



ASRock Rack Server Management Utility

User Guide

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Revision History

Revision Number	Description	Revision Date
2.8.0-001	● First release.	August 2025

1.0 Introduction

ASRock Rack Serve Management Utility is a management tool that monitors the ASRock Rack Server Rack/Mainboard products over ethernet. Users can monitor system status and control these servers from the remote host with this utility.

This utility is mainly based on the services provided by the BMC (Baseboard Management Controller) integrated on the ASRock Rack Server Rack/Mainboard products, through the BMC services including IPMI (Intelligence Platform Management Interface), Web Services and DMTF Redfish API.

1.1 Terminology

Abbreviation	Definition
API	Application Programming Interface
BIOS	Basic Input Output System
BMC	Baseboard Management Controller
DMTF	Distributed Management Task Force
FRU	Filed Replaceable Unit
IPMI	Intelligence Platform Management Interface
KVM	Keyboard, Video and Mouse
PEF	Platform Event Filter
POST	Power-On Self-Test
SEL	System Event Log
SMBIOS	System Management BIOS
SNMP	Simple Network Management Protocol

NOTE

All screenshots in this document are provided for illustrative purposes only and may vary from the actual product.

2.0 Server Management Interface

This chapter provides information about ASRock Rack Server Management Utility and description for each item.

2.1 Management Interface

After launch the Server Management Utility, the tool should be start as below picture.

Figure 1. ASRock Rack Server Management Utility Interface



The fields on the Group Configuration interface include

- **Group:** Specific a group name for the to be added servers.
- **IP Range:** Specific an IP address or a Range of IP address for the to be added servers.
- **Exclude:** Specific an IP address or Range of IP Address for the do not added servers while using IP address range to adding the servers.
- **Remove Range (🗑️):** Click the **Remove Range** button to remove the added IP or IP range listed on the group configuration.
- **New Range (+):** Click the **New Range** button to add a new range setting into the group configuration.
- **New (📄 New):** Click the **New** button to add the specific servers with users provide information.
- **Save (💾 Save):** Click the **Save** button to save the modified IP settings of IP Range and Exclude for the created group.
- **Cancel (🗑️ Cancel):** Click the **Cancel** button to discard the current change of IP Range and Exclude.

NOTE

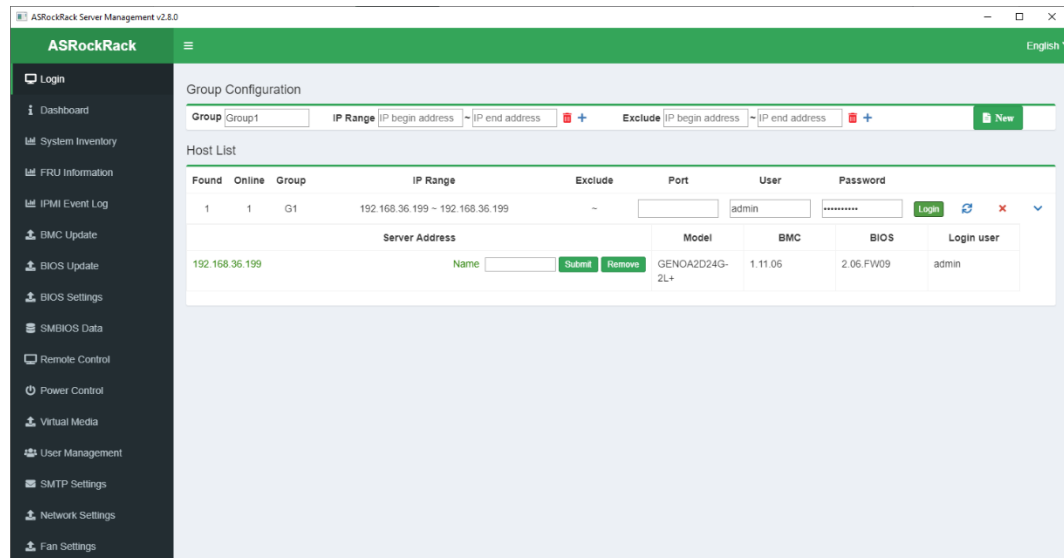
- Specific the monitored server IP address or range of IP address, and specific the excluded server IP address or range of IP address and the Group name if needed, then click the **New** button to add the monitored server into the Host List.
- After add monitored server into the Host List, users can click the instance listed on the Host List then re-configure the IP Rane, Exclude IP address and Group name on the Group

Configuration. Click the **Save** button to save the modified setting value or click the **Cancel** button to discard the current modified setting value.

2.2 Login

After add the monitored servers into the ASRock Rack Server Management Utility, the monitored servers should be listed on the utility, and users can login to the monitored server to monitor the server status through BMC services.

Figure 2. Host List Interface



The fields on the Host List interface includes

- **Found:** Indicates the number of monitored servers found within the IP range.
- **Online:** Indicates the number of monitored servers online within the IP range.
- **Group:** Indicates the name of group.
- **IP Range:** Indicates the IP address or IP address range for the monitored servers.
- **Exclude:** Indicates the excluded IP address or IP address range of this group.
- **Port:** Specific the session port number of this monitored server. Default port number is 443.
- **User:** BMC user account.
- **Password:** BMC user password.
- **Login (Login):** Click the **Login** button to login the monitored server.
- **Scan (Scan):** Click the **Scan** button to search the server on the specific IP or IP range.
- **Delete (X):** Click the **Delete** button to remove this group.
- **Show Details (v):** Click the **Show Details** button to shows more information of the group.
- **Server Address:** The IP address of found servers in the specific group.
- **Name:** Specific the alias name for this server.
- **Submit (Submit):** Click the **Submit** button to add the alias name to the

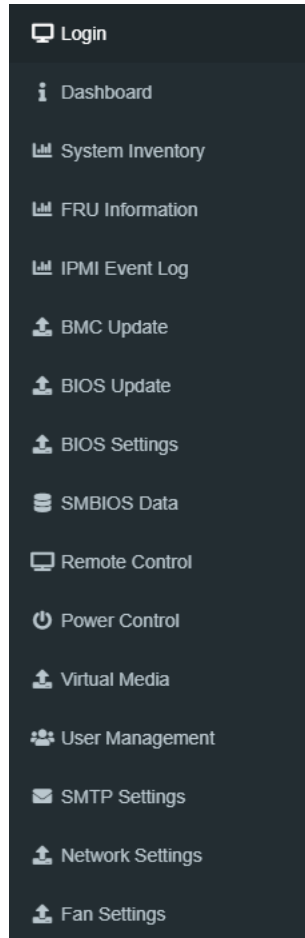
- specific server.
- **Remove (Remove)**: Click the **Remove** button to remove the alias name of the specific server.
- **Model**: The model name of this server.
- **BMC**: The BMC version of this server.
- **BIOS**: The BIOS version of this server.
- **Login User**: The current login user account of this server.

2.3 Menu Bar

ASRock Rack Server Management utility provides a Menu Bar for users to quickly invoke the specific feature from the menu bar tabs.

The Menu Bar is located on the left side of the utility and appears when the user login to the monitored host.

Figure 3. Menu Bar



The Menu Bar provides the feature tabs includes

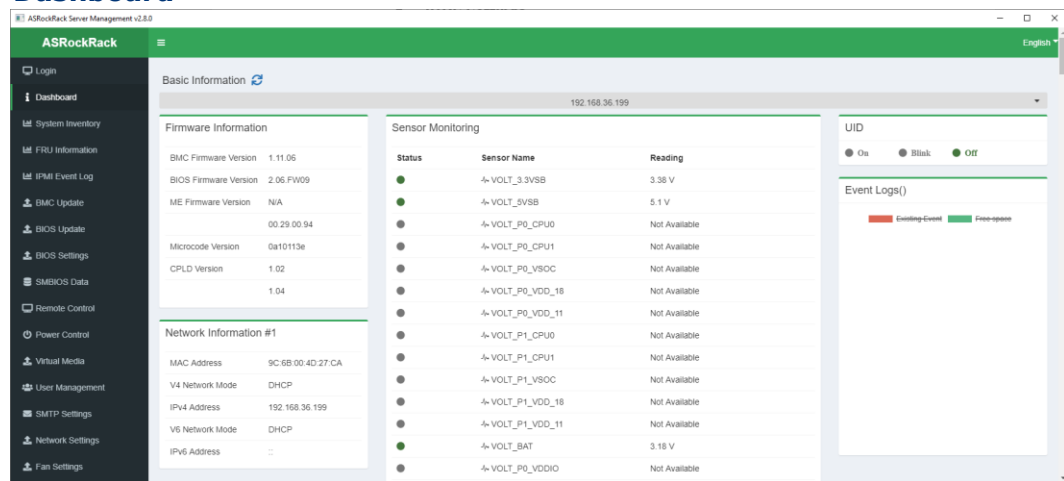
- **Dashboard**
- **System Inventory**
- **FRU Information**
- **IPMI Event Log**

- **BMC Update**
- **BIOS Update**
- **BIOS Settings**
- **SMBIOS Data**
- **Remote Control**
- **Power Control**
- **Virtual Media**
- **User Management**
- **Network Settings**
- **FAN Settings**

2.4 Dashboard

Dashboard provides various information of monitored host for users to monitor the host status, including Firmware Information, Network Information, Sensor Monitoring, UID and Event Logs.

Figure 4. Dashboard



The fields on the Dashboard includes

- **Refresh (↻):** Click the **Refresh** button to updates the information that listed on the Dashboard.
- **Drop-down List (Please select one server):** Select a monitored host from the **Drop-down List** to view the information.
- **Firmware Information**
 - **BMC Firmware Version:** Indicates the BMC firmware version of this host.
 - **BIOS Firmware Version:** Indicates the BIOS firmware version of this host.
 - **ME Firmware Version:** Indicates the ME firmware version (with Intel platform mainboard) or PSP firmware version (with AMD platform mainboard) of this host.
 - **Microcode Version:** Indicates the CPU Microcode version of this host.
 - **CPLD Version:** indicates the CPLD firmware version of this host.
- **Network Information**
 - **MAC Address:** Indicates the BMC MAC address of this host.
 - **V4 Network Mode:** Indicates the BMC V4 network mode of this

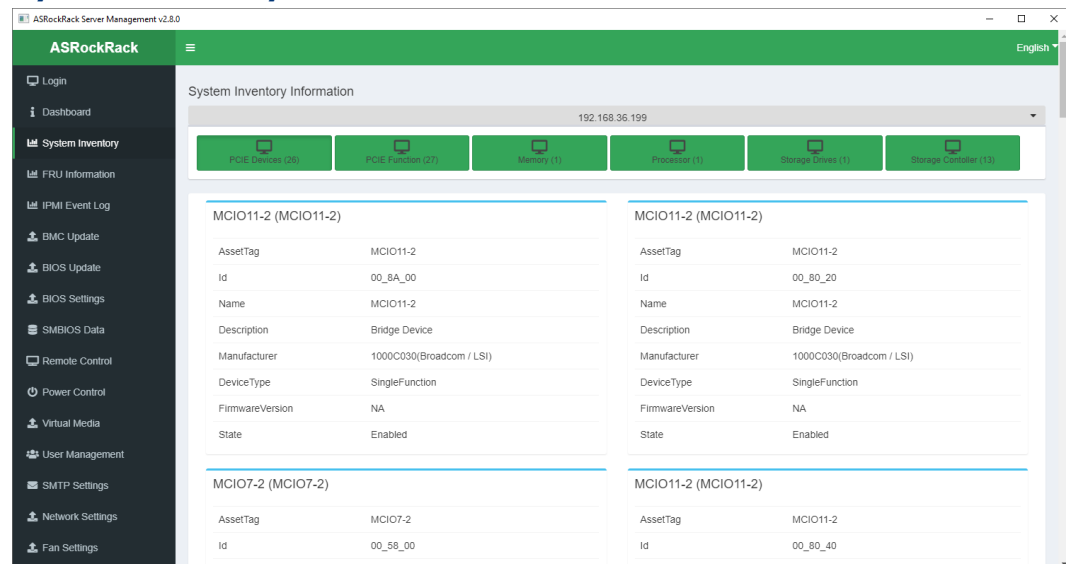
- **IPv4 Address:** Indicates the BMC IPv4 Address of this host.
 - **V6 Network Mode:** Indicates the BMC V6 network mode of this host.
 - **IPv6 Address:** Indicates the BMC IPv6 address of this host.
- **Sensor Monitoring:** Lists the Sensors and its status and value of this host.
- **UID:**
 - **On:** Click **On** option to turn on the UID LED on the monitored host.
 - **Blink:** Click **Blink** option to blinking the UID LED on the monitored host.
 - **Off:** Click **Off** option to turn off the UID LED on the monitored host.
- **Event Log:** Lists the all event logs on this host in a graphical representation.

2.5 System Inventory

The System Inventory provides the device information on the mainboard of monitored host, such as CPU, Memory, PCIe device, Storage device, etc.

Click on the listed component icon to displays more details information.

Figure 5. System Inventory



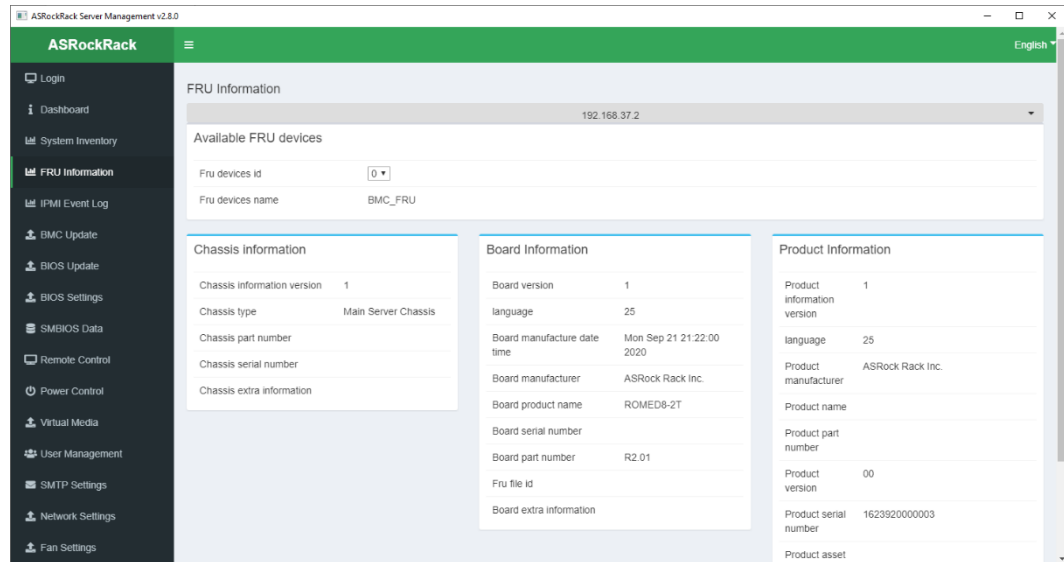
NOTE

- The information will be updated after system BIOS POST. Restart the system if no information displayed on the screen.
- The device information is vary based on the mainboard and installed device.

2.6 FRU Information

The FRU Information provides the FRU (Field Replaceable Unit) information which stored in the FRU device, including Chassis Information, Board Information and Product Information.

Figure 6. FRU Information



The fields on the FRU Information includes

- **Drop-down List (Please select one server)**: Select a monitored host from the **Drop-down List** to view the information.
- **FRU Device ID**: Select the supported FRU device from the list.
- **FRU Device Name**: Indicates the selected FRU device name.
- **Chassis Information**
 - **Chassis Information Version**
 - **Chassis Type**
 - **Chassis Part Number**
 - **Chassis Serial Number**
 - **Chassis Extra Information**
- **Board Information**
 - **Board Version**
 - **Language**
 - **Board Manufacture Data Time**
 - **Board Manufacture**
 - **Board Product Name**
 - **Board Serial Number**
 - **Board Part Number**
 - **FRU File ID**
 - **Board Extra Information**
- **Product Information**
 - **Product Information Version**
 - **Language**
 - **Product Manufacture**
 - **Product Name**
 - **Product Part Number**
 - **Product Version**
 - **Product Serial Number**
 - **Product Asset Tag**
 - **FRU File ID**
 - **Product Extra Information**

2.7

IPMI Event Log

The IPMI Event Log provides the information of event logs recorded on the BMC of monitored host.

Figure 7. IPMI Event Log

Event ID	Timestamp	Sensor Name	Sensor Type	Record Type	Description
1	08/09/2025, 20:32:36	SEL	event_logging_disabled	system_events	Log Area Reset/Cleared
2	08/09/2025, 20:36:31	PowerUnit	power_unit	system_events	Power Off / Power Down
3	08/09/2025, 20:39:32	PowerUnit	power_unit	system_events	Power Off / Power Down
4	08/09/2025, 20:45:41	PowerUnit	power_unit	system_events	Power Off / Power Down
5	01/01/2000, 08:00:13	STS_PSU_L1	power_supply	system_events	Presence detected
6	01/01/2000, 08:00:13	STS_PSU_L2	power_supply	system_events	Presence detected
7	01/01/2000, 08:00:13	STS_PSU_L3	power_supply	system_events	Presence detected
8	01/01/2000, 08:00:13	STS_PSU_L4	power_supply	system_events	Presence detected
9	01/01/2000, 08:00:13	STS_PSU_R1	power_supply	system_events	Presence detected
10	01/01/2000, 08:00:13	STS_PSU_R2	power_supply	system_events	Presence detected

The fields on the IPMI Event Log includes

- **Drop-down List (Please select one server)**: Select a host from the **Drop-down List** to view the information.
- **BMC Time Zone**: Select **BMC Time Zone** option that timestamp of event log will using BMC Time Zone settings.
- **Client Time Zone**: Select **Client Time Zone** option that timestamp of event log will using Client Time Zone settings.
- **UTC Offset**: Indicates the UTC offset value of BMC Time Zone/Client Time Zone.
- **Records (10)**: Select the number from the records list and the corresponding number of log instance will be displayed.
- **Event ID**: Indicates the ID Number of event log.
- **Timestamp**: Indicates the timestamp of event log.
- **Sensor Name**: Indicates the name of sensor that triggers the event log.
 - **Select Sensor Name (Select sensor name)**: Select the specific sensor name from the list that the utility displays only the event log with specific sensor name.
- **Sensor Type**: Indicates the type of sensor that triggers the event log.
- **Record Type**: Indicates the type of record of specific event log.
 - **Select Record Type (Select record type)**: Select the specific sensor type from the list that utility only displays the event log with specific sensor type.
- **Description**: The description information of specific event log.
- **Clear Event Logs (Clear Event Logs)**: Click the **Clear Event Logs** button to deletes all event log.
- **Download Event Logs (Download Event Logs)**: Click the **Download Event Logs** button to save the event log data.

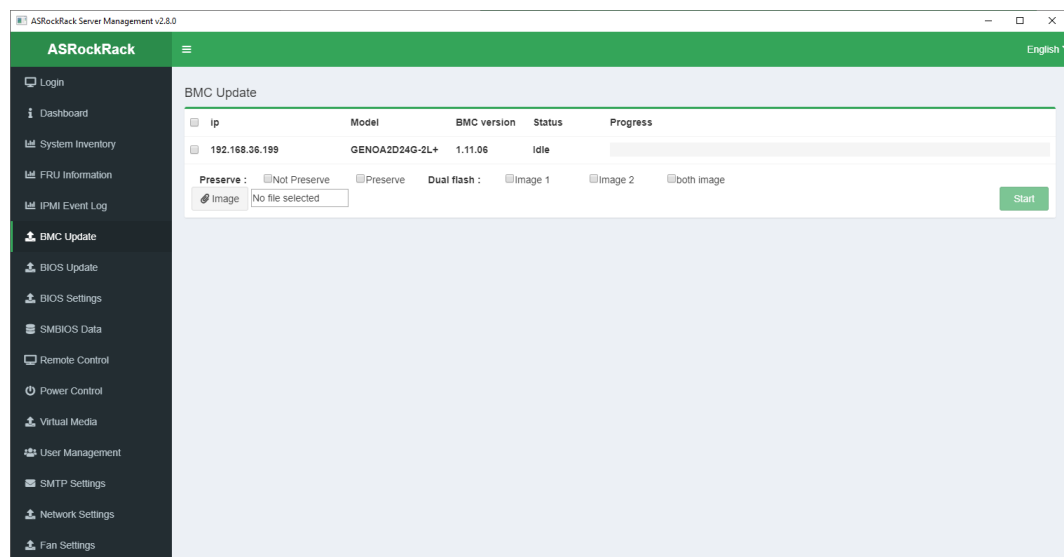
Group Host Action

- **IP:** The host IP address of this group.
- **Model:** The host model name of this group
- **BMC Version:** The BMC version of this group.
- **Checkbox:** Checked (☒) option to select this host or Uncheck (☐) the option to unselect this host.
- **Clear All Event Logs** (): After checked the host, click this button to clear event logs for the selected host.
- **Download All Event Logs** (): After checked the host, click this button to download event logs for the selected host.

2.8 BMC Update

The BMC Update provides the feature that users can update the BMC firmware through the Server Management utility.

Figure 8. BMC Update



The fields on the BMC Update includes

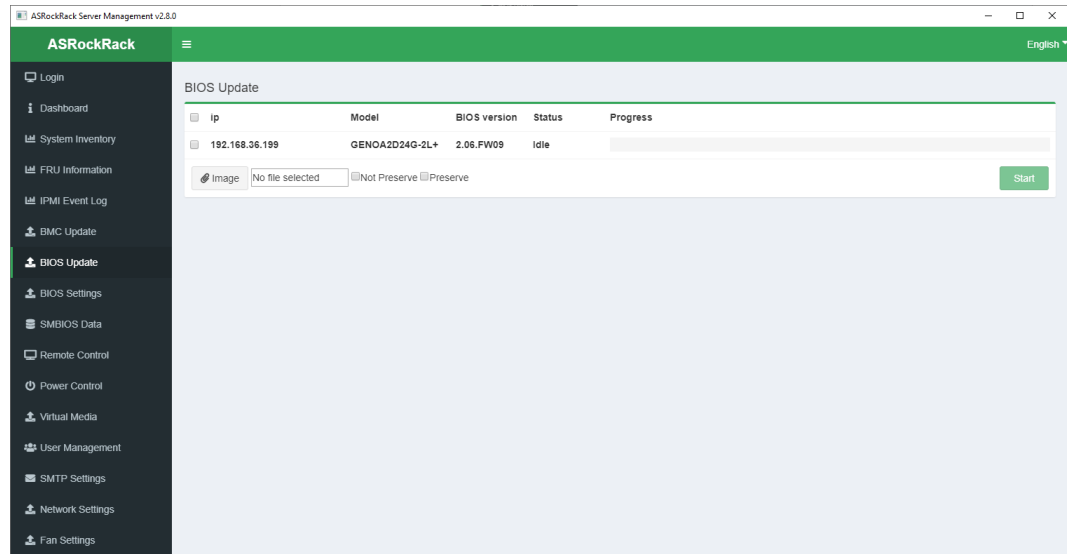
- **IP:** The IP address of this host. Click the checkbox of IP to select all hosts to perform BMC firmware update, or click the checkbox of specific IP address to perform BMC firmware update on specific host.
- **Model:** The model name of this host.
- **BMC Version:** The BMC firmware version of this host.
- **Status:** Indicates the BMC firmware update status.
- **Progress:** Indicates the progress of BMC firmware update process.
- **Preserve:**
 - **Not Preserve:** Delete all settings values in BMC during firmware update.
 - **Preserve:** Preserve all settings values in BMC during firmware update.
- **Dual Flash:**
 - **Image 1:** Update firmware image into first ROM.
 - **Image 2:** Update firmware image into second ROM.
 - **Both Image:** Update firmware image into both ROM.
- **Image** (): Select the updated image from remote host.

- **Start ():** Click the **Start** button to start the firmware update process.

2.9 BIOS Update

The BIOS Update provides the feature that users can update the BIOS firmware through the Server Management utility.

Figure 9. BIOS Update



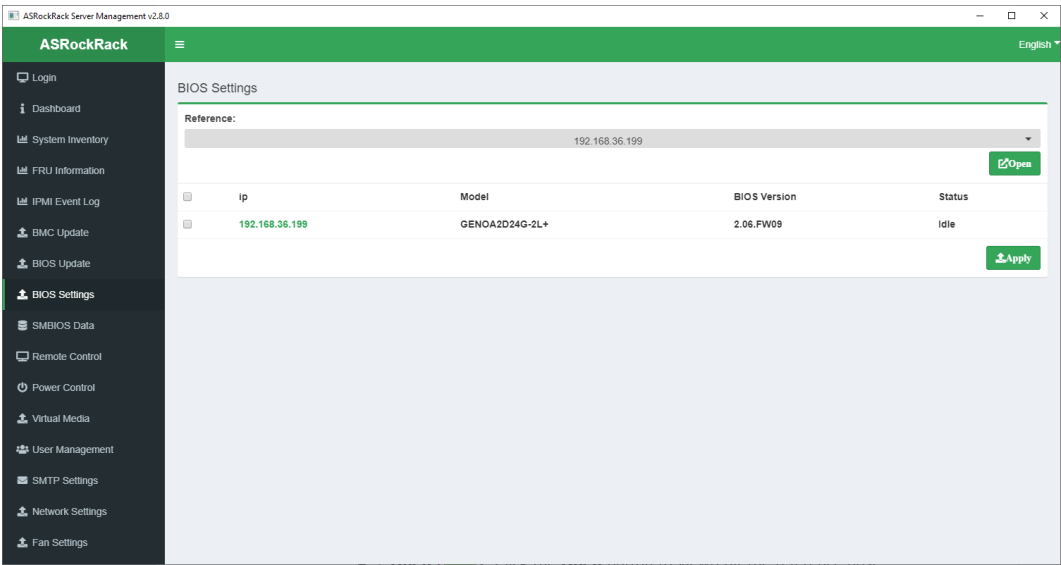
The fields on the BIOS Update includes

- **IP:** The IP address of this host. Click the checkbox of IP to select all hosts to perform BIOS firmware update, or click the checkbox of specific IP address to perform BIOS firmware update on specific host.
- **Model:** The model name of this host.
- **BIOS Version:** The BIOS firmware version of this host.
- **Status:** Indicates the BIOS firmware update status.
- **Progress:** Indicates the progress of BIOS firmware update process.
- **Not Preserve:** Delete all settings values in BIOS firmware during firmware update.
- **Preserve:** Preserve all settings values in BIOS firmware during firmware update.
- **Image ():** Select the updated image from remote host.
- **Start ():** Click the **Start** button to start the firmware update service.

2.10 BIOS Setting

The BIOS Settings provides the feature that users can configure the BIOS settings value through the Server Management utility.

Figure 10. BIOS Setting



The fields on the BIOS Settings includes

- **Reference:** Select a reference host from the drop-list to edits the BIOS settings value, then users can apply the reference host BIOS settings values to others monitored hosts in the same group.
- **Open ( Open):** Click the **Open** button to view or edit the reference host BIOS settings values.
- **IP:** The IP address of this host. Click the checkbox of IP to select all hosts to perform syncs BIOS settings values with reference host, or click the checkbox of specific IP address to perform syncs BIOS settings values with reference host.
- **Model:** The model name of this host.
- **BIOS Version:** The BIOS firmware version of this host.
- **Status:** Indicate the sync status of BIOS settings.
- **Apply ( Apply):** Click the **Apply** button and applies the BIOS settings values from reference server to the other selected monitored hosts.

NOTE

- After changes the BIOS settings value, the value will affect at the next system POST.
-

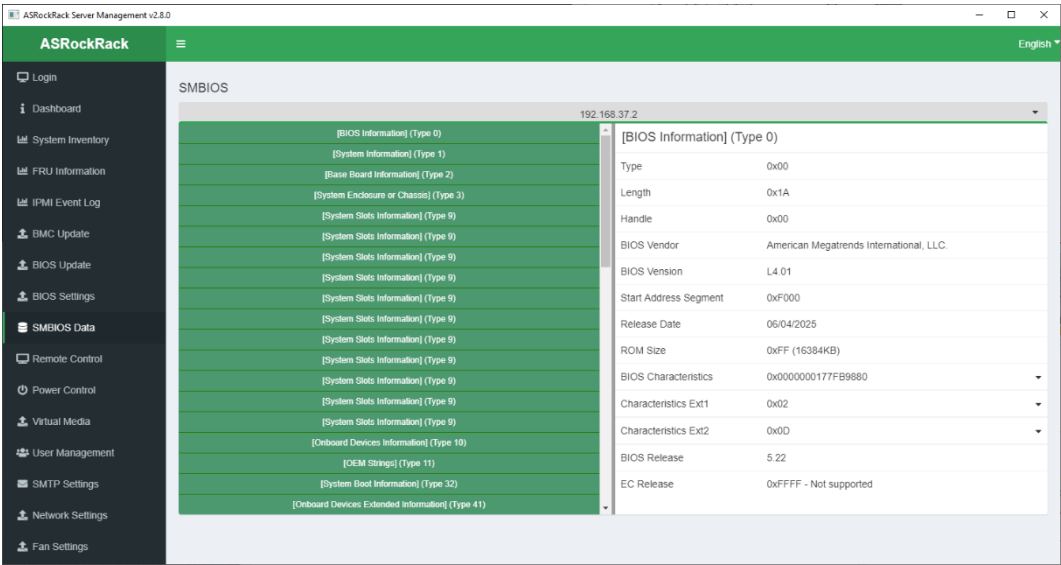
Figure 11. BIOS Settings Interface



2.11 SMBIOS Data

The SMBIOS Data provides the feature that users can view the monitored host SMBIOS information from the Serve Management utility.

Figure 12. SMBIOS Data



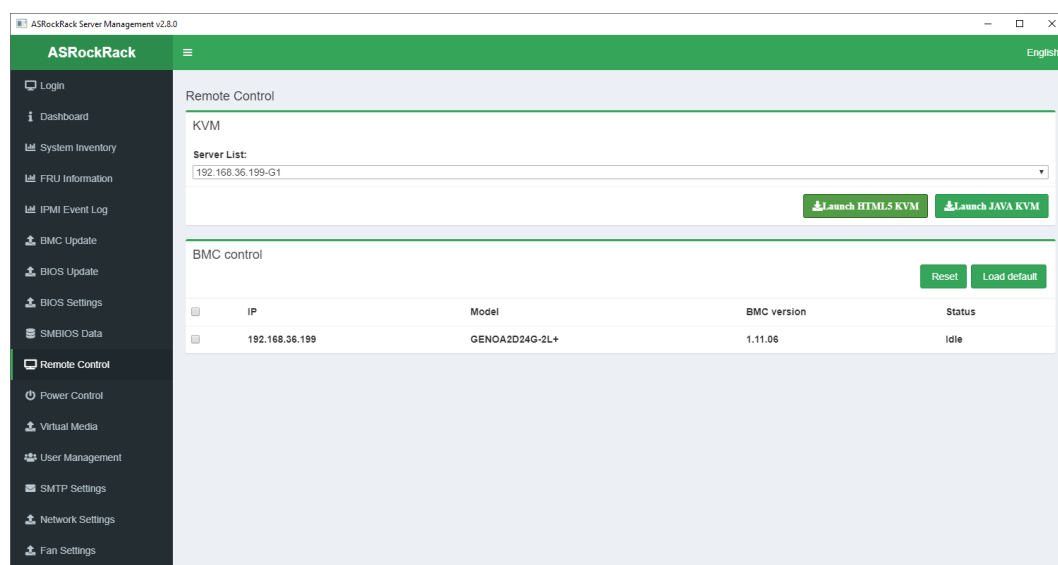
NOTE

- The monitored host must be powered-on and boot into BIOS UEFI Shell or host operating system to receive the SMBIOS information from BIOS.

2.12 Remote Control

The Remote Control provides the feature that users can remote access the monitored host through Server Management utility, including invokes HTML5 KVM, JAVA KVM, perform the BMC reset and BMC load default settings.

Figure 13. Remote Control



The fields on the Remote Control includes

- **KVM**
 - **Server List:** Select a monitored host from the drop-down list which to launch KVM service.
 - **Launch HTML5 KVM (Launch HTML5 KVM):** Click the **Launch HTML5 KVM** button to launch the HTML5 KVM service on browser.
 - **Launch JAVA KVM (Launch JAVA KVM):** Click the **Launch JAVA KVM** button to download the JNLP file then launch the JAVA KVM service.
- **IP:** The IP address of monitored host. Click the checkbox of IP to select all monitored hosts to perform BMC control action, or click the checkbox of specific IP address to perform BMC control action.
- **Model:** The model name of monitored host.
- **BMC Version:** The BMC firmware version of monitored host.
- **Status:** Indicate the status of performed the BMC control action.
- **Reset (Reset):** Click the **Reset button** to perform the reset BMC action.
- **Load Default (Load default):** Click the **Load Default** button to perform the BMC load default process.

Figure 14. HTML5 KVM

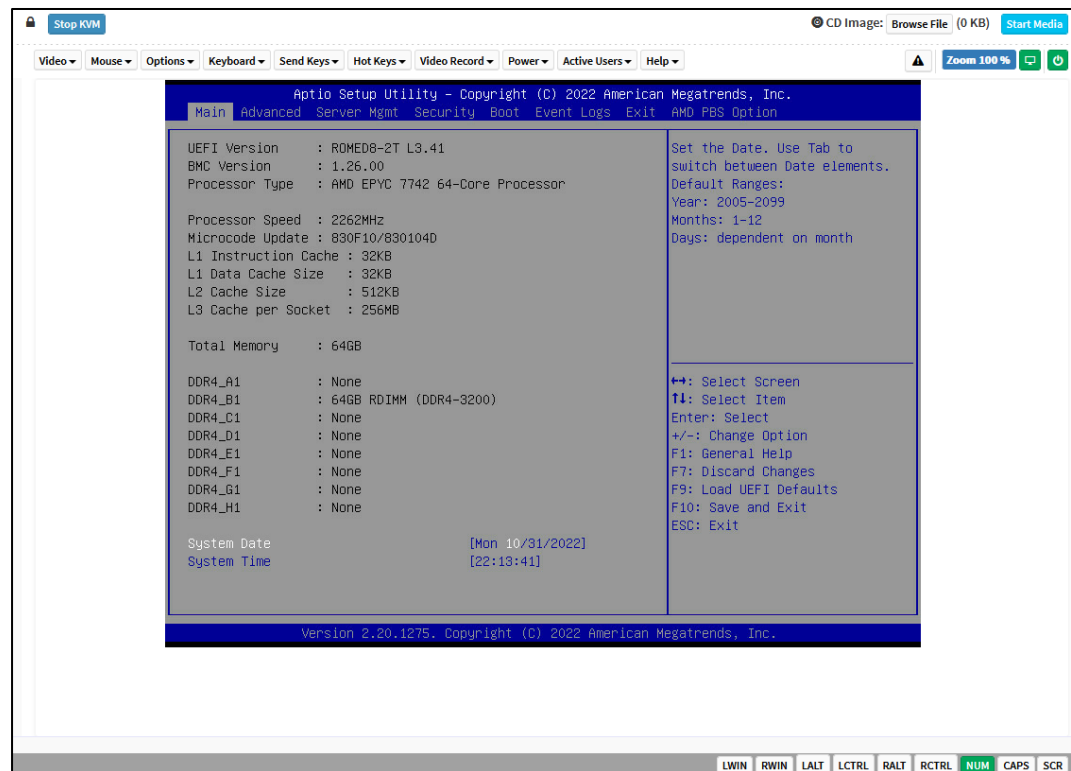
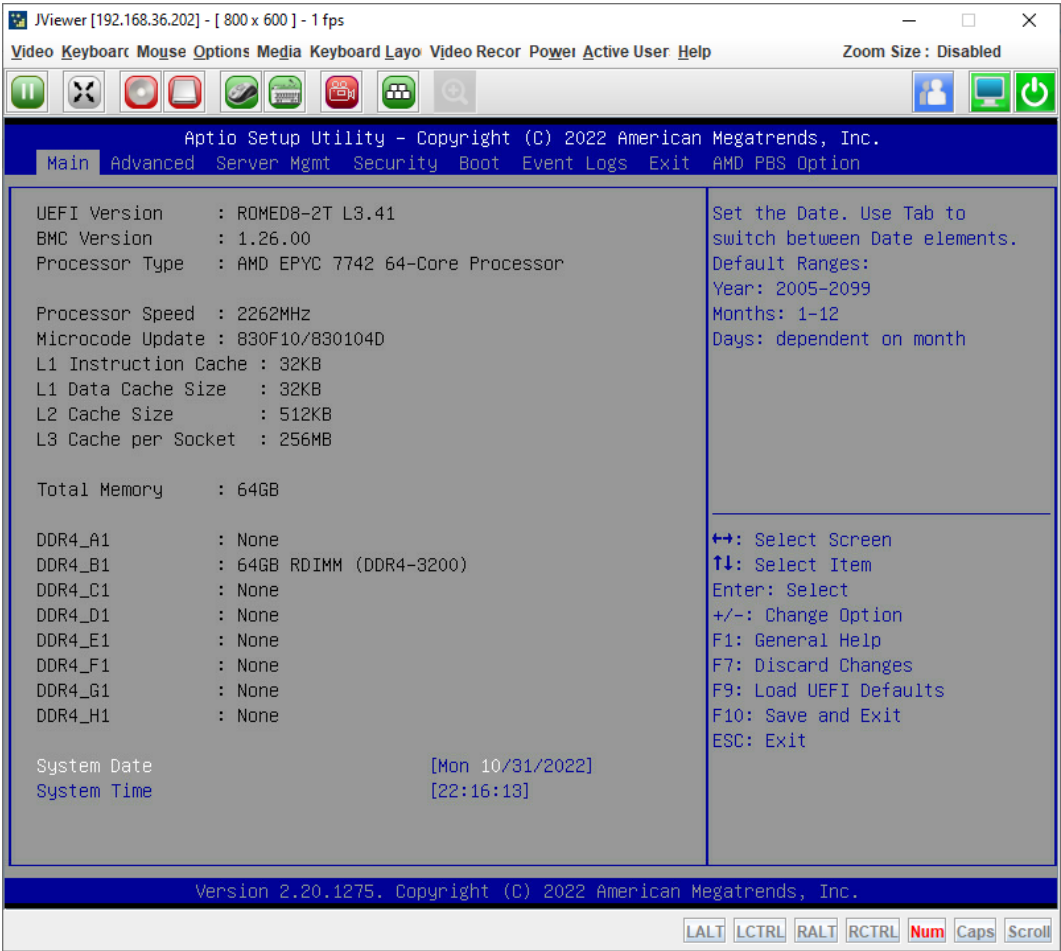


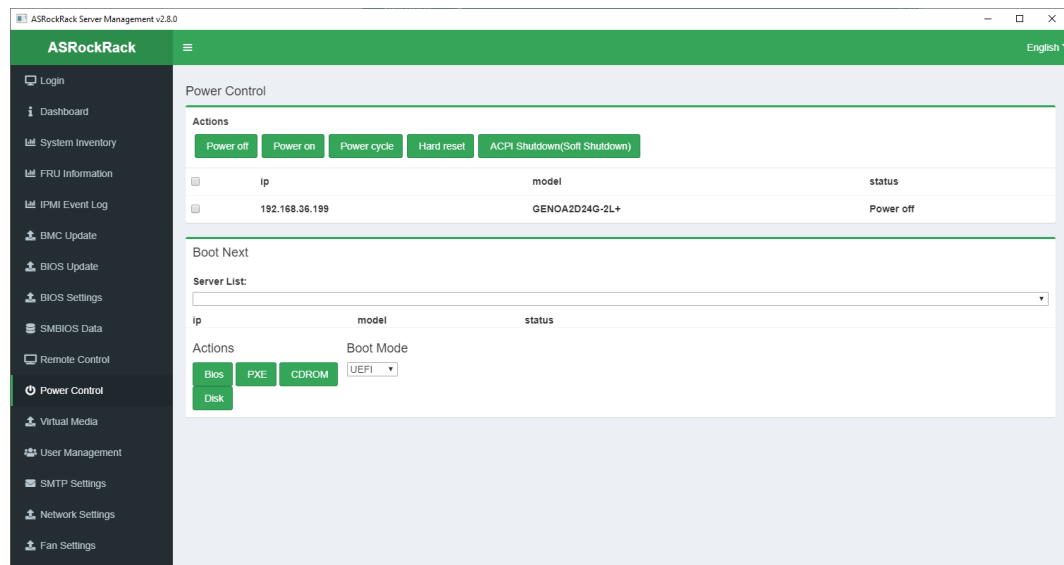
Figure 15. JAVA KVM



2.13 Power Control

The Power Control provides the feature that users can remote control the host power status and changes the BIOS next boot device.

Figure 16. Power Control



The fields on the Power Control includes

- **Actions**
 - **Power Off:** Perform power-off on the selected host.
 - **Power On:** Perform power-on on the selected host.
 - **Power Cycle:** Perform power cycle on the selected host.
 - **Hard Reset:** Perform hard reset on the selected host.
 - **ACPI Shutdown (Soft Shutdown):** Perform ACPI shutdown on the selected host.
- **IP:** The IP address of monitored host. Click the checkbox of IP to select all monitored hosts to perform Power Control action, or click the checkbox of specific IP address to perform Power Control action.
- **Model:** The model name of monitored host.
- **Status:** Indicate current power state of monitored host.

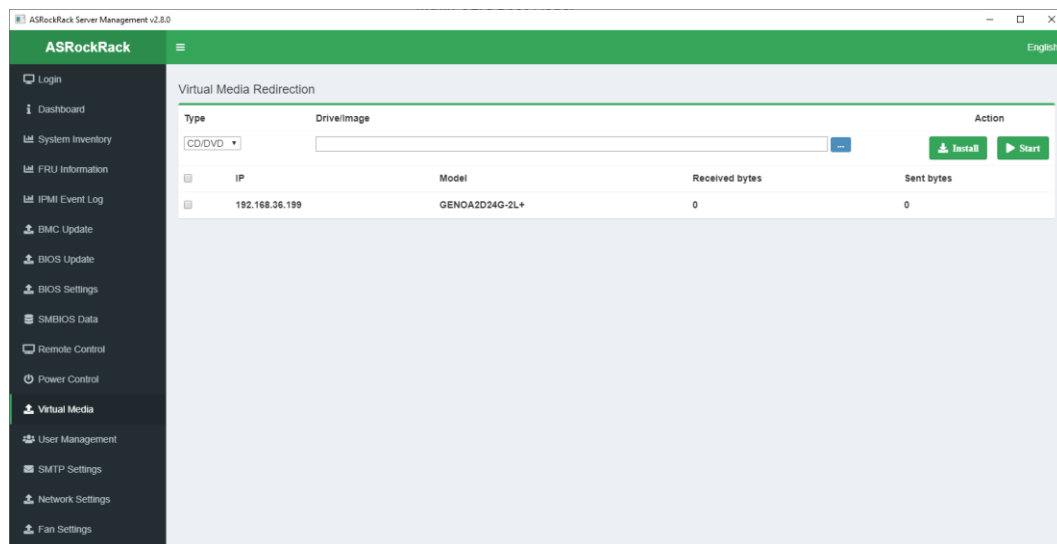
Boot Next

- **Server List:** Select the host from the drop-down list which to be perform the Boot Next action.
- **IP:** The IP address of this host.
- **Model:** The model name of this host.
- **Status:** Indicates the Boot Next perform action status of this host.
- **Actions**
 - **BIOS:** Click the **BIOS** button to set Boot Next action to BIOS.
 - **PXE:** Click the **PXE** button to set Boot Next action to PXE.
 - **CD-ROM:** Click the **CD-ROM** button to set Boot Next action to CD-ROM.
 - **Disk:** Click the **Disk** button to set Boot Next action to Disk.
- **Boot Mode**
 - **UEFI:** Select the UEFI then the selected action will be performed within UEFI Boot Mode.
 - **Legacy:** Select the Legacy then the selected action will be performed within Legacy BIOS Boot Mode.

2.14 Virtual Media

The Virtual Media provides the feature that users can remote mount the media through Server Management utility.

Figure 17. Virtual Media



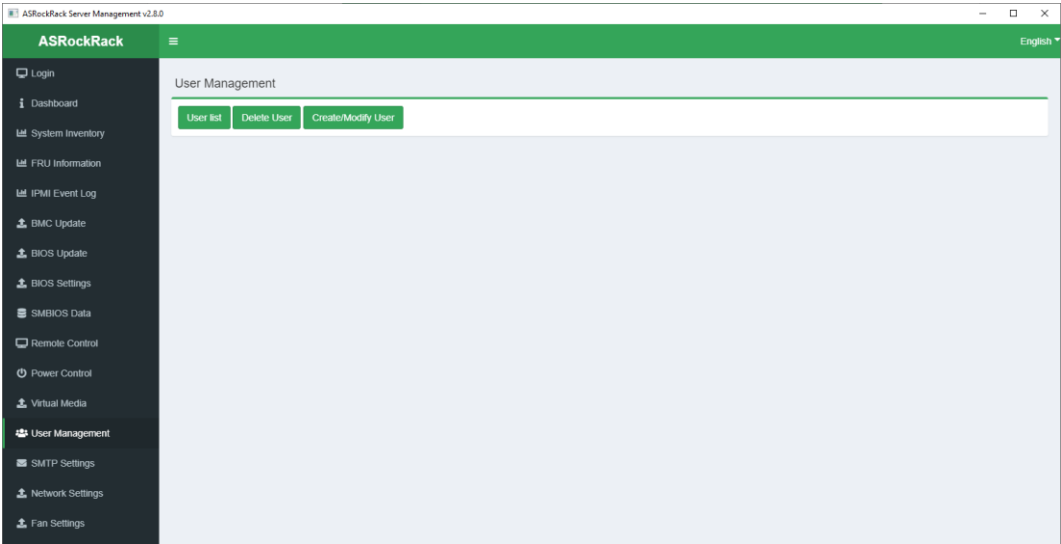
The fields on the Virtual Media includes

- **Type:** Select the media type either **CD/DVD** or **Hard Disk**.
- **Drive/Image:** Click the **Open File** (Open File icon) button to select the Drive/Image file form the client.
- **Action**
 - **Install** (Install icon): Click the **Install** button to reboot the host and boot to the virtual media.
 - **Start** (Start icon): Click the **Start** button to start redirect device.
 - **Stop** (Stop icon): Click the **Stop** button to stop redirect device.
- **IP:** The IP address of this host. Click the checkbox of IP to select all hosts to perform Virtual Media Redirection action, or click the checkbox of specific IP address to perform Virtual Media Redirection action.
- **Model:** The model name of this host.
- **Received Bytes:** Indicates the received bytes of this host BMC.
- **Sent Bytes:** Indicates the sent bytes of this host BMC.

2.15 User Management

The User Management provides the feature that users can View, Create, Modify or Delete the user accounts on BMC through the Server Management utility.

Figure 18. User Management



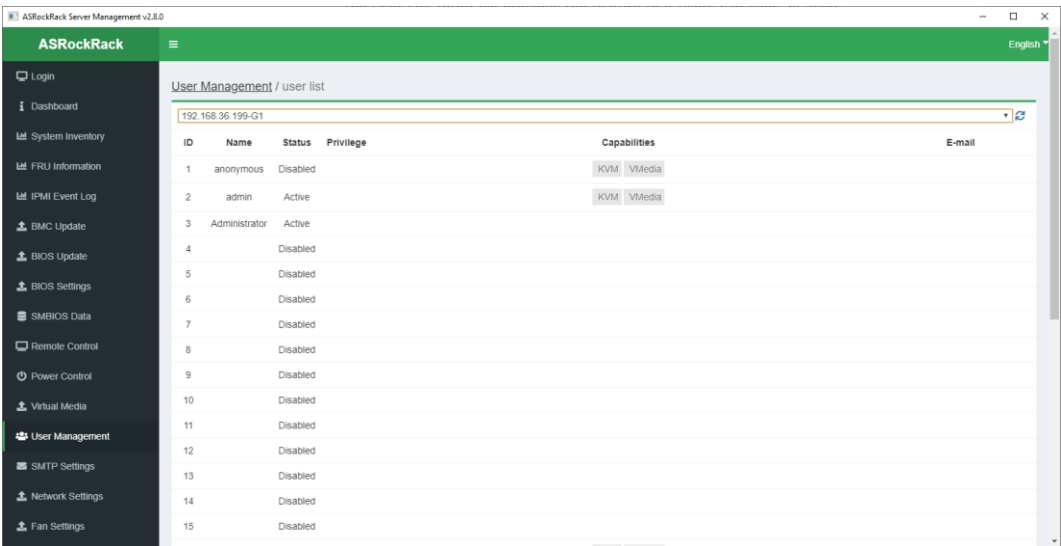
The fields on the User Management includes

- **User List** ([User List](#)): Click the **User List** button to launch the user list interface.
- **Delete User** ([Delete User](#)): Click the **Delete User** button to launch the Delete User interface.
- **Create/Modify User** ([Create/Modify User](#)): Click the **Create/Modify User** button to launch the Edit User interface.

2.15.1 User List Interface

The User List Interface provides the feature that users can view all users account information on the BMC through the Server Management utility.

Figure 19. User List Interface



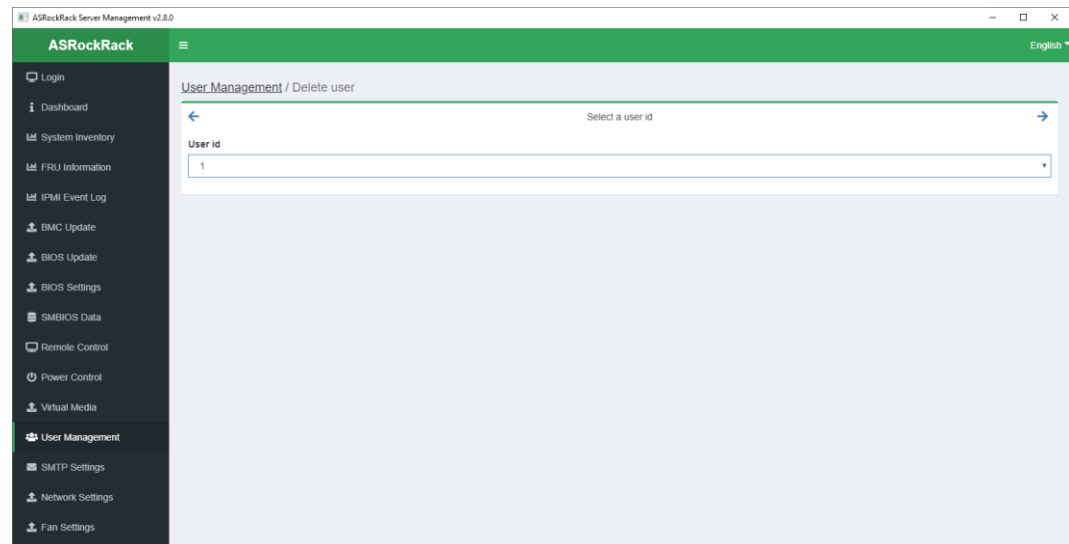
The fields on the User List Interface includes

- **Drop-List:** Select the monitored host from the drop-list to view the user list.
- **Refresh (↻):** Click the **Refresh** button and update the user list information.
- **ID:** Indicate the ID number.
- **Name:** Indicate the username for this user instance.
- **Status:** Indicate the account activation status for this user instance.
- **Privilege:** Indicate the privilege level for this user instance.
- **Capabilities:** Indicate the features enabled for this user instance.
- **E-Mail:** Indicate the E-mail address of this user instance.

2.15.2 Delete User Interface

The Delete User interface provides the feature that users can delete the user account on the BMC through the Server Management utility.

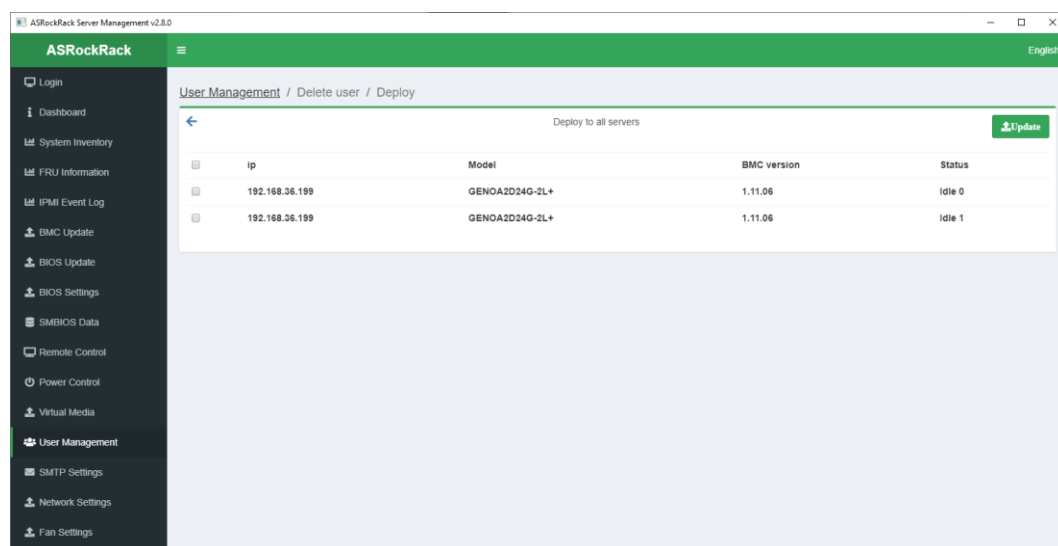
Figure 20. Select User ID on Delete User Interface



The fields on the Delete User includes

- **Back (←):** Click the **Back** button and back to previous page.
- **Next (→):** Click the **Next** button and go to next page.
- **User ID:** Select the User ID from the drop-down list to perform delete user action.

Figure 21. Select the Deploy Host to Delete User



The fields on the Delete User Deploy includes

- **IP:** The IP address of this host. Click the checkbox of IP to select all hosts to perform deploy delete user action, or click the checkbox of specific IP address to perform deploy delete user action.
- **Model:** The model name of this host.
- **BMC Version:** The BMC firmware version of this host.
- **Status:** Indicate the deploy status of this host.
- **Back (←):** Click the **Back** button and back to previous page.
- **Update (↗):** Click the **Update** button and deploy the delete user settings to selected host.

2.15.3 Edit User Interface

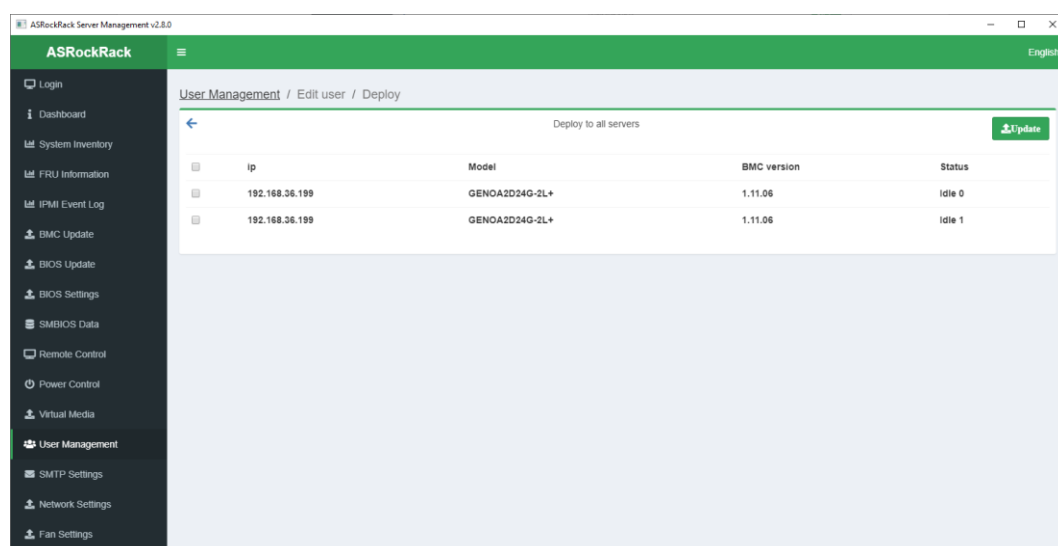
The Edit User Interface provides the feature that users can create or edit the user account on BMC through the Server Management utility.

Figure 22. Edit User Interface

The fields on the Edit User Interface includes

- **Back (←):** Click the **Back** button and back to previous page.
- **Next (→):** Click the **Next** button and go to next page.
- **User ID:** Select the User ID from the drop-down list.
- **Username:** Specify the Username for this account.
- **Password Size:** Select the preferred size for the password.
- **Password:** Specify the password for this account. The minimum of 8 characters is required.
- **Confirm Password:** Specify the password again for this account. The minimum of 8 characters is required.
- **Enabled User Access:** Check this option to activation this account.
- **Network Privilege:** Select the Network Privilege level from the drop-down list.
- **Serial Privilege:** Select the Serial Privilege level from the drop-down list.
- **KVM Access:** Check this option to enable the KVM access for this account.
- **VMedia Access:** Check this option to enable the VMedia access for this account.
- **E-mail Format:** Specify the format for the email.
This format will be used when sending emails. Two type of formats are available:
 - **AMI-Format:** The subject of this mail format is 'Alert from (your Hostname)'. The mail content includes sensor information, ex: Sensor type and Description.
 - **FixedSubject-Format:** This format displays the specific subject and message configured for email alerts for the specified user.
- **E-mail ID:** Specify the E-mail ID for this account.

Figure 23. Select the Deploy Host to Edit User



The fields on the Edit User Deploy includes

- **IP:** The IP address of this host. Click the checkbox of IP to select all hosts to perform deploy Edit User action, or click the checkbox of specific IP address to perform deploy Edit User action.
- **Model:** The model name of this host.
- **BMC Version:** The BMC firmware version of this host.
- **Status:** Indicate the deploy status of this host.
- **Back (←):** Click the **Back** button and back to previous page.
- **Update (↗):** Click the **Update** button and deploy the Edit User settings to selected monitored host.

2.16 SMTP Settings

The SMTP Settings provides the feature that users can configure the SMTP configuration on BMC through the Server Management utility.

Figure 24. SMTP Settings

The screenshot shows the ASRockRack Server Management v2.0.0 web interface. The left sidebar contains a navigation menu with the following items: Login, Dashboard, System Inventory, FRU Information, IPMI Event Log, BMC Update, BIOS Update, BIOS Settings, SMBIOS Data, Remote Control, Power Control, Virtual Media, User Management, SMTP Settings (highlighted), Network Settings, and Fan Settings. The main content area is titled 'SMTP Settings' and features a 'SMTP configuration' section with a 'Next' button. The configuration fields include: 'SMTP lan interface' (a dropdown menu), 'SMTP sender email id' (a text input field), 'Primary SMTP support' (a checked checkbox), 'SMTP server name' (a text input field), 'SMTP server ip' (a text input field), 'SMTP server port' (a text input field with the value '25'), 'SMTP secure port' (a text input field with the value '465'), 'SMTP authentication' (an unchecked checkbox), and 'SMTP username' (a text input field).

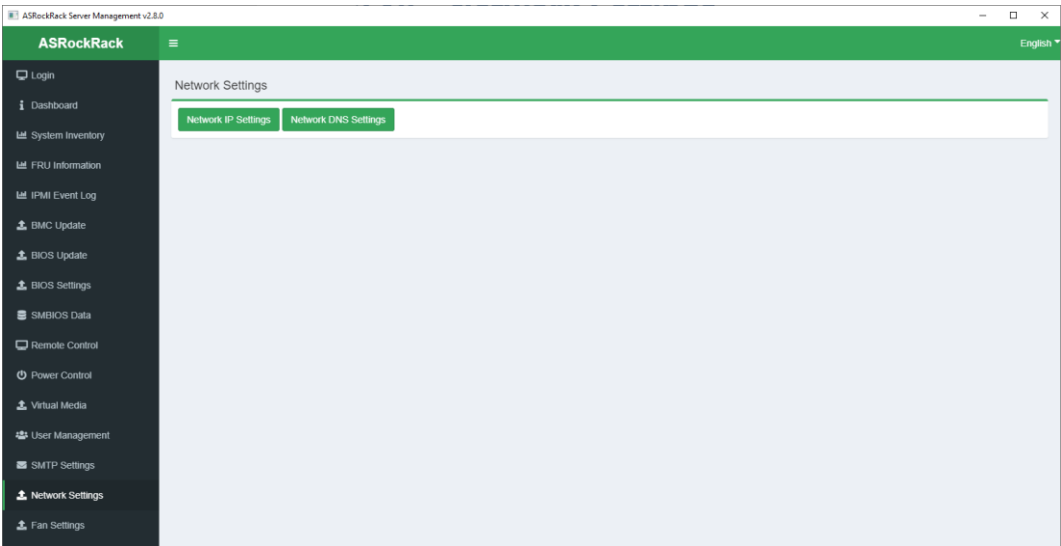
The fields on the SMTP Settings includes

- **Next (→) (Next)**: Click the **Next** button and go to next page.
- **SMTP LAN Interface**: Select the LAN Interface for SMTP used.
- **SMTP Sender E-mail ID**: Specify the Sender E-mail ID on the SMTP server.
- **Primary SMTP Support**: Check this option to enable Primary SMTP Support for the BMC.
- **Secondary SMTP Support**: Check this option to enable Secondary SMTP Support for the BMC.
- **SMTP Server Name**: Specify the host name of SMTP server.
- **SMTP Server IP**: specify the IP address of SMTP server.
- **SMTP Server Port**: Specify the SMTP port number.
- **SMTP Secure Port**: Specify the SMTP secure port number.
- **SMTP Authentication**: Check this option to enable the SMTP Authentication feature.
- **SMTP Username**: Specify the username required to access SMTP server.
- **SMTP Password**: Specify the password for the SMTP user account.
- **SMTP SSLTLS Enable**: Check this option to enable SSLTLS protocol.
- **SMTP STARTTLS Enable**: Check this option to enable STARTTLS protocol.

2.17 Network Settings

The Network Settings provides the feature that users can configure the network configuration on BMC through the Server Management utility.

Figure 25. SMTP Settings



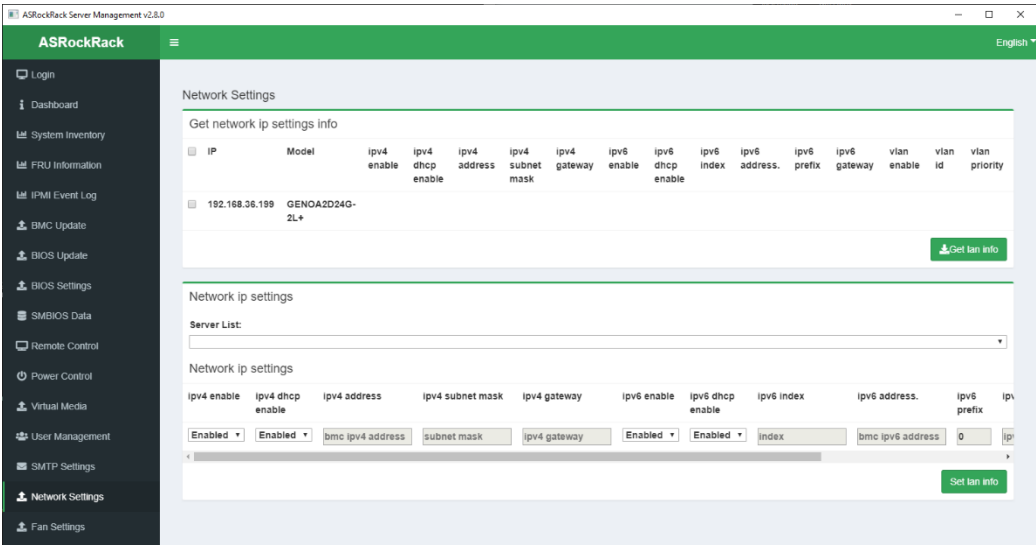
The fields on the Network Settings includes

- **Network IP Settings ([Network IP Settings](#))**: Click the **Network IP Settings** button and navigate to the Network IP Settings interface.
- **Network DNS Settings ([Network DNS Settings](#))**: Click the **Network DNS Settings** button and navigate to the DNS configuration interface.

2.17.1 Network IP Settings

The Network IP Settings interface provide the feature that users can view and edit the network IP settings of BMC on the selected host through the Server Management utility.

Figure 26. Network IP Settings



The fields on the Network IP Settings includes

- **Network IP Settings Info:** Provides the network IP information of this host. The supported items as below.
 - **IP:** The IP address of monitored host. Click the checkbox of IP to select all hosts to perform Get Network IP Information action, or click the checkbox of specific IP address to perform Get Network IP Information action.
 - **Model:** The model name of this host.
 - **IPv4 Enable:** Indicates the IPv4 enablement status on the host.
 - **IPv4 DHCP Enable:** Indicates the IPv4 DHCP enablement status on the host.
 - **IPv4 Address:** Indicates the IPv4 address of this host.
 - **IPv4 Subnet Mask:** Indicates the IPv4 subnet mask of this host.
 - **IPv4 Gateway:** Indicates the IPv4 gateway address of this host.
 - **IPv6 Enable:** Indicates the IPv6 enablement status on the host.
 - **IPv6 DHCP Enable:** Indicates the IPv6 DHCP enablement status on the host.
 - **IPv6 Index:** Indicates the IPv6 index value of this host.
 - **IPv6 Address:** Indicates the IPv6 address of this host.
 - **IPv6 Prefix:** Indicates the IPv6 prefix value of this host.
 - **IPv6 Gateway:** Indicates the IPv6 gateway address of this host.
 - **VLAN Enable:** Indicates the VLAN enablement status on the host.
 - **VLAN ID:** Indicates the VLAN ID of this host.
 - **VLAN Priority:** Indicates the VLAN priority of this host.
- **Get LAN Info ():** Click the **Get LAN Info** button to collect the Network IP Settings information of selected hosts
- **Network IP Settings:** Deploy the Network IP Settings to specific monitored host.
 - **Server List:** Select the host from the drop-down list to be the configured host.
 - **IPv4 Enable:** Select either Enabled or Disable for this feature.
 - **IPv4 DHCP Enable:** Select either Enabled or Disable for this feature.
 - **IPv4 Address:** Specify the IPv4 Address for the selected host.
 - **IPv4 Subnet Mask:** Specify the IPv4 Subnet Mask for the selected host.
 - **IPv4 Gateway:** Specify the IPv4 Gateway address for the selected host.
 - **IPv6 Enable:** Select either Enabled or Disable for this feature.
 - **IPv6 DHCP Enable:** Select either Enabled or Disable for this feature.
 - **IPv6 Index:** Specify the IPv6 index value for the selected host.
 - **IPv6 Address:** Specify the IPv6 Address for the selected host.
 - **IPv6 Prefix:** Specify the IPv6 prefix for the selected host.
 - **IPv6 Gateway:** Specify the IPv6 Gateway address for the selected host.
 - **VLAN Enable:** Select either Enabled or Disable for this feature.
 - **VLAN ID:** Specify the VLAN ID for the selected host.
 - **VLAN Priority:** Specify the VLAN Priority for the selected host.
- **Set LAN Info ():** Click the **Set LAN Info** button to deploy the Network IP settings value to the selected host.

2.17.2 Network DNS Settings

The Network DNS Settings interface provide the feature that users can view

and edit the network DNS settings of BMC on the selected host through the Server Management utility.

Figure 27. Network DNS Settings

The fields on the Network DNS Settings includes

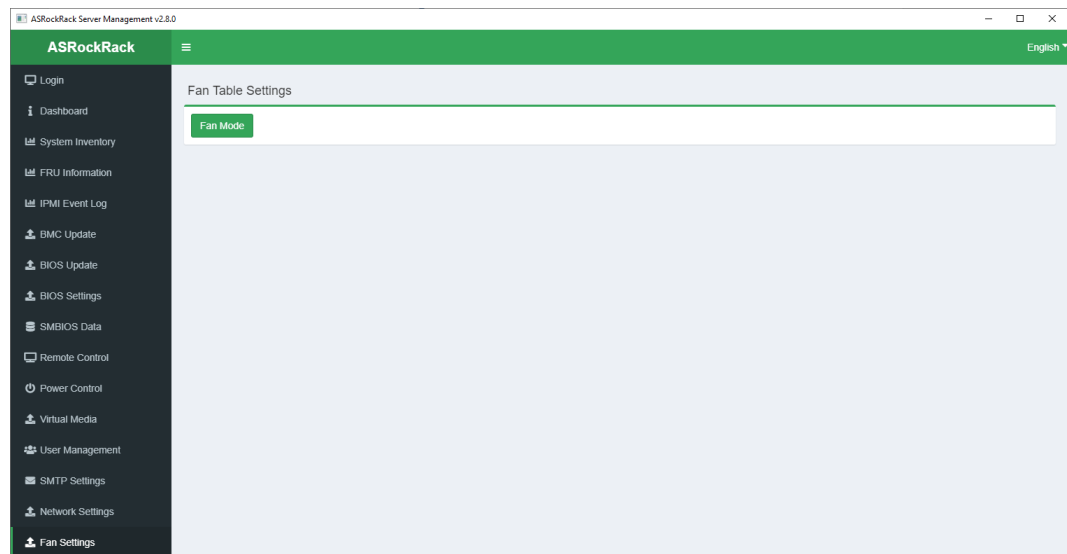
- **Network DNS Settings Info:**
 - **IP:** The IP address of this host. Click the checkbox of IP to select all hosts to perform Get Network DNS Information action, or click the checkbox of specific IP address to perform Get Network DNS Information action.
 - **Model:** The model name of this host.
 - **DNS Enable:** Indicates the DNS enablement status on the host.
 - **mDNS Enable:** Indicates the Multicast DNS enablement status on the host.
 - **Host Name Setting:** Indicates the Host Name Settings is either Automatic or Manual used on the BMC of this host.
 - **Host Name:** Indicates the Host Name of this host.
 - **Register BMC:** Indicates the Register BMC enablement status on the host.
 - **Registration Method:** Indicates the Registration Method used on the BMC of monitored host.
 - **Domain Setting:** Indicates the Domain Settings is either Automatic or Manual used on the BMC of monitored host.
 - **Domain Name:** Indicates the Domain Name on the BMC of this host.
 - **Domain Interface:** Indicates the Domain Interface used on the BMC of this host.
 - **Domain Name Server Settings:** Indicates the Domain Name Server Settings is either Automatic or Manual used on the BMC of this host.
 - **DNS Server 1:** Indicates the DNS Server 1 IP address.
 - **DNS Server 2:** Indicates the DNS Server 2 IP address.
 - **DNS Server 3:** Indicates the DNS Server 3 IP address.
 - **DNS Interface:** Indicates the DNS Interface used on the BMC of

- **IP Priority:** Indicates the DNS IP Priority used on the BMC of monitored host.
- **Get LAN Info ([Get lan info](#)):** Click the **Get LAN Info** button to collect the Network DNS Settings information of selected hosts
- **Network DNS Settings:**
 - **Server List:** Select the monitored host from the drop-down list to be the configured host.
 - **DNS Enable:** Select either Enabled or Disable for this feature.
 - **mDNS Enable:** Select either Enabled or Disable for this feature.
 - **Host Name Setting:** Select either Automatic or Manual for this feature.
 - **Host Name:** Specify the Host Name for selected host if Host Name settings is selected Automatic.
 - **Register BMC:** Select either Enabled or Disable for this feature.
 - **Registration Method:** Select the supported registration method from the drop-list.
 - **Domain Setting:** Select either Automatic or Manual for this feature.
 - **Domain Name:** Specify the Domain Name for the selected host.
 - **Domain Name Server Setting:** Select either Enabled or Disable for this feature.
 - **DNS Server 1:** Specify the IP address for DNS server 1.
 - **DNS Server 2:** Specify the IP address for DNS server 2.
 - **DNS Server 3:** Specify the IP address for DNS server 3.
 - **Set LAN Info ([Set lan info](#)):** Click the **Set LAN Info** button to deploy the Network DNS Settings value to the selected host.

2.18 Fan Settings

The Fan Settings provide the feature that users can edit the fan table settings of BMC on the selected host through the Server Management utility.

Figure 28. FAN Settings



The fields on the Fan Settings includes

- **Fan Mode (Fan Mode)**: Click the **Fan Mode** button and navigate to the Fan Table Settings interface.

2.18.1 Fan Table Settings

The Fan Table Settings interface provides the feature that users can modify the fan duty and control mode of supported fan sensors device through the Server Management utility.

Figure 29. FAN Table Settings

The fields on the Fan Table Settings includes

- **Server List**: Select the monitored host from the drop-down list to be configured the fan table settings.
- **Fan Mode**
 - **Duty**: Specify the fan duty value for the selected fan device.
 - **Save Fan Duty (Save Fan Duty)**: Click the **Save Fan Duty** button to deploy the modified settings value to the selected host.
- **Fan Control Mode**
 - **Default**: Click this option to set the fan control mode to Default mode.
 - **Manual**: Click this option to set the fan control mode to Manual mode.
 - **Customized**: Click this option to set the fan control mode to Customized mode.
 - **Save Manual Mode (Save manual mode)**: Click the **Save Manual Mode** button to deploy the modified settings value to the selected host.

3.0 Command Line Interface (CLI)

ASRock Rack Serve Management Utility supports the Command Line Interface (CLI). Users can invoke the CLI mode when execute the utility batch file named **asrrmgttool.bat** with arguments or execute the CLI mode utility named **mgmtcli** from the utility installed folder.

The supported commands are as follows:

- **Group**
- **User**
- **Event**
- **FRU**
- **Sensor Information**
- **SMBIOS**
- **System Inventory**
- **Boot Next**
- **Power**
- **Remote Control**
- **Remote VMedia**
- **VMedia**
- **UID Control**
- **BIOS Update**
- **BMC Update**
- **CPLD Update**
- **PSU Update**
- **BIOS Settings**
- **External User Settings**
- **Fan Table Settings**
- **Firmware Password Settings**
- **Network Settings**
- **OS Settings**
- **Backup Config**
- **IPMI**

Figure 30. Command Line Interface

```
Usage: asrrmgttool <command> [options]

Commands:
mgmtcli.exe group                Group management
mgmtcli.exe bmc_update           Update BMC firmware
mgmtcli.exe cpld_update          Update CPLD firmware
mgmtcli.exe ipmi                 Execute the ipmi command
mgmtcli.exe bios_update          Update BIOS firmware
mgmtcli.exe psu_update           Update PSU firmware
mgmtcli.exe power                Power control
mgmtcli.exe remote_vmedia        Remote Virtual media
mgmtcli.exe vmedia               Virtual media
mgmtcli.exe user                 User account control
mgmtcli.exe network_settings     Network Settings
mgmtcli.exe bios_settings        Bios settings
mgmtcli.exe smbios               SMBIOS data
mgmtcli.exe event                System event log
mgmtcli.exe system_inventory     system inventory info
mgmtcli.exe boot_next            Select the next boot
mgmtcli.exe fru                  fru information
mgmtcli.exe fantable_settings    Fan table settings
mgmtcli.exe os_settings          Operating system settings
mgmtcli.exe remote_control        Remote control via Java kvm or HTML KVM
mgmtcli.exe fw_pswd_settings     FW Password Settings
mgmtcli.exe backup_config         backup config file to a location of your
                                  choice
mgmtcli.exe external_user_settings External User Settings
mgmtcli.exe uid                  UID Control
mgmtcli.exe sensor               Sensor information

Options:
--help          Show help                                [boolean]
--log           Write log to file
--logappend     Append log to existing file                [boolean]
--version       Show version number                        [boolean]

Examples:
1. Update 2 servers BMC firmware: asrrmgttool bmc_update -f file -h
192.168.0.100 192.168.0.101 -u admin -p admin
2. Create Group1 servers: asrrmgttool group new -g Group1 -b 192.168.0.100
-e 192.168.0.120 --scan
3. Power on Group1 servers: asrrmgttool power on -g Group1 -u admin -p
admin
```

General Options:

--help	Show help
--log	Write log to file
--Logappend	Append log to existing file
--version	Show version number

3.1 Group

Use the Group Management command set to maintain the group members and its information.

Command:

group	Group management
-------	------------------

The supported subcommands are as follows:

- **New**
- **Delete**
- **Add**
- **Scan**
- **List**

3.1.1 New

This command is used to create a new group.

Command:

new	Create a group
-----	----------------

Options:

-g, --group	Set name of the group
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	Host IP address list
--xbegin	Begin IP address of the range to exclude
--xend	End IP address of the range to exclude
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-o, --override	Override group if existed

3.1.2 Delete

This command is used to delete an existing group or remove servers from the group.

Command:

delete	Delete a group or remove servers from group
--------	---

Options:

-g, --group	Name of the group to delete
-b, --begin	Begin IP address of the range to delete
-e, --end	End IP address of the range to delete
-h, --host	IP address of the server to remove

3.1.3 Add

This command is used to adds server into the group.

Command:

add	Add servers into the group
-----	----------------------------

Options:

-g, --group	Name of the group
-b, --begin	Begin IP address of the group
-e, --end	End IP address of the group
-h, --host	IP address of the server to add

3.1.4 Scan

This command is used to scan servers and update to the group info.

Command:

scan	Scan servers and update to the group info
------	---

Options:

-g, --group	Name of the group
-------------	-------------------

3.1.5 List

This command is used to show the group info.

Command:

list	Scan servers and update to the group info
------	---

Options:

-g, --group	Name of the group to show the info
-------------	------------------------------------

3.2 User

Use the User command set to maintain the user account.

Command:

user	User account control
------	----------------------

The supported subcommands are as follows:

- **List**
- **Set**
- **Delete**

3.2.1 List

This command is used to list user account information of server.

Command:

list	List user account
------	-------------------

Options:

-g, --group	The group to do user control
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do user control
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--id	Specific user ID (1 ~ 10)

3.2.2 Set

This command is used to setting the user account of server.

Command:

set	List user account
-----	-------------------

Options:

-g, --group	The group to do user control
-------------	------------------------------

-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do user control
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--id	Specific user ID (1 ~ 10)
--name	User name
--pswd	User password
--access	User access
--kvm	User kvm
--vmedia	User vmedia
--snmp	User snmp
--prev_snmp	User prev_snmp
--	User network privilege
network_privilege	Privilege: user, administrator, operator, none
--snmp_access	User snmp access
--	User privilege limit serial
privilege_limit_s erial	Privilege: user, administrator, operator, none
--	User snmp authentication protocol
snmp_authenticati on_protocol	
--	User snmp privacy protocol
snmp_privacy_prot ocol	
--email_id	User email address
--pswd_size	User password size
	Size: bytes_16, bytes_20
--pswd_login	User login password
--pswd_cha	User change password
--ch1_enable	Enable channel 1 access status
	0: Disable. 1: Enable
--ch7_enable	Enable channel 7 access status
	0: Disable. 1: Enable
--ch8_enable	Enable channel 8 access status
	0: Disable. 1: Enable
--ch1_Pri	Channel 1 Privilege Setting
	Privilege: user, administrator, operator, none
--ch7_Pri	Channel 7 Privilege Setting
	Privilege: user, administrator, operator, none
--ch8_Pri	Channel 8 Privilege Setting
	Privilege: user, administrator, operator, none

3.2.3 Delete

This command is used to delete the user account of server.

Command:

delete	Delete user account
--------	---------------------

Options:

-g, --group	The group to do user control
-------------	------------------------------

-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do user control
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--id	Specific user ID (1 ~ 10)

3.3 Event

Use the Event command set to collect the system event log on the BMC.

Command:

event	System event log
-------	------------------

The supported subcommands are as follows:

- **Download**
- **Clear**

3.3.1 Download

This command is used to download the system event log from the BMC.

Command:

download	Download system event event log
----------	---------------------------------

Options:

-g, --group	The group to do event log action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do event log action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	Event log file directory (the default is current path)

3.3.2 Clear

This command is used to clear the system event log on the BMC.

Command:

clear	clear system event log
-------	------------------------

Options:

-g, --group	The group to do event log action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do event log action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.4 FRU

Use the FRU command to collect the FRU information on the system.

Command:

fru	FRU Information
-----	-----------------

Options:

-g, --group	The group to do FRU action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do FRU action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.5 Sensor Information

Use the Sensor Information command set to collect the sensor details on the BMC.

Command:

sensor	Sensor Information
--------	--------------------

The supported subcommands are as follows:

- **Get Sensor**

3.5.1 Get Sensor

This command is used to get information of sensor on the host.

Command:

get_sensor	Get sensor configuration
------------	--------------------------

Options:

-g, --group	The group to do sensor action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do sensor action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--all	All sensor status
--sn	Get specific sensor status

3.6 SMBIOS

Use the Sensor Information command set to collect the sensor details on the BMC.

Command:

smbios	SMBIOS Data
--------	-------------

The supported subcommands are as follows:

- **Info**
- **Download**
- **Get**

3.6.1 Info

This command is used to collect the SMBIOS data of system BIOS.

Command:

info	SMBIOS data information
------	-------------------------

Options:

-g, --group	The group to do SMBIOS action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do SMBIOS action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.6.2 Download

This command is used to save the SMBIOS data into the file.

Command:

download	Download SMBIOS Data (save as a binary file)
----------	--

Options:

-g, --group	The group to do SMBIOS action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do SMBIOS action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)

3.6.3 Get

This command is used to collect the SMBIOS data of system BIOS.

Command:

get	Get SMBIOS Data Structure
-----	---------------------------

Options:

-g, --group	The group to do SMBIOS action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do SMBIOS action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers

-u, --username	Username to login
-p, --password	Password to login
--handle	Specific the SMBIOS data handle number
--decode	Display decoded data

3.7 System Inventory

Use the Sensor Inventory command set to collect the system device information.

Command:

system_inventory	System Inventory Information
------------------	------------------------------

The supported subcommands are as follows:

- **List**

3.7.1 List

This command is used to list device information on the system.

Command:

list	List device information on the system.
------	--

Options:

-g, --group	The group to do Sensor Inventory action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Sensor Inventory action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.8 Boot Next

This command is used to configure the boot device that BIOS will boot from next time.

Command:

Boot_next	Select Boot Device for Next Time Booting
-----------	--

Options:

-g, --group	The group to do Boot Next action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Boot Next action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--bios	Boot into BIOS Setup
--pxe	Boot from PXE. Default Legacy
--cdrom	Boot from CD/DVD
--disk	Boot from Disk. Default Legacy

--uefi	Boot UEFI
--legacy	Boot Legacy

3.9 Power

Use the Power command set to controls or monitors the host power status.

Command:

power	Power Control
-------	---------------

The supported subcommands are as follows:

- **Status**
- **On**
- **Off**
- **Cycle**
- **Reset**
- **Shutdown**

3.9.1 Status

This command is used to view the power status of host.

Command:

status	Return Power Status
--------	---------------------

Options:

-g, --group	The group to do Power action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Power action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.9.2 On

This command is used to power-on the host.

Command:

on	Power-on the host
----	-------------------

Options:

-g, --group	The group to do Power action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Power action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.9.3 Off

This command is used to power-off the host.

Command:

off	Power-off the host
-----	--------------------

Options:

-g, --group	The group to do Power action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Power action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.9.4 Cycle

This command is used to power cycle the host.

Command:

on	Power cycle the host
----	----------------------

Options:

-g, --group	The group to do Power action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Power action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.9.5 Reset

This command is used to hard reset the host.

Command:

reset	Hard reset the host
-------	---------------------

Options:

-g, --group	The group to do Power action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Power action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.9.6 Shutdown

This command is used to soft shutdown the host.

Command:

shutdown	ACPI Shutdown (Soft Shutdown) the host
----------	--

Options:

-g, --group	The group to do Power action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Power action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.10 Remote Control

Use the Remote Control command set to invoke the remote control service.

Command:

remote_control	Remote control via Java KVM or HTML KVM
----------------	---

The supported subcommands are as follows:

- **Java KVM**
- **HTML KVM**

3.10.1 Java KVM

This command is used to invoke the Java KVM service.

Command:

java_kvm	Invoke Java KVM
----------	-----------------

Options:

-g, --group	The group to do Remote Control action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Remote Control action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--url	Get url entry only
-f, --file	Path to download file

3.10.2 HTML KVM

This command is used to invoke the HTML KVM service.

Command:

html_kvm	Invoke HTML KVM
----------	-----------------

Options:

-g, --group	The group to do Remote Control action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Remote Control action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers

-u, --username	Username to login
-p, --password	Password to login
--url	Get url entry only

3.11 Remote Virtual Media

Use the Remote Virtual Media command set to remote mounting the media, editing the virtual media settings, or viewing the virtual media list on the BMC.

Command:

remote_vmedia	Remote Virtual Media
---------------	----------------------

The supported subcommands are as follows:

- **Settings**
- **Image List**
- **Image Redirection**
- **Image Stop**

3.11.1 Settings

This command is used to configure virtual media settings.

Command:

settings	Remote Virtual Media Settings
----------	-------------------------------

Options:

-g, --group	The group to do Remote Virtual Media action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Remote Virtual Media action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--r_media_support	remote media support (0: Disabled, 1: Enabled)
--mcd	mount CD/DVD (0: Disabled, 1: Enabled)
--mcd_server_ip	Server Address for CD/DVD Images
--mcd_source_path	Path in server
--mcd_share_type	Share Type for CD/DVD
	Type: nfs, cifs, https
--mcd_pswd	Password
--mcd_usr	Username
--	Same settings for Harddisk Images
mcd_same_settings	(0: Disabled, 1: Enabled)
--mhd	Mount Hard disk
	(0: Disabled, 1: Enabled)
--mhd_server_ip	Server Address for CD/DVD Images
--mhd_source_path	Path in server
--mhd_share_type	Share Type for CD/DVD
	Type: nfs, cifs
--mhd_pswd	cifs Password
--mhd_usr	Cifs Username
--mhd_domain_name	cifs mhd_domain_name

3.11.2 Image List

This command is used to list the remote media images.

Command:

<code>image_list</code>	List Remote Media Image
-------------------------	-------------------------

Options:

<code>-g, --group</code>	The group to do Remote Virtual Media action
<code>-b, --begin</code>	Begin IP address of the range
<code>-e, --end</code>	End IP address of the range
<code>-h, --host</code>	IP address list to do Remote Virtual Media action
<code>-x, --exclude</code>	IP address list to exclude
<code>-s, --scan</code>	Scan the IP range for servers
<code>-u, --username</code>	Username to login
<code>-p, --password</code>	Password to login

3.11.3 Image Redirection

This command is used to media image redirection.

Command:

<code>image_redirection</code>	Media Image Redirection
--------------------------------	-------------------------

Options:

<code>-g, --group</code>	The group to do Remote Virtual Media action
<code>-b, --begin</code>	Begin IP address of the range
<code>-e, --end</code>	End IP address of the range
<code>-h, --host</code>	IP address list to do Remote Virtual Media action
<code>-x, --exclude</code>	IP address list to exclude
<code>-s, --scan</code>	Scan the IP range for servers
<code>-u, --username</code>	Username to login
<code>-p, --password</code>	Password to login
<code>--name</code>	Image Name
<code>--type</code>	Image Type 1: CD/DVD, 4: Hard Disk
<code>--install</code>	Reboot server to boot from virtual media

3.11.4 Image Stop

This command is used to stop media image redirection.

Command:

<code>image_stop</code>	Stop Media Image Redirection
-------------------------	------------------------------

Options:

<code>-g, --group</code>	The group to do Remote Virtual Media action
<code>-b, --begin</code>	Begin IP address of the range
<code>-e, --end</code>	End IP address of the range
<code>-h, --host</code>	IP address list to do Remote Virtual Media action
<code>-x, --exclude</code>	IP address list to exclude
<code>-s, --scan</code>	Scan the IP range for servers
<code>-u, --username</code>	Username to login
<code>-p, --password</code>	Password to login
<code>--name</code>	Image Name

--type	Image Type
	1: CD/DVD, 4: Hard Disk

3.12 Virtual Media

This command is used to specific the virtual media.

Command:

vmedia	Virtual Media
--------	---------------

Options:

-g, --group	The group to do Virtual Media action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Virtual Media action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--image	Image file to redirect to server
--drive	Drive to redirect to server
--install	Reboot server to boot from virtual media
--uefi	Boot UEFI

3.13 UID Control

Use the UID Control command set to viewing or setting the system UID status.

Command:

uid	UID Control
-----	-------------

The supported subcommands are as follows:

- **Get UID**
- **Set UID**

3.13.1 Get UID

This command is used to get the UID status.

Command:

get_uid	Get Host UID Status
---------	---------------------

Options:

-g, --group	The group to do UID Control action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do UID Control action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.13.2 Set UID

This command is used to set the UID status.

Command:

set_uid	set Host UID Status
---------	---------------------

Options:

-g, --group	The group to do UID Control action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do UID Control action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
-a	UID Action
	0: Turn Off, 1: Temporary On, 2: Turn On

3.14 BIOS Update

Use the BIOS Update command set to update the BIOS firmware.

Command:

bios_update	BIOS Firmware Update
-------------	----------------------

Options:

-g, --group	The group to do BIOS Update action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Update action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--	Update BIOS FW through redfish interface
redfish_interface	
--preserve	preserve bios configuration
--action	Only for Redfish Update:
	1: Update on host shutdown
	2: Update immediately without changing host state.
	(Intel platform not supported)
	3: Shutdown host to update

The supported subcommands are as follows:

- **Get BIOS Firmware Version**

3.14.1 Get BIOS Firmware Version

This command is used to get BIOS firmware version.

Command:

get_fw_ver	Get BIOS Firmware Version
------------	---------------------------

Options:

-g, --group	The group to do BIOS Update action
-b, --begin	Begin IP address of the range

-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Update action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.15 BMC Update

Use the BMC Update command set to update the BMC firmware.

Command:

bmc_update	BMC Firmware Update
------------	---------------------

Options:

-g, --group	The group to do BMC Update action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BMC Update action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--preserve	Preserve all configuration
--sdr	Preserve SDR, (1: preserve, 0: overwrite, entry for keep current settings) are used for the following preserve options
--sel	Preserve SEL
--ipmi	Preserve IPMI
--network	Preserve Network
--ntp	Preserve NTP
--snmp	Preserve SNMP
--kvm	Preserve KVM
--authentication	Preserve Authentication
--syslog	Preserve Syslog
--web	Preserve Web
--redfish	Preserve Redfish
--fru	Preserve FRU
--ssh	Preserve SSH
--extlog	Preserve Extlog
--	Preserve AutomationEngine
automationEngine	
--rsd	Preserve RSD
--dual_image	Update BMC dual image settings
	1: Image1, 2: Image2, 3: Both Image
--	Update BMC firmware through redfish interface
redfish_interface	

The supported subcommands are as follows:

- **Get BMC Firmware Version**

3.15.1 Get BMC Firmware Version

This command is used to get BMC firmware version.

Command:

get_fw_ver	Get BMC Firmware Version
------------	--------------------------

Options:

-g, --group	The group to do BMC Update action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BMC Update action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.16 CPLD Update

Use the CPLD Update command set to update the CPLD firmware.

Command:

cpld_update	CPLD Firmware Update
-------------	----------------------

Options:

-g, --group	The group to do CPLD Update action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do CPLD Update action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--type	CPLD Type
	1: Motherboard, 2: Backplane
--	Update CPLD firmware through redfish interface
redfish_interface	

The supported subcommands are as follows:

- **Get CPLD Firmware Version**

3.16.1 Get CPLD Firmware Version

This command is used to get CPLD firmware version.

Command:

get_fw_ver	Get CPLD Firmware Version
------------	---------------------------

Options:

-g, --group	The group to do CPLD Update action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do CPLD Update action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.17 PSU Update

Use the PSU Update command set to update the PSU firmware.

Command:

psu_update	PSU Firmware Update
------------	---------------------

Options:

-g, --group	The group to do PSU Update action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do PSU Update action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
-f, --file	Firmware image

3.18 BIOS Settings

Use the BIOS Settings command set to view or configure the system BIOS settings.

Command:

bios_settings	BIOS Settings
---------------	---------------

The supported subcommands are as follows:

- **Get**
- **Quick Search**
- **Value**
- **Set**
- **Apply**
- **Save**
- **Restore**

3.18.1 Get

This command is used to collect the system BIOS attributes.

Command:

get	Collect System BIOS Attributes
-----	--------------------------------

Options:

-g, --group	The group to do BIOS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)
-a, --all	Get all BIOS attribute
-q, --query	Search keyword of bios attribute

--print	Example: -q keyword1 -q keyword2 Print BIOS attribute
---------	--

3.18.2 Quick Search

This command is used to search the system BIOS attributes.

Command:

quick_search	Quickly search BIOS available items
--------------	-------------------------------------

Options:

-g, --group	The group to do BIOS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)
--item_name	Get all BIOS item display name
--item_value	Get specific BIOS item display value
	Example: --item_value item_name
--print	Print BIOS attribute

3.18.3 Value

This command is used to acquire the system BIOS settings value.

Command:

value	Acquire the system BIOS settings value
-------	--

Options:

-g, --group	The group to do BIOS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)
-a, --all	Get all BIOS attribute
-o, --option	To acquire the BIOS option value
--print	Print BIOS attribute

3.18.4 Set

This command is used to configure the system BIOS settings.

Command:

set	Set system BIOS settings
-----	--------------------------

Options:

-g, --group	The group to do BIOS Settings action
-------------	--------------------------------------

-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)
-a, --all	Get all BIOS attribute
-d, --dircet	BIOS Settings
	Example 1: -d "AttributeName1"="ValueName1"
	Example 2: -d "DisplayName1"="ValueDisplayName1"
--print	Print BIOS attribute

3.18.5 Apply

This command is used to apply the reference system BIOS settings to specific system BIOS.

Command:

apply	Apply the system BIOS settings to specific host
-------	---

Options:

-g, --group	The group to do BIOS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)
-r, --reference	Reference IP of BIOS settings
	Example: -r IP -b begin_ip -e end_ip
--print	Print BIOS attribute

3.18.6 Save

This command is used to backups the system BIOS settings to the file.

Command:

save	Save the BIOS settings
------	------------------------

Options:

-g, --group	The group to do BIOS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)

3.18.7 Restore

This command is used to restore the system BIOS settings from the file.

Command:

restore	Restore the BIOS settings
---------	---------------------------

Options:

-g, --group	The group to do BIOS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do BIOS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File directory (the default is current path)

3.19 External User Settings

Use the External User Settings command set to configure external user settings on BMC.

Command:

external_user_set	Configure External User Settings
tings	

The supported subcommands are as follows:

- **LDAP Settings**
- **Active Directory Settings**

3.19.1 LDAP Settings

This command is used to configure the LDAP settings

Command:

ldap_settings	General LDAP/E-directory Settings
---------------	-----------------------------------

Options:

-g, --group	The group to do External User Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do External User Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--enable	Enable LDAP/E-Directory Authentication 0: Disabled, 1: Enabled
--encryption_type	Encryption Type 0: No Encryption, 1: SSL, 2: StartTLS
--server_address	Server Address
--port	Port
--bind_dn	Bind DN

--search_base	Search Base
--	Search Base
user_login_attribute	
--	Common Name Type
common_name_type	0: IP, 1: FQDN
--	CA Certificate File
ca_certificate_file	
--	Certificate File
certificate_file	
--private_key	Private Key

3.19.2 Active Directory Settings

This command is used to configure Active Directory (AD) Settings.

Command:

ad_settings	General Active Directory Settings
-------------	-----------------------------------

Options:

-g, --group	The group to do External User Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do External User Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--enable	Enable Active Directory Authentication
	0: Disabled, 1: Enabled
--enablessl	SSL
	0: Disabled, 1: Enabled
--secret_username	Secret Username
--secret_password	Secret Password
--user_domain_name	User Domain Name
--	Domain Controller Server Address 1
domain_controller1	
--	Domain Controller Server Address 2
domain_controller2	
--	Domain Controller Server Address 3
domain_controller3	

3.20 Fan Table Settings

Use the Fan Table Settings command set to configure system fan settings.

Command:

fantable_settings	Fan Table Settings
-------------------	--------------------

The supported subcommands are as follows:

- **Get**
- **Corresponding Fan**
- **Fan Mode**

- **Close**
- **Open**

3.20.1 Get

This command is used to view fan table information.

Command:

get	Get Fan Table Information
-----	---------------------------

Options:

-g, --group	The group to do Fan Table Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Fan Table Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
-o, --open_loop_control_table	Get open loop control table (1 ~ 8)
-c, --close_loop_control_table	Get close loop control table (1 ~ 10)
-i, --sensor_fan_table_info	Enter the sensor number (Parameter -l) to get the fan table info
-l, --temperature_sensor_list	Get temperature sensor number list
-m, --fan_mode	Get fan mode
-sn, --sensor_number	Sensor number
-ca, --current_assignment	Current Assignment List

3.20.2 Corresponding Fan

This command is used to setting the corresponding table.

Command:

correspdning_fan	Setting the Corresponding Table
------------------	---------------------------------

Options:

-g, --group	The group to do Fan Table Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Fan Table Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--id, --config_id	Current Assignment Config ID
--sn, --	Sensor Number

```

sensor_number
-o, --          Select Open Loop Control Table (1~8)
open_loop_control_ 0: Disable
table
-c, --          Select Close Loop Control Table (1~10)
close_loop_control 0: Disable
_table
-f, --select_fan  Select Fan
                  0: Disabled, 1: Enabled
                  Example: fan1=1
--del           Delete fan config

```

3.20.3 Fan Mode

This command is used to setting the fan mode.

Command:

```

fan_mode          Setting the Fan Mode

```

Options:

```

-g, --group        The group to do Fan Table Settings action
-b, --begin        Begin IP address of the range
-e, --end          End IP address of the range
-h, --host         IP address list to do Fan Table Settings action
-x, --exclude      IP address list to exclude
-s, --scan         Scan the IP range for servers
-u, --username     Username to login
-p, --password     Password to login
--control, --      Set Fan Control Mode
fan_control_mode   0: Default, 1: Manual, 2: Customized
--duty, --         Set Fan Duty for Manual Mode.
fan_duty           Example: fan1=21 fan2=30
--max_duty         Maximum Duty.
--min_duty         Minimum Duty.
--fan_failed       Full speed if fan failed
                  0: Disabled, 1: Enabled
--fw_update        Force running at Maximum Speed when firmware update
                  1: BMC, 2: BIOS, 3: Both
--default_mode     Default Mode
                  0: Optimal, 1: Basic, 2: Aggressive, 3: Power Saving, 4:
                  Full speed

```

3.20.4 Close

This command is used to setting the close loop control table.

Command:

```

close            Setting the Close Loop Control Table

```

Options:

```

-g, --group        The group to do Fan Table Settings action
-b, --begin        Begin IP address of the range
-e, --end          End IP address of the range
-h, --host         IP address list to do Fan Table Settings action
-x, --exclude      IP address list to exclude

```

-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--table, --Control	Set Fan table number (1~10)
Table	
--temp_d, --Ramp	The Temperature of Slow Down Fan Duty Cycle
down temperature	
--temp_u, --Ramp	The Temperature of Speed Up Fan Duty Cycle
up temperature	
--duty_d, --Ramp	The Duty Cycle Percentage of Slow Down Fan Duty Cycle
down duty	
--duty_u, --Ramp	The Duty Cycle Percentage of Speed Up Fan Duty Cycle
up duty	
--time_d, --Ramp	The Time of Slow Down Fan Duty Cycle
down interval	Unit: Seconds
--time_u, --Ramp	The Time of Speed Up Fan Duty
up interval	Unit: Seconds
--RampThreshold	Ramp threshold
	Unit: Degrees

3.20.5 Open

This command is used to setting the open loop control table.

Command:

open	Setting the Open Loop Control Table
------	-------------------------------------

Options:

-g, --group	The group to do Fan Table Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Fan Table Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--table, --fan	Set Fan table number (1~8)
table number	
--order, --Table	Table order format: order_id=temp=duty
order	Example: --order 1=20=80
--Hysteresis	Falling Hysteresis
	Unit: Degrees
--RampUpInterval	Ramp Up Interval
	Unit: Seconds
--RampUpDuty	Ramp Up Duty
	Unit: Percentage
--RampDownInterval	Ramp Down Interval
	Unit: Seconds
--RampDownDuty	Ramp Down Duty
	Unit: Percentage

3.21 Firmware Password Settings

Use the Firmware Password Settings command set to configure system fan

settings.

Command:

fw_pswd_settings	Setting the Firmware Password.
------------------	--------------------------------

The supported subcommands are as follows:

- **BMC**
- **BIOS**

3.21.1 BMC

This command is used to setting the BMC password.

Command:

bmc	Setting the BMC Default Password
-----	----------------------------------

Options:

-g, --group	The group to do Firmware Password Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Firmware Password Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--new_pw	New Password
--default	Change BMC default password

3.21.2 BIOS

This command is used to setting system BIOS password.

Command:

bios	Setting the System BIOS Password
------	----------------------------------

Options:

-g, --group	The group to do Firmware Password Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Firmware Password Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--new_pw	New Password
--old_pw	Old Password

3.22 Network Settings

Use the Network Settings command set to configure BMC network settings.

Command:

network_settings	Setting the BMC Network Configuration
------------------	---------------------------------------

The supported subcommands are as follows:

- **Get IP**
- **Set IP**
- **Get DNS**
- **Set DNS**
- **Get Bond**
- **Set Bond**
- **Get NIC**
- **Set NIC**

3.22.1 Get IP

This command is used to get BMC network IP settings.

Command:

<code>get_ip</code>	Get the BMC Network IP Settings
---------------------	---------------------------------

Options:

<code>-g, --group</code>	The group to do Network Settings action
<code>-b, --begin</code>	Begin IP address of the range
<code>-e, --end</code>	End IP address of the range
<code>-h, --host</code>	IP address list to do Network Settings action
<code>-x, --exclude</code>	IP address list to exclude
<code>-s, --scan</code>	Scan the IP range for servers
<code>-u, --username</code>	Username to login
<code>-p, --password</code>	Password to login

3.22.2 Set IP

This command is used to get BMC network IP settings.

Command:

<code>set_ip</code>	Setting the BMC Network IP Settings
---------------------	-------------------------------------

Options:

<code>-g, --group</code>	The group to do Network Settings action
<code>-b, --begin</code>	Begin IP address of the range
<code>-e, --end</code>	End IP address of the range
<code>-h, --host</code>	IP address list to do Network Settings action
<code>-x, --exclude</code>	IP address list to exclude
<code>-s, --scan</code>	Scan the IP range for servers
<code>-u, --username</code>	Username to login
<code>-p, --password</code>	Password to login
<code>--interface_name</code>	LAN Interface
<code>--ipv4_enable</code>	IPv4 Enabled 0: Disabled, 1: Enabled
<code>--ipv4_dhcp_enable</code>	IPv4 DHCP Enabled 0: Disabled, 1: Enabled
<code>--ipv4_address</code>	IPv4 Address
<code>--ipv4_subnet</code>	IPv4 Subnet
<code>--ipv4_gateway</code>	IPv4 Gateway
<code>--ipv6_enable</code>	IPv6 Enabled 0: Disabled, 1: Enabled
<code>--ipv6_dhcp_enable</code>	IPv6 DHCP Enabled 0: Disabled, 1: Enabled
<code>--ipv6_index</code>	IPv6 Index

--ipv6_address	IPv6 Address
--ipv6_gateway	IPv6 Gateway
--ipv6_prefix	IPv6 Prefix
--vlan_enable	VLAN Enable
	0: Disabled, 1: Enabled
--vlan_id	VLAN ID
--vlan_priority	VLAN Priority

3.22.3 Get DNS

This command is used to get BMC DNS configuration.

Command:

get_dns	Get the BMC DNS Configuration
---------	-------------------------------

Options:

-g, --group	The group to do Network Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Network Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.22.4 Set DNS

This command is used to get BMC network IP settings.

Command:

set_dns	Setting the BMC DNS Configuration
---------	-----------------------------------

Options:

-g, --group	The group to do Network Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Network Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--dns	DNS Enabled
	0: Disabled, 1: Enabled
--mdns	mDNS Enabled
	0: Disabled, 1: Enabled
--host_cfg	Host Name Setting
	0: Automatic, 1: Manual
--host_name	Host Name
--reg_bmc	Register BMC
	0: Disabled, 1: Enabled
--reg_option	Registration Method
	0: Nsupdate, 1: DHCP Client FQDN, 2: Hostname
--domain_manual	Domain Setting
	0: Automatic, 1: Manual
--domain_name	Domain Name

--domain_iface	Domain Interface
--dns_manual	Domain Name Server Setting 0: Automatic, 1: Manual
--dns_priority	DNS Priority
--dns_server1	DNS Server 1
--dns_server2	DNS Server 2
--dns_server3	DNS Server 3

3.22.5 Get Bond

This command is used to get BMC Bond Configuration.

Command:

get_bond	Get the BMC Bond Configuration Settings
----------	---

Options:

-g, --group	The group to do Network Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Network Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.22.6 Set Bond

This command is used to set BMC

Command:

set_bond	Setting the BMC Bond Configuration settings
----------	---

Options:

-g, --group	The group to do Network Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Network Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--enable_bonding	Enable Bonding 0: Disabled, 1: Enabled
--	Auto Configuration
auto_configuration	0: Disabled, 1: Enabled
--bond_interface	Bond Interface
--bond_mode	Bond Mode

3.22.7 Get NIC

This command is used to get BMC Shared NIC Link Up information.

Command:

get_ip	Get the BMC Shared NIC Link Up information
--------	--

Options:

-g, --group	The group to do Network Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Network Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login

3.22.8 Set NIC

This command is used to set the BMC shared NIC Link Up configuration.

Command:

set_nic	Setting the BMC shared NIC Link Up Configuration
---------	--

Options:

-g, --group	The group to do Network Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Network Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--shared_NIC1	Shared NIC 1 0: Disabled, 1: Enabled
--shared_NIC2	Shared NIC 2 0: Disabled, 1: Enabled

3.23 OS Settings

Use the OS Settings command set to configure OS (Operating System) settings.

Command:

os_settings	Setting the Host OS Settings
-------------	------------------------------

The supported subcommands are as follows:

- **Get**
- **Host Interface**

3.23.1 GET

This command is used to set the BMC shared NIC Link Up configuration.

Command:

get	Get Device Information on the OS
-----	----------------------------------

Options:

-g, --group	The group to do OS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range

-h, --host	IP address list to do OS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--lan, --Lan Info	Show LAN Information
--ob_disk, --on-board disk info	Show Disk Information

3.23.2 Host Interface

This command is used to set the BMC shared NIC Link Up configuration.

Command:

host_interface	Setting the Host Interface Configuration
----------------	--

Options:

-g, --group	The group to do OS Settings action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do OS Settings action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--usb_lan	Automatically Setting USB LAN

3.24 Backup Config

Use the Backup Config command set to download or restore BMC configuration settings.

Command:

backup_config	Backup BMC Config to a File or Restore BMC Config form a File
---------------	---

The supported subcommands are as follows:

- **Download**
- **Restore**

3.24.1 Download

This command is used to download BMC configuration settings to a file.

Command:

download	Download Config Settings
----------	--------------------------

Options:

-g, --group	The group to do Backup Config action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Backup Config action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers

-u, --username	Username to login
-p, --password	Password to login
--snmp	Backup SNMP Config 0: Disable, 1: Enabled
--kvm	Backup KVM Config 0: Disable, 1: Enabled
--network	Backup Network Config 0: Disable, 1: Enabled
--ipmi	Backup IPMI Config 0: Disable, 1: Enabled
--ntp	Backup NTP Config 0: Disable, 1: Enabled
--authentication	Backup Authentication Config 0: Disable, 1: Enabled
--syslog	Backup Syslog 0: Disable, 1: Enabled
--path	File Directory (the default path is current path)

3.24.2 Restore

This command is used to restore BMC configuration settings from a file.

Command:

restore	Restore BMC Configuration
---------	---------------------------

Options:

-g, --group	The group to do Backup Config action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Backup Config action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--path	File Directory (the default path is current path)

3.25 IPMI

Use the IPMI command set to send the IPMI raw command through this tool.

Command:

ipmi	Sent the IPMI Raw Command
------	---------------------------

Options:

-g, --group	The group to do Backup Config action
-b, --begin	Begin IP address of the range
-e, --end	End IP address of the range
-h, --host	IP address list to do Backup Config action
-x, --exclude	IP address list to exclude
-s, --scan	Scan the IP range for servers
-u, --username	Username to login
-p, --password	Password to login
--raw	IPMI Raw Command