

CacheGuard Quick Start

Thank you for choosing CacheGuard as your Web gateway. This guide helps you to quickly get started with your CacheGuard appliance.

1- Connections

The console: the first step is to connect via the console ports and configure the network. Console ports can be the following:

- HDMI port connected to a screen + USB port connected to a USB keyboard
- COM (Serial) port configured at 115200 baud 8 data bits, no parity and one stop bit (8N1) and connected to a VT100 emulator with a null modem serial cable



The network: CacheGuard uses two network interfaces, the internal and external. By default the internal interface is associated to the Eth0 (Ethernet 0) port and the external interface is associated to the Eth1 (Ethernet 1) port. Connect the Eth0 port to your internal network (LAN switch) and the Eth1 port to your Internet router using Ethernet Cat 6 cables and RJ45 plugs.

Please note that in order to make the right connections, it is highly important to properly identify the Eth0 and Eth1 ports on your CacheGuard appliance. Eth0 can be on the right as well as on the left and the same applies to the Eth1.



Locking Edges at the Bottom



Locking Edges at the Top

The images above show the 2 possibilities. As you can see, you can identify ports according to the locking edge position of the Ethernet sockets. When locking edges are at the bottom, Eth1 is on the left and Eth0 is on the right. When locking edges are at the top, Eth0 is on the left and Eth1 is on the right.

Please note that a CacheGuard appliance is a mini computer powered by CacheGuard-OS so on some models you may find other ports such as an audio port. CacheGuard-OS does not use those ports.

The schema below shows a typical CacheGuard appliance implementation in a classic network.



2- Power On & Configure



The first time you turn your on CacheGuard, you will be prompted to configure your keyboard. Afterwards the boot process continues until the login prompt. Login as *admin* user (the default password is *admin*) and follow startup instructions. Startup instructions guide you to configure the network. After having configured the network, you will be able to configure your CacheGuard using its Web interface via a Web browser. By default, the Web interface can be reached at <https://<cacheguard-ip>:8090> where *<cacheguard-ip>* is the internal or the external IP address of your CacheGuard. Please note that the Web interface uses a self-signed certificate and it's normal to get a warning message the first time you connect.

Although the Web interface is very useful, CacheGuard embeds a powerful CLI (Command Line Interface) that allows you to do all settings using commands only. To get help from the CLI, use the **help** command. When typing commands, a completion facility allows you to complete commands or obtain a list of available arguments. To use the completion just type the <TAB> key.

CacheGuard comes with online and offline technical documentation and active help via a technical forum where you can post your questions and get responses during business hours CET. Please read the *User's Guide* and the *Command Line Manual* before posting any questions on the technical forum.

3- Product Registration

Appliance Registration

Serial Number: CG-L0_180503T-0868999 (temporary)

Mode: First Registration

Contact Email: manager@example.com

OTP [Get a One Time Password]:

I agree terms of the License:

SUBMIT RESET

To benefit from services that may come with your CacheGuard appliance, please register it using the Web interface. To do so, make sure that your CacheGuard is connected to the Internet and proceed as follows:

- Go to the menu item **[GENERAL] > [Main Settings] > [Registration & Subscription]** (or click on the blinking “Register & Subscribe” icon at the top of the Web interface).
- Ask for an OTP (One Time Password) by following the [Get a One Time Password](#) link (in front of the **OTP** field).
- Return to the **[Registration & Subscription]** page of the Web interface, enter a valid email address and your OTP. You can use the copy/paste to enter your OTP.
- Tick the "I agree to terms of the License" checkbox and press the SUBMIT button.
- Go to the menu item **[GENERAL] > [Whole Configuration] > [Apply New Configuration]** and pressing the SUBMIT button to apply the registration.

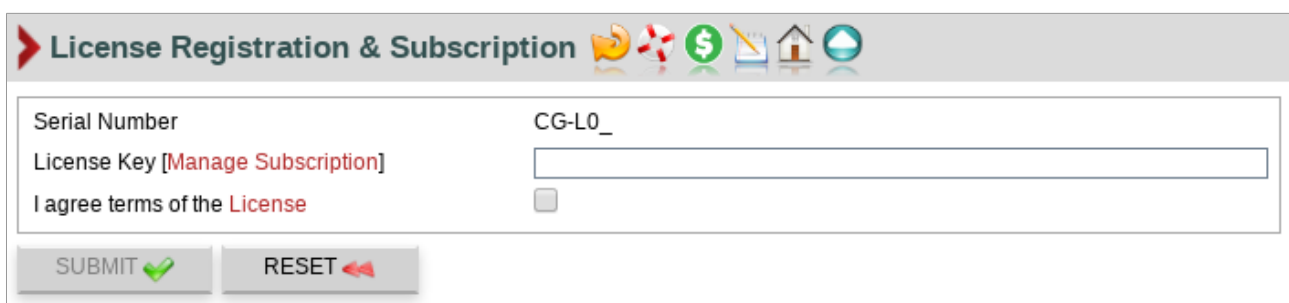
Following the apply operation, you will receive your registration confirmation by email.

4- Services Activation

If your CacheGuard comes with an activation code, you will need to submit it in order to activate associated services. Those services may be a yearly subscription to our UBL (URL Blacklists) and EAV (Extended AntiVirus) services. Activation codes are provided either electronically (by email) or on paper (card or sticker) with your CacheGuard appliance.

To submit your activation code you should register your CacheGuard first (see previous section) and then proceed as follows:

- Go to the menu item [**GENERAL**] > [**Main Settings**] > [**Registration & Subscription**] or click on the “Register & Subscribe” icon at the top of the Web interface.
- Follow the [Manage Subscription](#) link (in front of the **License Key** field) and then click on the **Activate** button. Give all required information and validate.
- Further instructions will be sent by email to complete your services activation.



The screenshot shows a web interface titled "License Registration & Subscription". It features a header with a red arrow icon and several navigation icons. Below the header, there is a form with the following fields and elements:

- Serial Number:** A text input field containing "CG-L0_".
- License Key [Manage Subscription]:** A text input field that is currently empty.
- I agree terms of the License:** A checkbox that is currently unchecked.
- Buttons:** Two buttons are located at the bottom of the form: "SUBMIT" with a green checkmark icon, and "RESET" with a red left-pointing arrow icon.

NB: a License Key is only required if you run CacheGuard-OS for more than a certain number of users (see Licensing & Limitations below).

5- Connect to Internet via CacheGuard

CacheGuard can transparently intercept Web traffic coming from the Internet and destined to Web users and/or Web servers located on your LAN. You have also the possibility to configure your Web browsers to explicitly use CacheGuard as a Web proxy for HTTP, HTTPS and FTP traffic. CacheGuard acts as a firewall, a proxy cache, an antivirus at the gateway for Web traffic, a URL filter, a reverse proxy, a Web application load balancer, a WAF (Web Application Firewall), an SSL mediator/inspector, an SSL terminator, a traffic logger, a bandwidth manager and much more. You can find more information about CacheGuard features at <https://www.cacheguard.com>.

7- Licensing & Limitations

CacheGuard runs under CacheGuard-OS, an open source OS (Operation System) free of charge for a limited number of users. A CacheGuard appliance is tuned during the CacheGuard-OS installation to support a limited number of users. Any usage of a CacheGuard beyond its installed capacity can be considered as a DoS (Denial of Service) attack and all underlying traffic can be dropped or delayed. To support more users you have the possibility to re-install CacheGuard-OS on your machine and select the required users capacity during the installation. Prior to any CacheGuard-OS re-installation, please verify that your hardware resources can support your required users capacity.

NOTICE: the use of CacheGuard-OS installed for more than a certain number of users may incur additional fees. You can find more information about CacheGuard pricing at <https://www.cacheguard.com>.

6- CacheGuard-OS installation

If for any reason you need to re-install CacheGuard-OS on your machine please proceed as follows:

- Download CacheGuard-OS ISO CDROM 64 bits image from <https://www.cacheguard.com>.
- Follow instructions given at <https://www.cacheguard.net/doc/guide/installation.html>.

To install CacheGuard-OS on your machine, you will need to configure its BIOS to boot on a USB memory stick or on a PXE server via the network. To enter the BIOS, press the button during the boot process. To configure an AMI BIOS core version 5.xx to boot on a USB memory stick or on a PXE server follow the instructions given below:

- To boot on a bootable CacheGuard-OS USB stick, insert it into a USB port and proceed as follows:
 - 1) Enter the BIOS, make sure that the Advanced > USB Mass Storage Driver Support is set to Enabled, save the new BIOS configuration and reboot (Save & Exit > Save Changes > Yes).
 - 2) Enter the BIOS again and set the Boot / Network Device BBS Priorities > Boot Option #1 and the Boot > Boot Option Priorities > Boot Option #1 to the CacheGuard-OS USB stick.
 - 3) Save and reboot again to boot on the CacheGuard-OS USB stick.
- To boot on a PXE server, connect the Eth0 port to your PXE server and proceed as follows:
 - 1) Enter the BIOS, make sure that the Advanced > CSM Configuration > Network is set to Legacy, save and reboot.
 - 2) Enter the BIOS again, set the Boot > Network Device BBS Priorities > Boot Option #1 to the Eth0, save and reboot again to boot on your PXE server.
- After having installed CacheGuard-OS, you will need to reconfigure the BIOS to boot on the SSD/HDD on which CacheGuard-OS is installed. To do so, enter the BIOS, set the Boot / Network Device BBS Priorities > Boot Option #1 to that SSD/HDD, save and reboot.
- If you installed CacheGuard-OS from a PXE server you can now set the Advanced > CSM Configuration > NetWork to Do not launch.

8- Useful links

- Technical Forum: <https://forum.cacheguard.net>
- Online Documentation:
 - User's Guide: <https://www.cacheguard.net/doc/guide/>
 - Command Line Manual: <https://www.cacheguard.net/doc/command/>
 - CacheGuard-OS License Agreement: <https://www.cacheguard.net/doc/command/license.html>
 - Appliance Quick Start: <https://www.cacheguard.net/pdf/CacheGuard-Quick-Start.pdf>
- Offline Documentation:
 - User's Guide: <https://www.cacheguard.net/pdf/CacheGuard-Users-Guide.pdf.zip>
 - Command Line Manual: <https://www.cacheguard.net/pdf/CacheGuard-CLI-Manual.pdf.zip>
- Terms of Sale: <https://www.cacheguard.net/pdf/CacheGuard-Terms-Of-Sale.pdf>
- Support Agreement: <https://www.cacheguard.net/pdf/CacheGuard-Support-Agreement.pdf>
- Warranty Claim: <https://www.cacheguard.net/cacheguard-warranty-claim.php>
- CacheGuard official website: <https://www.cacheguard.com>