

DGS-3630-Series Switches

Switch Management Interfaces

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Switch Management Interfaces

D-Link Switches can be managed through Serial Port, Telnet (SSH) and Web interface. The Command-Line-Interface (CLI) can be used to configure and manage the switches via serial port and Telnet (SSH) interfaces.

WEB Interface

Port	Link Status	Medium	State	MDIX	Flow Control		Duplex
					Send	Receive	
eth1/0/1	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/2	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/3	Up	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/4	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/5	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/6	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/7	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/8	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/9	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/10	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/11	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/12	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/13	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/14	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/15	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/16	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/17	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/18	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/19	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex
eth1/0/20	Down	Enabled	Enabled	Auto-MDIX	Off	Off	Auto-duplex

CLI Interface

```
DGS-3630-28TC Gigabit Ethernet Switch

Command Line Interface
Firmware: Build 1.00.032
Copyright(C) 2016 D-Link Corporation. All rights reserved.

Switch>show ip interface mgmt 0

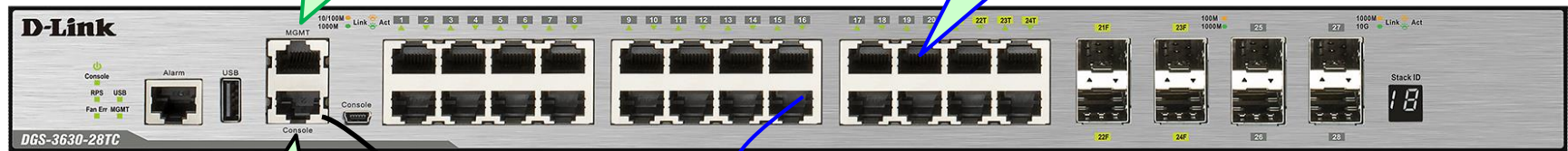
mgmt_ipif 0 is enabled, Link status is up
IP address is 192.168.0.1/24
Gateway is 0.0.0.0

Switch>
```

Switch Management Interfaces

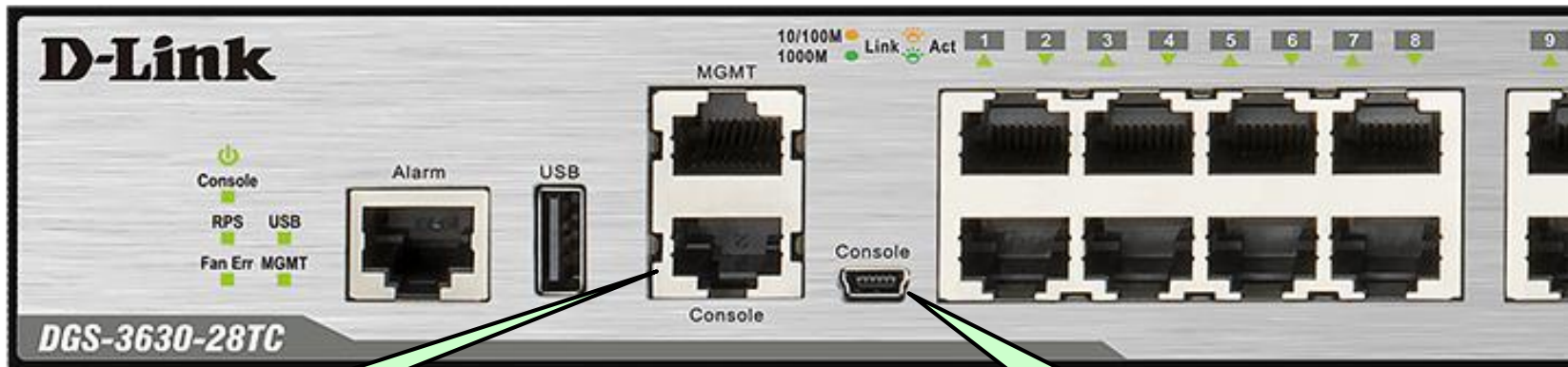
Out of Band Management Interface:
192.168.0.1/24
No username/password

Default IP address:
10.90.90.90/8
No username/password



Serial Interface settings:
Baud rate: 115200
Parity: none
Data bits: 8
Stop bits: 1
Flow Control: none

Switch Management Interfaces



Console with RJ45 port

RJ45 to RS232 Serial cable is included

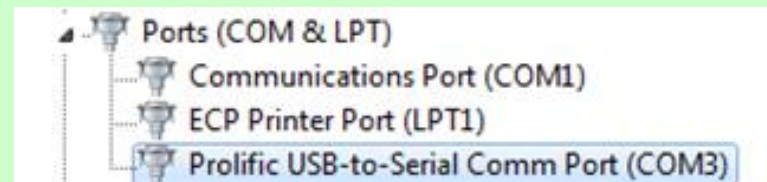
Console with mini-USB port

USB cable and drivers are included

Driver for USB console included on CD:

 PL2303_Prolific_DriverInstaller_v1.12.0.exe

Windows Device Manager:



DGS-3630-Series Switches

Adding Administrator Account

Adding Administrator Account (CLI)

```
Switch# enable  
Switch# configure terminal  
Switch(config)# username admin password yourpassword  
Switch(config)# username admin privilege 15  
Switch(config)# line console  
Switch(config-line)# login local
```

"username admin password yourpassword" – This command creates a user account with the username "admin" and password "yourpassword".

"username admin privilege 15" – assigns highest privilege level.

"line console" – allows you to enter the "Line Configuration Mode".

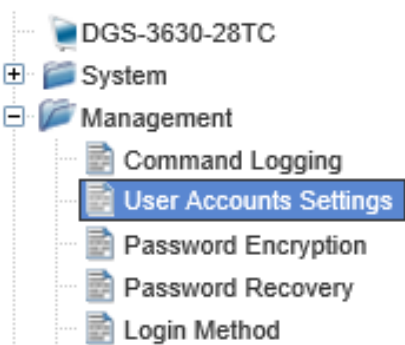
"login local" – tells the Switch that users need to enter locally configured login credentials.

Adding Administrator Account (GUI)

Switch default IP address is 10.90.90.90. No username/password (leave blank).

Go to Management > User Account Settings.

Add a new user (admin) with Plain Text password and Privilege 15.



User Accounts Settings

User Management Settings **Session Table**

User Name: Privilege (1-15):

Password Type: Password:

Total Entries: 1

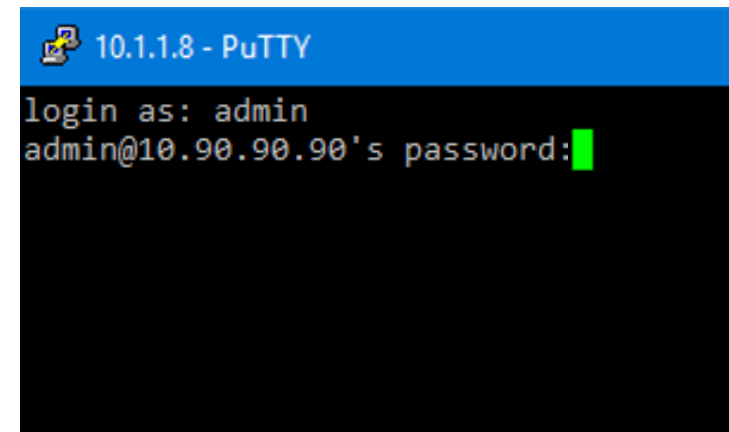
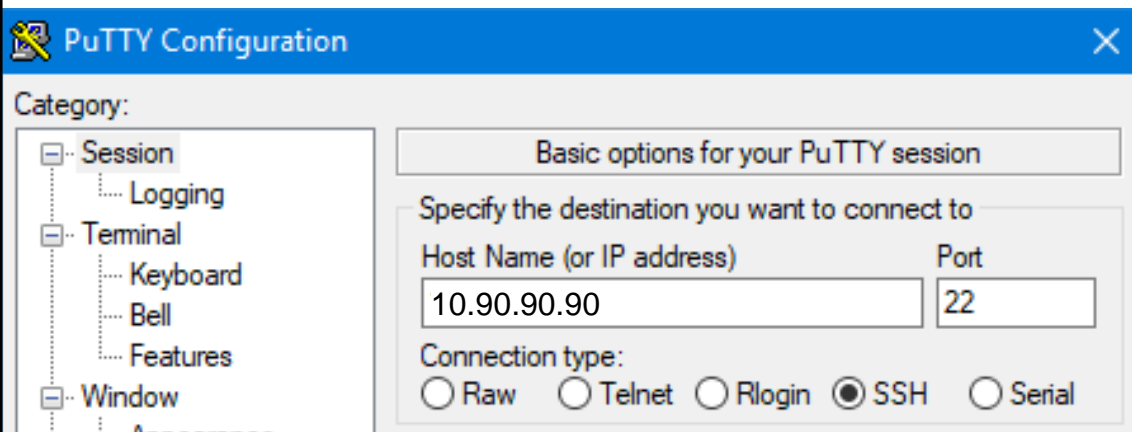
User Name	Privilege	Password	
admin	15	*****	<input type="button" value="Delete"/>

DGS-3630-Series Switches

Enabling Telnet (SSH)

Enabling Telnet (SSH) (CLI)

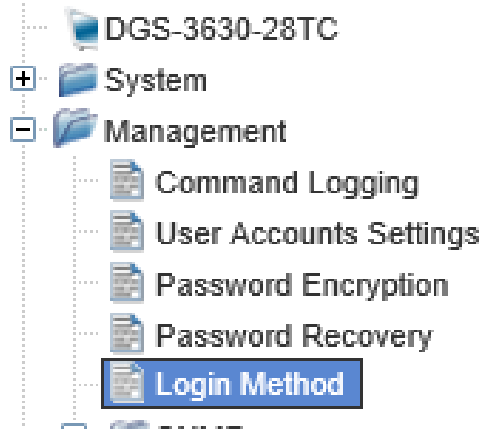
```
Switch# enable
Switch# crypto key generate dsa
Switch# crypto key generate rsa modulus 1024
Switch# configure terminal
Switch(config)# line ssh
Switch(config-line)# password ssh
Switch(config-line)# login local
Switch(config-line)# exit
Switch(config)# ip ssh server
Switch(config)# end
```



Enabling Telnet (SSH) (GUI)

Management > Login Method. Set SSH as "Login Local".

Security > SSH > SSH Global Settings



The 'Login Method' configuration page. It has a title bar 'Login Method'. Below it is a section 'Enable Password' with a 'Level' dropdown set to '15', a 'Password Type' dropdown set to 'Plain Text', and a 'Password' text box containing '32 chars'. An 'Apply' button is to the right. Below this is a 'Login Method' section containing a table with three rows: 'Console' (No Login), 'Telnet' (Login), and 'SSH' (Login Local). The 'SSH' row is highlighted with a red rectangle. Each row has an 'Edit' button to its right.

Application	Login Method	
Console	No Login	Edit
Telnet	Login	Edit
SSH	Login Local	Edit

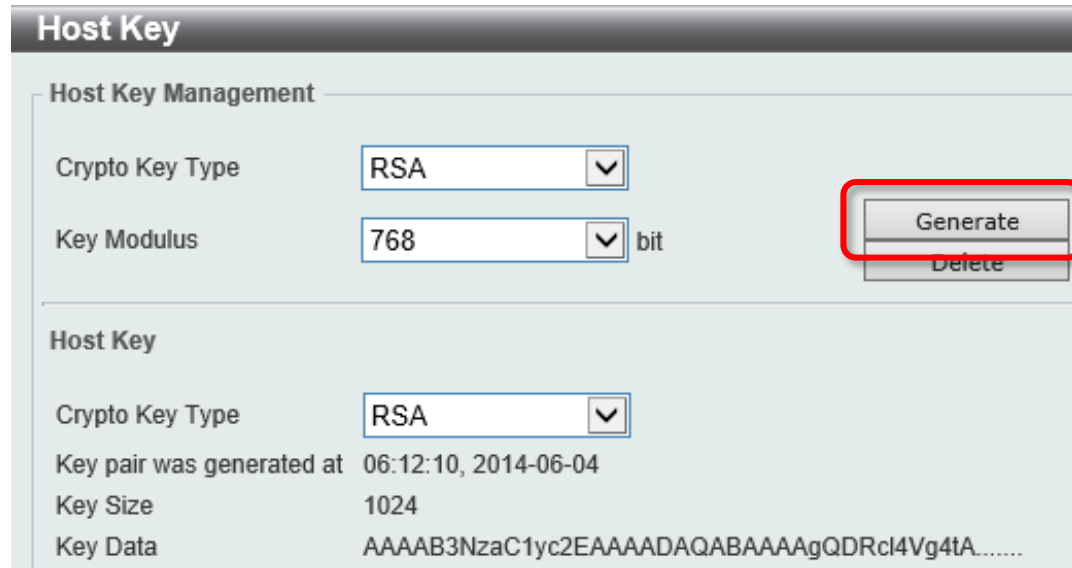
Security > SSH > SSH Global Settings. Enable SSH Server.



The 'SSH Global Settings' configuration page. It has a title bar 'SSH Global Settings'. Below it is a section 'SSH Global Settings' with several settings: 'IP SSH Server State' (Enabled), 'IP SSH Service Port (1-65535)' (22), 'SSH Server Mode' (V2), 'Authentication Timeout (30-600)' (120 sec), and 'Authentication Retries (1-32)' (3 times).

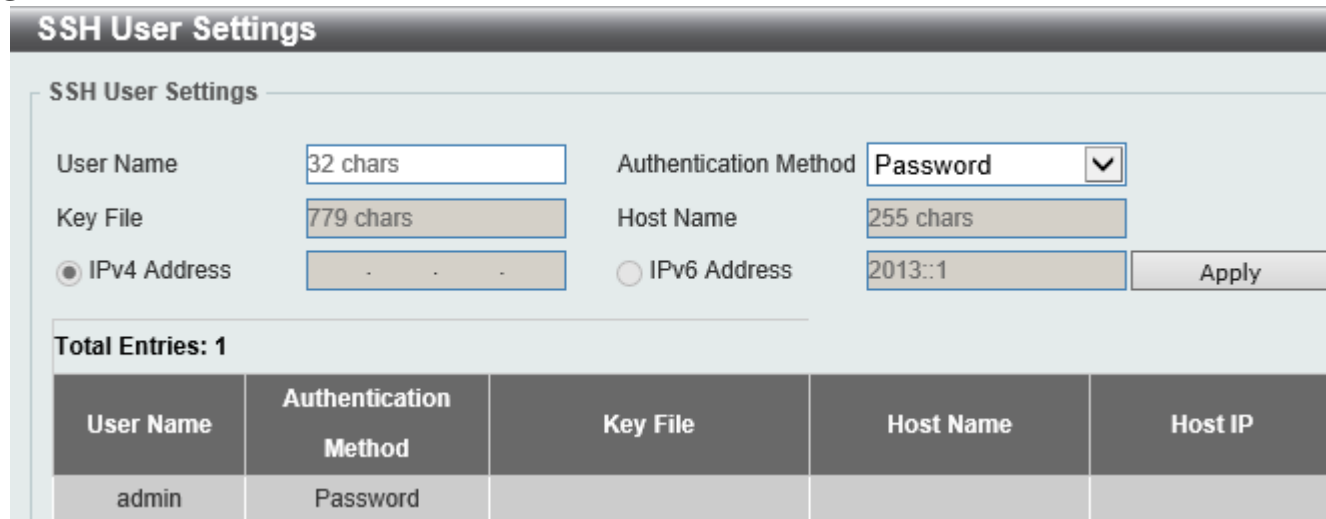
Enabling Telnet (SSH) (GUI)

Generate Host Key.



The 'Host Key' configuration page. It has two sections: 'Host Key Management' and 'Host Key'. In the 'Host Key Management' section, 'Crypto Key Type' is set to 'RSA' and 'Key Modulus' is set to '768 bit'. A red box highlights the 'Generate' button. The 'Host Key' section shows 'Crypto Key Type' as 'RSA', 'Key pair was generated at' as '06:12:10, 2014-06-04', 'Key Size' as '1024', and 'Key Data' as 'AAAAB3NzaC1yc2EAAAADAQABAAQgQDRcl4Vg4tA.....'.

Verify SSH user:



The 'SSH User Settings' configuration page. It shows fields for 'User Name' (32 chars), 'Key File' (779 chars), 'Authentication Method' (Password), 'Host Name' (255 chars), and 'Host IP' (IPv4 Address or IPv6 Address). An 'Apply' button is present. Below the settings is a table with 'Total Entries: 1'.

User Name	Authentication Method	Key File	Host Name	Host IP
admin	Password			

DGS-3630-Series Switches

Changing Switch IP Address

Changing Switch IP Address

Default LAN IP address 10.90.90.90



To access the switch GUI set your computer's network adapter to the same IP subnet as the switch.

Changing Switch IP Address

In this example we are assigning IP address:
10.1.1.1/24

```
Switch> enable
Switch# configure terminal
Switch(config)# interface vlan1
Switch(config-if)# ip address 10.1.1.n 255.255.255.0

Switch(config-if)# exit
```

```
Switch(config)# ip route 0.0.0.0 0.0.0.0 10.1.1.254
```

In this example the Default Gateway address
is: 10.1.1.254

```
Switch# show ip interface
```

```
Interface vlan1 is enabled, Link status is up
  IP Address is 10.1.1.1/24 (Manual)
```

...

```
mgmt_ipif 0 is enabled, Link status is down
  IP Address is 192.168.0.1/24
  Gateway is 0.0.0.0
```

Changing Switch IP Address

L3 Features > Interface > IPv4 Interface. Click on Edit.

The screenshot shows the configuration page for the IPv4 Interface on a DGS-3630-28TC switch. The left sidebar shows the navigation tree with 'Interface > IPv4 Interface' selected. The main content area shows the configuration for 'vlan1' with the following details:

Interface	State	IP Address	Secondary	Link Status	Actions
vlan1	Enabled	10.90.90.90/255.0.0.0 Manual	No	Up	Edit Delete

The 'Edit' button is highlighted with a red box. Below the table, there are pagination controls showing '1/1' entries and a 'Go' button.

Changing Switch IP Address

- Change to desired IP.
- Click on Apply. Re-login to the switch using the new IP address.

IPv4 Interface Settings

Interface: vlan1

Settings

State: Enabled

IP MTU (512-16383): 1500 bytes

IP Directed Broadcast: Disabled

Description: 64 chars

IP Settings

Get IP From: Static

IP Address: 10 - 1 - 1 - 1

Mask: 255 - 255 - 255 - 0

Secondary:

Buttons: Back, Apply, Delete

In this example we are assigning IP address: 10.1.1.1/24

After you click on Apply, the switch address will immediately change. Modify your computer IP address to match the switch IP subnet. Re-login to the switch using the new IP address.

DGS-3630-Series Switches

Saving Configuration

Saving Configuration (CLI)

To save configuration so it is not lost after a reboot:

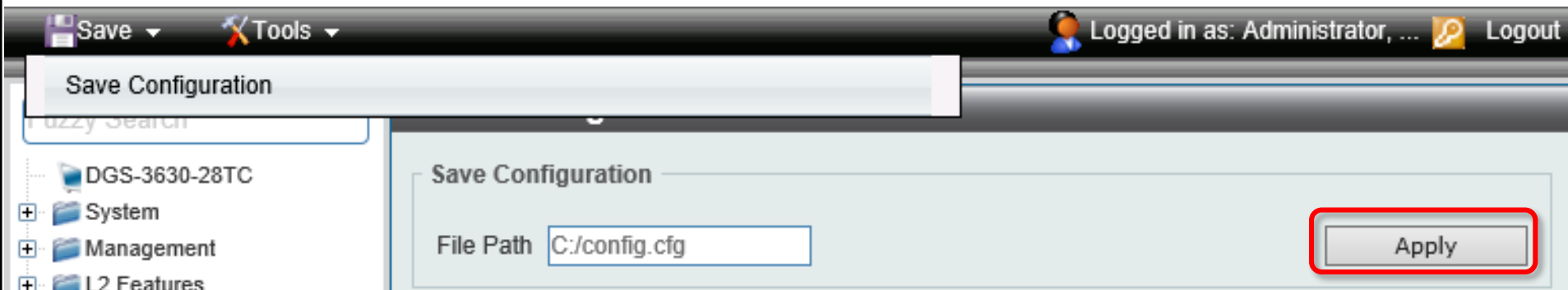
```
Switch#copy running-config startup-config
```

```
Destination filename startup-config? [y/n]: y
```

```
Saving all configurations to NV-RAM..... Done.
```

Saving Configuration (GUI)

In the toolbar select Save > Save Configuration. Click on Apply.



DGS-3630-Series Switches

Resetting the Switch

Resetting Configuration (CLI)

```
Switch> enable
```

```
Switch# reset system
```

```
This command will clear the system's configuration to the factory  
default settings, including the IP address and stacking settings.  
Clear system configuration, save, reboot? (y/n)[n]
```

Resetting Configuration (GUI)

Log into the switch – click on “Tools” and select “Reset”.

The image shows a screenshot of the D-Link switch GUI. On the left, the 'Tools' menu is open, and the 'Reset' option is highlighted with a red rectangle. The 'Reset' option is located below 'Trace Route' and above 'Reboot System'. The main content area on the right is titled 'Reset' and contains three radio button options:

- The Switch will reset to its factory default settings and then reboot.
- The Switch will reset to its factory default settings and then reboot. This option excludes the IP address.
- The Switch will reset to its factory default settings and not reboot. This option excludes the stacking information.