

CISCO

COMMAND LINE



SUBASH SUBEDI

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# Types of Mode

User EXEC Mode (>).

Privileged EXEC Mode (#).

Global Configuration Mode (config).

Interface Configuration Mode (config-if).

Line Configuration Mode (config-line).

V LAN Configuration Mode (config-vlan)

# CMD to Enter User EXEC Mode.



Figure

>

# CMD to Enter Privileged EXEC Mode.

>enable



Figure

# CMD to Enter Global Configuration Mode.

#configure terminal

A yellow and black text

AI-generated content may be incorrect.

Figure

# CMD to Change the device name.

hostname [Name of Router]

A black text on a white background

AI-generated content may be incorrect.

Figure

# CMD to Set the Manual Time Settings.

clock set [hh:mm:ss] [month] [day] [year] ***“This cmd is used in Privileged Exec Mode”***

A yellow rectangular sign with numbers and a black and green text

AI-generated content may be incorrect.

Figure

do clock set [hh:mm:ss] [month] [day] [year] ***“This cmd is used in Global Configuration Mode”***

A yellow line with black text

AI-generated content may be incorrect.

Figure

# CMD to Set the Automatic Time Settings.

clock timezone NPT 5 45

# CMD to save all configurations.

write memory ***“This cmd is used in Privileged Exec Mode”***



Figure

**OR**

wr ***“This cmd is used in Privileged Exec Mode”***



Figure

**OR**

copy running-config startup-config ***“This cmd is used in Privileged Exec Mode”***

A yellow text on a white background

AI-generated content may be incorrect.

Figure

**OR**

do write memory ***“This cmd is used in Privileged Exec Mode”***

A black and white text

AI-generated content may be incorrect.

Figure

**OR**

do wr ***“This cmd is used in Global Configuration Mode”***

A close up of words

AI-generated content may be incorrect.

Figure

**OR**

do copy running-config startup-config ***“This cmd is used in Global Configuration Mode”***

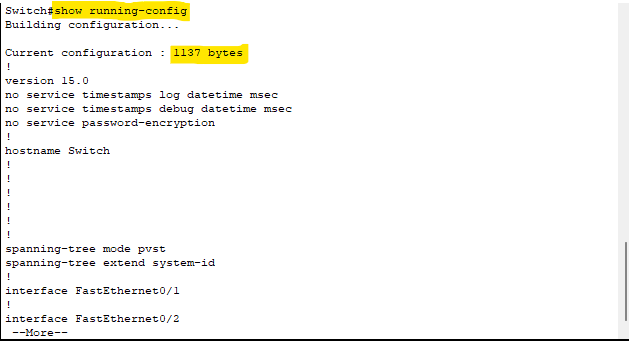
A yellow line with black text

AI-generated content may be incorrect.

Figure

# CMD to review or see the latest NVRAM file of the network node

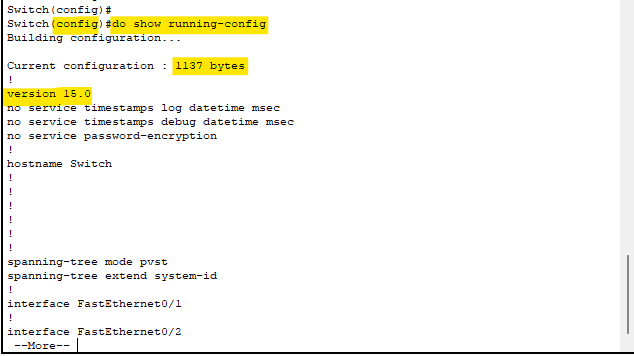
show running-config



Figure

**OR**

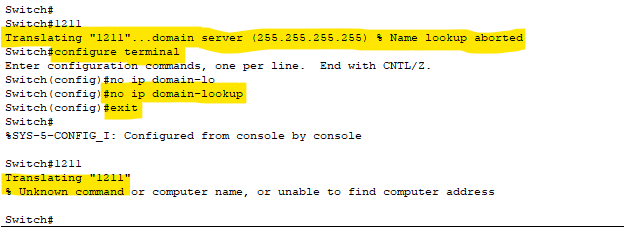
do show running-config ***“This cmd is used in Global Configuration Mode”***



Figure

# CMD to disable translating unfamiliar words (typos) into IP addresses. (Shift+Ctrl+6)

no ip domain-lookup



Figure

# CMD to set Banner Message at Starting.

banner motd $ [Write your message to display] $



Figure

# CMD to set Normal Enable Password (to Enter Privileged EXEC Mode).

enable password [ENTER YOUR PASSWOD]

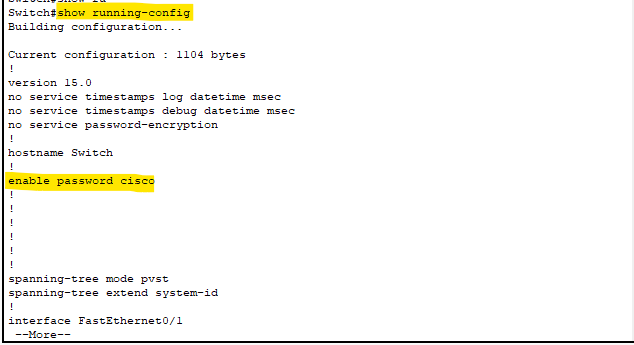
A black text on a white background

AI-generated content may be incorrect.

Figure

RESULT





Figure

# CMD to set Encrypt the plain text passwords.

service password-encryption

A computer screen shot of a computer

AI-generated content may be incorrect.

Figure

RESULT

A screenshot of a computer

AI-generated content may be incorrect.

Figure

# CMD to set time Disconnect/Logout automatically.

It will be used when we are accessing the router through console cable.

line console 0

exec-time [Minutes] [Second]

exit

A yellow rectangles with black text

AI-generated content may be incorrect.

Figure

**ANOTHER**

It will be used when we are accessing the router through TELENET and SSH

line vty 0 15

exec-timeout [Minutes] [Second]

exit

A yellow squares with black text

AI-generated content may be incorrect.

Figure

# CMD to configure the console cable access password

This cmd is used for one password by many users.

line console 0

password [Enter your password]

login local or login

exec-time [Minutes] [Second]

exit

A white background with black dots

AI-generated content may be incorrect.

Figure

**ANOTHER**

This cmd is used as per username and password.

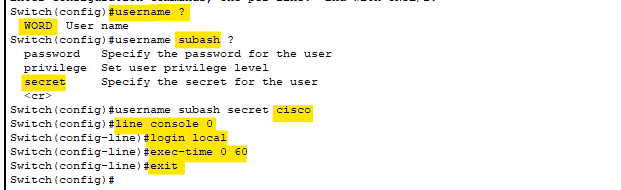
username [Name] secret [Enter your Password]

line console 0

login local or login

exec-time [Minutes] [Second]

exit



Figure

# CMD to configure password while access through TELNET and SSH

TELNET

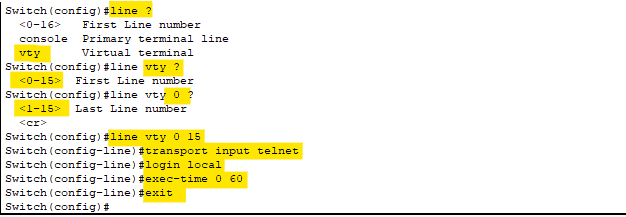
line vty [] []

transport input telnet

login local

exec-time [Minutes] [Second]

exit



Figure

TELNET in per username and password

username [Name] secret [Enter your Password]

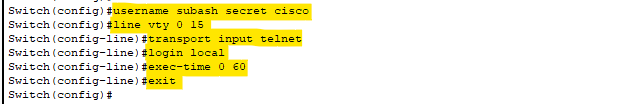
line vty 0 15

transport input telnet

login local

exec-time [Minutes] [Second]

exit



Figure

SSH

SSH in per username and password

username [Name] secret [Enter your Password]

ip domain-name [Nomain Name]

crypto key generate rsa

[Enter the rsa Number for encryprtion ]

ip ssh version [Enable SSH version ]

line vty [] []

login local

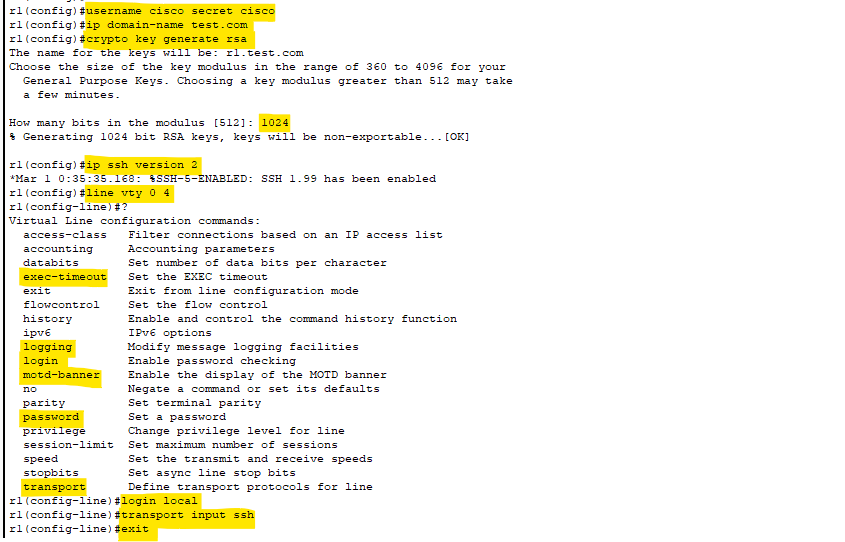
transport input ssh

exit

ip ssh time-out [Second] [Minutes]

ip ssh authentication-retries [Limit login attempts]

exit



Figure

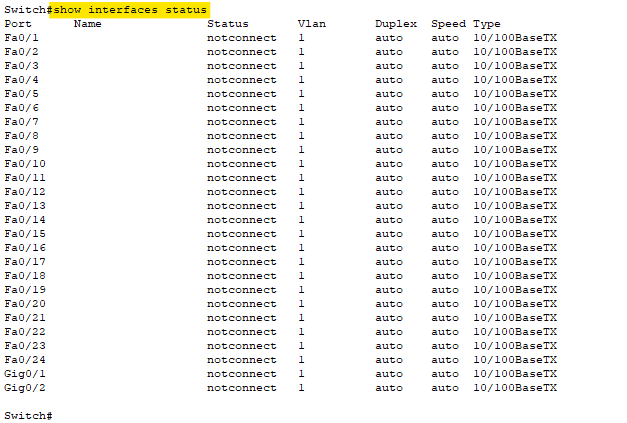
A yellow rectangular sign with black text

AI-generated content may be incorrect.

Figure

# CMD to view LAN interface status (UP/Down)

show interfaces status



Figure

# CMD to set an IP address in interface

interface gigabitEthernet [interface number ]

ip address A.B.C.D IP subnet mask

no shutdown

exit

A screenshot of a computer

AI-generated content may be incorrect.

# CMD to set trunk port

configure terminal

interface GigabitEthernet0/1

switchport mode trunk

switchport trunk allowed vlan all

exit

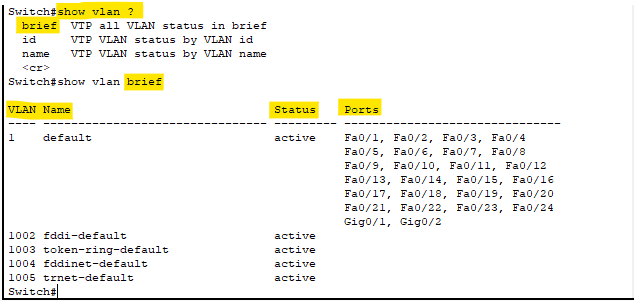
A screenshot of a computer

AI-generated content may be incorrect.

Figure

# CMD to view VLAN

show vlan brief



Figure

# CMD to create VLAN in SWITCH AND ROUTER

CREATE VLAN IN SWITCH AND ROUTER

vlan [Enter your vlan numebr]

name [Enter vlan name]

vlan 20

name TECHNICAL

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AI-generated content may be incorrect.

Figure

RESULT

A screenshot of a computer

AI-generated content may be incorrect.

Figure

# CMD to add vlan on interface from range like 1-12 vlan-10 and 13-24 vlan 25

interface range gigabitEthernet [From]-[To ]

description [describe the port]

switchport mode access

switchport access vlan [NUMBER]

exit

**EXAMPLE**

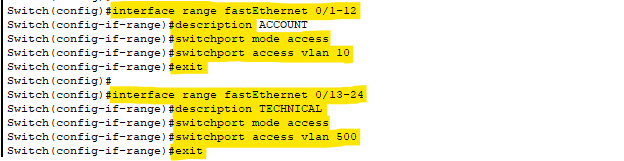
interface range gigabitEthernet 1/0/13-24

description TECHNICAL SECTION

switchport mode access

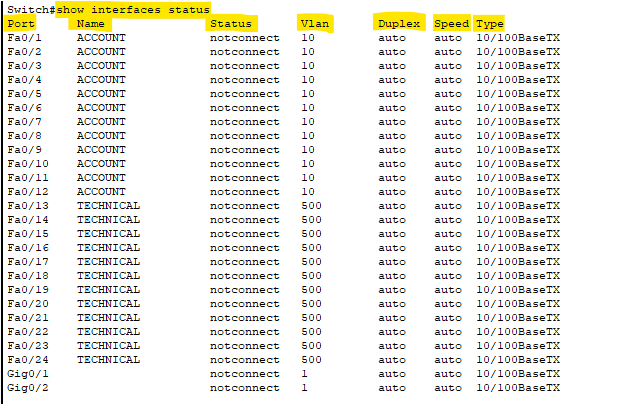
switchport access vlan 500

exit



Figure

**RESULT**



Figure

# CMD to assign IP address in interface vlan

interface vlan [Vlan Number]

ip address A.B.C.D IP subnet mask

arp Set arp type (arpa, probe, snap) or timeout

description Interface specific description

exit Exit from interface configuration mode

ip Interface Internet Protocol config commands

no Negate a command or set its defaults

shutdown Shutdown the selected interface

standby HSRP interface configuration commands

exit

**EXAMPLE**

Interface vlan 10

ip address 192.168.1.1 255.255.255.0

description $This Example of ip assign in vlan$

no shutdown

exit

A screenshot of a computer program

AI-generated content may be incorrect.