Cisco Switch

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

VLAN 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   . 4
     .

         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
```

</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
```

-

```
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   switch

-

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

- vty

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

-

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

*

-

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