

# QuickGuide

## TO INSTALLING

# GB-Ware

GB-Ware is a software firewall installed onto a hard drive or Compact Flash disk with an IDE adapter with compatible PC (x86) hardware.

To install GB-Ware using a computer not intended for the firewall by using a USB flash card reader/writer, or to migrate a configuration to GB-Ware from another GTA firewall, see the *GB-Ware Product Guide* on the GB-Ware installation CD.

See the *GNAT Box System Software User's Guide* on the installation CD for more information on configuring GNAT Box firewall software.

## Assembling the GB-Ware Hardware

You may use a compatible pre-assembled PC, or assemble custom PC hardware to run GB-Ware firewall software. Install either a hard drive or a Compact Flash disk with IDE adapter on the primary IDE interface controller of the firewall hardware.

### Hardware Requirements

- x86 architecture processor (Intel 486, Pentium, or Xeon; compatible AMD or Cyrix CPUs); Pentium-class or faster CPU recommended
- 128 MB RAM
- 512 MB ATA (IDE) hard disk drive, or a 512 MB GTA-certified Compact Flash card with IDE Compact Flash disk adapter
- ATAPI (IDE) CD-ROM drive (only required during installation and recovery)
- 2 network interface cards (also sometimes called LAN or Ethernet cards)
- video display card (only required for the video console version)
- monitor (only required for the video console version; not required during operation)
- keyboard (only required for the video console version; not required during operation if the BIOS supports booting without a keyboard)
- serial port
- USB or parallel (printer) port (depending on which version of the hardware key block you have)

## Setting the Boot Sequence for Software Installation

Power on the hardware and insert the installation CD. Reboot immediately and enter the BIOS. Change the boot sequence so that the hardware boots from the IDE CD-ROM drive containing the installation CD. Setting the boot sequence varies by hardware; the following instructions are a generic guide.

1. Boot into the BIOS (CMOS).
2. Set the boot sequence so that the installation CD-ROM drive boots before any other drives in the IDE controller ports. This will cause the hardware to boot from the GB-Ware installation CD.
3. Save the settings and exit the BIOS. Reboot. If the boot sequence was set correctly, the installer should load.

## Installing GB-Ware Software

After rebooting the firewall hardware with the GB-Ware installation CD, you will see the About GNAT Box System Software Runtime Installer screen. Accept the GNAT Box System Software Licensing Agreement to continue installation.

Select a software version (runtime) and the target disk for GB-Ware, then install the runtime. The default runtime is GB-Ware SIO (Serial Console interface), which requires a PC serial cable connection to access the serial console; alternatively, select the Video Console runtime version requires the connection of only a keyboard and monitor to the firewall, and uses the Setup Wizard to perform initial configuration of GB-Ware.

### **Caution**

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GTA strongly recommends disconnecting any drives not intended for GB-Ware installation except for the installation CD-ROM drive. Installing GB-Ware on the wrong device will erase all data on the disk and replace it with GB-Ware.

It may take several minutes for the GB-Ware software to install. A message indicating that the initialization of runtime slices 2 and 1 has succeeded will appear when the process is complete. Remove the installation CD. Reboot, re-set the BIOS to boot from the newly installed GB-Ware hard drive or Compact Flash disk, and reboot again.

## Attaching the Hardware Key Block

The hardware key block (USB or parallel) must be attached to the firewall hardware to make GB-Ware fully functional. USB hardware key blocks are plugged into a motherboard USB port. Alternatively, parallel port versions of the hardware key block must be attached to the parallel (printer) port; the

side to be attached to the port is labeled **COMPUTER**, with arrows pointing in the direction of the computer.

### **Note**

Without the key block, the software will operate in an unregistered mode in which the system is operational for 60 minutes.

## **Initial Configuration**

Depending on your selection of the SIO or Video runtimes, follow the appropriate configuration instructions.

To move a configuration from another GTA firewall, see the *GB-Ware Product Guide*.

### **Serial Console Configuration**

If you specified the serial console (SIO) runtime version during installation, the firewall will boot up in the default configuration, in which the protected network is set to the factory default IP address, 192.168.71.254.

Connect the GB-Ware firewall directly to your computer by using a crossover Ethernet cable. Temporarily configure your computer's network information to join the firewall's default network: static IP address of 192.168.71.253, subnet mask of 255.255.255.0, and a gateway/Internet router and DNS of 192.168.71.254. Access the firewall's web interface for configuration.

1. Start a frames-capable, SSL-compatible web browser on your computer and enter the firewall's URL: `https://192.168.71.254`. Accept the security alert dialog.
2. Enter the default user ID and password, `gnatbox` and `gnatbox` (all lower case), and press the **RETURN** key.
3. Enter the firewall's serial number and activation code in **Basic Configuration's Features**. The serial number can be found on your product insert, and the activation code can be retrieved from the GTA Online Support Center (<https://www.gta.com/support/center/login/>) after registering with the installation code. Save.
4. Go to **Basic Configuration's Network Information**. Change the firewall's network information to match your network address scheme. Save.

Disconnect your firewall and place it on the intended network location. Re-set your computer's network settings and re-attach it to the network. GB-Ware now allows outbound connections from all internal users but no unsolicited inbound connections are allowed. Use the web interface to connect to the firewall's new IP address if more advanced configuration options are desired.

## Video Console Configuration

If you specified the video runtime version, GB-Ware will start by probing hardware. If your hardware was configured correctly, and GB-Ware did not encounter any problems, the Setup Wizard will start automatically.

### Setup Wizard

There are a number of configuration options in the Setup Wizard: one network interface as PPP or PPPoE; one or both required network interfaces is DHCP on Ethernet; or both interfaces are static Ethernet connections, neither PPP or DHCP. Use options appropriate to your Internet and internal connection types.

1. View and acknowledge the GNAT Box Licensing Agreement.
2. Select **OK** to use the GNAT Box Wizard.
3. Enter the host name (domain name) of the firewall. Select **NEXT**.
4. Fill in the administrator contact information for your firewall.
5. Enter your firewall's serial number and activation code. The serial number can be found on your product insert, and the activation code can be retrieved from the GTA Online Support Center after registering GB-Ware with the installation code.
- 6a. Select **NO** if you will not be using PPP on the external (Internet) interface, and go to step 6b. To use PPP/PPPoE/PPTP, toggle the field value to **YES** and click **NEXT** to configure PPP, then go to step 8.
- 6b. If your system will not utilize DHCP on the external interface, select **NO**, and go to step 6c. If your system will use DHCP on the external interface, select **YES**, and go to step 7.
- 6c. Enter the IP address and subnet mask of the external interface.
7. Select an available NIC (network interface card) to serve as the external interface.
8. Mimic steps 6b, 6c, and 7 to select DHCP and NIC or assign an IP address, subnet and NIC for the protected interface.
9. If your external interface is not DHCP, enter a default route for the firewall.
10. Assign a password to your firewall. `gnatbox` is the default user ID. Select **SAVE** and reboot GB-Ware.

Disconnect your firewall and place it on the intended network location. Re-set your computer's network settings and re-attach it to the network. GB-Ware now allows outbound connections from all internal users but no unsolicited inbound connections are allowed. Use the web interface to connect to the firewall's new IP address if more advanced configuration options are desired.