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# Cisco Switch

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

```

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

```

```

#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 datetime 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

- 

```
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@te2oo8

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@te2oo8
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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