Команда «?»

```
Switch>?
Exec commands:
  connect     Open a terminal connection
  disable     Turn off privileged commands
  disconnect  Disconnect an existing network connection
  enable      Turn on privileged commands
  exit        Exit from the EXEC
  logout      Exit from the EXEC
  ping        Send echo messages
  resume      Resume an active network connection
  show        Show running system information
  ssh         Open a secure shell client connection
  telnet      Open a telnet connection
  terminal    Set terminal line parameters
  traceroute  Trace route to destination
Switch>
```

Команда «show ?»

```
Switch>show ?
  arp                 Arp table
  cdp                 CDP information
  clock               Display the system clock
  crypto              Encryption module
  dtp                 DTP information
  etherchannel        EtherChannel information
  flash:              display information about flash: file system
  history             Display the session command history
  interfaces          Interface status and configuration
  ip                  IP information
  lldp                LLDP information
  mac                 MAC configuration
  mac-address-table   MAC forwarding table
  mls                 Show MultiLayer Switching information
  privilege           Show current privilege level
  sessions            Information about Telnet connections
  ssh                 Status of SSH server connections
  tcp                 Status of TCP connections
  terminal            Display terminal configuration parameters
  users               Display information about terminal lines
  version             System hardware and software status
  vlan                VTP VLAN status
 --More--
```

Команда en

```
Switch>en
Switch#
```

Команда configure terminal

```
Switch>en
Switch#conf t
```

Команда enable password

```
Switch(config)#enable password *
Switch(config)#
```

Команда enable secret *

```
Switch(config)#enable secret *
The enable secret you have chosen is the same as your enable password.
This is not recommended.  Re-enter the enable secret.
Switch(config)#
```

Команда enable password * используется для установки пароля для доступа к привилегированному режиму, но этот пароль хранится в конфигурационном файле в виде обычного текста (plain text).

Команда enable secret * используется для установки зашифрованного пароля для доступа к привилегированному режиму. Этот пароль хранится в конфигурационном файле в зашифрованном виде с использованием алгоритма MD5.

Команда write memory

```
Switch#write memory
Building configuration...
[OK]
Switch#
```

Команда reload

```
Switch#reload
Proceed with reload? [confirm]yC2960 Boot Loader (C2960-HBOOT-M) Version 12.2(25r)FX, RELEASE
SOFTWARE (fc4)
Cisco WS-C2960-24TT (RC32300) processor (revision C0) with 21039K bytes of memory.
2960-24TT starting...
Base ethernet MAC Address: 0002.4A31.2D21
Xmodem file system is available.
Initializing Flash...
flashfs[0]: 2 files, 0 directories
flashfs[0]: 0 orphaned files, 0 orphaned directories
flashfs[0]: Total bytes: 64016384
flashfs[0]: Bytes used: 4671602
flashfs[0]: Bytes available: 59344782
flashfs[0]: flashfs fsck took 1 seconds.
...done Initializing Flash.

Boot Sector Filesystem (bs:) installed, fsid: 3
Parameter Block Filesystem (pb:) installed, fsid: 4


Loading "flash:/2960-lanbasek9-mz.150-2.SE4.bin"...
################################################
```

Нужна для:

1. Применение изменений конфигурации
2. Очистка оперативной памяти
3. Проверка конфигурации

Таким образом, команда reload является важным инструментом для администрирования сетевых устройств, обеспечивая применение изменений конфигурации, очистку оперативной памяти и проверку корректности настроек.

Дополнительные команды:

Show version

```
Switch>show version
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen

ROM: Bootstrap program is C2960 boot loader
BOOTLDR: C2960 Boot Loader (C2960-HBOOT-M) Version 12.2(25r)FX, RELEASE SOFTWARE (fc4)

Switch uptime is 39 minutes
System returned to ROM by power-on
System image file is "flash:c2960-lanbasek9-mz.150-2.SE4.bin"
```

show vlan brief

```
Switch>show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                                Fa0/9, Fa0/10, Fa0/11, Fa0/12
                                                Fa0/13, Fa0/14, Fa0/15, Fa0/16
                                                Fa0/17, Fa0/18, Fa0/19, Fa0/20
                                                Fa0/21, Fa0/22, Fa0/23, Fa0/24
                                                Gig0/1, Gig0/2
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active
Switch>
```

show ip interface brief

```
Switch#show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/1        unassigned      YES manual up                    up
FastEthernet0/2        unassigned      YES manual up                    up
FastEthernet0/3        unassigned      YES manual up                    up
FastEthernet0/4        unassigned      YES manual up                    up
FastEthernet0/5        unassigned      YES manual up                    up
FastEthernet0/6        unassigned      YES manual down                  down
FastEthernet0/7        unassigned      YES manual down                  down
FastEthernet0/8        unassigned      YES manual down                  down
FastEthernet0/9        unassigned      YES manual down                  down
FastEthernet0/10       unassigned      YES manual down                  down
FastEthernet0/11       unassigned      YES manual down                  down
FastEthernet0/12       unassigned      YES manual down                  down
FastEthernet0/13       unassigned      YES manual down                  down
FastEthernet0/14       unassigned      YES manual down                  down
FastEthernet0/15       unassigned      YES manual down                  down
FastEthernet0/16       unassigned      YES manual down                  down
FastEthernet0/17       unassigned      YES manual down                  down
FastEthernet0/18       unassigned      YES manual down                  down
FastEthernet0/19       unassigned      YES manual down                  down
FastEthernet0/20       unassigned      YES manual down                  down
FastEthernet0/21       unassigned      YES manual down                  down
 --More--
```