

QUIZ 2
DESAIN DAN MANAJEMEN JARINGAN



Oleh:
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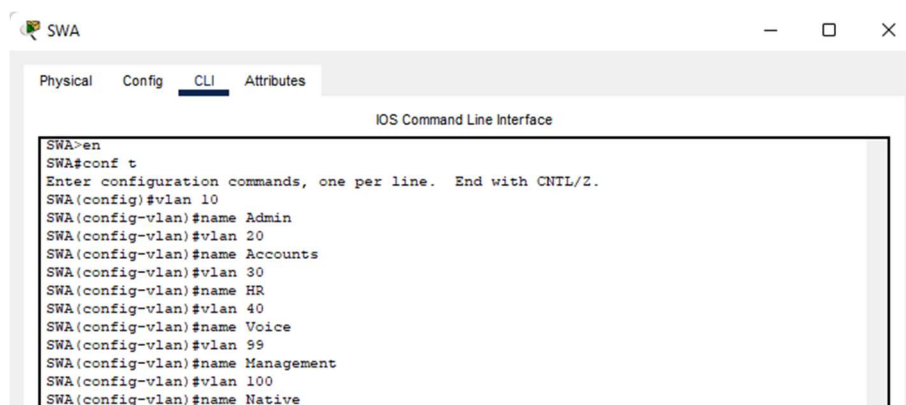
FAKULTAS ILMU KOMPUTER
UNIVERSITAS JEMBER
2022

1. Konfigurasi VLAN sesuai dengan tabel berikut

VLAN Number	VLAN Name
10	Admin
20	Accounts
30	HR
40	Voice
99	Management
100	Native

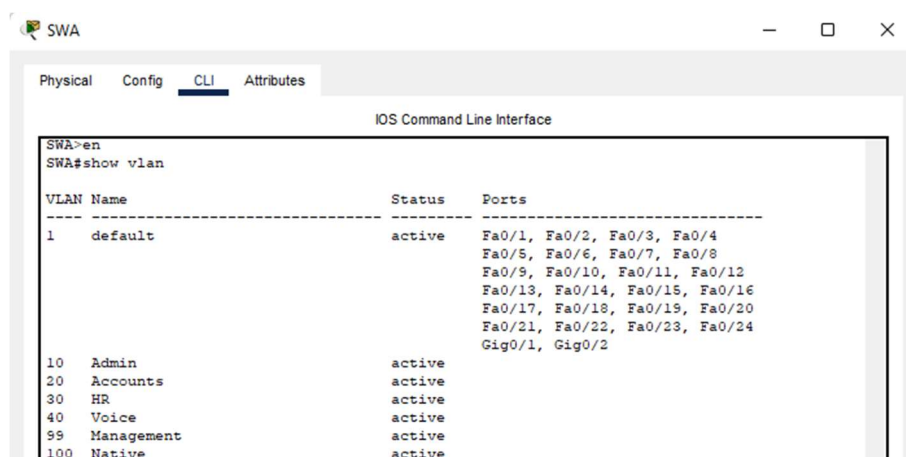
Jawab:

SWA



```
SWA>en
SWA#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SWA(config)#vlan 10
SWA(config-vlan)#name Admin
SWA(config-vlan)#vlan 20
SWA(config-vlan)#name Accounts
SWA(config-vlan)#vlan 30
SWA(config-vlan)#name HR
SWA(config-vlan)#vlan 40
SWA(config-vlan)#name Voice
SWA(config-vlan)#vlan 99
SWA(config-vlan)#name Management
SWA(config-vlan)#vlan 100
SWA(config-vlan)#name Native
```

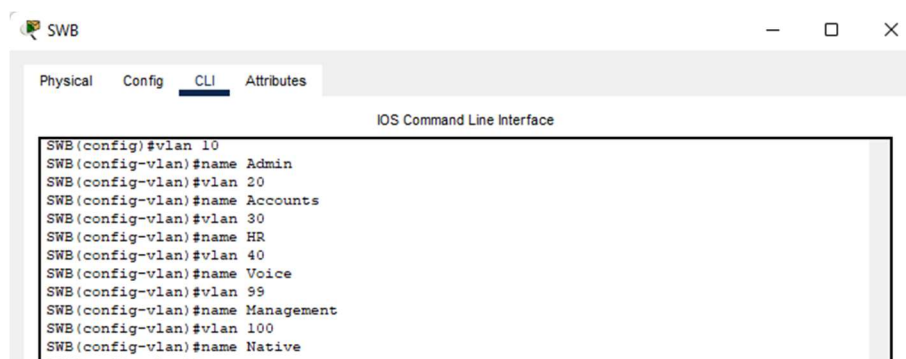
Menggunakan perintah `show vlan`, dapat terlihat list VLAN yang telah dibuat



```
SWA>en
SWA#show vlan

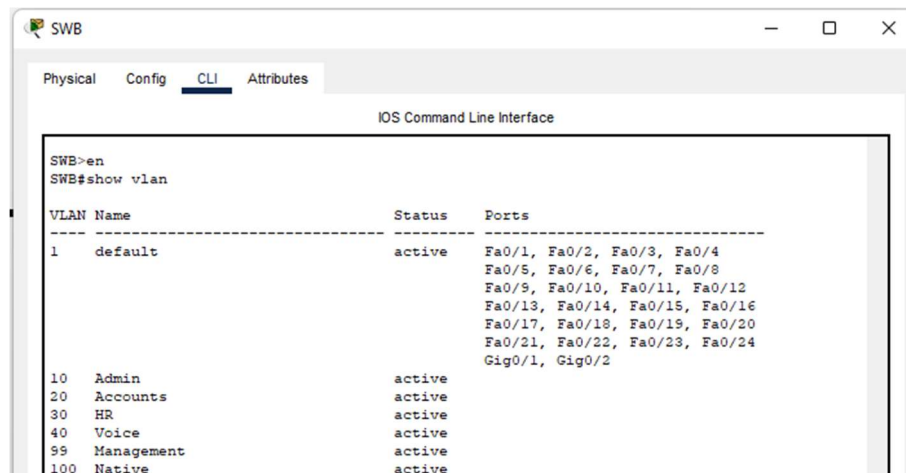
VLAN Name                Status    Ports
-----
1    default                active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                           Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                           Fa0/9, Fa0/10, Fa0/11, Fa0/12
                                           Fa0/13, Fa0/14, Fa0/15, Fa0/16
                                           Fa0/17, Fa0/18, Fa0/19, Fa0/20
                                           Fa0/21, Fa0/22, Fa0/23, Fa0/24
                                           Gig0/1, Gig0/2
10   Admin                  active
20   Accounts               active
30   HR                     active
40   Voice                  active
99   Management             active
100  Native                 active
```

SWB



The screenshot shows the SWB CLI window with the 'CLI' tab selected. The 'IOS Command Line Interface' section displays a series of configuration commands for creating VLANs. The commands are: `SWB(config)#vlan 10`, `SWB(config-vlan)#name Admin`, `SWB(config-vlan)#vlan 20`, `SWB(config-vlan)#name Accounts`, `SWB(config-vlan)#vlan 30`, `SWB(config-vlan)#name HR`, `SWB(config-vlan)#vlan 40`, `SWB(config-vlan)#name Voice`, `SWB(config-vlan)#vlan 99`, `SWB(config-vlan)#name Management`, `SWB(config-vlan)#vlan 100`, and `SWB(config-vlan)#name Native`.

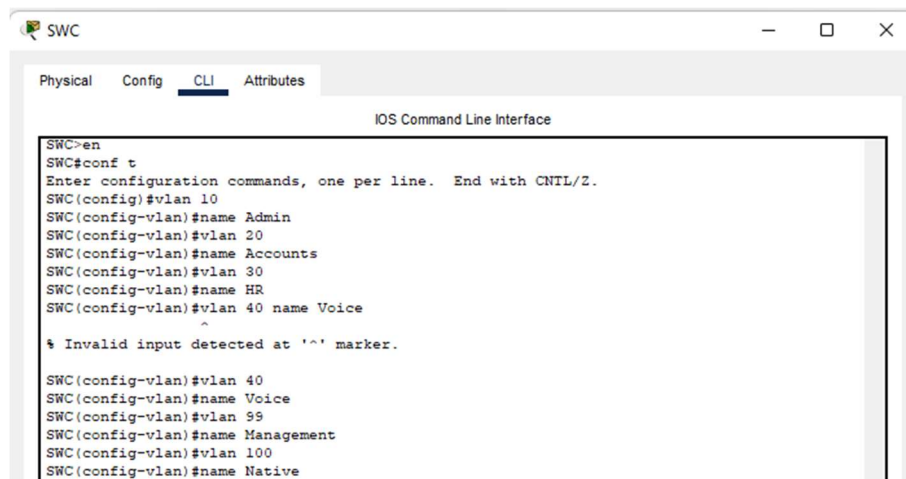
Menggunakan perintah `show vlan`, dapat terlihat list VLAN yang telah dibuat



The screenshot shows the SWB CLI window with the 'CLI' tab selected. The 'IOS Command Line Interface' section displays the output of the `show vlan` command. The output is a table with three columns: 'VLAN Name', 'Status', and 'Ports'.

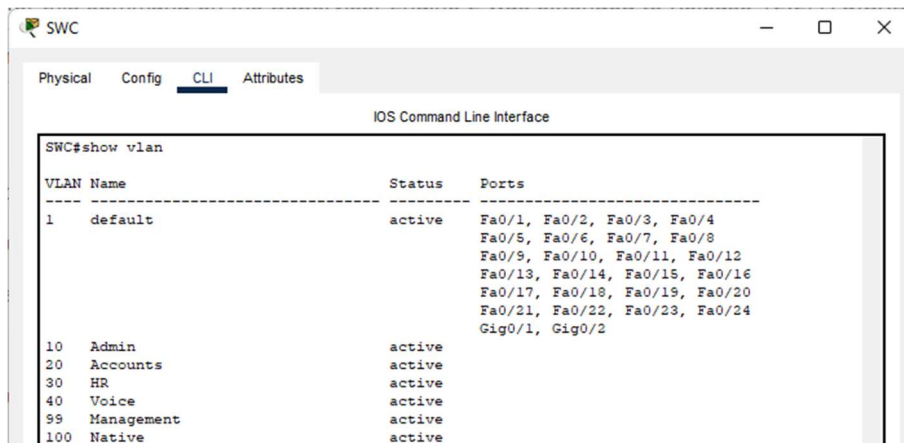
VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gig0/1, Gig0/2
10 Admin	active	
20 Accounts	active	
30 HR	active	
40 Voice	active	
99 Management	active	
100 Native	active	

SWC



The screenshot shows the SWC CLI window with the 'CLI' tab selected. The 'IOS Command Line Interface' section displays a series of configuration commands for creating VLANs. The commands are: `SWC>en`, `SWC#conf t`, `SWC(config)#vlan 10`, `SWC(config-vlan)#name Admin`, `SWC(config-vlan)#vlan 20`, `SWC(config-vlan)#name Accounts`, `SWC(config-vlan)#vlan 30`, `SWC(config-vlan)#name HR`, `SWC(config-vlan)#vlan 40 name Voice`, `SWC(config-vlan)#vlan 40`, `SWC(config-vlan)#name Voice`, `SWC(config-vlan)#vlan 99`, `SWC(config-vlan)#name Management`, `SWC(config-vlan)#vlan 100`, and `SWC(config-vlan)#name Native`. There is an error message: `% Invalid input detected at '^' marker.` after the `SWC(config-vlan)#vlan 40 name Voice` command.

Menggunakan perintah `show vlan`, dapat terlihat list VLAN yang telah dibuat



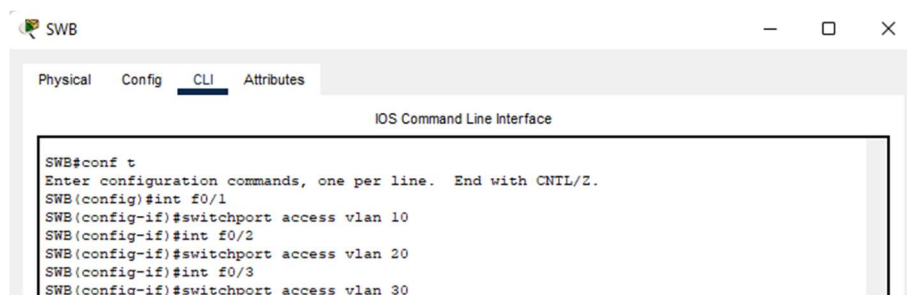
```
SWC#show vlan
```

VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gig0/1, Gig0/2
10 Admin	active	
20 Accounts	active	
30 HR	active	
40 Voice	active	
99 Management	active	
100 Native	active	

2. Tetapkan port ke VLAN

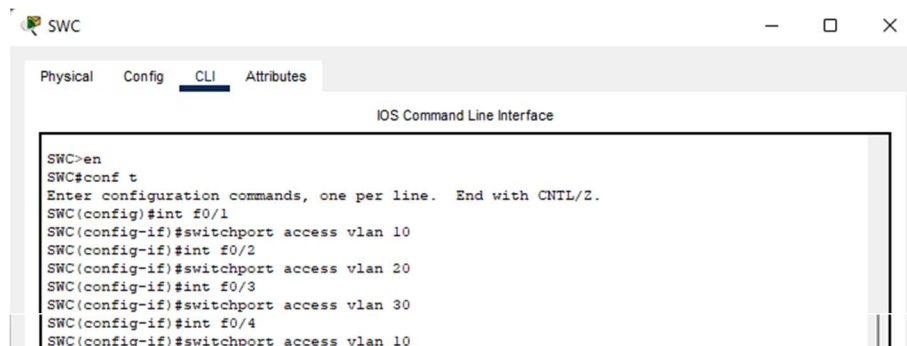
Step 1: Tetapkan Port Akses ke VLAN

- SWB



```
SWB#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SWB(config)#int f0/1
SWB(config-if)#switchport access vlan 10
SWB(config-if)#int f0/2
SWB(config-if)#switchport access vlan 20
SWB(config-if)#int f0/3
SWB(config-if)#switchport access vlan 30
```

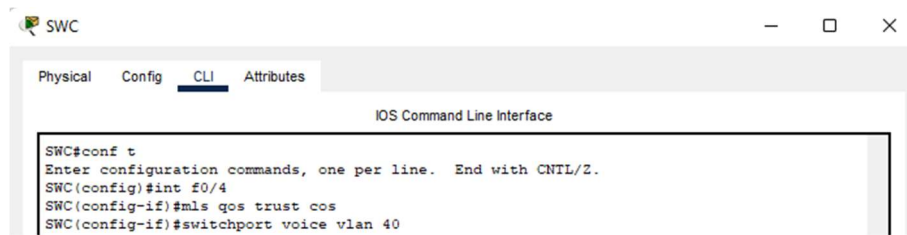
- SWC



```
SWC>en
SWC#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SWC(config)#int f0/1
SWC(config-if)#switchport access vlan 10
SWC(config-if)#int f0/2
SWC(config-if)#switchport access vlan 20
SWC(config-if)#int f0/3
SWC(config-if)#switchport access vlan 30
SWC(config-if)#int f0/4
SWC(config-if)#switchport access vlan 10
```

Step 2: Konfigurasi Port Voice ke VLAN

- SWC



The screenshot shows a network configuration window for a switch named SWC. The window has tabs for Physical, Config, CLI, and Attributes, with the CLI tab selected. The title bar of the CLI window reads "IOS Command Line Interface". The command prompt shows the following sequence of commands:

```
SWC#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SWC(config)#int f0/4
SWC(config-if)#mls qos trust cos
SWC(config-if)#switchport voice vlan 40
```