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# Cisco Switch

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

reload	VLAN	가	vlan.dat	delete vlan.dat
..	erase start			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  
</WRAP prewrap>
```

```
# 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

1

gmate#show line

VTY

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

0~15

## 가†switch

1

```
gmate#show running-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
```

•

```
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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