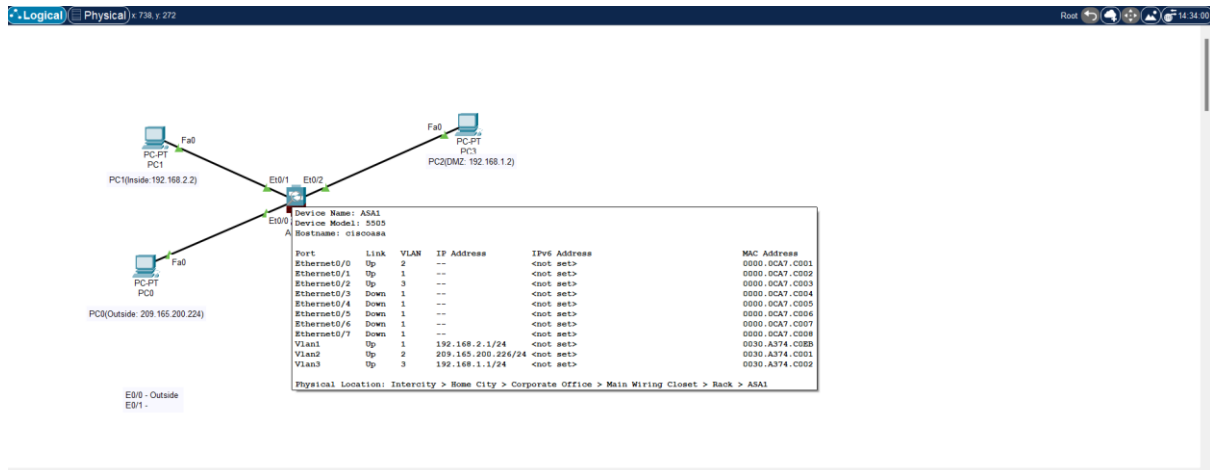


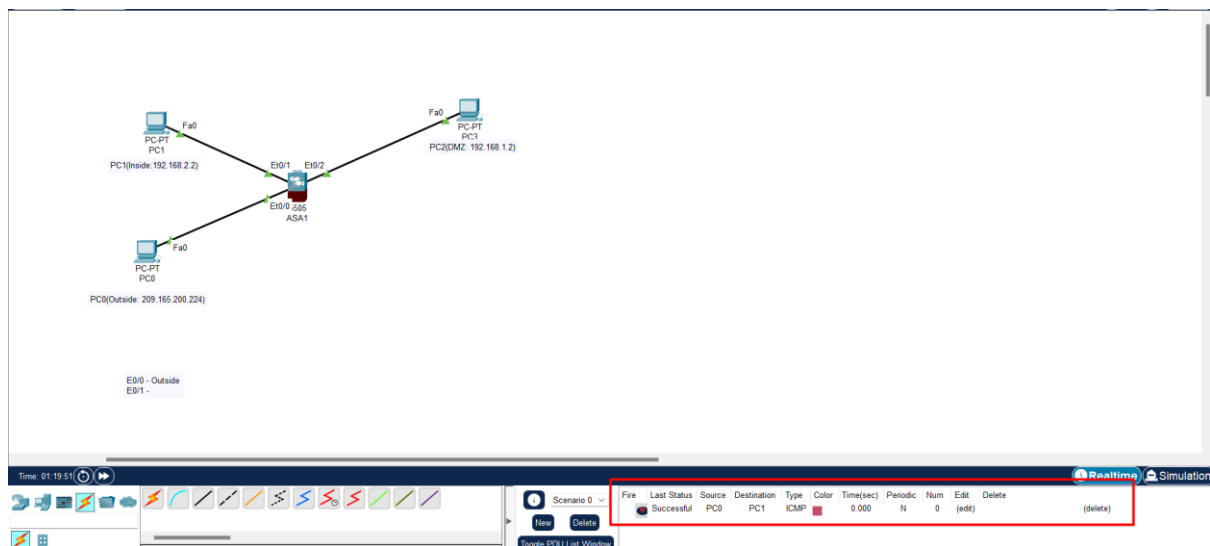
Network Security Exam

Jay Shah: CB.SC.P2CYS23009

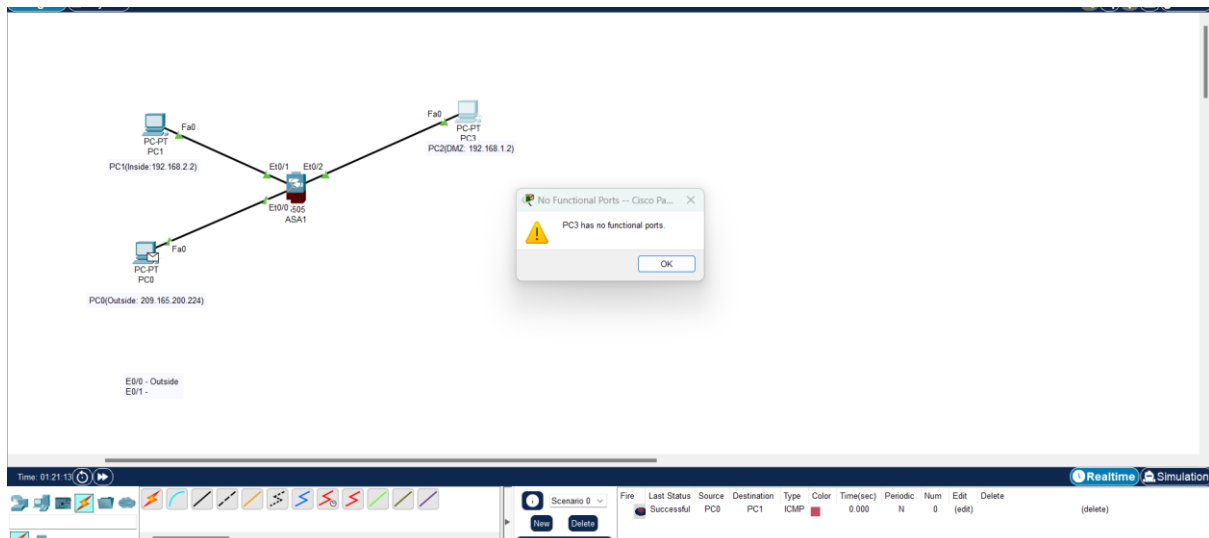
Date: 07/02/2024



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

```

ASA1
Physical Config CLI Attributes
IOS Command Line Interface

!
!
!
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)#

```

Copy Paste

Top

- 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

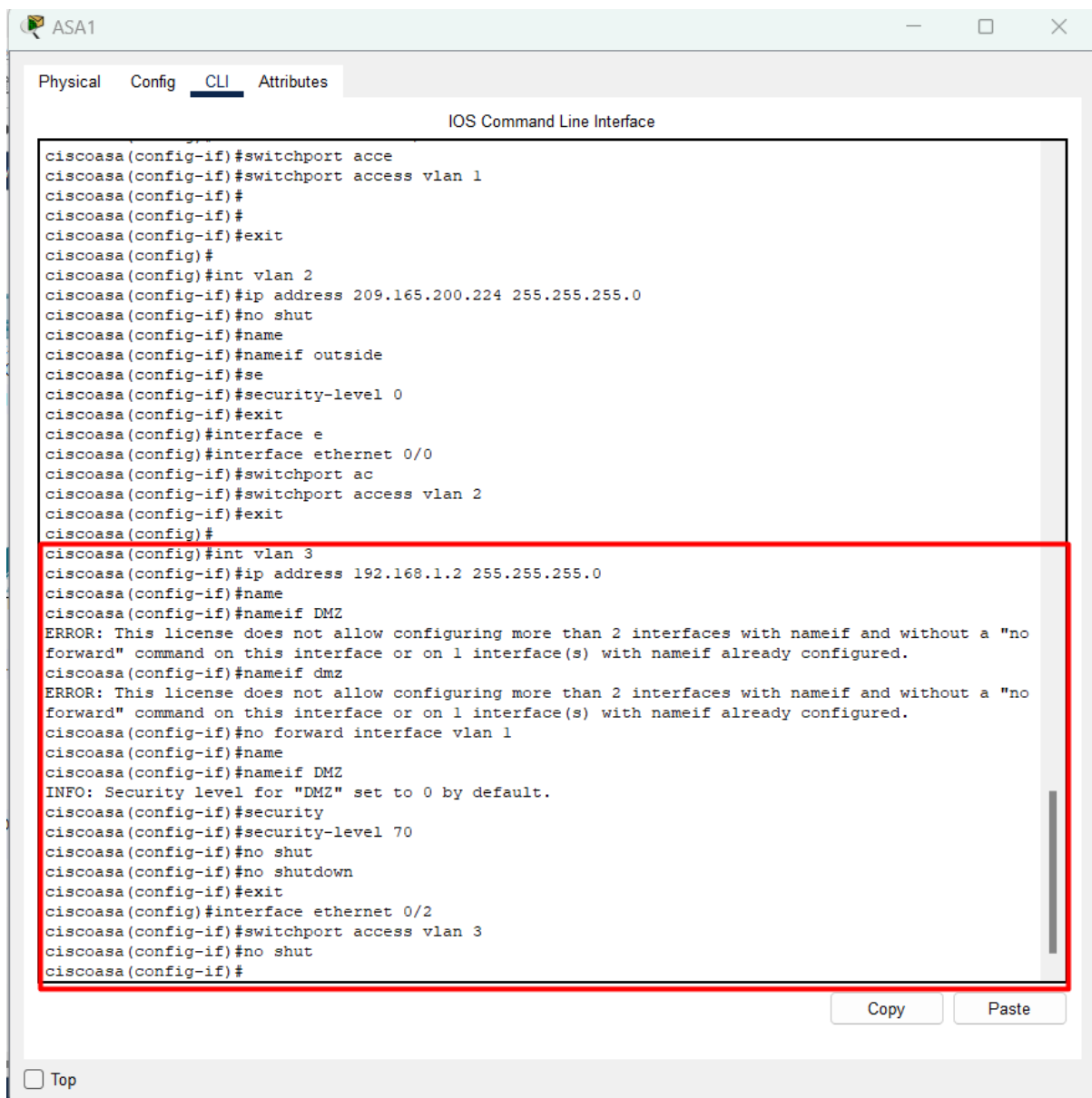
INFO: Security level for "DMZ" set to 0 by default.

ciscoasa(config-if)#security

ciscoasa(config-if)#security-level 70

ciscoasa(config-if)#no shut

ciscoasa(config-if)#no shutdown



```

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 internet1 extended permit tcp any any  
ciscoasa(config)#access-list internet1 extended permit icmp any any  
ciscoasa(config)#access-group internet1 in interface out  
ciscoasa(config)#access-group internet1 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

The screenshot shows the configuration window for PC1, specifically the 'Desktop' tab. The 'IP Configuration' section is active, showing settings for the 'FastEthernet0' interface. The 'Static' radio button is selected for IP configuration. The following fields are highlighted with a red box:

- IPv4 Address: 192.168.2.2
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.2.1

Other visible settings include:

- DNS Server: 0.0.0.0
- IPv6 Configuration: 'Static' is selected, with a Link Local Address of FE80::201:96FF:FE0C:C02B.
- 802.1X: 'Use 802.1X Security' is unchecked, with Authentication set to MD5.

A 'Top' button is located at the bottom left of the window.

- **For PC 0 Outside**

The screenshot shows a window titled "PC0" with a standard Windows-style title bar (minimize, maximize, close buttons). The window has a tabbed interface with four tabs: "Physical", "Config", "Desktop" (which is selected), and "Programming". Below the tabs is a large configuration area. At the top of this area is a blue header bar labeled "IP Configuration" with a close button "X" on the right. Below the header, there is a dropdown menu for "Interface" set to "FastEthernet0". The configuration is divided into three sections: 1. "IP Configuration": Contains radio buttons for "DHCP" (unselected) and "Static" (selected). Below are text fields for "IPv4 Address" (209.165.200.224), "Subnet Mask" (255.255.255.0), "Default Gateway" (209.165.200.226), and "DNS Server" (0.0.0.0). 2. "IPv6 Configuration": Contains radio buttons for "Automatic" (unselected) and "Static" (selected). Below are text fields for "IPv6 Address" (empty), "Link Local Address" (FE80::2D0:D3FF:FE56:9A93), "Default Gateway" (empty), and "DNS Server" (empty). 3. "802.1X": Contains a checkbox for "Use 802.1X Security" (unchecked). Below it is a dropdown for "Authentication" set to "MD5", and two empty text fields for "Username" and "Password". At the bottom left of the window is a "Top" button with a small square icon.

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 209.165.200.224

Subnet Mask 255.255.255.0

Default Gateway 209.165.200.226

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:D3FF:FE56:9A93

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Top

- **For PC 2 DMZ**

PC3

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address192.168.1.2

Subnet Mask255.255.255.0

Default Gateway192.168.1.1

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address/

Link Local AddressFE80::201:96FF:FEAA:2BD0

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

Username

Password

Top