

Hillstone Networks, Inc.

StoneOS Getting Started Guide

Version 5.5R1



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About this Guide:

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

For more information, refer to the documentation site: <http://www.hillstonenet.com/resources/>.

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TWNO: TW-GSG-UNI-5.5R1-EN-V1.0-4/15/2015

Release Date: Wednesday, April 15, 2015

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Getting Started Guide

This guide helps you to go through initial configuration and basic set-up of Hillstone devices. 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 Internet. For 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:

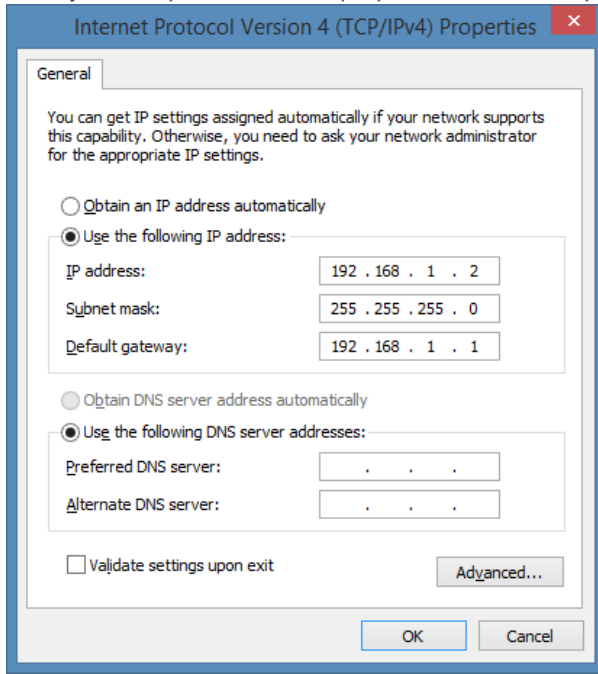
1. "Initial Visit to Web Interface" on Page 2
2. "Preparing the StoneOS System" on Page 3, including:
 - » "Installing Licenses" on Page 3
 - » "Creating a System Administrator" on Page 3
 - » "Adding Trust Hosts" on Page 4
 - » "Upgrading StoneOS Firmware" on Page 4
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3. "Connecting to Internet Under Routing Mode" on Page 6
4. "Restoring to Factory Settings" on Page 9

Initial Visit to Web Interface

Interface eth0/0 is configured with IP address 192.168.1.1/24 by default, it is open to all connection types. For the initial visit, use this interface.

To visit the web interface for the first time:

1. Go to your computer's Ethernet properties, 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. Click **Login**, and the device's system will initiate.

Preparing the StoneOS System

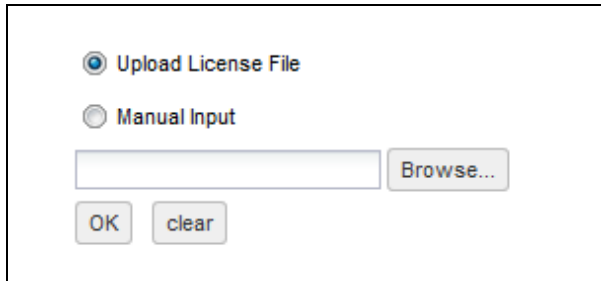
Installing Licenses

Licenses control features and performance.

Before installing any license, you must have obtained the license code from sales person.

To install a license:

1. Go to **System > License**.
2. Choose one of the two 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.

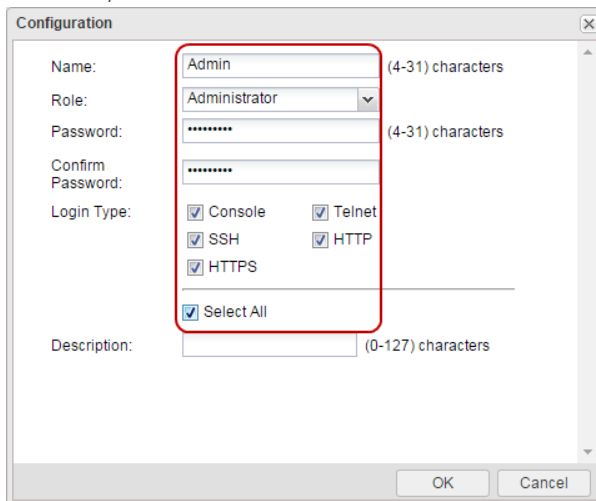
3. Click **OK**.
4. To make the license take effect, reboot the system. Go to **System > Device Management > Options**, click **Reboot**.

Creating a System Administrator

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

To create a system administrator:

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
Login Type	Select Telnet , SSH , HTTP and HTTPS .

3. Click **OK**.



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

Adding Trust Hosts

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

To add a trust host:

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 IP/Netmask
IP	192.168.1.2/24
Login Type	Select all: Telnet, SSH, HTTP and HTTPS

3. Click **OK**.

Upgrading StoneOS Firmware



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

To upgrade your system firmware:

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**, and then click **Apply**.
4. The system will automatically reboot when it finishes installing new firmware.

Updating Signature Database

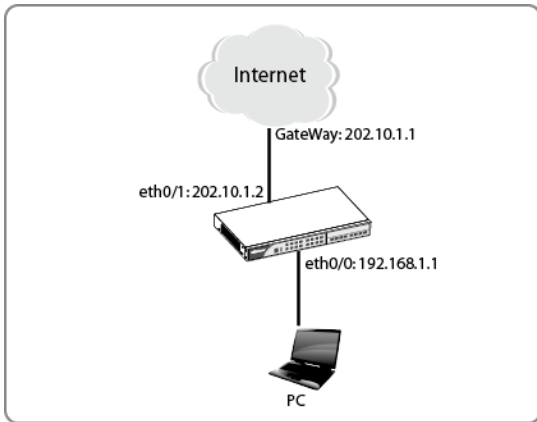
Features that require constant signature updates are license controlled. You must purchase license in order to be able to update signature libraries. By default, the system will automatically update databases on a daily basis.

To update a database:

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**, the system will automatically update the database.
 - » **Local Update:** Select **Browse** to open file explorer, and select your local signature file to import it into the system.

Connecting to Internet Under Routing Mode

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 route mode to securely connect the private network to Internet.



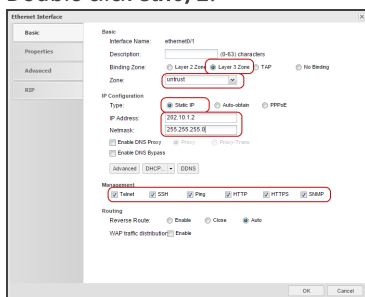
To get your private network access to Internet through a Hillstone device:

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 username and password.

Step 2: Configuring interfaces

1. Go to **Network > Interface**.
2. Double click **eth0/1**.



In the Ethernet Interface dialog box, enter values

Option	Value
Binding Zone	L3-zone
Zone	untrust

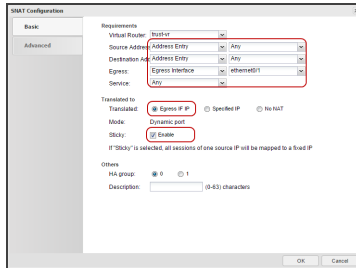
Option	Value
Type	Static IP
IP Address	202.10.1.2 (public IP address provided by your ISP)
Netmask	255.255.255.0
Management	Select protocols that you want to use to access the device.

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

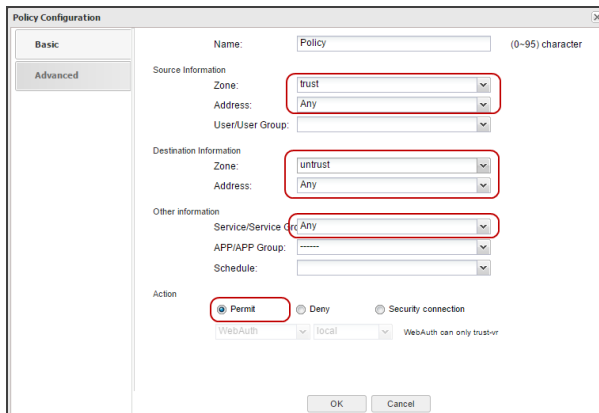
Option	Value
Source Address	Address Entry, Any
Destination Address	Address Entry, Any
Egress	Egress interface, ethernet 0/1
Translated	Egress IP
Sticky	Enable

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**.

The screenshot shows the 'Destination Route Configuration' dialog box with the following values entered:

- Virtual Router: trust-vr
- Destination: 0.0.0.0
- Subnet Mask: 0.0.0.0
- Next Hop: Gateway (selected)
- Gateway: 202.10.1.1
- Precedence: 1
- Weight: 1
- Description: (empty)

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 to Factory Settings



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

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

- » "Restoring using a pin" on Page 9
- » "Restoring via WebUI" on Page 9

Restoring using a pin

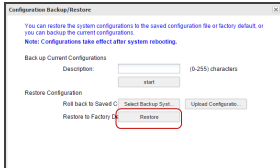
To restore to factory default:

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

Restoring via WebUI

To restore to factory settings using Web interface:

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.