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Cisco Switch

: <https://cdn.technet24.ir/Downloads/Cisco/IOS/>

ROMMON Mode

```

Rommon mode
mode

rommon mode
.

가          BAUD RATE

```

```

switch: set BAUD 115200

//          .          115200

switch: set
BAUD=115200
...

```

```

          VLAN   가   vlan.dat   delete vlan.dat
          erase start          reload
reload          no

```

```

#del vlan.dat
#erase start
#reload
no

```

```

switch#>show version //
switch#>show interface vlan //
switch#>show running-config //

```

```

R1# show flash          -> Flash
R1# show ip route          ->
R1# show ip interface brief          ->
R1# show interface [Interface Name]          ->
R1# show controllers [Interface Name]          ->

```

```

R1# show cdp neighbor ->
R1# show cdp neighbor detail -> IP
R1# show running-config -> Running-Config (RAM)
R1# show startup-config -> Startup-Config (NVRAM)
R1# copy running-config startup-config -> RAM NVRAM
R1# erase startup-config -> NVRAM

```

IP

```

Switch# configure terminal
Switch(config)# interface vlan 1
Switch(config-if)# ip address 192.168.1.2 255.255.255.0
Switch(config-if)# no shutdown
Switch(config-if)# exit
Switch(config)# ip default-gateway 192.168.1.1

```

```

DHCP          1.          interface vlan 1          VLAN 1
. 2. ip address dhcp          IP          . 3. no shutdown
VLAN 1 가          . 4
.
가          dhcp IP          show running-config          IP
.          show dhcp lease          show interface vlan 1          IP
.

```

Timestamp

```

# conf t
(config) # service timestamps debug datetime localtime // debug
(config) # service timestamps log deatetime localtime // log

```

```

# sh clock //
# clock set 13:13:13 april 20 2020 //
# clock timezone kst 9 // ( )
# conf t
(config) # ntp server time.bora.net // NTP (boranet)
# sh ntp status // NTP

```


vlan IP

```

switch#conf t
switch(config)#interface vlan 2
switch(config-if)#ip address 10.10.10.2 255.255.255.0      <- vlan2 ip

switch(config-if)#no shutdown                               <- shutdown
'no'가
switch(config-if)#exit
switch(config)#exit
switch#show interfaces vlan 2                               <- vlan2

Vlan2 is up, line protocol is down
  Hardware is EtherSVI, address is 1c17.d3e5.c14e (bia 1c17.d3e5.c14e)
  Internet address is 10.10.10.2/24
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
..

```

IP 가

vlan IP

```

switch#conf t
switch(config)#interface vlan 2
switch(config-if)#no ip address                            <- vlan2 ip

switch(config-if)#exit
switch(config)#exit
switch#show interfaces vlan 2                               <- vlan2

Vlan2 is up, line protocol is down
  Hardware is EtherSVI, address is 1c17.d3e5.c14e (bia 1c17.d3e5.c14e)
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
..

```

IP 가

vlan

```

switch#conf t
switch(config)#no vlan 2                                   <- vlan2 (cisco
'no' / 가 )
switch(config)#exit

```

```
switch#show interfaces status
```

Port	Name	Status	Vlan	Duplex	Speed	Type
Gi0/1	10/100/1000BaseTX	notconnect	1	auto	auto	
Gi0/2	10/100/1000BaseTX	notconnect	2	auto	auto	

```
vlan 2 name vlan2
      가 ( ) . default
```

vlan

```
switch#conf t
switch(config)#interface gigabitEthernet 0/2          <- vlan
switch(config-if)#no switchport access vlan 2       <- vlan2
switch(config-if)#exit
switch(config)#exit
switch#show inter status
```

Port	Name	Status	Vlan	Duplex	Speed	Type
Gi0/1	10/100/1000BaseTX	notconnect	1	auto	auto	
Gi0/2	10/100/1000BaseTX	notconnect	1	auto	auto	

•

가

```
gmate(config)# line 0 16
gmate(config-line)# logg sync
```

•

```
gmate(config)#line console 0
gmate(config-line)# exec-timeout 0
```

•

```
gmate(config)# enable secret switch
```

switch

-

```
gmate#show line
```

VTY

```
gmate(config)#line vty 0 15  
gmate(config-line)# password switch
```

0~ 15

가 switch

-

```
gmate#show runnign-config
```

- vty

```
gmate(config)#service password-encryption
```

-

```
gmate(config)#banner motd *  
Authorized access only!!  
*
```

*

-

```
gmate(config)# default-value exec-character-bits 8  
gmate(config)# banner motd *  
가 !!  
*  
gmate(config)#
```

-

```
gmate(config)# interface f 1/0/1
```



```
gmate(config)# description gmatel
gmate(config)# interface f 1/0/2
gmate(config)# description gmate2
```

-

```
enable
config terminal
no ip domain-lookup
enable secret $gm@te2008

alias exec c config terminal
alias exec r show running-config
alias exec i show ip route
alias exec b show ip interface breif

line consol 0
logging synch
exec-timeout 0
lin vty 0 5
pass $gm@te2008
exit
hostname
```

DNS

```
cisco(config)#
cisco(config)#ip domain-lookup
cisco(config)#ip name-server 210.20.64.21
```

-

```
cisco(config)# no ip domain-lookup
```

- stp

```
Switch# show spanning-tree
Switch# show spanning-tree vlan [num]
Switch# show spanning-tree vlan [num] detail
```

-

Switch# show interface status

- link aggregation

```
Switch(config)# int port-channel 1
Switch(config-if)# int range gi 1/0/5-6
// chnnel-group 1 mode on
channel-group 1 mode active

Switch(config-if)# channel-proto lacp
Switch(config-if)# exit

Switch(config)# int port-channel 1
Switch(config-if)# switchport mode access
Switch(config-if)# switchport access vlan 10

Switch# show lacp neighbor
```

DTP

DTP (Dynamic Trunking Protocol)

. DTP

DTP

- (access) :

```
S1(config-if)#switchport mode access
```

- (trunk) :

DTP

```
S1(config-if)#switchport trunk encapsulation dot1q
S1(config-if)#switchport mode trunk
```

(802.1Q), isl negotiate()가 가 dot1q
Auto 가 .

```
S1(config-if)#switchport mode trunk
```

Command rejected: An interface whose trunk encapsulation is "Auto" cannot be

configured to "trunk" mode.

- (dynamic desirable) : DTP 가 , (auto) DTP .

```
S1(config-if)#switchport mode dynamic desirable
```

- (dynamic auto) : DTP 가 가

```
S1(config-if)#switchport mode dynamic auto
```

- - (nonegotiate) : 가 DTP

```
S1(config-if)#switchport mode trunk
```

```
S1(config-if)#switchport nonegotiate
```

nonegotiate dynamic 가 .

```
S1(config-if)#switchport mode dynamic desirable
```

Command rejected: Conflict between 'nonegotiate' and 'dynamic' status.

- , DTP 가

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