

# **Gigabyte Content Management System Console User's Guide**

Version: 1.3

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## Using Your Gigabyte Content Management System Console

The Gigabyte Content Management System Console has a user-friendly Graphics User Interface (GUI) called the Gigabyte Content Management System Console GUI. It is designed to be easy to use. It has a low learning curve because it uses a standard Internet browser. You can expect to be up and running in less than five minutes. This chapter allows you to become familiar with the Gigabyte Content Management System Console GUI's various functions. Each function is described in detail.



# Gigabyte Content Management System Key Features and Functions

- Support IPMI v2.0
- Out-of-band monitoring and control for server management over LAN.
- FRU information report includes main board part number, product name, and manufacturer, etc.)
- Health status/Hardware monitoring report.
- Events log, view, and clear.
- Event notification via PET (Platform Event Trap).
- Platform Event Filtering (PEF) to take selected action for selected events.
- Chassis management includes power control and status report, front panel buttons and LEDs control.
- Support multi-session user, and alert destination for LAN channel.

## Software Install

### Prerequisites on remote management PC

Before installing Java tool, please check your system for the following required configuration requirements:

- Supported Browsers:
  - Internet Explorer 8~12
  - Google chrome Version 29.0.1547.66m
  - Firefox 2.0
- JAVA Recommended Version 8 Update 25 or later version (file size: ~ 623KB)

### Install Java Tool

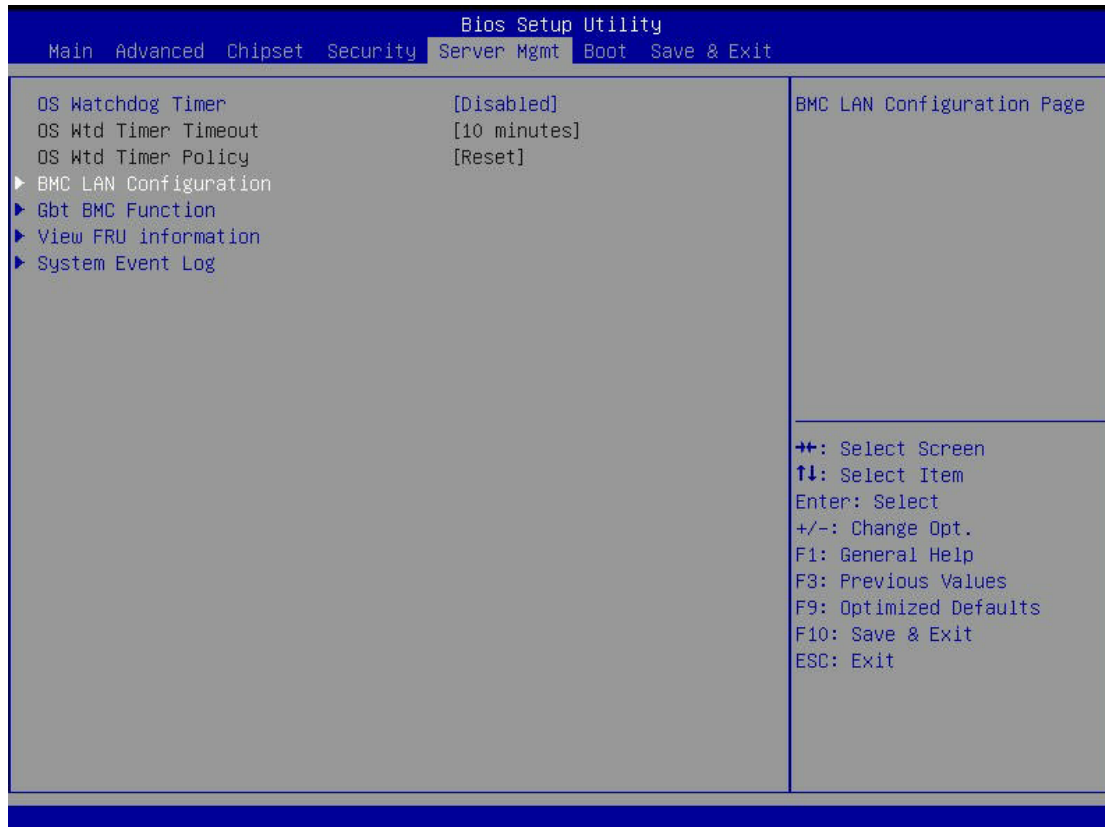
Please follow the instruction to install Java in Windows operating system.

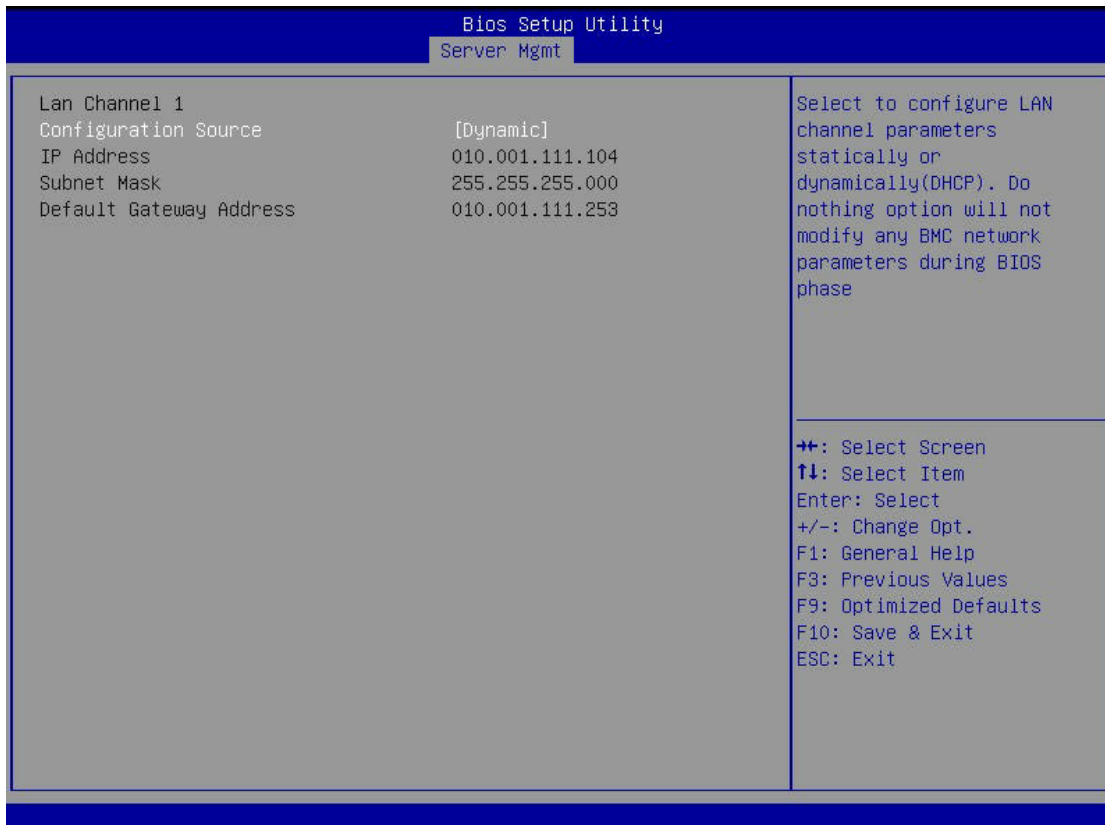
1. Go to <http://www.java.com>
2. Click Download on the middle of the home page.
3. Click on Agree and Start Free Download
4. Click see all Java downloads
5. Select the operating system you are using.
6. Choose the folder location. (Save the file to a known location on your computer)
7. Click Save.
8. Click Yes to replace.
9. Verify that the
  - Name of the file is **JavaSetup8u25.exe**
  - Size is approximately 623KB.
10. Close all applications including the browser.
11. Double-click on the saved file icon to start the installation process.

## Gigabyte Content Management Network Configuration

Please follow the instruction to enable the console redirection function.

1. Go to BIOS setup menu.
2. Select **Server Management**.
3. Define **BMC LAN Configuration** to **Dynamic** or **Static**.
4. Save and Exit.
5. The **BMC IP Address** will appear on the **IPv4 Address** parameter.





6. Save the configuration and exit BIOS setup menu.



## Using the Web UI

The BMC firmware features an embedded web server, enabling users to connect to the BMC using an Internet browser (Microsoft® Internet Explorer™).

The web server shall support 4 concurrent connections

Web-based GUI is supported on the following browsers:

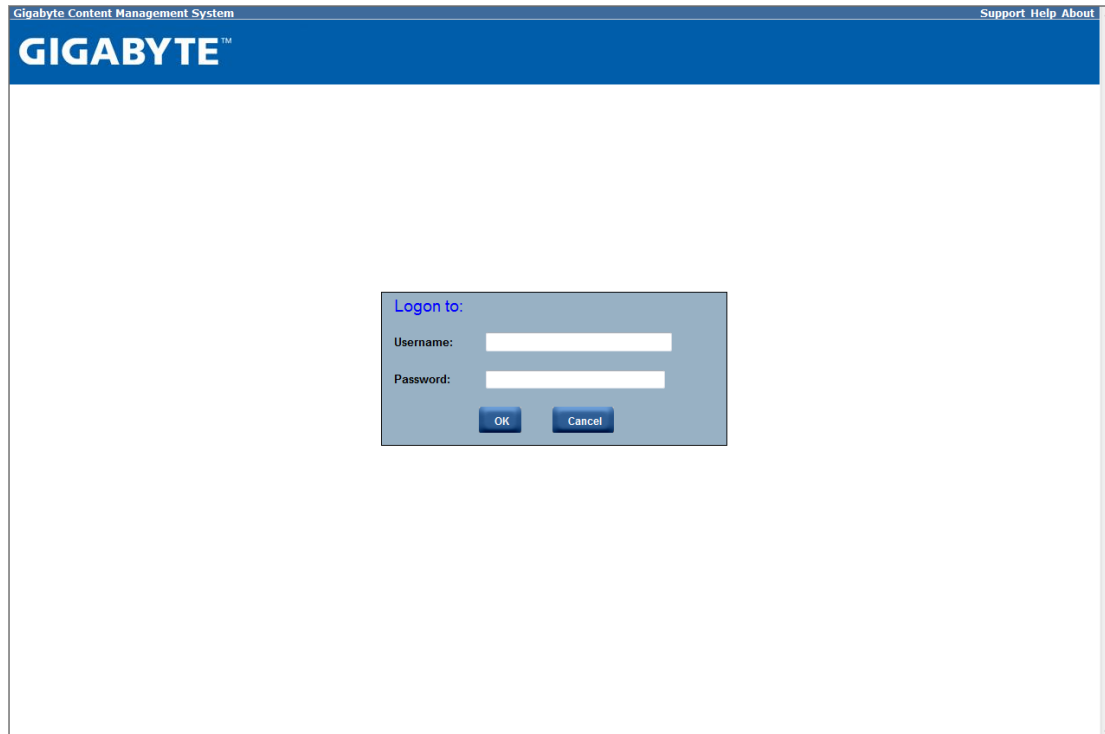
### **Microsoft Windows:**

- Internet Explorer 8 ~ 12
- Mozilla® Firefox® 2.0 or later

### **Linux:**

Mozilla Firefox 2.0 or later

## Gigabyte Content Management System Console Overview



1. Open a web browser and type in your identified IP. The IP address can be found using your DHCP server.
2. A dialog box prompts you to enter Username and Password.
3. Enter the following values:  
Username: **admin**  
Password: **password**



If your motherboard is Intel C20x series chipset, please enter the following values:

Username: **root**  
Password: **superuser**



The default user name and password are in lower-case characters.



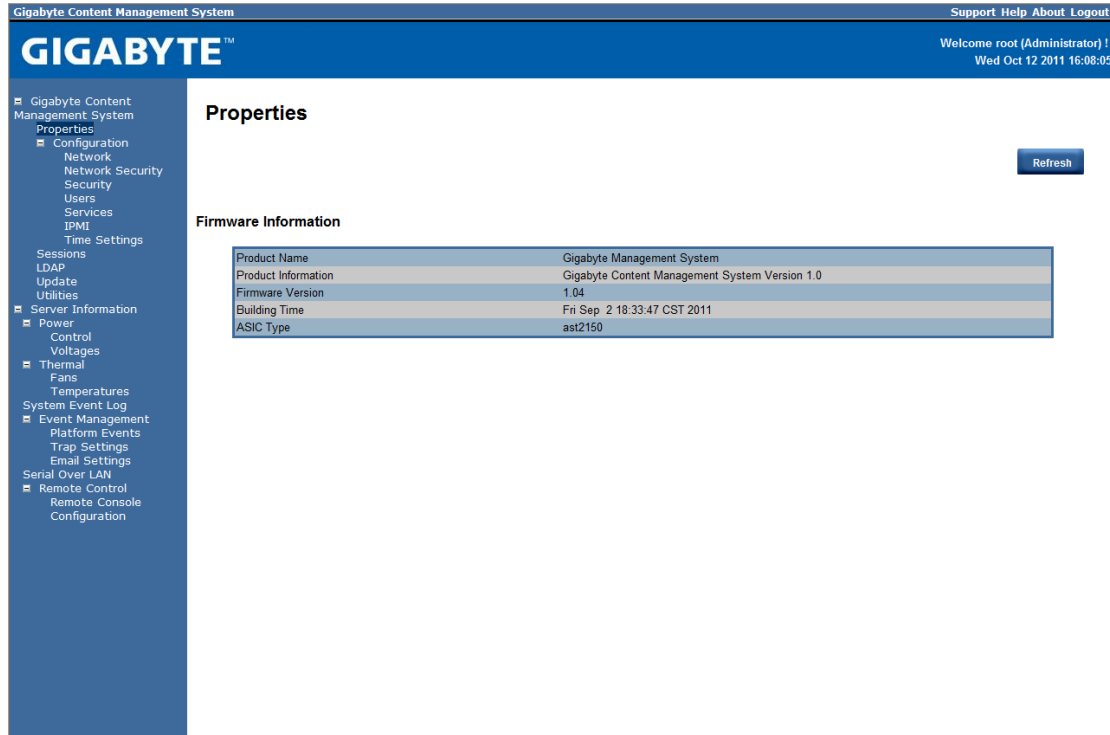
When you log in using the root user name and password, you have full administrative powers. It is advised that once you log in, you change the root password.

# Enter Gigabyte Content Management System Console

After you successfully log into your Gigabyte Content Management System Console, the Remote Management Console GUI appears.

## Properties

Properties displays the firmware version of current remote client system.



The screenshot shows the Gigabyte Content Management System console interface. The top navigation bar includes "Support", "Help", "About", and "Logout". The main header displays the "GIGABYTE" logo and a welcome message for the administrator "root" on "Wed Oct 12 2011 16:08:05". A left sidebar contains a tree view of system settings, with "Properties" selected. The main content area is titled "Properties" and features a "Refresh" button. Below this, the "Firmware Information" section displays a table with the following data:

Product Name	Gigabyte Management System
Product Information	Gigabyte Content Management System Version 1.0
Firmware Version	1.04
Building Time	Fri Sep 2 18:33:47 CST 2011
ASIC Type	ast2150

## Configuration Network

You can view and modify the network settings on this screen. Select the Network **Mode** from the drop-down list.

### Dedicate Mode

When set to Dedicate Mode, you can configure the BMC related settings through the BMC port.

### Shared Mode

When set to Shared Mode, you can configure the BMC related settings through the NIC2 port. (Shared NIC Mode)

### Failover Mode

When set to Failover Mode, you can configure the BMC related settings through the BMC or NIC2 port. (Backup Mode)

When you finish configuration, click **Apply Change**.

Please note that the changes may not take effect immediately, click "Refresh" to take effect of changes.

The screenshot shows the Gigabyte Content Management System interface. The top navigation bar includes 'Support', 'Help', 'About', and 'Logout'. The user is logged in as 'root (Administrator)' on 'Wed Oct 12 2011 16:09:47'. The sidebar on the left contains a tree view of system settings, with 'Network' selected under 'Configuration'. The main content area is titled 'Network' and contains two sections: 'General Settings' and 'Network Interface Configuration'. The 'General Settings' section includes a dropdown for 'Mode' (set to '1'), a text input for 'Host Name' (GIGABYTE Management Module), and a text input for 'DNS Domain Name' (AvctDomain). There are 'Apply Changes' and 'Refresh' buttons. The 'Network Interface Configuration' section is a table with columns for Name, iF Enabled, IPv4 Enabled, and IPv4 Address.

Name	iF Enabled	IPv4 Enabled	IPv4 Address
ncsi0	Enabled	Enabled	10.1.111.12

## Network Security

You can configure the network security settings on this screen. Check the **IP Blocking Enabled** box and input the desire value of **IP Blocking Fail Count**, **IP Blocking Fail Window**, and **IP Blocking Penalty Time**. After you finish the configuration, click **Apply Change** to save the settings.

The screenshot shows the Gigabyte Content Management System interface. The top navigation bar includes 'Support', 'Help', 'About', and 'Logout'. The user is logged in as 'root (Administrator)' on 'Wed Oct 12 2011 16:10:46'. The left sidebar contains a tree view of system settings, with 'Network Security' selected under the 'Configuration' section. The main content area is titled 'Network Security' and contains an 'Apply Changes' button. Below the title, there is a table for configuring network security settings.

Network Security		
Use this page to configure the network security settings.		
IP Blocking Enabled	<input type="checkbox"/>	
IP Blocking Fail Count	<input type="text" value="5"/>	
IP Blocking Fail Window	<input type="text" value="60"/>	Seconds
IP Blocking Penalty Time	<input type="text" value="300"/>	Seconds

## Users

To configure a specific user, click the Users ID. To display new user information, click **Refresh**.

**NOTE:** BMC convention for enabling an 'anonymous' login is to configure the entry for User ID 1 with a null username (all zero's) and a null password (all zero's). Applications may then present this to the user as an anonymous login.

The screenshot shows the 'Users' configuration page in the Gigabyte Content Management System. The page has a blue header with the 'GIGABYTE' logo and the text 'Welcome root (Administrator)!' and 'Wed Oct 12 2011 16:12:59'. A left sidebar contains a navigation menu with categories like 'Configuration', 'Server Information', 'Power', 'Thermal', 'Event Management', and 'Remote Control'. The main content area is titled 'Users' and includes two buttons: 'Apply Changes' and 'Refresh'. Below the buttons is a text instruction: 'To configure a particular user, click the User ID. If Password policy check is enabled, password strength checking will be enabled while updating user configuration.' A checkbox labeled 'Password policy check enable' is checked. A table lists 16 users with columns for User ID, State, User Name, User Role, IPMI LAN Privilege, IPMI Serial Privilege, and Serial Over LAN.

User ID	State	User Name	User Role	IPMI LAN Privilege	IPMI Serial Privilege	Serial Over LAN
1	Disabled		None	None	None	Disabled
2	Enabled	admin	Administrator	Administrator	Administrator	Enabled
3	Enabled	root	Administrator	Administrator	Administrator	Enabled
4	Disabled		None	None	None	Disabled
5	Disabled		None	None	None	Disabled
6	Disabled		None	None	None	Disabled
7	Disabled		None	None	None	Disabled
8	Disabled		None	None	None	Disabled
9	Disabled		None	None	None	Disabled
10	Disabled		None	None	None	Disabled
11	Disabled		None	None	None	Disabled
12	Disabled		None	None	None	Disabled
13	Disabled		None	None	None	Disabled
14	Disabled		None	None	None	Disabled
15	Disabled		None	None	None	Disabled
16	Disabled		None	None	None	Disabled

## Services

You can configure the web server parameters (such as, HTTP Port Number, HTTPS Port Number, and Timeout) on a remote computer. By default, the timeout is 1800 seconds.

When you finish the configuration, click **Apply Changes**.

The screenshot displays the Gigabyte Content Management System interface. The top navigation bar includes 'Support', 'Help', 'About', and 'Logout'. The user is logged in as 'root (Administrator)' on 'Wed Oct 12 2011 16:13:59'. The left sidebar contains a tree view of system settings, with 'Services' selected under the 'Configuration' section. The main content area is titled 'Services' and features a 'Web Server' configuration table. The table lists parameters: HTTP Port Number (80), HTTPS Port Number (443), Timeout (1800 seconds), Max Sessions (32), and Active Sessions (1). An 'Apply Changes' button is located in the top right corner of the configuration area.

Web Server	
HTTP Port Number	80
HTTPS Port Number	443
Timeout	1800 seconds
Max Sessions	32
Active Sessions	1

## IPMI

This screen contains two sections: IPMI Serial and IPMI Settings.

### IPMI Serial

There are four serial configuration in IPMI Serial: **Connection Mode Settings**, **Baud Rate**, **Flow Control**, and **Channel Privilege Level Limit**.

The Connection Mode Settings allows user to select the Console redirection type and to manage the system from a remote location.

Once the connection mode is set, select the Baud Rate and Flow Control from the drop-down list.

With Channel Privilege Level Limit, users can be configured to operate with a particular maximum Privilege Level. Privilege levels tell the BMC which commands are allowed to be executed. The following table shows the Channel Privilege Level.

Users	This may be considered the lowest privilege level.
Operator	All BMC commands are allowed, except for configuration commands that can change the behavior of the out-of-band interfaces. For example, Operator privilege does not allow the capability to disable individual channels, or change user access privileges.
Administrator	All BMC commands are allowed, including configuration commands. An Administrator can even execute configuration commands that would disable the channel that the Administrator is communicating over.

Gigabyte Content Management System Support Help About Logout

**GIGABYTE™** Welcome root (Administrator) !  
Wed Oct 12 2011 16:14:32

- ▣ Gigabyte Content Management System
  - ▣ Properties
    - ▣ Configuration
      - ▣ Network
      - ▣ Network Security
      - ▣ Security
      - ▣ Users
      - ▣ Services
      - ▣ IPMI
        - ▣ IPMI Serial
        - ▣ IPMI Settings
      - ▣ Time Settings
    - ▣ Sessions
    - ▣ LDAP
    - ▣ Update
    - ▣ Utilities
  - ▣ Server Information
  - ▣ Power
    - ▣ Control
    - ▣ Voltages
  - ▣ Thermal
    - ▣ Fans
    - ▣ Temperatures
  - ▣ System Event Log
  - ▣ Event Management
    - ▣ Platform Events
    - ▣ Trap Settings
    - ▣ Email Settings
  - ▣ Serial Over LAN
  - ▣ Remote Control
    - ▣ Remote Console
    - ▣ Configuration



**IPMI Settings**

IPMI Settings provides remote configuration over LAN. To activate IPMI remote configuration by LAN, check Enable IPMI Over LAN option, define the Channel Privilege Level Limit, and enter the Encryption Key.

When you finish the configuration, click “Apply Changes”.

## Time Setting

This page provides the mechanism to configure the Network Time acquisition method. With Administrator or Operator privilege level, you can modify configuration settings and click the Apply Changes button to execute the settings, as well as click the Sync Time Now button (when in Requested Mode) to request an immediate clock set.

## Operation Mode

Configures the NTP Mode. You can Disable NTP, set **Requested Mode**, or **Daemon Mode** in this parameter.

In **Requested Mode**, you can request an immediate clock synchronization with the NTP server; request will be sent when click the Sync Time Now button.

The **Daemon Mode** runs NTP daemon which sends a NTP request at approximately 5 minute intervals. Multiple NTP servers may be specified to provide redundancy.

## Time Synchronization Method

Specifies the synchronization method for Requested Mode. Select **Slew mode** when you want to adjust the time smoothly over time if there are time sensitive applications in place. Select **Step mode** to aggressively change the time using settimeofday() system call.

The screenshot shows the Gigabyte Content Management System interface. The top navigation bar includes 'Support', 'Help', 'About', and 'Logout'. The user is logged in as 'root (Administrator)' on 'Wed Oct 12 2011 17:32:18'. The left sidebar contains a tree view of system settings, with 'Time Settings' selected. The main content area is titled 'Time Settings' and contains three buttons: 'Sync Time Now', 'Apply Changes', and 'Refresh'. Below the buttons, there is a section for 'Network Time Protocol' settings. The settings are as follows:

Parameter	Value
Operation Mode	Requested Mode
NTP Server 1	
NTP Server 2	
NTP Server 3	
Requested Modes' Update Frequency (minutes)	3
Time Synchronization Method	<input checked="" type="radio"/> Step Mode <input type="radio"/> Slew Mode

## Sessions

This screen displays information on Active Sessions. Additionally, the trash can icon provides the delete function for privileged users. Click **Refresh** to refresh the Sessions status.

Gigabyte Content Management System Support Help About Logout

**GIGABYTE** Welcome root (Administrator) !  
Wed Oct 12 2011 16:16:12

- ▣ Gigabyte Content Management System
  - Properties
    - ▣ Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - IPMI
      - Time Settings
    - Sessions
    - LDAP
    - Update
    - Utilities
  - ▣ Server Information
    - ▣ Power
      - Control
      - Voltages
    - ▣ Thermal
      - Fans
      - Temperatures
    - System Event Log
    - ▣ Event Management
      - Platform Events
      - Trap Settings
      - Email Settings
    - Serial Over LAN
    - ▣ Remote Control
      - Remote Console
      - Configuration

### Sessions

Refresh

Use this page to view information about the active sessions. Additionally, privileged users can click on the trash can icon to kill an active session.

Session ID	User Name	IP Address	Session Type	Kill
1	root	10.1.111.37	Virtual KVM	
2	root	10.1.2.37	GUI	N/A

## LDAP

LDAP screen allows download user list of LDAP server then create Gigabyte Content Management System Console user account from this list directly.

Check the box below to enable LDAP authentication and enter the required information to access the LDAP server. Click **Apply Changes** to save your changes.

Gigabyte Content Management System Support Help About Logout

---

**GIGABYTE™** Welcome root (Administrator)!  
Wed Oct 12 2011 16:17:10

- ▣ Gigabyte Content Management System
- ▣ Properties
- ▣ Configuration
  - ▣ Network
  - ▣ Network Security
  - ▣ Security
  - ▣ Users
  - ▣ Services
  - ▣ IPMI
  - ▣ Time Settings
- ▣ Sessions
- ▣ LDAP
- ▣ Update
- ▣ Utilities
- ▣ Server Information
  - ▣ Power
  - ▣ Control
  - ▣ Voltages
  - ▣ Thermal
    - ▣ Fans
    - ▣ Temperatures
  - ▣ System Event Log
  - ▣ Event Management
    - ▣ Platform Events
    - ▣ Trap Settings
    - ▣ Email Settings
  - ▣ Serial Over LAN
  - ▣ Remote Control
    - ▣ Remote Console
    - ▣ Configuration

### LDAP Configuration Page

[Apply Changes](#) [Refresh](#)

Use this page to configure Lightweight Directory Access Protocol (LDAP).

Enable LDAP	<input type="checkbox"/>
Enable Encryption for LDAP client	<input checked="" type="checkbox"/>
Validate Server Certificate at Binding	<input type="checkbox"/>
Certificate File Path	<input type="text" value="/etc/certs/cacerts/ldap.cert"/>
Use DNS to find servers	<input type="checkbox"/>
Domain Source	<input type="text" value="Use Domain from Login"/>
Domain Name for DNS SVR request	<input type="text"/>
Service Name	<input type="text" value="ldap"/>
Domain Controller 1	<input type="text"/>
Domain Controller 1's Port	<input type="text" value="389"/>
Domain Controller 2	<input type="text"/>
Domain Controller 2's Port	<input type="text" value="389"/>
Domain Controller 3	<input type="text"/>
Domain Controller 3's Port	<input type="text" value="389"/>
Base Domain Name	<input type="text"/>
UID Search Object value	<input type="text" value="sAMAccountName"/>
Group Filter	<input type="text"/>
Binding Method	<input type="text" value="Use Login Credentials"/>
Client ID used with CC binding	<input type="text"/>
Client Password used with CC binding	<input type="text"/>
Group ID Attribute	<input type="text" value="memberOf"/>
Attribute to query permission in group	<input type="text"/>

## Updates

The firmware can be updated remotely.

To update firmware, follow the instruction below:

1. Select Update Type.
2. Select the file on your local system using Browse.

Click **Upload** to update to the new version of firmware.

The screenshot shows the Gigabyte Content Management System interface. The top navigation bar includes 'Support', 'Help', 'About', and 'Logout'. The main header displays the 'GIGABYTE' logo and the user status 'Welcome root (Administrator)!' along with the date and time 'Wed Oct 12 2011 16:18:08'. A left-hand sidebar contains a tree view of system settings, with 'Update' highlighted under the 'Server Information' section. The main content area is titled 'Firmware Update' and features an 'Upload' section. This section contains a warning icon and text: 'Select an image file and click upload. The upload process will terminate all other sessions including Remote Console. If "BMC" firmware type is selected, after the upload process is started, any attempt to refresh, logout or navigate away from the update page will restart the system.' Below the text is a form with two fields: 'Firmware Type' with a dropdown menu set to 'BMC', and 'File Path' with a text input field and a 'Browse...' button. An 'Upload' button is positioned to the right of the 'File Path' field.

## Utilities

Utilities provides BMC reboot and Factory default restore functions.

1. To reboot system, click **Reboot**.
2. To restore factory default, click **Factory Default**.

The screenshot shows the Gigabyte Content Management System interface. At the top, there is a navigation bar with "Support Help About Logout" on the right and the "GIGABYTE" logo on the left. Below the logo is a sidebar menu with various system management options. The main content area is titled "Utilities" and contains two sections: "Reboot" and "Factory Default". Each section includes a descriptive text and a corresponding button.

Gigabyte Content Management System Support Help About Logout

**GIGABYTE** Welcome root (Administrator) !  
Wed Oct 12 2011 16:18:47

- ▣ Gigabyte Content Management System
  - Properties
    - ▣ Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - IPMI
      - Time Settings
    - Sessions
    - LDAP
    - Update
    - Utilities
  - ▣ Server Information
    - Power
      - Control
      - Voltages
    - Thermal
      - Fans
      - Temperatures
    - System Event Log
    - ▣ Event Management
      - Platform Events
      - Trap Settings
      - Email Settings
    - Serial Over LAN
    - ▣ Remote Control
      - Remote Console
      - Configuration

### Utilities

#### Reboot

Click 'Reboot' button to reboot the BMC.

#### Factory Default

Click 'Factory Default' button to reset BMC to default.

## Server Information

### Power Control

The Power Control allows you to power on/off/cycle the remote host system. Additionally you can see the remote power status.

To perform the power control operation, select the operation and click **Apply Changes**.

The screenshot shows the Gigabyte Content Management System interface. The top navigation bar includes "Gigabyte Content Management System" on the left and "Support Help About Logout" on the right. The main header features the "GIGABYTE" logo and a user greeting: "Welcome root (Administrator) ! Wed Oct 12 2011 16:19:31".

The left sidebar contains a navigation menu with the following items:

- ▣ Gigabyte Content Management System
  - Properties
  - ▣ Configuration
    - Network
    - Network Security
    - Security
    - Users
    - Services
  - IPMI
  - Time Settings
  - Sessions
  - LDAP
  - Update
  - Utilities
- ▣ Server Information
  - ▣ Power
    - Control
    - Voltages
  - ▣ Thermal
    - Fans
    - Temperatures
  - System Event Log
  - ▣ Event Management
    - Platform Events
    - Trap Settings
    - Email Settings
  - Serial Over LAN
  - ▣ Remote Control
    - Remote Console
    - Configuration

### Power Control

[Apply Changes](#)

Here, you can view your server's power status. To perform a power control operation, select the operation you wish to perform and click Apply Changes.

#### Power Status

ON




#### Power Control Operations

- Power On System
- Power Off System
- Power Cycle System
- Hard Reset (Restart)

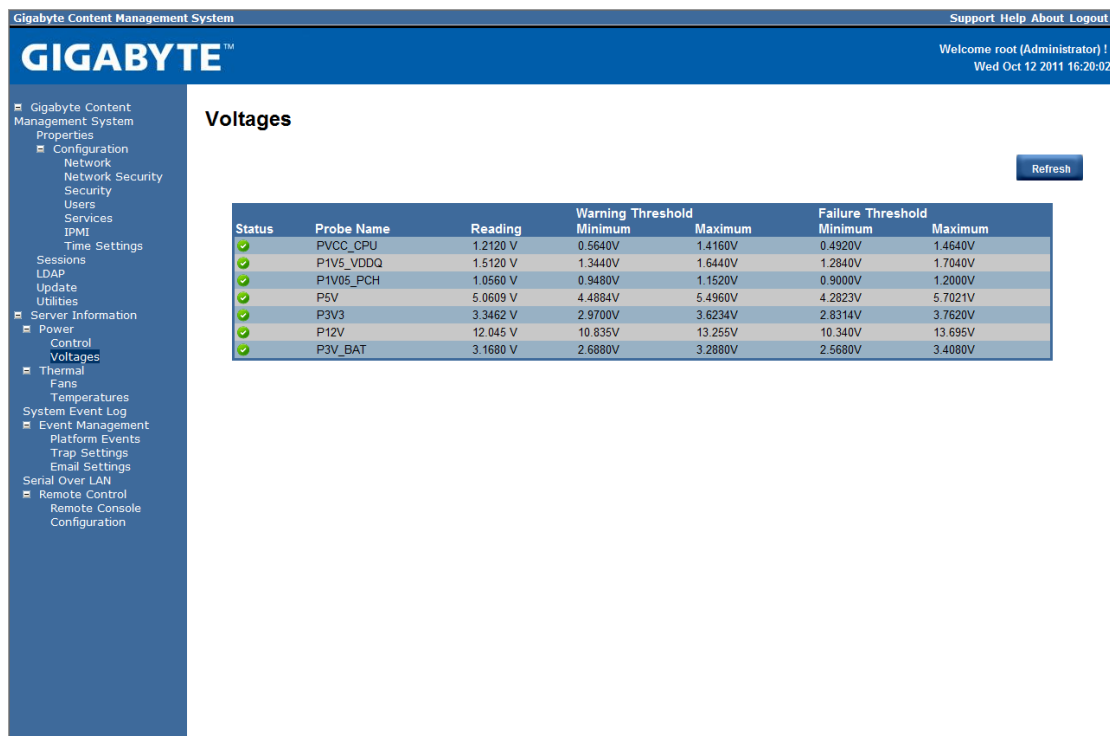
## Voltages

This screen displays the status of system power consumption.

Each sensor displays different color to indicate the health status of a specified device.

	The green color indicates the device is healthy and there's no sensor that has any alert.
	The yellow color indicates the device has at least one sensor that has warning alert.
	The red color indicates the device has at least one sensor that has a critical alert.

Click **Refresh** to update current system voltages.



Gigabyte Content Management System

Support Help About Logout

# GIGABYTE™

Welcome root (Administrator) !  
Wed Oct 12 2011 16:20:02

- Configuration
  - Network
  - Network Security
  - Security
  - Users
  - Services
  - IPMI
  - Time Settings
- Sessions
- LDAP
- Update
- Utilities
- Server Information
- Power
  - Control
  - Voltages
- Thermal
  - Fans
  - Temperatures
- System Event Log
- Event Management
  - Platform Events
  - Trap Settings
  - Email Settings
- Serial Over LAN
- Remote Control
  - Remote Console
  - Configuration

### Voltages

Refresh




Status	Probe Name	Reading	Warning Threshold		Failure Threshold	
			Minimum	Maximum	Minimum	Maximum
✔	PVCC_CPU	1.2120 V	0.5640V	1.4160V	0.4920V	1.4640V
✔	P1V5_VDDQ	1.5120 V	1.3440V	1.6440V	1.2840V	1.7040V
✔	P1V05_PCH	1.0560 V	0.9480V	1.1520V	0.9000V	1.2000V
✔	P5V	5.0609 V	4.4884V	5.4960V	4.2823V	5.7021V
✔	P3V3	3.3462 V	2.9700V	3.6234V	2.8314V	3.7620V
✔	P12V	12.045 V	10.835V	13.255V	10.340V	13.695V
✔	P3V_BAT	3.1680 V	2.6880V	3.2880V	2.5680V	3.4080V



## Thermal

This screen displays the Fans and Temperatures sensors of a remote host system.

Click **Refresh** to update current health status for both Fans and Temperatures.

	The green color indicates the device is healthy and there's no sensor that has any alert.
	The yellow color indicates the device has at least one sensor that has a warning alert.
	The red color indicates the device has at least one sensor that has a critical alert.

## Fans

Gigabyte Content Management System Support Help About Logout





**GIGABYTE** Welcome root (Administrator) !  
Wed Oct 12 2011 16:20:45

- Configuration
  - Network
  - Network Security
  - Security
  - Users
  - Services
  - IPMI
  - Time Settings
- Sessions
- LDAP
- Update
- Utilities
- Server Information
- Power
  - Control
  - Voltages
- Thermal
  - Fans
  - Temperatures
- System Event Log
- Event Management
  - Platform Events
  - Trap Settings
  - Email Settings
- Serial Over LAN
- Remote Control
  - Remote Console
  - Configuration

[Refresh](#)

### Fans

Probe List

Status	Probe Name	Reading	Warning Threshold		Failure Threshold	
			Minimum	Maximum	Minimum	Maximum
	CPU FAN	0 RPM	400RPM	N/A	300RPM	N/A
	SYS FAN1	3100 RPM	400RPM	N/A	300RPM	N/A
	SYS FAN2	0 RPM	400RPM	N/A	300RPM	N/A
	SYS FAN3	0 RPM	400RPM	N/A	300RPM	N/A

# Temperature

Gigabyte Content Management System Support Help About Logout

**GIGABYTE™** Welcome root (Administrator) !  
Wed Oct 12 2011 16:21:13

- ▣ Gigabyte Content Management System
  - Properties
    - ▣ Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - IPMI
      - Time Settings
    - Sessions
    - LDAP
    - Update
    - Utilities
  - ▣ Server Information
    - Power
      - Control
      - Voltages
    - ▣ Thermal
      - Fans
      - Temperatures**
  - System Event Log
    - ▣ Event Management
      - Platform Events
      - Trap Settings
      - Email Settings
    - Serial Over LAN
  - ▣ Remote Control
    - Remote Console
    - Configuration

## Temperatures

Refresh

Status	Probe Name	Reading	Warning Threshold		Failure Threshold	
			Minimum	Maximum	Minimum	Maximum
✔	SYS Temp1	32 C	N/A	57C	N/A	62C
✔	SYS Temp2	37 C	N/A	60C	N/A	65C
✔	CPU Temp	66 C	N/A	93C	N/A	95C

## System Event Log

It records the event when sensor has an abnormal state. When the log matches the pre-defined alert, the system sends out the notification automatically, if it is pre-configured.

Gigabyte Content Management System
Support Help About Logout

Welcome root (Administrator) !  
Wed Oct 12 2011 16:25:44

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  - ▣ Email Settings
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### System Event Log

Severity	Date/Time	Description
✔	2011-10-04 15:16:04	System Software event: System Event sensor, Timestamp Clock Synch was asserted
!	2011-10-04 15:16:04	CPU FAN: Fan sensor, warning event was asserted, reading value : 0RPM (Threshold : 400RPM)
✖	2011-10-04 15:16:04	CPU FAN: Fan sensor, failure event was asserted, reading value : 0RPM (Threshold : 300RPM)
!	2011-10-04 15:16:09	SYS FAN3: Fan sensor, warning event was asserted, reading value : 0RPM (Threshold : 400RPM)
✖	2011-10-04 15:16:09	SYS FAN3: Fan sensor, failure event was asserted, reading value : 0RPM (Threshold : 300RPM)
✔	2011-10-04 15:16:09	Sys Pwr Monitor: Power Unit sensor, Power On / Power Up was asserted
✔	2011-10-04 15:16:15	Sys Pwr Monitor: Power Unit sensor, Power Reset was asserted
✔	2011-10-06 13:36:53	Sys Pwr Monitor: Power Unit sensor, Power Off / Power Down was asserted
!	[System Boot]	CPU FAN: Fan sensor, warning event was asserted, reading value : 0RPM (Threshold : 400RPM)
✖	[System Boot]	CPU FAN: Fan sensor, failure event was asserted, reading value : 0RPM (Threshold : 300RPM)
!	[System Boot]	SYS FAN3: Fan sensor, warning event was asserted, reading value : 0RPM (Threshold : 400RPM)
✖	[System Boot]	SYS FAN3: Fan sensor, failure event was asserted, reading value : 0RPM (Threshold : 300RPM)
✔	2011-10-06 15:23:40	System Software event: System Event sensor, Timestamp Clock Synch was asserted
!	2011-10-06 15:23:42	CPU FAN: Fan sensor, warning event was asserted, reading value : 0RPM (Threshold : 400RPM)
✖	2011-10-06 15:23:42	CPU FAN: Fan sensor, failure event was asserted, reading value : 0RPM (Threshold : 300RPM)
!	2011-10-06 15:23:50	SYS FAN3: Fan sensor, warning event was asserted, reading value : 0RPM (Threshold : 400RPM)
✖	2011-10-06 15:23:50	SYS FAN3: Fan sensor, failure event was asserted, reading value : 0RPM (Threshold : 300RPM)
✔	2011-10-06 15:24:21	System Software event: OS Boot sensor, boot completed - boot device not specific was asserted
✔	2011-10-06 15:24:33	Sys Pwr Monitor: Power Unit sensor, Power Reset was asserted

## Event Management

### Platform Event

A platform event filter (PEF) can trigger an action and generate an alert when a critical hardware-related event occurs. For each PEF, you can choose the action to be taken when a platform event occurs.

You can also choose to generate and send an alert when a platform event occurs. In the Platform Events screen, you can enable the generation of platform event alerts globally by clicking Global Alerting Enable.

When you finish the configuration, click **Apply Changes**.

The screenshot shows the Gigabyte Content Management System interface. The header includes the Gigabyte logo, the text 'Gigabyte Content Management System', and user information: 'Support Help About Logout', 'Welcome root (Administrator)!', and 'Wed Oct 12 2011 16:26:51'. The left navigation menu lists various system settings categories. The main content area is titled 'Platform Events' and contains a 'Platform Event Filters (PEF) List' table. Above the table, there is a checkbox for 'Global Alerting Enable' and a note: 'Note: (This enables/disables both PET and email alerts)'. An 'Apply Changes' button is located in the top right corner of the main content area.

Filter Name	None	Reboot	Power Cycle	Power Off	Generate PET
Threshold Type, Fan Critical Assert Filter	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Fan Warning Assert Filter	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Voltage Critical Assert Filter	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Voltage Warning Assert Filter	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Temperature Critical Assert Filter	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Temperature Warning Assert Filter	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Sensor-specific Type, Power Unit Critical Assert Filter	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Sensor-specific Type, Processor Critical Assert Filter	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Sensor-specific Type, Memory Critical Assert Filter	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

## Trap Settings

In the Trap Settings, user can set the IPv4 and Ipv6 Destination List.

IPv6 and IPv4 are two completely separate protocols. IPv6 is not backwards compatible with IPv4, and IPv4 hosts and routers will not be able to deal directly with IPv6 traffic.

IPv6 has a significantly larger address space than IPv4. This results from the use of a 128-bit address, whereas IPv4 uses only 32 bits.

When you finish the configuration, click **Apply Changes**.

Gigabyte Content Management System Support Help About Logout

**GIGABYTE™** Welcome root (Administrator) !  
Wed Oct 12 2011 16:27:37

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      - Trap Settings
      - Email Settings
      - Serial Over LAN
      - ▣ Remote Control
        - Remote Console
        - Configuration

## Email Settings

If you want the alert to be sent by email, you can configure to specify the e-mail address, subject and message in the Email Settings. After you finish the configuration, click Apply Change to save the settings.

### SMTP

Set E-mail (SMTP) server IP address for sending alert notification to user.

Check the SMTP Authentication **Enabled** box and enter the **SMTP IP address**, **User Name**, **Password**; select the **STARTTLS Mode** and **SASL Mode** from the drop-down list.

When you finish the configuration, click “Apply Changes”.

The screenshot shows the 'Email Settings' page in the Gigabyte Content Management System. The page has a blue header with the Gigabyte logo and user information: 'Welcome root (Administrator)!' and 'Wed Oct 12 2011 16:28:57'. A navigation menu on the left lists various system settings. The main content area is titled 'Email Settings' and includes an 'Apply Changes' button. It is divided into three sections: 'Destination Email Addresses', 'SMTP (email) Server Address', and 'SMTP Authentication'.

	Enable	Destination Email Address	Email Description	Test
Email Alert 1	<input type="checkbox"/>	<input type="text"/>	Remote Managemen	<input type="button" value="Send Alert 1"/>
Email Alert 2	<input type="checkbox"/>	<input type="text"/>	Remote Managemen	<input type="button" value="Send Alert 2"/>
Email Alert 3	<input type="checkbox"/>	<input type="text"/>	Remote Managemen	<input type="button" value="Send Alert 3"/>
Email Alert 4	<input type="checkbox"/>	<input type="text"/>	Remote Managemen	<input type="button" value="Send Alert 4"/>

**SMTP (email) Server Address**

SMTP IP Address

**SMTP Authentication**

Enable  Anonymous account will be used when authentication is disabled.

Username

Password

STARTTLS Mode

SASL Mode

## Serial Over LAN

You can configure the Serial Over LAN settings on this screen. Check the **Enable Serial Over LAN** box and select the **Baud Rate** and **Channel Privilege Limit** from the drop-down list. After you finish the configuration, click **Apply Change** to save the settings.

The screenshot shows the Gigabyte Content Management System interface. The top navigation bar includes "Support", "Help", "About", and "Logout". The user is logged in as "root (Administrator)" on "Wed Oct 12 2011 16:29:45". The left sidebar contains a tree view of system settings, with "Serial Over LAN" selected under the "Remote Control" category. The main content area is titled "Serial Over LAN" and contains three configuration items:

Enable Serial Over LAN	<input checked="" type="checkbox"/>
Baud Rate	115.2 kbps
Channel Privilege Level Limit	Administrator

An "Apply Changes" button is located in the top right corner of the configuration area.

# Remote Console Console Redirection

This screen allows you to start a Remote Console session with the host system.

The screenshot shows the Gigabyte Content Management System interface. The top navigation bar includes 'Support', 'Help', 'About', and 'Logout'. The user is logged in as 'root (Administrator)' on 'Wed Oct 12 2011 16:30:58'. The left sidebar contains a tree view of system settings, with 'Remote Console Configuration' selected. The main content area is titled 'Virtual Remote Console and Media Launch' and features two buttons: 'Launch Java KVM Client' and 'Launch Java VM Client'. Below these buttons are two configuration tables.

Virtual KVM Configuration	
Enabled	Yes
Max Sessions	6
Active Sessions	1
Remote Port	2068
Video Encryption Enabled	Yes
Preferred Client Type	Java

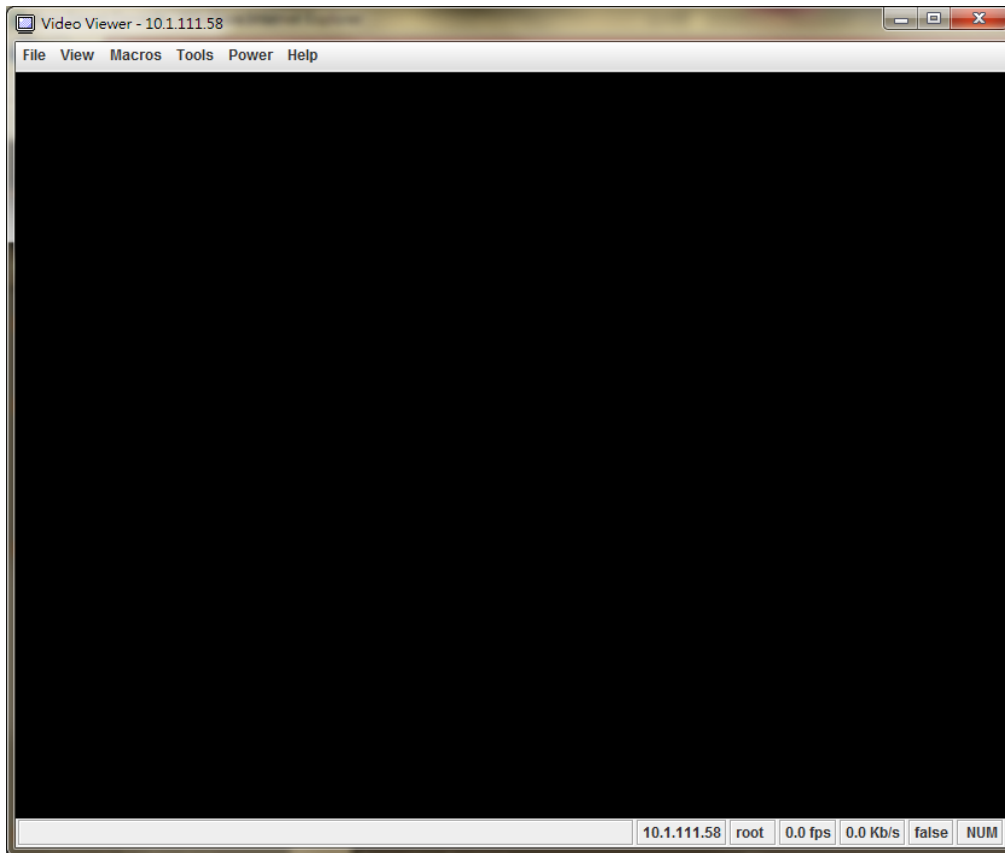
  

Virtual Media Configuration	
Max Sessions	1
Active Sessions	0
Encryption Enabled	No
Preferred Client Type	Java



### Launch Java KVM Client

Click **Launch Java KVM Client** to launch the redirection console and manage the server remotely. After clicking the button, a console appears as below:

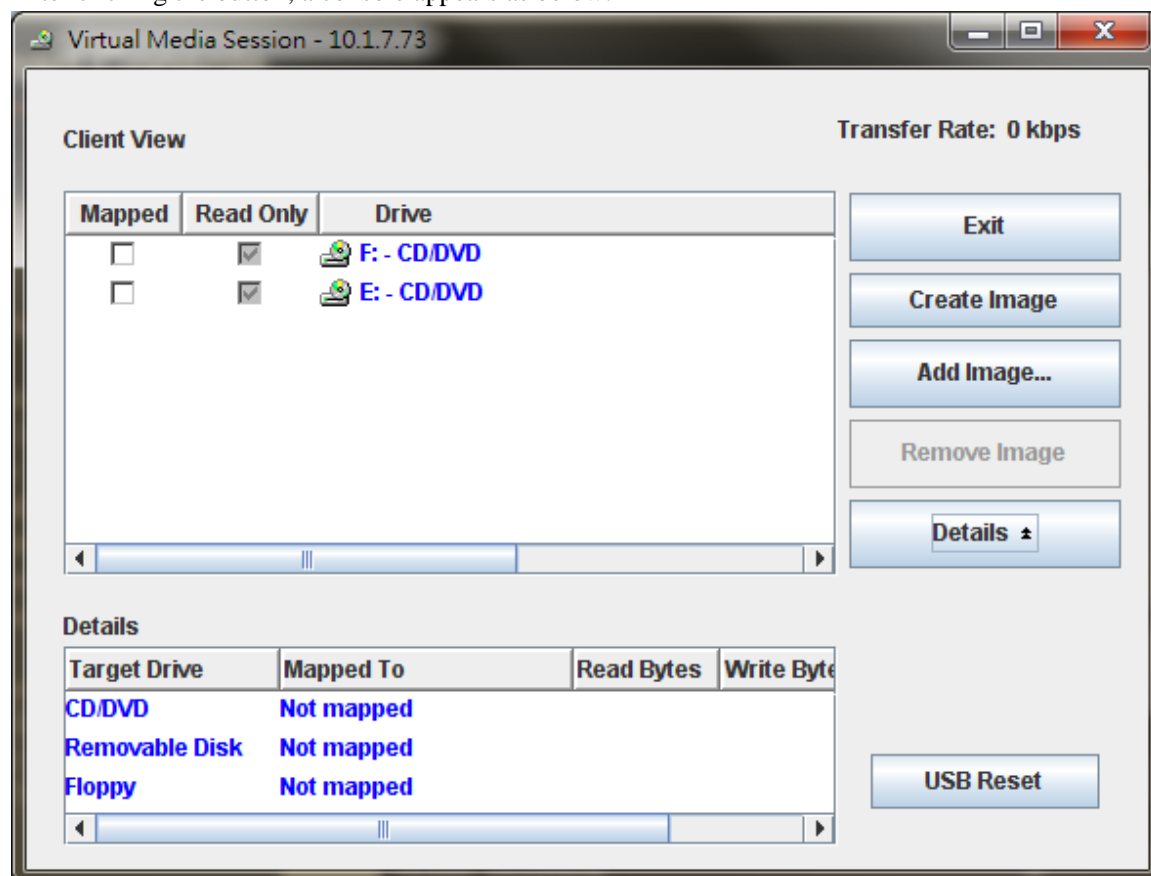


For KVM and remote redirection detail function description, please go to chapter:

### **KVM Function Description**

## Launch Java VM Client

Click **Launch Java VM Client** to launch the redirection console and manage the local computer. After clicking the button, a console appears as below:



Function Item	Resulting Action
Mapped	Check the mapped box next to the drive types you want to connect.
Create Image...	Click the <b>Create Image...</b> button and create to the image.
Add Image...	Click the <b>Add Image...</b> button and browse to the image.
Remove Image	Click the <b>Remove Image...</b> button and remove to the image.
Exit	Click <b>Exit</b> button to terminate the Media Redirection wizard.
Details	Click <b>Details</b> to see more information of the image.
USB Reset	Click <b>USB Reset</b> to reset the USB.

## Console Redirection Configuration

This screen allows you to configure the Remote Console settings. Check the Virtual KVM Configuration **Enabled** box or Virtual Media Configuration **Enabled** box, and select the **Max Sessions**, **Remote Port**, **Video Encryption Enabled**, and **Preference Client** from the drop-down list. After you finish the configuration, click “Apply Change” to save the settings.

The screenshot displays the Gigabyte Content Management System interface. At the top, the header includes "Gigabyte Content Management System" on the left, "Support Help About Logout" on the right, and a user status bar showing "Welcome root (Administrator) !" and "Wed Oct 12 2011 16:31:41". The main content area is titled "Virtual Remote Console and Media Configuration" and features an "Apply Changes" button. Below the title, a note states: "Use this page to configure Virtual KVM and Virtual Media." The configuration is divided into two sections: "Virtual KVM Configuration" and "Virtual Media Configuration".

Virtual KVM Configuration	
Enabled	<input checked="" type="checkbox"/>
Max Sessions	6
Remote Port	2068
Video Encryption Enabled	<input checked="" type="checkbox"/>
Preferred Client Type	Java

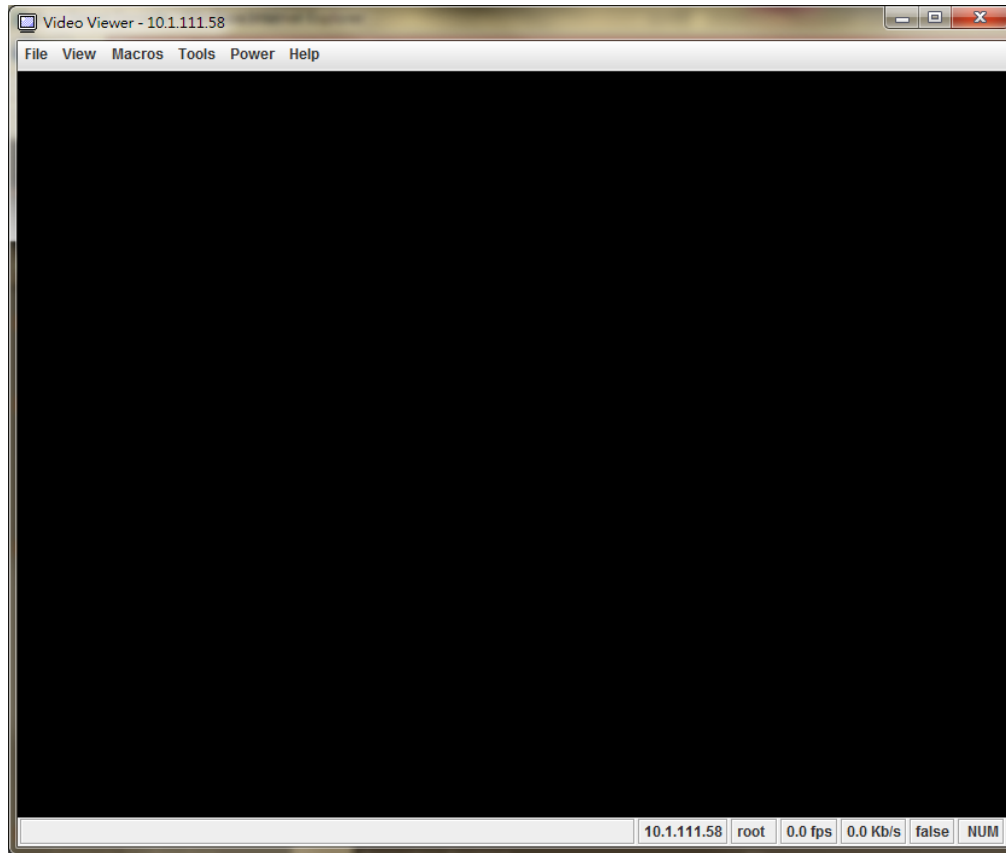
  

Virtual Media Configuration	
Encryption Enabled	<input type="checkbox"/>
Preferred Client Type	Java

The left sidebar contains a navigation menu with the following items: Gigabyte Content Management System, Properties, Configuration (Network, Network Security, Security, Users, Services, IPMI, Time Settings), Sessions, LDAP, Update, Utilities, Server Information (Power, Control, Voltages, Thermal, Fans, Temperatures, System Event Log), Event Management (Platform Events, Trap Settings, Email Settings), Serial Over LAN, and Remote Control (Remote Console Configuration).

## KVM Function Description

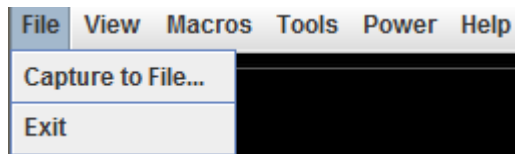
After selecting **KVM Remote Console Redirection** button, system will lead you to the main menu of KVM window which is shown as below:



### Main Menu

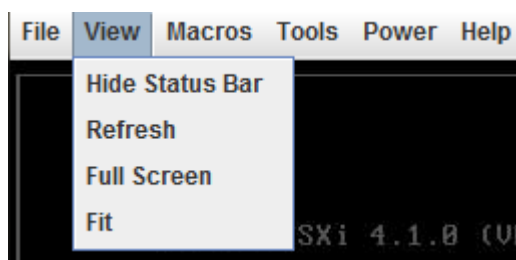
The items in the main menu will be described in the following sections..

#### File



Menu Item	Resulting Action
File→Capture to File	Save s a snapshot of the target's desktop to a file.
File→Exit	Terminate the KVM session and close.

## View

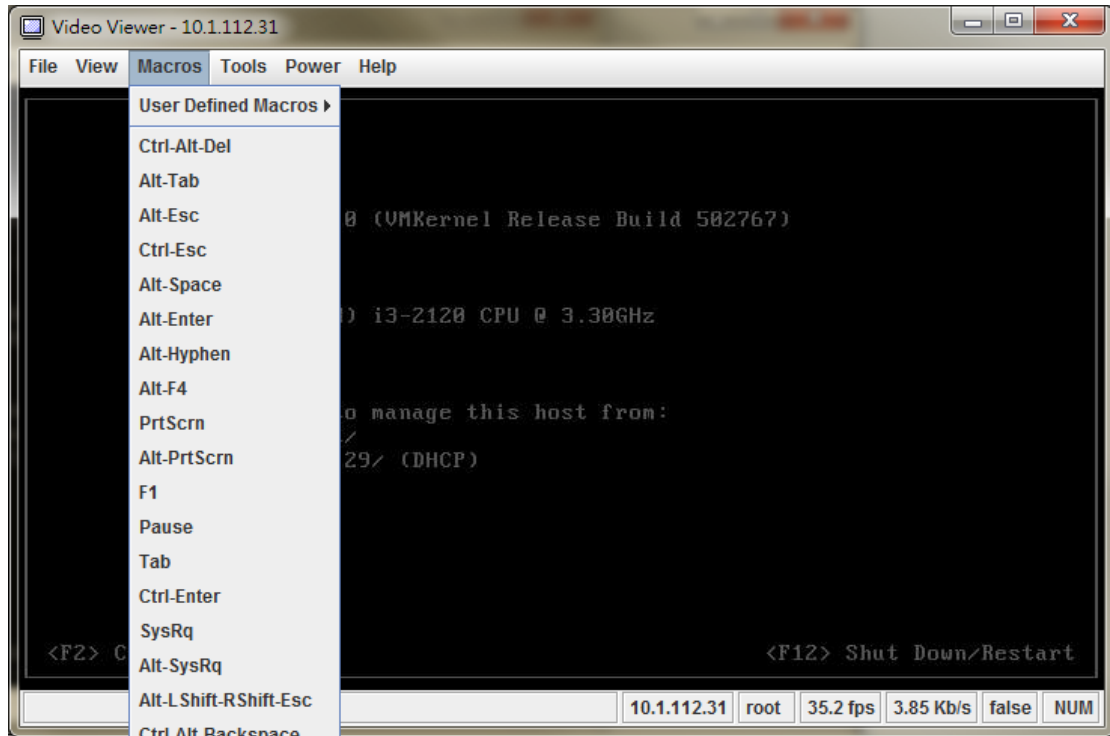


Menu Item	Resulting Action
View → Hide/Show Status Bar	Hide / Show the status bar which includes "Session IP address", "Session Username", "Frame Rate", and "Bandwidth".
View → Refresh	Sends a request to the KVM server asking for a reference screen.
View → Full Screen	Will switch to full screen mode. This menu is only available when not in full screen mode.
View → Fit	Resized the window to the size needed to completely display the targets desktop without an extra border or scrollbars. This will only work if the client desktop is large enough to accommodate the resized window.

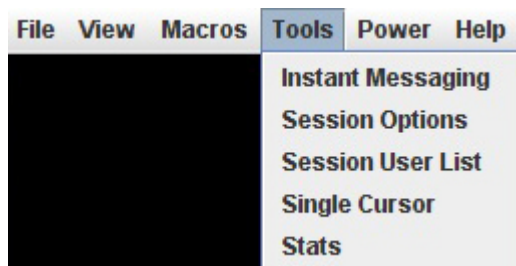
## Marcos

Macros are a mechanism to send keystrokes to the target that the user may otherwise not be able to send. One of the most obvious examples of this is the Ctrl-Alt-Del sequence under Window. Because this sequence of keystrokes is intercepted by the Windows OS, the KVM client will never receive the complete sequence and can therefore never send them to the target through normal keyboard operation. The solution to this is to provide an alternate mechanism for generate these keystrokes. We refer to these keystroke sequences as macros.

The list of supported macros is as follows:



## Tools

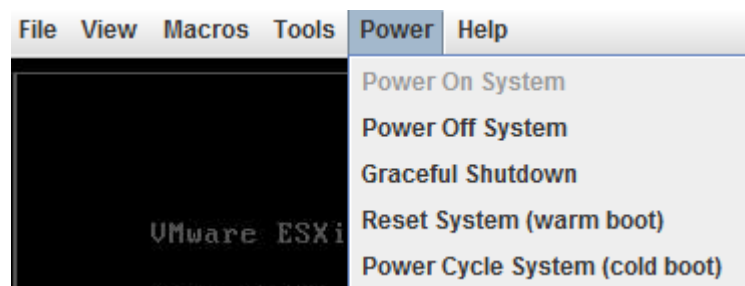


Menu Item	Resulting Action
Tools → Instant Messaging	This will bring up the instant message.
Tools → Session Options	This will bring up the session options dialog. The session options provide the configuration of <b>Keyboard pass through mode, Mouse, and Video Quality</b> .
Tools → Session User List	This will display all shared KVM users name.
Tools → Single Cursor	Causes the viewer to enter single cursor mode.

Tools → Stats

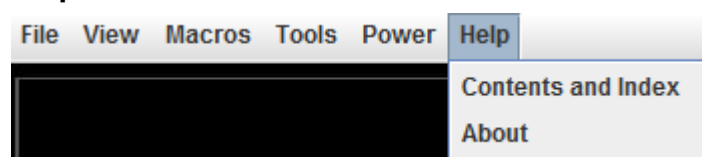
Will display the performance statistics dialog.

## Power



Menu Item	Resulting Action
Power → Power On System	Turns the power on.
Power → Power Off System	Turns the power off.
Power → Graceful Shutdown	Issue a graceful shutdown command to the target.
Power → Reset System (warm boot)	Issues a reboot command to the target. Target will reboot without powering off.
Power → Power Cycle System (cold boot)	This will power cycle the target by turning the power off for a short period of time and then back on again.

## Help



Menu Item	Resulting Action
Help → Contents and Index	Will cause the viewer help to be displayed.
Help → About	Will display a dialog with the product name, version, and copyright notices.