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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	
BOOT=flash:c3750-ipservicesk9-mz.122-55.SE12/c3750-ipservicesk9-	
mz.122-55.SE12.bin	
CLEI_CODE_NUMBER=CNMWZ00ARC	
MAC_ADDR=00:21:1B:96:4A:00	
MANUAL_BOOT=no	
MODEL_NUM=WS-C3750G-24TS-E1U	
MODEL_REVISION_NUM=E0	
MOTHERBOARD_ASSEMBLY_NUM=73-10219-07	
MOTHERBOARD_REVISION_NUM=B0	
MOTHERBOARD_SERIAL_NUM=F0C12132ZU5	
POWER_SUPPLY_PART_NUM=341-0098-02	
POWER_SUPPLY_SERIAL_NUM=DCA1205948Z	
SDM_TEMPLATE_ID=0	
SWITCH_NUMBER=1	
SWITCH_PRIORITY=1	
SYSTEM_SERIAL_NUM=F0C1213Y12J	
TAN_NUM=800-27484-01	
TAN_REVISION_NUMBER=C0	
VERSION_ID=V03	

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
```

•

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
```

1

```
gmate(config)#banner motd *\nAuthorized access only!!\n*
```

\*

1

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

1

```
gmate(config)# interface f 1/0/1
gmate(config)# description gmate1
gmate(config)# interface f 1/0/2
gmate(config)# description gmate2
```

1

```
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 brief

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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