

The figure displays three separate windows of the Cisco IOS Command Line Interface (CLI) running on Cisco 3560-24PS switches. Each window shows a different stage of configuration:

- Window 1 (SW1):** Shows the initial configuration dialog where the user is prompted to enter the initial configuration dialog. The user has chosen to proceed without configuration.
- Window 2 (SW2):** Shows the configuration of interface VLAN 88 with IP address 192.168.88.2 and subnet mask 255.255.255.0. It also includes service password-encryption and a banner message.
- Window 3 (SW3):** Shows the configuration of interface VLAN 88 with IP address 192.168.88.4 and subnet mask 255.255.255.0. It includes service password-encryption and a banner message.

The windows are titled "3560-24PS" and the "Physical" tab is selected in each. The CLI interface includes standard Cisco command-line features like "Copy" and "Paste" buttons at the bottom.

The screenshot shows three separate windows of the Cisco IOS Command Line Interface (CLI) running on three different Cisco 3560-24PS switches. Each window has tabs for Physical, Config, CLI, and Attributes, with the CLI tab selected.

**Switch 1 (Left):**

```
SW1#enable
SW1(config) terminal
Enter configuration commands, one per line. End with CNTL/Z.
SW1(config)#vlan 15
SW1(config-vlan)#name west
SW1(config-vlan)#vlan 5
SW1(config-vlan)#name east
SW1(config-vlan)#vlan 30
SW1(config-vlan)#name center
SW1(config-vlan)#int g1/0/2
SW1(config-if)#switchport mode trunk

SW1(config-if)#%
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/2, changed state to up
switchport trunk allowed vlan 15,25,99
SW1(config-if)#exit
SW1(config)#int range g1/0/1-12
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#switchport access vlan 15
SW1(config-if-range)#int range g1/0/12-18
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#switchport access vlan 35
SW1(config-if-range)#int range f0/20-24
interface range not valid, command rejected
SW1(config-if-range)#int range f0/20-24
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#switchport access vlan 50
% Access VLAN does not exist. Creating vlan 50
SW1(config-if-range)#
SW1(config-if-range)#
SYS-5-CONFIG_I: Configured from console by console

SW1#enable
SW1(config) terminal
Enter configuration commands, one per line. End with CNTL/Z.
SW1(config)#int range g1/18-24
SW1(config-if-range)#switch access vlan 50
SW1(config-if-range)#exit
SW1(config)exit
```

**Switch 2 (Middle):**

```
SW2#enable
SW2(config) terminal
Enter configuration commands, one per line. End with CNTL/Z.
SW2(config)#vlan 15
SW2(config-vlan)#name west
SW2(config-vlan)#vlan 25
SW2(config-vlan)#name east
SW2(config-vlan)#vlan 35
SW2(config-vlan)#name center
SW2(config-vlan)#int g1/0/1
SW2(config-if)#switchport mode trunk
SW2(config-if)#switchport trunk allowed vlan 15,25,88
SW2(config-if)#exit
SW2(config)#int range g1/0/1-11
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 25
SW2(config-if-range)#int range g1/0/11-16
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 20
% Access VLAN does not exist. Creating vlan 20
SW2(config-if-range)#switchport access vlan 20
^
* Invalid input detected at '^' marker.

SW2(config-if-range)#switchport access vlan 20
SW2(config-if-range)#int range g1/0/19-24
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 38
% Access VLAN does not exist. Creating vlan 38
SW2(config-if-range)#switchport access vlan 38
SW2(config-if-range)#exit
SW2(config)#
SW2(config)#
SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
SW2#
```

**Switch 3 (Right):**

```
SW3(config-if-range)#int range g1/0/17-
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet1/0/2 (15), with SW2 GigabitEthernet1/0/2 (25).
24
SW3(config-if-range)#switchport mode access
SW3(config-if-range)#switchport access vlan 35
% Access VLAN does not exist. Creating vlan 35
SW3(config-if-range)#switchport access vlan 35
SW3(config-if-range)#
sh shutdown
SW3(config-if-range)#
SW3(config-if-range)#
SYS-5-CONFIG_I: Configured from console by console
copy running-config
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet1/0/2 (15), with SW2 GigabitEthernet1/0/2 (25).
24
dest startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
SW3#
```

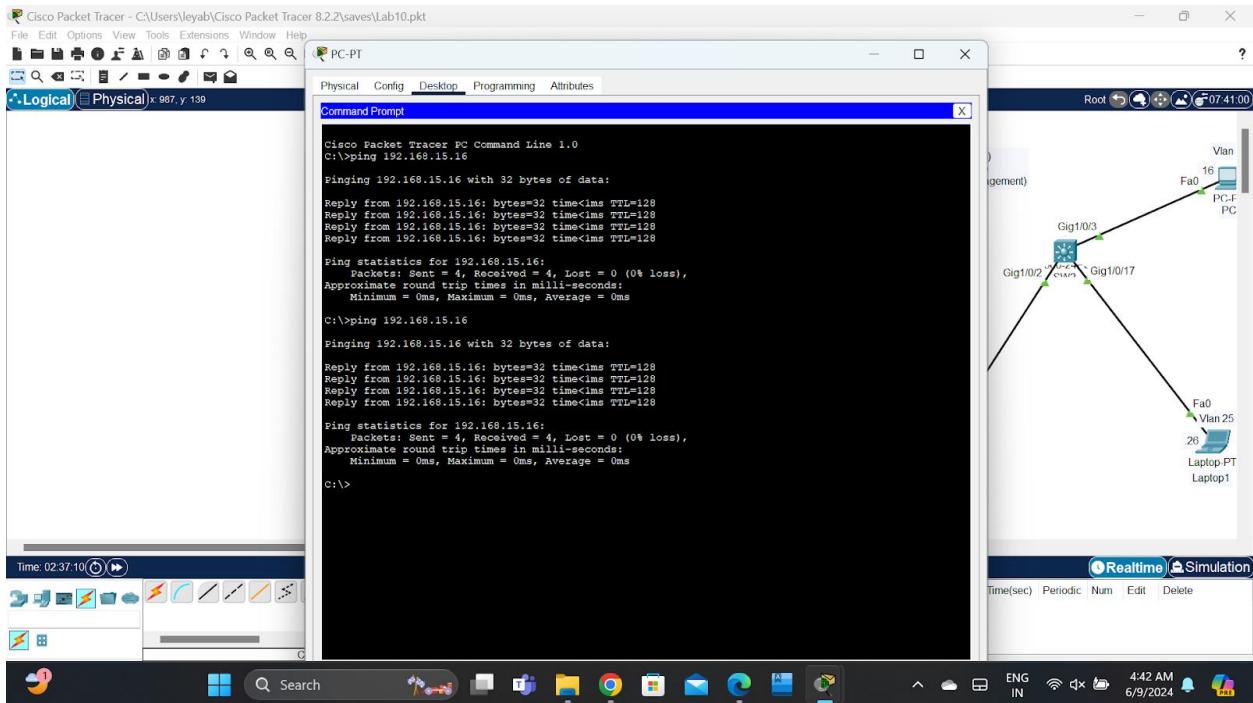
**Common Issues:**

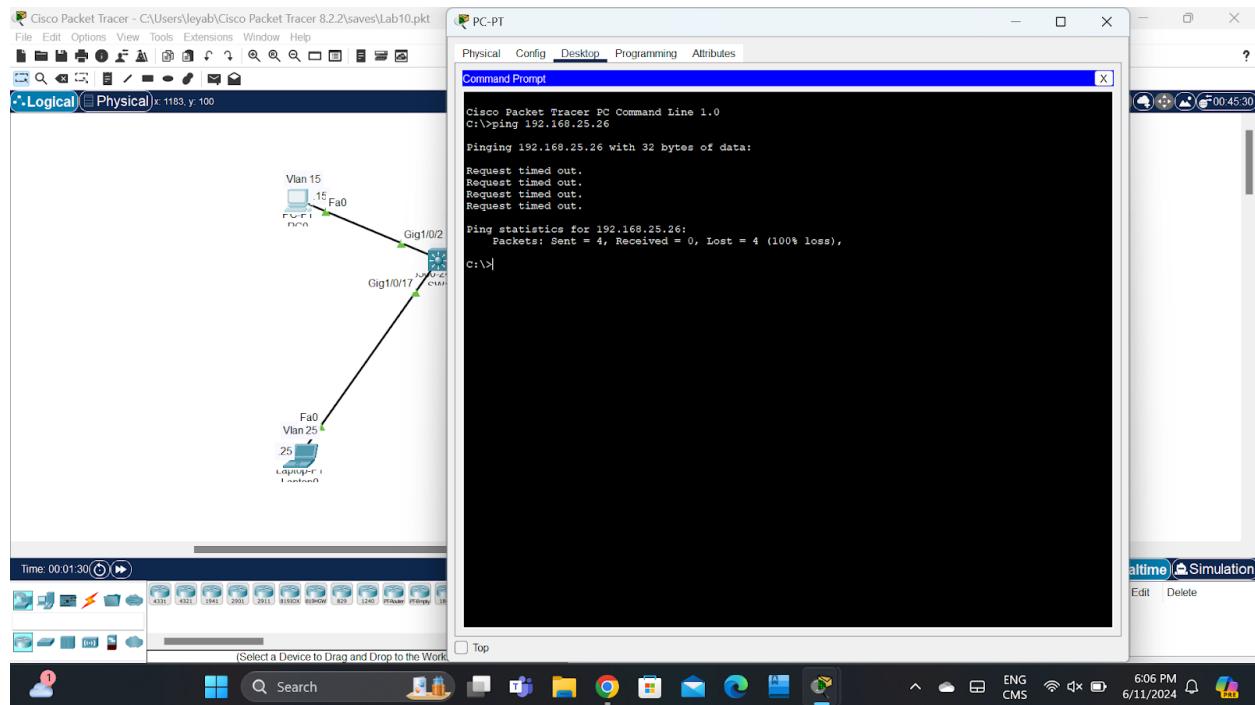
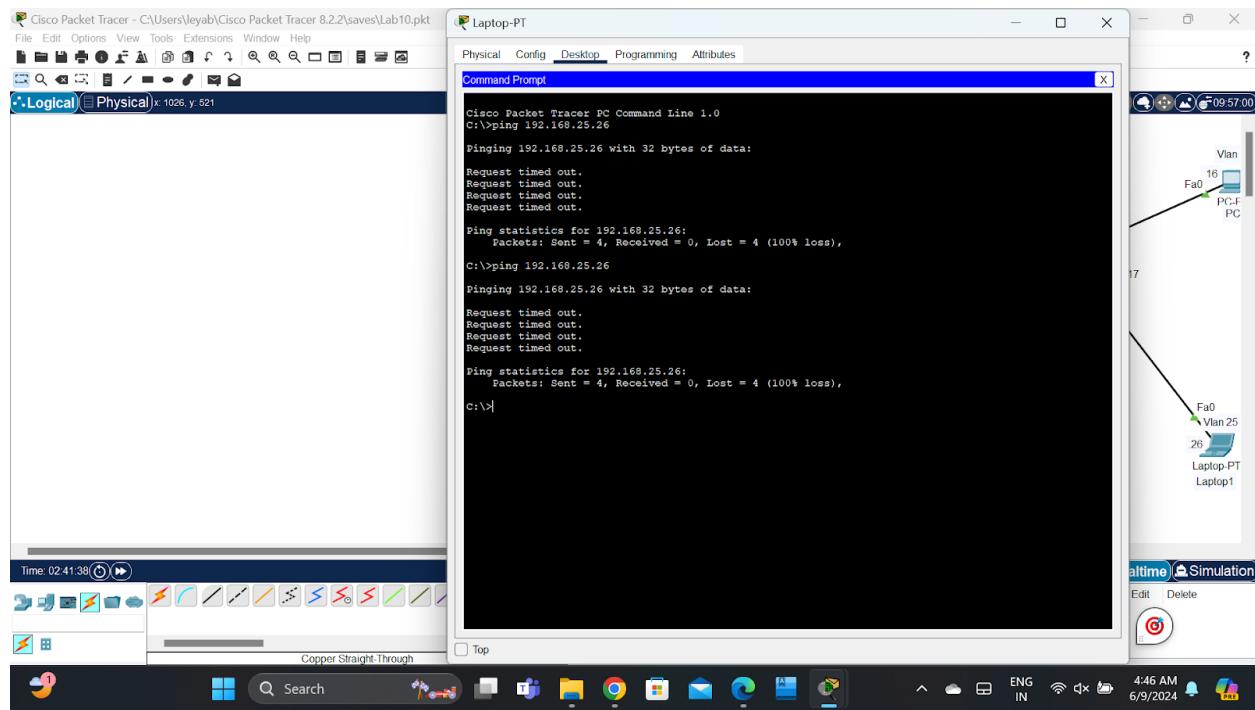
- %LINEPROTO-5-UPDOWN:** Line protocol on Interface GigabitEthernet1/0/2, changed state to down
- %LINEPROTO-5-UPDOWN:** Line protocol on Interface GigabitEthernet1/0/2, changed state to up
- switchport trunk allowed vlan 15,25,99** (Switch 1)
- switchport trunk allowed vlan 15,25,88** (Switch 2)
- switchport access vlan 50** (Switch 1)
- switchport access vlan 50** (Switch 2)
- % Access VLAN does not exist. Creating vlan 50** (Switch 1)
- % Access VLAN does not exist. Creating vlan 38** (Switch 2)
- %CDP-4-NATIVE\_VLAN\_MISMATCH:** Native VLAN mismatch discovered on GigabitEthernet1/0/2 (15), with SW2 GigabitEthernet1/0/2 (25).
- %CDP-4-NATIVE\_VLAN\_MISMATCH:** Native VLAN mismatch discovered on GigabitEthernet1/0/2 (15), with SW2 GigabitEthernet1/0/2 (25).
- %CDP-4-NATIVE\_VLAN\_MISMATCH:** Native VLAN mismatch discovered on GigabitEthernet1/0/2 (15), with SW2 GigabitEthernet1/0/2 (25).
- %CDP-4-NATIVE\_VLAN\_MISMATCH:** Native VLAN mismatch discovered on GigabitEthernet1/0/2 (15), with SW2 GigabitEthernet1/0/2 (25).
- %CDP-4-NATIVE\_VLAN\_MISMATCH:** Native VLAN mismatch discovered on GigabitEthernet1/0/2 (15), with SW2 GigabitEthernet1/0/2 (25).

The screenshot displays three windows of the Cisco IOS Command Line Interface (CLI) running on three separate Cisco 3560-24PS switches. Each window shows a different stage of configuration and troubleshooting:

- Switch 1 (Left):** Shows the initial configuration of interface SW1/1, setting it to trunk mode. It also lists various native VLAN mismatch errors (e.g., %LINEPROTO-5-UPDOWN, %CDP-4-NATIVE\_VLAN\_MISMATCH) and ends with a configuration mismatch error (%SYS-5-CONFIG\_I).
- Switch 2 (Middle):** Shows the configuration of interface SW1/2, including creating VLAN 15 and setting its native VLAN to 15. It also lists native VLAN mismatch errors and ends with a configuration mismatch error (%SYS-5-CONFIG\_I).
- Switch 3 (Right):** Shows the configuration of interface SW1/3, including creating VLAN 25 and setting its native VLAN to 25. It lists native VLAN mismatch errors and ends with a configuration mismatch error (%SYS-5-CONFIG\_I).

Each window includes standard Cisco CLI navigation buttons (Copy, Paste, Top) and a taskbar at the bottom.





**SW1**

Physical Config **CLI** Attributes

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface FastEthernet0/17, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/17, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan25, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan15, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
Warning!! Authorized Access Only!!

SW1>
SW1>
SW1>
SW1>
SW1>
SW1>
SW1>
SW1>enable
SW1#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
SW1(config)#interface range fa0/1 fa0/3-16, fa0/18-24, g0/2
SW1(config-if-range)#shutdown
SW1(config-if-range)#switchport mode access
SW1(config-if-range)#switchport access vlan 33
SW1(config-if-range)#exit
SW1(config)#exit
SW1#
%SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
SW1#
```

Copy Paste

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Realtime Simulation

6:19 PM 6/11/2024

**SW2**

Physical Config **CLI** Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan15, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan25, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan88, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/17, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/17, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
Warning!! Authorized Access Only!!

SW2>
SW2>
SW2>
SW2>
SW2>
SW2>
SW2>
SW2>
SW2>
SW2>enable
SW2#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
SW2(config)#interface range fa0/1-2,fa0/4-16, fa0/18-24, g0/1
SW2(config-if-range)#shutdown
SW2(config-if-range)#switchport mode access
SW2(config-if-range)#switchport access vlan 33
SW2(config-if-range)#exit
SW2(config)#exit
%SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
SW2#
```

Copy Paste

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Realtime Simulation

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