

EBAN Quick Start

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1.0 Product Overview

1.1 Welcome

Thank you for choosing Enterprise Boot And Nuke (“EBAN”), the most powerful, flexible, and open data clearing solution for IT professionals.

EBAN is software that overwrites hard disk storage media to prevent the recovery of data. During the process, EBAN also performs basic hardware diagnostics and provides hardware manifest reporting for inventory systems.

1.2 Getting Help

Sending email to ebansupport@geepglobal.com is the fastest way to get assistance from EBAN Technical Support.

1.3 Definitions

EBAN Client

The software that does disk clearing.

Target Computer

The computer that runs the EBAN Client software with HDD's to be cleared.

EBAN Server

The software that delivers the EBAN Client and keeps the database of results.

Host Computer

The computer that runs the EBAN Server software.

Processing Segment

The ports on an Ethernet switch that share broadcast traffic with the EBAN Server.

2.0 System Requirements

2.1 Hardware Requirements

Target Computers

- 386-class processor, or better.
- 16 megabytes of memory, or more.
- Ethernet interface.
- Boot capable by network ("PXE") or CD-ROM.

AMD64 and EMT64 computers, in both 32-bit and 64-bit modes, are compatible.

Host Computer

- 586-class processor, or better. (Pentium, Athlon, etc.)
- 512 megabytes of memory. (1 gigabyte or more recommended.)
- 10 gigabytes of local storage.
- Ethernet interface.

Network

- Unmanaged Ethernet switch or hub (Cisco switches are not supported)

2.2 Software Requirements

Target Computers

- Any.

Host Computer

- Full local Administrator privileges.

- Microsoft Windows 2000, Windows XP, Windows 2003, Windows Vista, or Windows 7 (EBAN does not run consistently with Windows Server operating systems)

Using the “Run As” utility or doing other kinds of privilege escalation is inadequate for EBAN installation. You must be a member of the local Administrators group or a member of the Domain Admin group to install the software.

3.0 Software Installation

3.1 VMware Player Installation

The EBAN Server runs in a VMware Player window.

1. Log On to the Host Computer as a local Administrator.
2. Disable any anti-virus or firewall software that prevent changes to the network configuration. (This must be done to assure proper operation of the EBAN Server in the VMware Player.)
3. If the Host Computer is a domain member, then disable all group policy objects that prevent changes to the network configuration.
4. Double-click the VMware Player Installer previously downloaded.



VMware-playe
r-2.0.0-45731

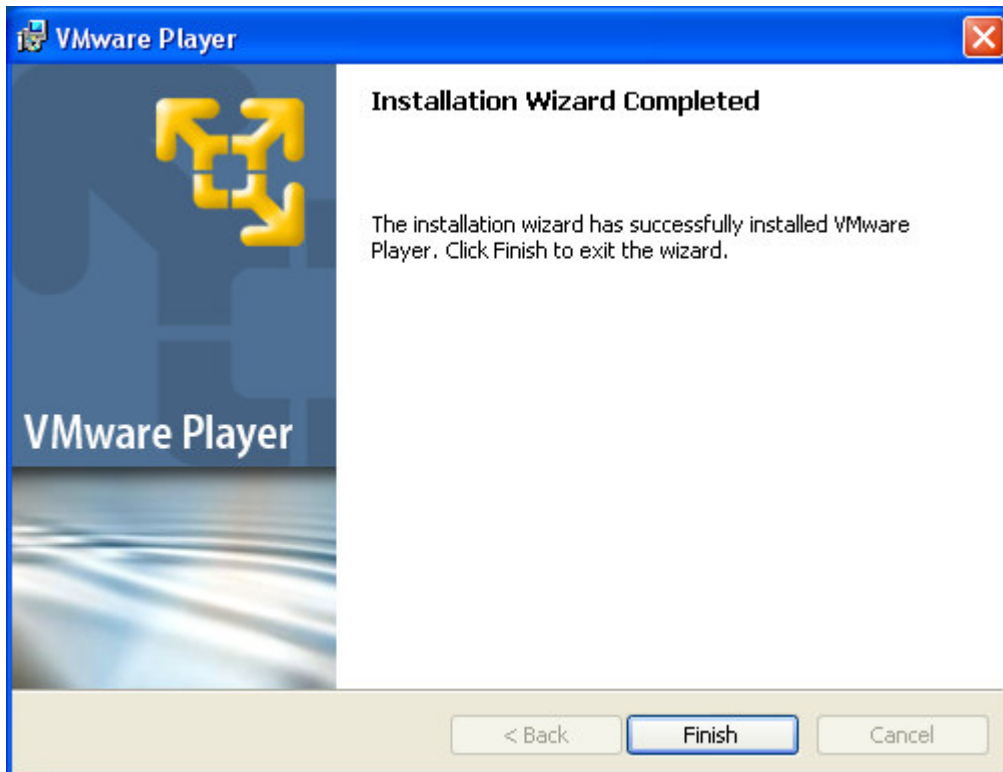
5. Wait for the VMware Player Installer to load.



6. Click the series of Next buttons to accept the install defaults until the Installation Wizard Complete appears.

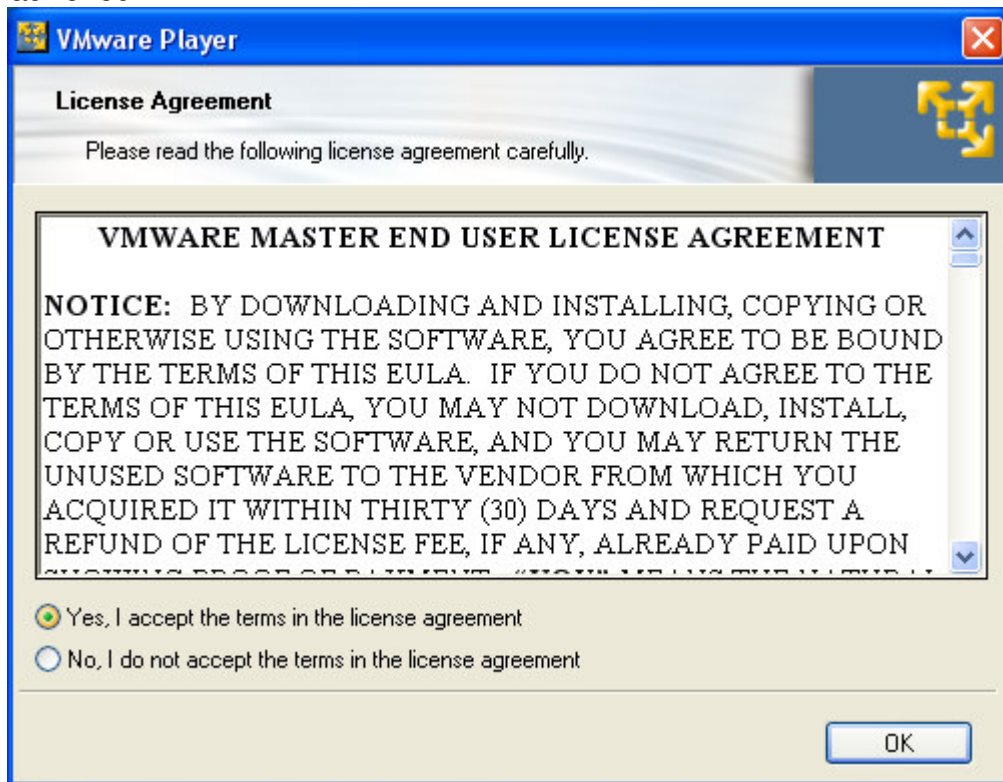


7. Click the Finish button.



8. Read the VMware EULA, click the "Yes" option, and click the OK button. In some cases, the VMware EULA may not display until the first time the EBAN Server is

launched.



9. The VMware Player is now installed.

3.2 EBAN Server Installation

1. Log On to the Host Computer as a local Administrator.
2. Disable any anti-virus or firewall software that prevent changes to the network configuration.
3. Disable all group policy objects, if in a domain, that prevent changes to the network configuration.
4. Double-click the EBAN Server Installer previously downloaded.



EBAN Server Installer
2007061800

5. Click the Install button.



6. The EBAN Server is now installed.

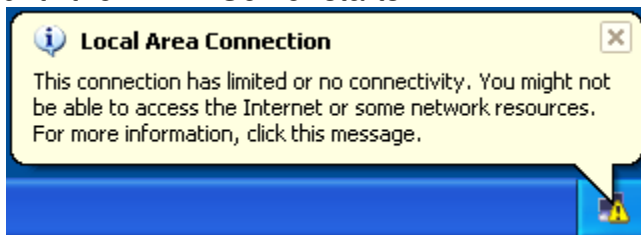
4.0 Starting EBAN

4.1 Starting the EBAN Server

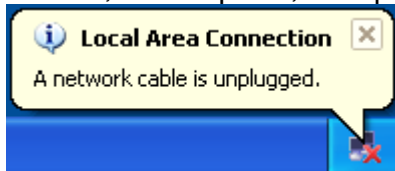
Starting the EBAN Server on the Host Computer does not clear the Host Computer. The Host Computer is never cleared.

1. Disconnect the Host Computer from your LAN. (Really do this, so that you don't surprise yourself or your IT department.)
2. Reconnect the Host Computer to an unmanaged standalone ethernet switch or ethernet hub. (For testing and trials, a simple network topology is preferred. Network integration can be done later.) Use of managed switches such as Cisco are not supported.
3. Log On to the Host Computer as a local Administrator.
4. You should get this warning from Microsoft Windows if the *Network Connection* is configured to *Obtain An IP Address Automatically*. This warning may be ignored

until the EBAN Server starts.



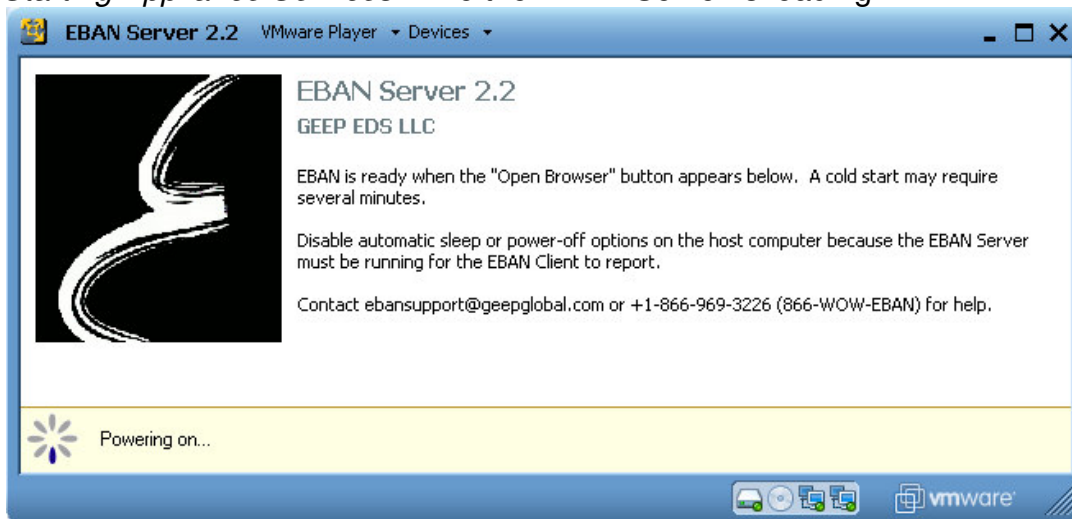
5. Check your cables and switch if you get this error from Microsoft Windows. Reseat, switch ports, or replace cables until this error is removed.



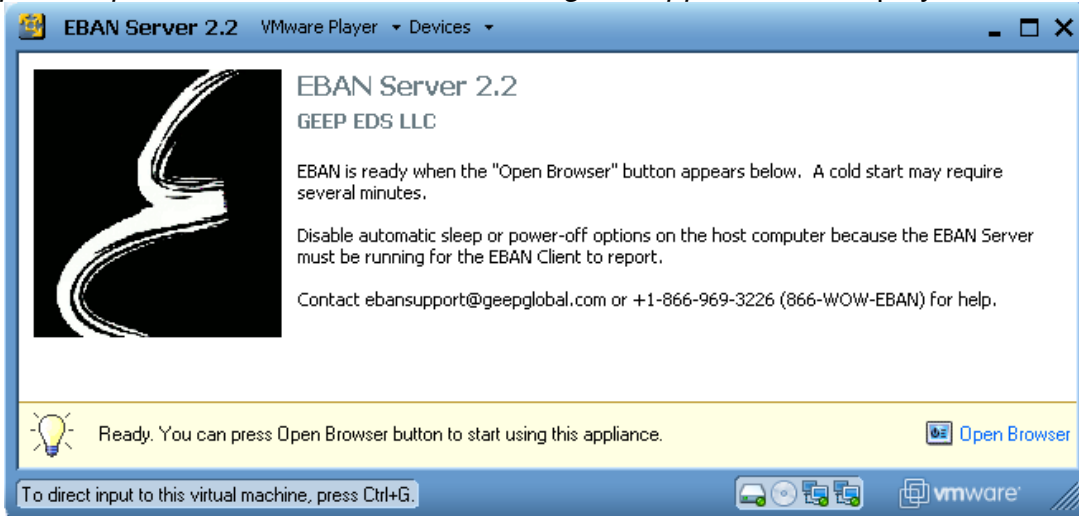
6. Click Start -> Programs -> EBAN -> EBAN Server or use one of the EBAN Server shortcuts setup during installation.



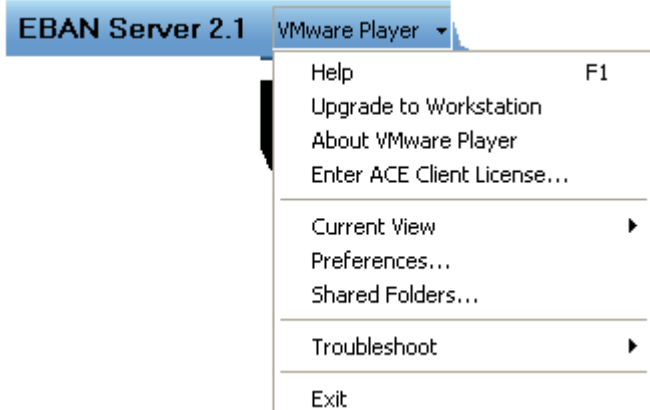
7. Wait for the VMware Player to open and the EBAN Server to start. A message at the bottom of the VMware Player window will display *Powering on...* followed by *Starting Appliance Services* while the EBAN Server is loading.



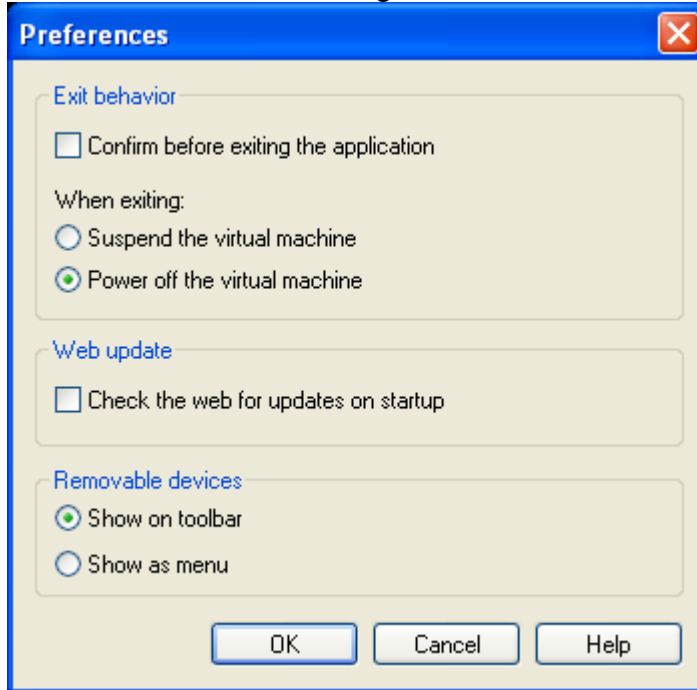
8. The EBAN Server is loaded and running when the message *Ready*. You can press *Open Browser* button to start using this appliance. is displayed.



9. Set the VM Player Preferences so the EBAN Server will close when you Exit the VM Player. Click on the VMware Player drop down to display the menu shown below and select *Preferences*.



10. The Preference settings should be set to match those shown below. Click *OK* to save the Preference settings and return to the EBAN Server screen.



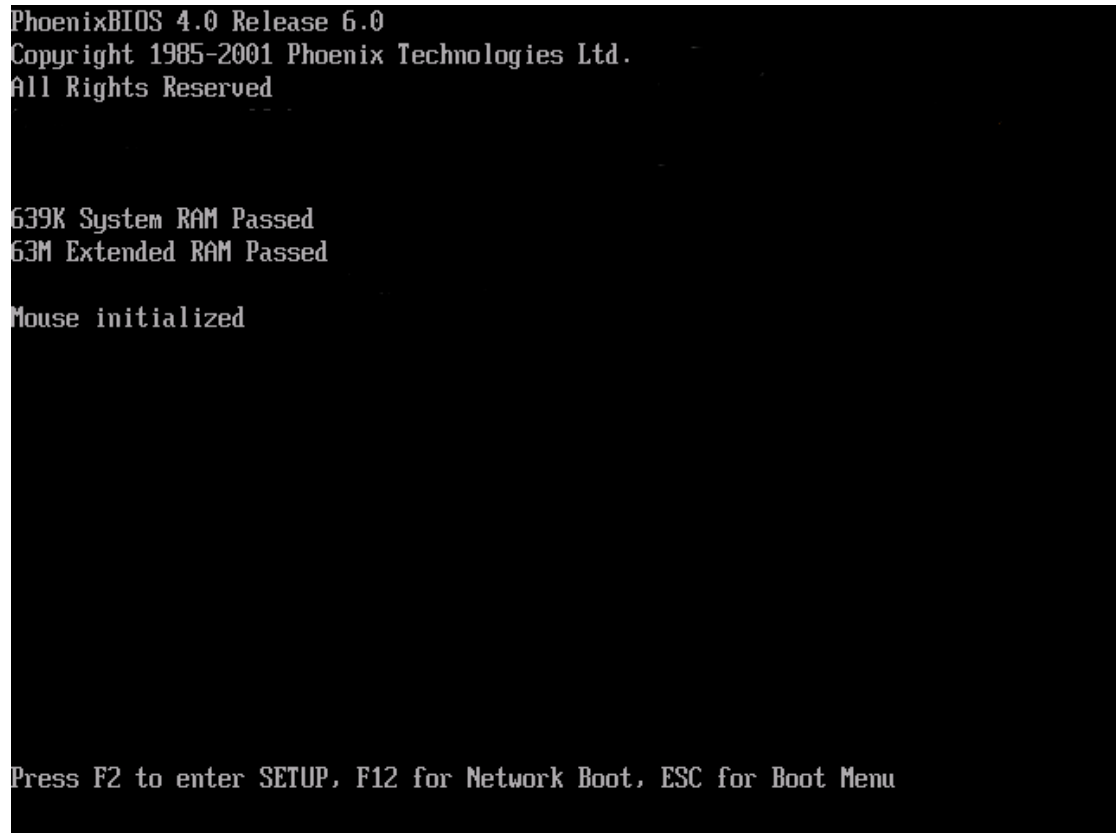
4.2 Starting the EBAN Client - Clearing the Target Computer

Starting the EBAN Client on a Target Computer is destructive.

The EBAN Server must be running and on the same ethernet broadcast segment as the Target Computer for the EBAN Client to load and run properly.

1. Power-on the Target Computer and wait for the POST screen. In this example, the hint at the bottom says press "ESC for boot menu", so pushing the ESC button will display a boot menu. Each computer will have a different POST

screen.

A screenshot of a BIOS boot screen with a black background and white text. The text is arranged in several lines, providing system information and instructions. The lines are: 'PhoenixBIOS 4.0 Release 6.0', 'Copyright 1985-2001 Phoenix Technologies Ltd.', 'All Rights Reserved', a blank line, '639K System RAM Passed', '63M Extended RAM Passed', a blank line, 'Mouse initialized', a blank line, and 'Press F2 to enter SETUP, F12 for Network Boot, ESC for Boot Menu'.

PhoenixBIOS 4.0 Release 6.0
Copyright 1985-2001 Phoenix Technologies Ltd.
All Rights Reserved

639K System RAM Passed
63M Extended RAM Passed

Mouse initialized

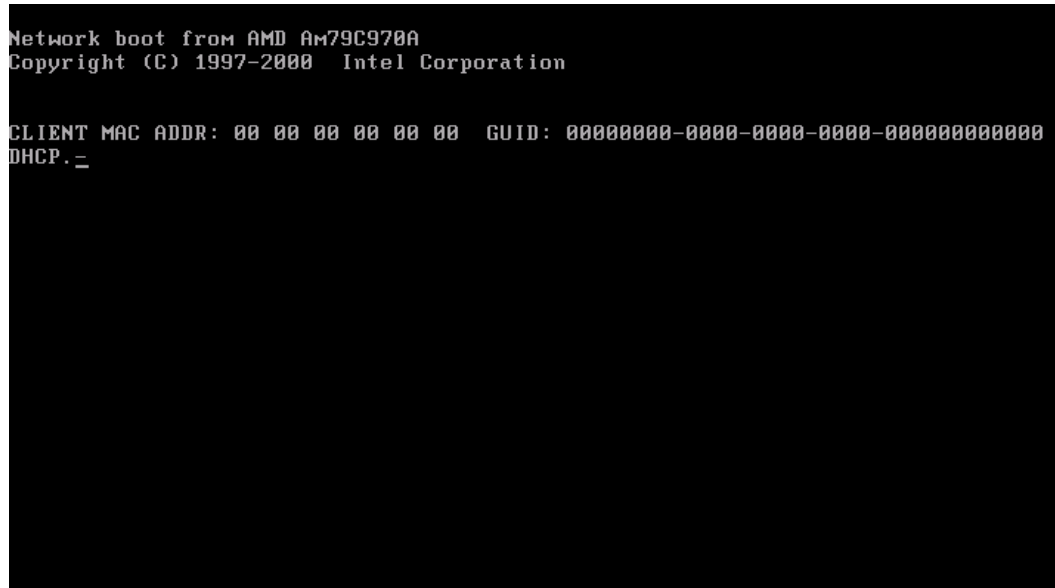
Press F2 to enter SETUP, F12 for Network Boot, ESC for Boot Menu

2. Choose the "Network boot" item from the Boot Menu. This screen may look different on your computer. "PXE" is the same thing as "Network boot". The list

may designate an Ethernet adapter for "PXE" or "Network boot".



3. Wait for the Target Computer to get a network configuration from the EBAN Server.



4. Wait for the EBAN Client to load from the EBAN Server. (This is called the "splash screen".)



5. Wait for the EBAN Client to start. (This is called the the "black screen".)



6. Wait more for the EBAN Client to complete device registration. (This is called the "blue screen".)

```
Enterprise Boot and Nuke 2007061800.geep is starting.  
Waiting for USB devices to register..... done.  
  
-
```

7. The target computer is now being processed. The displayed information includes the Overwrite Method, Verification setting, Processing statistics, and Target Disk data.

```
Enterprise Boot and Nuke 2007061800.geep  
----- Options -----  
Entropy: Linux Kernel (urandom)  
PRNG: Mersenne Twister (mt19937ar-cok)  
Method: Quick Erase  
Verify: Last Pass  
Rounds: 1  
----- Statistics -----  
Runtime: 00:00:00  
Remaining: 00:00:00  
Load Averages: 0.00 0.00 0.00  
Throughput: 0  
Errors: 0  
  
SCSI Disk  
[00.00%, round 1 of 1, pass 0 of 0] [blanking] [0 B/s]
```

8. Once the target computer completes the process, a screen indicating PASS or FAIL will display. The results are then reported back to the EBAN Server and a

Computer ID number is assigned.

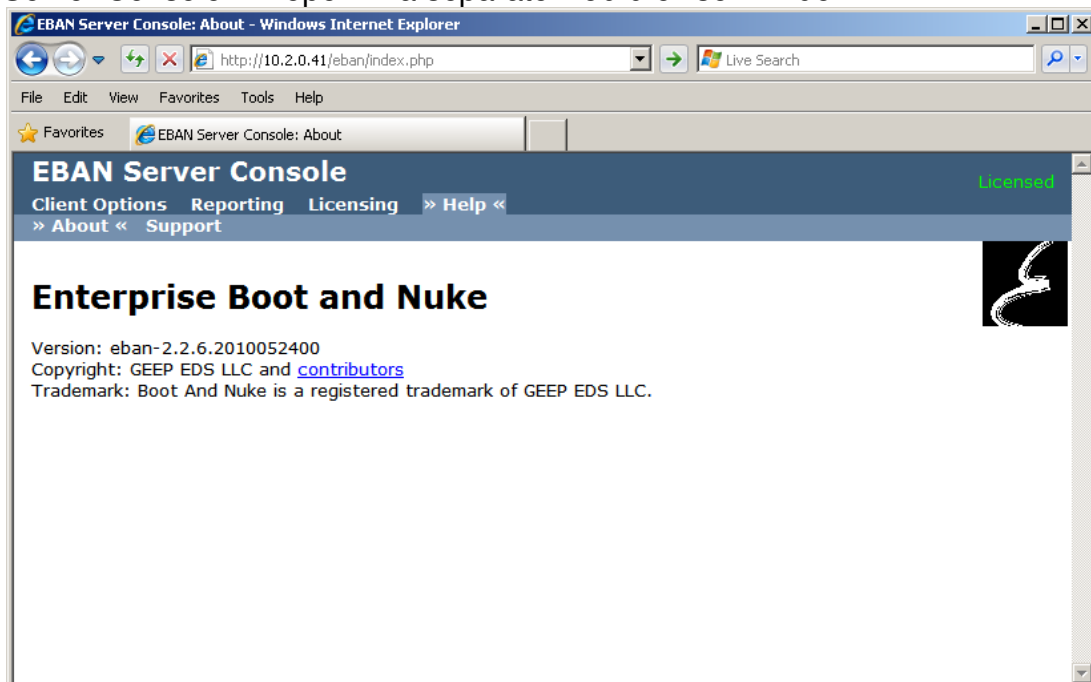
```
EBAN succeeded.  
All selected disks have been wiped.  
Hardware clock operation start date: Mon Jul 09 18:55:16 2007  
Hardware clock operation finish date: Mon Jul 09 18:55:49 2007  
  
* pass SCSI Disk  
  
Saving logs to A:\DBANLOG on removable media... done.  
Saving logs to http://ebanserver/eban/post/lshw.php...  
OK: This is computer 1.
```

9. Once a Computer ID number has been assigned and displayed, the Target Computer may be powered off.

5.0 EBAN Server Console

5.1 Reading Reports

1. Click Open Browser at the bottom of the VMware Player - Server screen. The Server Console will open in a separate web browser window.



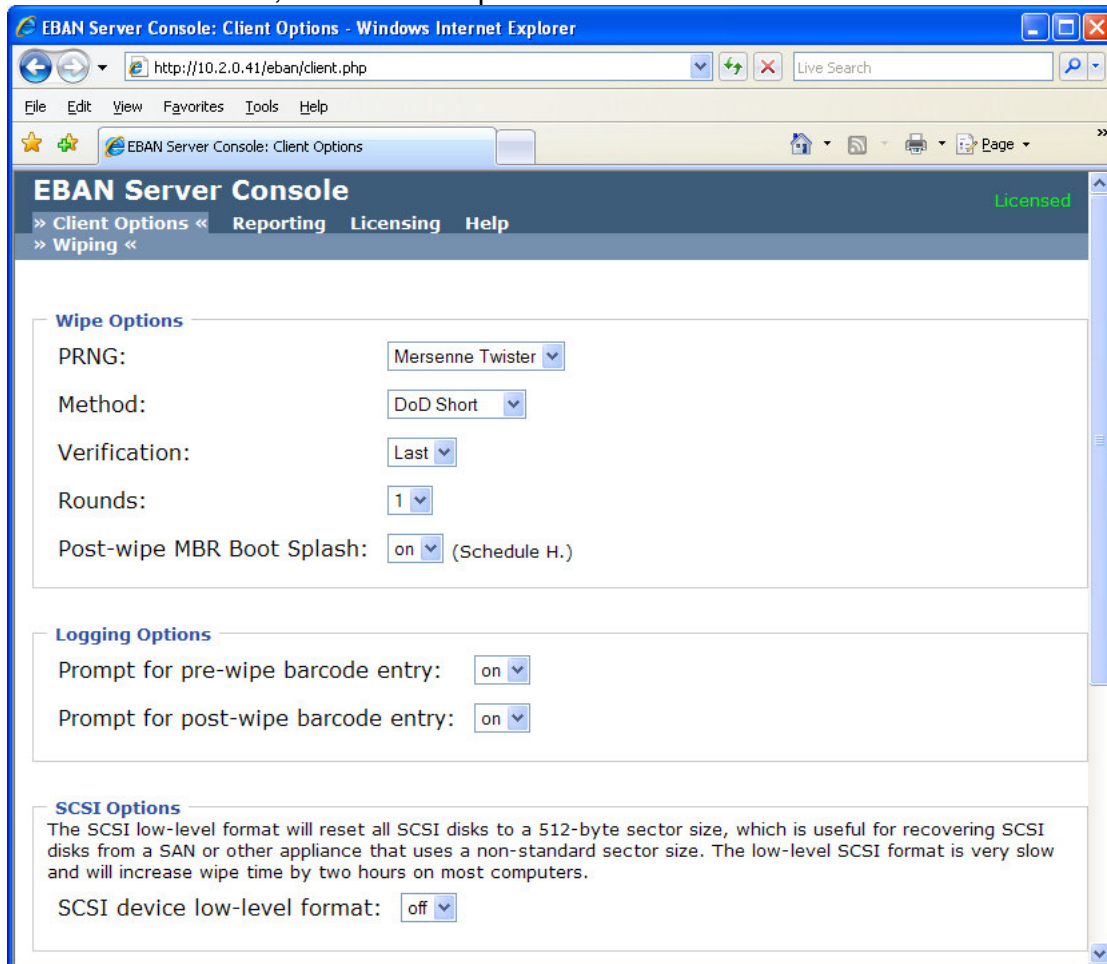
- In the web browser, click Reporting -> Browse -> Wipe Results.

Wipe Results								
All								
Date	Computer	OEM Tag	Disk	Revision	Serial	Method	Rounds	Result
2010-05-26 14:50:54	34	V213JYHZA046	ST380021A	3.19	3HV268TX	DoD 5220,22-M	1	pass
2010-05-26 11:39:01	33	57B3Q11	ST340014A	3.04	5JX467NN	DoD 5220,22-M	1	pass
2010-05-26 11:35:39	32	GL41D61	IC25N020ATDA04-0	DA30	63063777953	DoD Short	1	pass
2010-05-26 11:09:28	31	4BMDZ81	ST380013AS	8.12	4MR475TA	DoD Short	1	pass
2010-05-26 09:14:43	30	57B3Q11	ST340014A	3.04	5JX467NN	Quick Erase	1	pass
2010-05-19 14:37:57	29	57B3Q11	ST340014A	3.04	5JX467NN	RCMP TSSIT OPS-II	1	pass
2010-05-14 15:02:44	28	57B3Q11	ST340014A	3.04	5JX467NN	DoD 5220,22-M	1	pass
2010-05-14 14:12:45	27	2UA411060S	WDC WD600JB-00CR	17.0	WD-WMA8E9048623	DoD Short	1	pass
2010-05-14 14:10:08	26	1MJWS81	Maxtor 6L080M0	BANC	L20S3BMH L20S3BMH	DoD Short	1	pass
2010-05-14 14:06:58	25	89H85B1	HDS728080PLA380	PF20	PFDB50EJRYP01W	PRNG Stream	3	pass
2010-05-14 14:01:46	24	GL41D61	IC25N020ATDA04-0	DA30	63063777953	DoD Short	1	pass
2010-05-14 10:50:39	23	2UA411060S	WDC WD600JB-00CR	17.0	WD-WMA8E9048623	Quick Erase	1	pass
2010-05-14 10:48:52	22	1MJWS81	Maxtor 6L080M0	BANC	L20S3BMH L20S3BMH	Quick Erase	1	pass
2010-05-14 10:47:12	21	57B3Q11	ST340014A	3.04	5JX467NN	Quick Erase	1	pass
2010-05-12 14:30:52	20	2J7PC81	ST340014AS	8.12	5MQ37XT4	Quick Erase	1	pass
2010-05-12 10:33:24	19	D1LNC81	HDS728080PLA380	PF20	PFDB3256R1WU8N	Quick Erase	1	pass

- The Target Computer processed in Section 4.2 should appear in this list. Refer to the EBAN User - Technical Guide available from the Download web page for a full listing and details of the available EBAN Report options.

5.2 Resetting Client Options

1. In the web browser, click Client Options.



2. Refer to the EBAN User - Technical Guide attached to the Download Instructions email for a full listing of the Client Option settings. Note: these options are only valid for Target Computers that use PXE Boot to load the EBAN Client for data clearing.

6.0 Notes for Advanced Users

6.1 Running the EBAN Server on Linux

The VMware Player is available for all current Linux distributions, so the EBAN Server can be run on a Linux computer. Visit the EBAN download site to obtain the VMware Player package for your Linux platform.

The EBAN Server distribution package is currently a RAR SFX file, which can be unpacked on a Linux computer with `unrar`, or the GNOME file roller, or the KDE kio-rar module.

6.2 EBAN Server Installation Path

The default document path for VMware Player is "%HOMEPATH%\My Documents\My Virtual Machines", but the EBAN Server is installed to "%SystemDrive%\Virtual Machines" instead, which is the default for VMware Server. This is because the EBAN Server is large enough to break roaming profiles, and because some customers eventually upgrade to the VMware Server product to get better networking capabilities.

6.3 EBAN Server Backups

Any backup solution that uses the NTFS Shadow Volume Service, like the NTBACKUP.EXE program bundled with Microsoft Windows, can be used to make backups of the EBAN Server. The same thing on a unix system is called a "snapshot".

Any backup solution that skews the set of VMDK files in the EBAN Server folder will make a bad backup. If this kind of backup solution is used, the EBAN Server must be stopped before running the backup to ensure a valid backup. Contact ebansupport@geepglobal.com if unsure how your backup solution is implemented.

EBAN does not have a product activation mechanism, so the EBAN Server folder can be restored (or moved) and the software will continue to function.

6.4 Privacy Disclosure

The VMware Player program will try to contact the Internet to notify of VMware Player updates. This check should be disabled in the VMware Player Preferences by clicking VMware Player -> Preferences... -> Web Update. VMware Player updates can break the installation and leave the EBAN Server unavailable for further use.

The VMware Player and the EBAN Server can both run normally without Internet access in an "air gap" environment. EBAN does not have a product activation mechanism.

The EBAN log file, which is also called the "LSHW ticket", contains uniquely identifying information about the hardware and software of Target Computers processed by the EBAN Client.