

Hillstone Networks

# StoneOS Getting Started Guide

Version 5.5R7



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**About this Guide:**

This guide describes how to get started with Hillstone Networks StoneOS products.

For more information, refer to the documentation site: <https://docs.hillstonenet.com>.

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# Contents

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Contents .....	1
Getting Started Guide .....	1
Initial Visit to Web Interface .....	2
Preparing the StoneOS System .....	4
Installing Licenses .....	4
Creating a System Administrator .....	4
Adding Trust Hosts .....	5
Upgrading StoneOS Firmware .....	5
Updating Signature Database .....	6
Connecting to Internet Under Routing Mode .....	7
Restoring Factory Settings .....	12
Restoring using a pin .....	12
Restoring via WebUI .....	12

# Getting Started Guide

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This guide helps you go through the initial configuration and the basic set-up of your Hillstone device. The intended reader is your company's network administrator.

This guide is used when you have finished mounting your device. After following the steps in this guide, your private network will be able to access the Internet. To set up security functions, you will need to read the User Guide (WebUI User Guide or CLI User Guide).

You may configure your firewall in the following sequence:

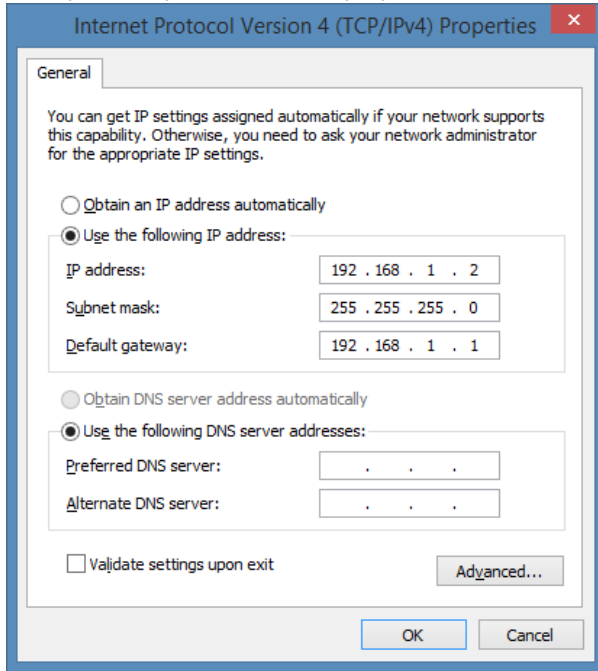
1. "Initial Visit to Web Interface" on Page 2
2. "Preparing the StoneOS System" on Page 4, including:
  - "Installing Licenses" on Page 4
  - "Creating a System Administrator" on Page 4
  - "Adding Trust Hosts" on Page 5
  - "Upgrading StoneOS Firmware" on Page 5
  - "Updating Signature Database" on Page 6
3. "Connecting to Internet Under Routing Mode" on Page 7
4. "Restoring Factory Settings" on Page 12

# Initial Visit to Web Interface

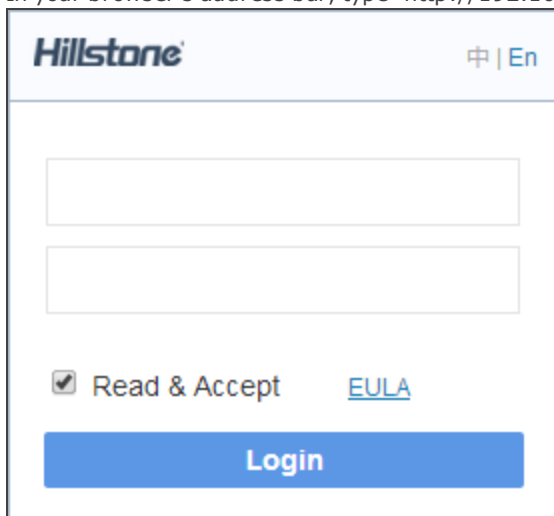
Interface eth0/0 is configured with IP address 192.168.1.1/24 by default and it is open to SSH、PING、SNMP、HTTP connection types(except for some custom versions). For the initial visit, use this interface.

To visit the web interface for the first time, take the following steps:

1. Go to your computer's Ethernet properties and set the IPv4 protocol as below.



2. Connect an RJ-45 Ethernet cable from your computer to the eth0/0 of the device.
3. In your browser's address bar, type "http://192.168.1.1" and press **Enter**.



4. In the login interface, type the default username and password: hillstone/hillstone.
5. At the first sign of address, the user needs to read and accept the EULA ( end-user license agreements ), click

**EULA** to view the details of EULA.

6. Click **Login**, and the device's system will initiate.

# Preparing the StoneOS System

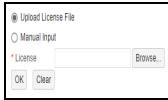
## Installing Licenses

Licenses control features and performance.

Before installing any license, you must purchase a license code.

To install a license, take the following steps:

1. Go to **System > License**.
2. **Choose one of the three ways to import a license:**



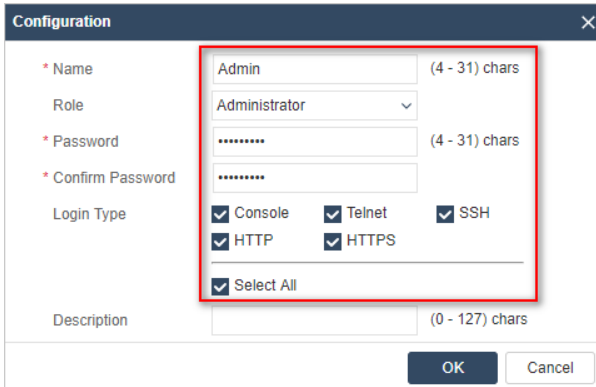
- **Upload License File:** Select the radio button, click **Browse**, and select the license file (a .txt file).
  - **Manual Input:** Select the radio button, and paste the license code into the text box.
3. Click **OK**.
  4. To make the license take effect, reboot the system. Go to **System > Device Management > Options**, and click **Reboot**.

## Creating a System Administrator

System administrator has the authority to read, write and execute all the features in system.

To create a system administrator, take the following steps:

1. Go to **System > Device Management > Administrator**.
2. Click **New**.



In the Admin Configuration dialog box, enter values

Option	Value
Name	Admin
Role	Administrator
Password	123456
Confirm Password	123456

Option	Value
Login Type	Select <b>Telnet</b> , <b>SSH</b> , <b>HTTP</b> and <b>HTTPS</b> .

3. Click **OK**.



**Note:** The system has a default administrator "hillstone" , which cannot be deleted or renamed.

## Adding Trust Hosts

The trust host is administrator's host. Only computers included in the trust hosts can manage system.

To add a trust host, take the following steps:

1. Go to **System > Device Management**.
2. Select **Trust Host** tab, and click **New**.

**In the Trust Host Configuration dialog box, enter value**

Option	Value
Type	Select <b>IP/Netmask</b>
IP	192.168.1.2/24
Login Type	Select all: <b>Telnet</b> , <b>SSH</b> , <b>HTTP</b> and <b>HTTPS</b>

3. Click **OK**.

## Upgrading StoneOS Firmware



**Note:** Back up your configuration files before upgrading your system.

To upgrade your system firmware, take the following steps:

1. Go to **System > Upgrade Management**.
2. Select **Browse** and choose the new image from your local computer.
3. Click **Reboot to make new firmware take effect**, then click **Apply**.
4. System will automatically reboot when it finishes installing the new firmware.

## Updating Signature Database

Features that require constant updates of signature are license controlled. You must purchase the license in order to be able to update the signature libraries. By default, the system will automatically update the databases daily.

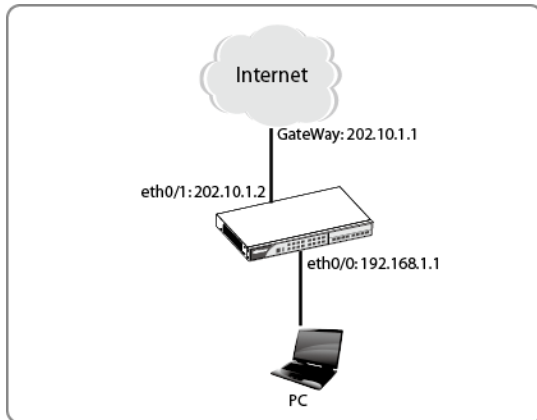
To update a database, take the following steps:

1. Go to **System > Upgrade Management**, and click the <Signature Database Update> tab.
2. **Find your intended database, and choose one of the following two ways to upgrade.**
  - **Remote Update:** Click **Update** , and system will automatically update the database.
  - **Local Update:** Select **Browse** to open the file explorer, and select your local signature file to import it into system.

## Connecting to Internet Under Routing Mode

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In routing mode, the device is working as a gateway and router between two networks. This section shows how to connect and configure a new Hillstone device in routing mode to securely connect the private network to the Internet.



To get your private network access to Internet through a Hillstone device, take the following steps:

### Step 1: Connecting to the device

1. Connect one port (e.g. eth0/1) of Hillstone device to your ISP network. In this way, "eth0/1" is in the untrust zone.
2. Connect your internal network to another Ethernet interfaces (e.g. eth0/0) of the device. This means "eth0/0" is connected to the trust zone.
3. Power on the Hillstone device and your PCs.
4. If one of the internal interfaces already has been configured with an IP address, use a browser to visit that address from one of your internal PCs.  
If it is a new device, use the methods in "[Initial Visit to Web Interface](#)" on Page 2 to visit.
5. Enter "hillstone" for both the username and the password.

### Step 2: Configuring interfaces

1. Go to **Network > Interface**.

2. Double click **eth0/1**.

**Ethernet Interface**

Basic Configuration | IPv6 Configuration | Properties | Advanced | RIP | OSPF

**Basic Configuration**

Interface Name: ethernet0/0

Description: (0 - 63) chars

Binding Zone:  Layer 2 Zone  Layer 3 Zone  TAP  No Binding

\* Zone: untrust

HA sync:  Enable

NetFlow: -----

Configuration: -----

**IP Configuration**

Type:  Static IP  DHCP  PPPoE

IP Address: 10.180.123.104

Netmask: 255.255.0.0

Set as Local IP

Advanced | DHCP... | DDNS

**Management**

Telnet  SSH  Ping  HTTP  HTTPS  SNMP

**Routing**

Reverse Route:  Enable  Close  Auto

**Bandwidth**

OK Cancel

In the Ethernet Interface dialog box, enter values

Option	Value
Binding Zone	L3-zone
Zone	untrust
Type	Static IP
IP Address	202.10.1.2 (public IP address provided by your ISP)
Netmask	255.255.255.0
Management	Select protocols that you want to use to access the device.

3. Click **OK**.

### Step 3: Creating a NAT rule to translate internal IP to public IP

1. Go to **Policy > NAT > SNAT**.
2. Select **New**

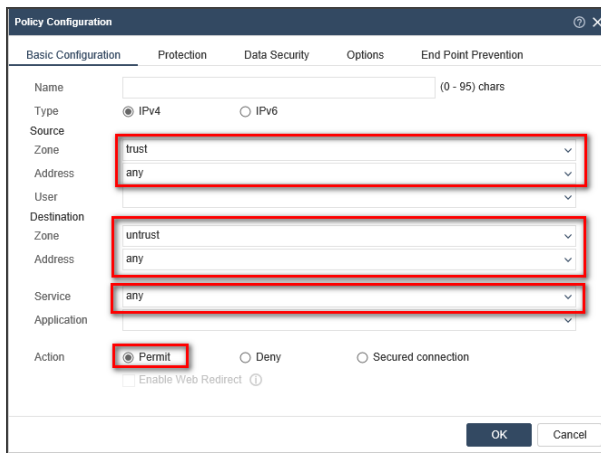
In the SNAT Configuration dialog box, enter values

Option	Value
Source Address	Address Entry, Any
Destination Address	Address Entry, Any
Egress	Egress interface, ethernet 0/1
Translated	Egress IP
Sticky	Enable

3. Click **OK**.

#### **Step 4: Creating a security policy to allow internal users access Internet.**

1. Go to **Policy > Security Policy**.
2. Click **New**.



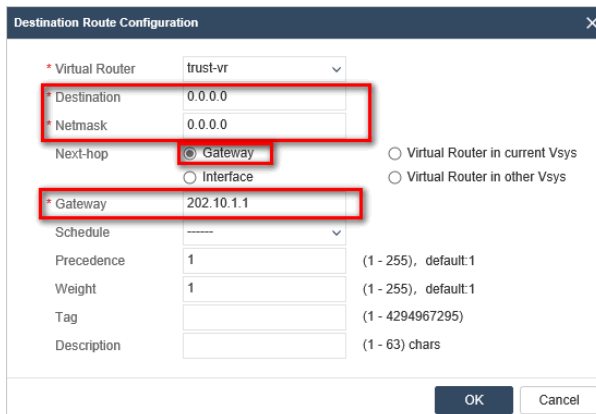
In the Policy Configuration dialog box, enter values.

Source Information	
Zone	trust
Address	Any
Destination Information	
Zone	untrust
Address	Any
Other Information	
Service/Service Group	Any
APP/APP Group	-----
Action	Permit

3. Click OK.

### Step 5: Configuring a default route

1. Go to **Network > Routing > Destination Route**.
2. Click **New**.



In the Destination Route Configuration dialog box, enter values.

Option	Value
Destination	0.0.0.0 (means all network)
Subnet Mask	0.0.0.0 (means all subnets)
Gateway	202.10.1.1 (gateway provided by your ISP)

3. Click **OK**.

# Restoring Factory Settings



**Note:** Resetting your device will erase all configurations, including the settings that have been saved. Please be cautious!

To restore factory's default settings, you may use one of the following two ways:

- "Restoring using a pin" on Page 12
- "Restoring via WebUI" on Page 12

## Restoring using a pin

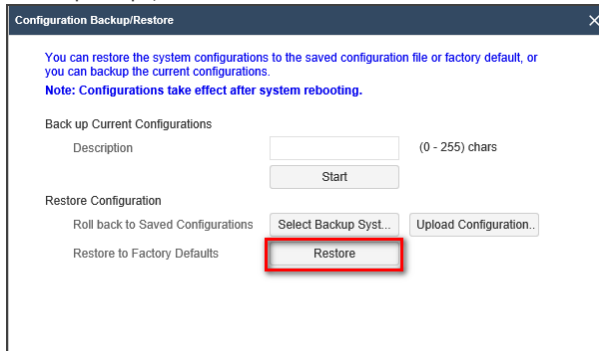
To restore factory default settings using a Web interface, take the following steps:

1. Power off the device.
2. Use a pin to press the CLR pinhole on the front panel; keep pressing and power on the devcie.
3. Keep pressing until the STA and ALM indicators on the front panel turn a constant red; release the pin. System will start to reset itself.
4. When restoring is complete, system will reboot automatically.

## Restoring via WebUI

To restore factory default settings using a Web interface, take the following steps:

1. Go to **System > Configuration File Management**.
2. Click **Backup Restore**.
3. In the prompt, click **Restore**.



4. Click **OK** to confirm.
5. The device will automatically reboot and be back to factory settings.