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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 inventory //
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 timestaps debug datetime localtime // debug
(config) # service timestaps 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

```

CISCO

- DTP Trunk
- VLAN

•

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 gmate1
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
```

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