

Server Management utility

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V1.0.2

Revision History

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1. Introduction

ASRock Rack server management is a software program that communicates to ASRock Rack servers over Ethernet; meanwhile, administrators can monitor system status and control these servers from remote computers. The program is mainly based on the services provided by BMC (Baseboard Management Controllers) with IPMI (Intelligence Platform Management Interface), web services and DMTF's Redfish API.

Terminology

Abbreviation	Definition
BMC	Baseboard Management Controller
BIOS	Basic Input Output System
SMBIOS	System Management BIOS
IPMI	Intelligence Platform Management Interface
FRU	Filed Replaceable Unit
KVM	Keyboard, Video and Mouse
DMTF	Distributed Management Task Force
API	Application Programming Interface
ME	Intel Management Engine
PEF	Platform Event Filter

POST	Power On Self-Test
SEL	System Event Log
SNMP	Simple Network Management Protocol

2. Features Summary

Кеу	Description
Login	Grouped server by assigning IP range
System inventory	Display device detailed information
IPMI Event log	View and download system event log
Remote control	KVM, reboot, load default settings
Power control	Perform system power on/off/cycle
BIOS settings	Edit BIOS settings through BMC interface
SMBIOS data	View SMBIOS data through BMC interface
BIOS/BMC update	Upgrade firmware on multiple servers
Virtual media	Attach local media to remote server

Note:

All screenshots in this document are provided for illustrative purpose only, and may be different from the actual product.

3. Installation

ASRock Rack server management can be run on Windows and Linux operating systems.

3.1. Windows

Download AsrSrvMgmtSetup(vx.x.x).zip from the ASRock Rack official web site, unzip and run the application, and follow the instructions to complete the setup process. Then you also need to download and install the required Microsoft Visual C++ 2010 Redistributable Package for program to run. After that you can start ASRockSrvMgmt from Windows start menu. Below are some installation screenshots for your references.

Note:

Microsoft Visual C++ 2010 Redistributable Package can be downloaded from this link: <u>https://www.microsoft.com/en-us/download/details.aspx?id=14632</u>

1. Start setup



2. Select destination location

ᡖ Setup - ASRockRackSrvMgmt	—		×
Select Destination Location Where should ASRockRackSrvMgmt be installed?			
Setup will install ASRockRackSrvMgmt into the following fold	der.		
To continue, click Next. If you would like to select a different folder,	click B	rowse.	
C:\Program Files (x86)\ASRockRack Utility\ASRockRackSrvMgmt	E	Browse	
At least 191.2 MB of free disk space is required.			
< Back Nex	t >	Ca	ancel

3. Select start menu folder

🗟 Setup - ASRockRackSrvMgmt	_		×
Select Start Menu Folder Where should Setup place the program's shortcuts?			
Setup will create the program's shortcuts in the following St	art Me	nu folder.	
To continue, click Next. If you would like to select a different folder,	click Bi	rowse.	
ASRockRack Utility\ASRockRackSrvMgmt	E	Browse	
< Back Next	t >	Ca	ncel

4. Ready to install

Setup - ASRockRackSrvMgmt −		×
Ready to Install Setup is now ready to begin installing ASRockRackSrvMgmt on your computer.	6	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	vr	
Destination location: C:\Program Files (x86)\ASRockRack Utility\ASRockRackSrvMgmt Start Menu folder: ASRockRack Utility\ASRockRackSrvMgmt	^	
< 	> Can	Icel

5. Finish



3.2. Linux

Download asrrmgnttool_vx.x.x.zip from the ASRock Rack official web site, unzip the file into the installation folder. Execute below commands from the installation folder to start the program with GUI interface, check CLI section for the command line options.

• \$sudo ./asrrmgnttool

Note:

1. You need to run above commands with root privileges.

3.3. System Requirement

Client machine with 8GB RAM or above. Supported browsers: Chrome, IE11 and above, Firefox.

Note:

For HTML5 KVM, it is advisable to use Chrome or IE as your default browser, since Firefox has its own memory limitations.

4. Management Interface

When you launch the program for the first time, it looks like the following screenshot. You can find the version number the program title and program screen is separated into two parts: function menu is on the left-hand side and the main operational area is on the right-hand side.

Click on this button to minimize the function menu.

	ASRockRack Server Management v2.2.12									
ASRockRack										English 🖥
🖵 Login	Group configur	ation								
	Group		Begin		End		Extra		Exclude	
	Group2		IPv4 address		IPv4 address	16	Pv4 address array		IPv4 address array	E New
	Found Online	Group	Begin	End	Extra	Ex	clude	User	Password	

Begin: Set begin IP address of the range.End: Set end IP address of the range.Add group: Click on to add group entry.

4.1. Login

To login servers, input the IP range under group configuration and click on Add group button, and then the group entry will be added into the list with default Group# name, you may change the group name by editing the Group column and click on the save button. If you want to redefine the IP range you can delete the entry by clicking on the delete button. After adding the group entry, you can click on the scan button to identify our servers within the IP range, the found column will display the number of server found when the detection is done. Before trying to login, you need to provide username and password, note that all servers within a group must be using the same username and password, the default username and password are both "admin".



Note:

- 1. *IP range overlap between groups is not supported, error message will popup when you try to add IP overlapped group.*
- 2. It is recommended to change the username and password after first login, you can apply the change with the "User Management" function.

After clicking on the login button, program will try to login on the found servers, the online column will update to report the number of servers that were successfully login. You may click on the drop down button to get the list of online servers' information that including IP address, Model name, BMC firmware version, BIOS firmware version and Login username, as shown below.

					ASRockRa	ack Server Manag	ement v2.	2.12						
ASRockRack	=													English
🖵 Login	Group	configu	ration											
i Dashboard	Group			Begin		End		Extra		Exclude				
Lul System Inventory	Group	3		192.168.0.90		192.168.0.120		IPv4 addres	s array	IPv4 address array			Ē	New
	Found	Online	Group	Begin		End	Extra	Exclude	User	Password				
	3	0	Group1	192.168.36.70	19	2.168.36.130	None	None	admin	•••••	Login	C	×	~
IPMI Event Log	1	1	Group2	192.168.0.90	19	92.168.0.120	None	None	admin	•••••	Login	C	×	~
BMC Update				Server Addres	s			Model	BMC	BIOS	Login u	iser		
1 BIOS Update	192.168	3.0.110						S4P2143	1.00.00	L1.03	admin			
BIOS Settings														
SMBIOS Data														
🖵 Remote Control														
ひ Power Control														
1 Virtual Media														
Platform Event Filter														
嶜 User Management														
☑ SMTP Settings														

Begin: Set begin IP address of the range.End: Set end IP address of the range.Add group: Click on to add group entry.

- Click on to save the group name if changed the default value.
- Scan the IP range to identify ASRock Rack servers.
- **x** Delete the group entry.
- Click on to display detailed information.
- Login Login servers using the provided username and password for authentication.

4.2. Function Menu

A list of functions will be shown on the left hand side of the program screen after login. When you click on the function menu, the right-hand side operational area will display the content accordingly. Usually you can change to another function at any time, exception is BMC/BIOS firmware update. During the update, BMC cannot perform any other functions.

🖵 Login
i Dashboard
LIII System Inventory
Lul FRU Information
Lul IPMI Event Log
🏝 BMC Update
🏝 BIOS Update
▲ BIOS Settings
SMBIOS
Remote Control
ර Power Control
1 Virtual Media
Platform Event Filter
😤 User Management

4.3. Dashboard

Dashboard provides some basic information such as firmware version, network configuration and sensors status. You can retrieve information from one server at a time, and switch to another server by selecting the IP address from the drop-down list.

ASRockRack Server Management v	2.0.5				
ASRockRack	=				
🖵 Login	Basic Information 🔁				
i Dashboard			192.168.36	5.92	
System Inventory	Firmware Information	Sensor N	lonitoring		UID
EFRU Information	BMC 0.09.00	Status	Sensor Name	Reading	• On • Blink • Off
IPMI Event Log	Firmware Version	•	-∕v+ 3VSB	3.36 V	E (1) (10)
BMC Update	BIOS L0.16	•	-∿- 5VSB	5.01 V	Event Logs(10)
BIOS Update	Firmware Version	•	-/⊷ CPU1_VCORE	1.77 V	Existing Event
	ME Firmware 4.0.4.57	•	-∿- PVCCSA	0.87 V	Free Space
BIOS Settings	Version	•	-∿⊷ VCCM_AB	1.19 V	
SMBIOS	Microcode 0200004d Version	•	-/⊷ VCCM_CD	1.19 V	
Remote Control	CPLD Version N/A	•	-∿⊷ VCCIO	1 V	
Power Control		•	-∕⊷ VNN	0.86 V	
A Cat 1 8 4 - 45 -	Network Information #1	•	-⁄⊷ +1V05	1.05 V	
		•	-⁄v₊ +1.8V	1.77 V	
Platform Event Filter	MAC D0:50:99:E2:8B:1C Address	•	<i>∿</i> ⊷ BAT	3.14 V	
User Management	V4 DHCP	•	-⁄h+ +3V	3.26 V	
	Network Mode	•	-∿++5V	4.98 V	
	IPv4 192 168 36 92	•	-∿• +12V	12 V	
	Address		MR Temp	O'neb& 14	

Drop down list: Select server from this IP list.

C- Click on to refresh information.

Firmware Information

The Firmware Information displays the following information.

BMC Firmware Version: Displays the BMC firmware version of the device. **BIOS Firmware Version**: Displays the BIOS firmware version of the device. **ME Firmware Version**: Displays the ME (or PSP) firmware version of the device.

Microcode Version: Displays the microcode version of the device. **CPLD Version**: Displays the version of CPLD of the device.

Note:

BIOS version, ME (or PSP) version and Microcode version will be refreshed when the system POST; please restart the system if you see nothing on screen.

Network Information

The Network Information of the device with the following fields is shown here.

MAC Address: Read-only field shows the MAC address of the device.

V4 Network Mode: The v4 network mode of the device can be either static or DHCP.

IPv4 Address: The IPv4 address of the device.

V6 Network Mode: The v6 network mode of the device can be either static or DHCP.

IPv6 Address: The IPv6 address of the device.

Sensor Monitoring

Here lists all the available sensors on the device with the following information.

Status: This column displays the state of the device.

- In Normal state
- Critical State
- Not Available

Sensor Name: Displays the name of the sensor. *Reading:* Displays the value of sensor readings.

UID

Here displays the UID status and it also supports the UID control function. The user can click the circle icon to change the UID status.

Event Logs

Here displays a graphical representation of all events and occupied/available space in logs.

4.4. System Inventory

This function list all the devices detected by the firmware, such as CPU, memory, storage device, and PCIE device. Select the server from the dropdown list and the detected devices will be updated. Details information will be displayed when you click on a group item.

ASRockRack Server Management v2	.0.1	_		Х			
ASRockRack	=			^			
🖵 Login	System Inventory Information						
i Dashboard	192.168.36.33						
Lul System Inventory							
LIL FRU Information	CPU (1) Memory (1) Pule & OUP Cara (1)						
ևև IPMI Event Log	CPU 1						
🏝 BMC Update							
🏝 BIOS Update	Manufacturer						
▲ BIOS Settings	Product Name B3BFEBFBFF00050654						
SMBIOS	Product Version Intel(R) Xeon(R) Gold 5117 CPU @ 2.00GHz						
🖵 Remote Control							
ථ Power Control							
🏝 Virtual Media				Ŧ			

Note:

- 1. The information will be refreshed when the system POST, please restart the system if you see nothing on screen.
- 2. The information on this page may differ by platforms.

4.5. FRU Information

This displays the FRU (Field Replaceable Unit) storage information. Structure definition can be found in the Platform Management FRU Information Storage Definition specification; usually it includes chassis, board and product information.

ASRockRack Server Management v2.0	0.1				_		×
🖵 Login	FRU Information						^
i Dashboard		192.168.36.33					
ևև System Inventory	Available FRU Devic	Available FRU Devices					
Lul FRU Information	FRU Device ID	0 •					
ا <u>سا</u> IPMI Event Log	FRU Device Name	SEEPROM					
🌲 BMC Update							-
🕹 BIOS Update	Chassis Information	1	Board Information	n	Product Information		
▲ BIOS Settings	Chassis Information Area Format Version	a 0	Board Information Area Format Version	1	Product Information Area Format Version	1	
SMBIOS	Chassis Type		Language	0	Language	0	
🖵 Remote Control	Chassis Part Number		Manufacture Date	Thu Feb 9	Product Manufacturer		
() Power Control	Chassis Serial Number		Time	2017	Product Name		
	Chassis Extra		Board Manufacturer	ASRockRack	Product Part Number		
🕹 Virtual Media			Board Product		Product Version		
Platform Event Filter			Name		Product Serial Number		•

FRU Device ID: Select the FRU ID from the list. **FRU Device Name:** Display the FRU device name.

4.6. IPMI Event Log

This function displays the event logs recorded on the server, select a server from the IP drop-down list. The event log data will update shortly. You can use the sensor name or record type filter options to view those specific events, or you can click on the column header to sort the list of entries by Event ID, Time Stamp or Sensor Name.

ASRockRack Server Management v2.0.	1						-	n x
🖵 Login	Event Lo	og						^
i Dashboard					192.168.36.33			•
Lul System Inventory	⊖BMC Timez	CTimezone (® one	Client	UTC Offset GMT + 8:0	:			
LILI FRU Information								
LIII IPMI Event Log							a constant a co	
🌲 BMC Update						к	ecords: 10	•
🏝 BIOS Update	Event ID 11	Time Stamp ↓↑	Sensor Name	ţţ.	Sensor Type	Record Type	Description	
BIOS Settings			Select Sensor Na	ame 🔻		Select Record Type 🔹		
SMBIOS	115	12/10/2018, 12:06:16	Power_Off		Power Unit	System Event Records	State Asserte	d
🖵 Remote Control	114	12/10/2018,	FAN6		Fan	System Event Records	Lower Non-	
Ů Power Control		11:54:37					critical - goir low	g
ᆂ Virtual Media	113	12/10/2018,	FAN4		Fan	System Event Records	Lower Non-	
Platform Event Filter		11:04:37					low	8
					_			•

Select Sensor Name: Filter events with one of the sensors.

Select Record Type: Filter events with one of the record types.

BMC Timezone: Displays the events with BMC UTC Offset timestamp.

Client Timezone: Displays the events with Client UTC Offset timestamp. **UTC Offset:** Displays the current UTC Offset value based on which event time stamps will be updated.

Clear Event Logs: To delete all the event logs.

Download Event Logs: To download all the existing event log records.

Clear All Event Logs: Delete all the event logs on the selected servers.

Download All Event Logs: Download all the existing event log records from the selected servers.

4.7. BMC Update

This function can update BMC firmware for multiple servers. Click on the image button and select firmware file in the open file dialog, or input the file path and name in the edit box, and then check the IP checkbox of the model entry and click on start button to start. The status column will display "Upgrading" and the progress bar will report the percentage of work that has been completed.

ASRockRack Server Management v2.0	0.1					- 0	Х
🖵 Login	BMC Update						^
i Dashboard	IP	Model	BMC Ver.	S tatus	progress		
Lul System Inventory	192.168.36.27	EP2C621D12 WS	0.07.00	Idle			
Lul FRU Information	192.168.36.132	EP2C622D16NM	1.21.fe	Idle			
ဖြား IPMI Event Log	192.168.36.181	EPYCD8	0.05.02	Idle			
🛓 BMC Update	192.168.36.118	D2000D8UM	0.04.00	Idle			
BIOS Update	192.168.36.33	EP2C622D16NM	1.14.05	Idle			
▲ BIOS Settings	192.168.36.28	EP2C622D16FM	1.50.00	Idle			
SMBIOS	192.168.36.150	EP2C621D16-4LP	0.03.02	Idle			
	192.168.36.117	D2000D8UM	0.04.02	Idle			
🖵 Remote Control	No file selected					Start	
ර් Power Control							
🛓 Virtual Media							
Platform Event Filter							•

IP column: Check the IP of the server to update BMC firmware.

Model: Display the model name of the server.

BMC Ver.: Display the current BMC firmware version.

Status: Display the BMC update status.

Progress: Display the BMC update progress.

Image: Select BMC firmware image file.

Start: Click on to start.

Note:

BMC firmware cannot perform any other task during the update, and after the update BMC will reboot itself. You have to wait until the status become to "Idle" before switching it to other function.

4.8. BIOS Update

This function can update BIOS firmware for multiple servers. Click on the image button and select firmware file in the open file dialog, or input the file path and name in the edit box, and then check the IP checkbox of the model entry and click on start button to start. The status column will display "Upgrading" and the progress bar will report the percentage of work that has been completed.

ASRockRack Server Management v2.	D.1						-		×
🖵 Login	BIOS Upda	ate							^
i Dashboard	IP		Model	BIOS Ver.	S tatus	progress			
Lul System Inventory	192.16	58.36.27	EP2C621D12 WS	L0.09	Idle				
LIII FRU Information	192.16	58.36.132	EP2C622D16NM	P1.30	Idle				
ဖြစ် IPMI Event Log	192.16	58.36.181	EPYCD8	L0.16i	Idle				
🌲 BMC Update	192.16	58.36.118	D2000D8UM	L0.16	Idle				
🛓 BIOS Update	192.16	58.36.33	EP2C622D16NM	L1.15R	Idle				
L BIOS Settings	192.16	58.36.28	EP2C622D16FM	L1.21	Idle				
	192.16	58.36.150	EP2C621D16-4LP		Idle				
	192.16	58.36.117	D2000D8UM	L0.16	Idle				
🖵 Remote Control	🗞 Image	No file selected						Start	
එ Power Control							_		
🕹 Virtual Media									
Platform Event Filter									Ţ

IP column: Check the IP of the server to update BIOS firmware.

Model: Display the model name of the server.

BMC Ver.: Display the current BIOS firmware version.

Status: Display the BIOS update status.

Progress: Display the BIOS update progress.

Image: Select BIOS firmware image file.

Start: Click on to start.

Note:

BIOS related functions will not be available during the update, and after the update BIOS will reboot itself. You have to wait until the status become to "Idle" before switching it to other function.

4.9. BIOS Settings

This function provides an interface to view or change the BIOS settings. The settings will be synchronized during the system POST, so that you can access the BIOS settings remotely without rebooting the system for entering the BIOS setup interface; however, you have to reboot the system for the changed settings to take effect. You can do that with the power control function after modifying the settings. And you can make the same modifications to multiple servers with the Apply button.

SRockRack Server Management v2.0.1									
i Dashboard	Refere	nce:				^			
Lul System Inventory		192.168.36.132							
LIII FRU Information					Co	en			
Lul IPMI Event Log		IP	Model	BIOS Ver.	Status				
🏝 BMC Update		192.168.36.27	EP2C621D12 WS	L0.09	Idle				
♣ BIOS Undate		192.168.36.132	EP2C622D16NM	P1.30	Idle				
		192.168.36.181	EPYCD8	L0.16i	Idle				
BIOS Settings		192.168.36.118	D2000D8UM	L0.16	Idle				
SMBIOS		192.168.36.33	EP2C622D16NM	L1.15R	Idle				
🖵 Remote Control		192.168.36.28	EP2C622D16FM	L1.21	Idle				
ර් Power Control		192.168.36.150	EP2C621D16-4LP		Idle				
ᆂ Virtual Media		192.168.36.117	D2000D8UM	L0.16	Idle				
Platform Event Filter		192.168.0.104	EP2C622D16NM	L1.15	Idle				
🚰 User Management					1 Ap	ply 🗸			

Reference: Select a reference server to edit BIOS settings, then you may apply the changes to others.

Open: Click on to open the BIOS setup interface.

Apply: Apply the BIOS settings from the reference server to others.

4.9.1. BIOS Settings Interface

This function displays BIOS settings. You can navigate through each page to check or change the setup items and save the changes on the Exit page. The modified setup items will be take effect after system reboot. You may do that with the power control function.



Note:

Default username and password to login the function is "Administrator" and "superuser".

4.10. **SMBIOS**

This function provides system management BIOS data retrieved from BIOS. System must be powered on for this function to work.

SMBIOS			
		192.168.2.100	
[BIOS Information] (Type 0)	[BIOS Information] (Type	0)	
[System Information] (Type 1)	Time	0~00	
[Base Board Information] (Type 2)	Type	0,00	
[System Enclosure or Chassis] (Type 3)	Length	0x18	
[System Slots Information] (Type 9)	Handle	0x00	
[System Slots Information] (Type 9)	BIOS Vendor	American Megatrends Inc.	
[System Slots Information] (Type 9)			
[System Slots Information] (Type 9)	BIOS Vension	L1.15A	
[System Slots Information] (Type 9)	Start Address Segment	0xF000	
[System Slots Information] (Type 9)	Release Date	04/11/2018	
[System Slots Information] (Type 9)	DOM Size	0VEE (16384KB)	
[OEM Strings] (Type 11)	ROM SIZE	0XFF (10364KB)	
[System Boot Information] (Type 32)	BIOS Characteristics	0x0000001378B9880	
[System Event Log] (Type 15)	Characteristics Ext1	0x03	
(Physical Memory Array) (Type 16)	Bit0 ACPI supported		
[Memory Array Mapped Address] (Type 19)	Bit1 USB Legacy is supported		
[Memory Device] (Type 17)	Bit2 ACP is supported		
[Memory Device] (Type 17)	Dit2 AGP is supported		
[Memory Device] (Type 17)	Bita izo boot is supported		

4.11. Remote Control

You can use HTML5 KVM or Java KVM interface to control the server remotely.

ASRockRack Server Management	v2.0.1				– 🗆 X
🖵 Login	Remo	ote Control			
i Dashboard	KVM	I			
Lul System Inventory	Serve	er List:			
LIII FRU Information	192.	168.36.33-Group1			•
ևև IPMI Event Log				Launch HTML5 KVM	Launch JAVA KVM
🏝 BMC Update	_				
▲ BIOS Update	BMC	Control		Re	eset Load default
BIOS Settings		IP	Model	BMC Ver.	Status
SMBIOS		192.168.36.27	EP2C621D12 WS	0.07.00	Idle
🖵 Remote Control		192.168.36.132	EP2C622D16NM	1.21.fe	Idle
ပံ Power Control		192.168.36.181	EPYCD8	0.05.02	Idle
1 Virtual Media		192.168.36.118	D2000D8UM	0.04.00	Idle
Platform Event Filter		192.168.36.33	EP2C622D16NM	1.14.05	Idle

Server: Select the server from the IP list. **Launch HTML5 KVM:** Click on to start HTML5 KVM function. **Launch JAVA KVM:** Click on to start JAVA KVM function.

4.11.1. HTML5 KVM

Launching HTML5 KVM will invoke the default browser on the client system.

	+ ~					L	ш
	誤 https://192.168.36.181/viewer.html			□ ☆	չե	l∼ l	B
Stop KVM			🕲 CD Imag	e: Browse File	(0 KB)	Start	t M
eo▼ Mouse▼ Options▼ K	eyboard ▼ Send Keys ▼ Hot Keys ▼ Vide	o Record Power Act	ive Users ▼ Language ▼	Help 🗸	Zoom 10	0%	Þ
						_	
Hain Advances	ptio Setup Utility – Copyrigh	: (C) 2018 American	Megatrends, Inc.				
Main Huvanceu	i AMD CBS Chipset Server Mg	It security boot	EVENT LUgs EXIT				
UEFI Version	: EPYCD8 L0.16i		Set the Date. Us	e Tab to			
BMC Version Processor Tune	: 0.05.03 · AMD EPVC 7551 32-Core Pro	resson	Switch between D	ate elemer	nts.		
Troccasor Type	. 1110 EFTO 1331 32 0010 110		Year: 2005-2099				
Processor Speed	: 2036MHz		Months: 1-12				
Microcode Updat	e : 800F12/8001227 Cache : 64KB		Days: dependent	on month			
L1 Data Cache S	Size : 32KB						
L2 Cache Size	: 512KB						
La cache per ac	UKEL . 04Mb						
DDR4_A1	: None						
DDR4_B1	: None		++ · Select Scree	n			
DDR4_D1	: None		14: Select Item				
DDR4_E1	: None		Enter: Select				
DDR4_F1	: None : 868 (DDR4-2133)		+/-: Change Opt.				
DDR4_H1	: None		F2: Previous Val	ues			
Total Manager			F3: Optimized De	faults			
Total Memory	: 868		ESC: Exit				
System Date	[Sat 07	(21/2018]					
System Time	[06:37:)4]					

4.11.2. JAVA KVM

This function will download jviewer.jnlp file from server. You need to install Java web start program to launch it successfully.

🔀 JViewer [192.168.36.181] - [800 x 600] - 2 fps	– 🗆 X
Video Keyboart Mouse Options Media Keyboard Layo Video Recor Power Active User Help	Zoom Size : Disabled
	🔝 📃 🕗
Aptio Setup Utility — Copyright (C) 2018 American Main Advanced AMD CBS Chipset Server Mgmt Security Boot	Megatrends, Inc. Event Logs Exit
UEFI Version : EPYCD8 L0.16i BMC Version : 0.05.03 Processor Type : AMD EPYC 7551 32-Core Processor	Set the Date. Use Tab to switch between Date elements. Default Ranges: Year: 2005–2099
Processor Speed : 2036MHz Microcode Update : 800F12/8001227 L1 Instruction Cache : 64KB L1 Data Cache Size : 32KB L2 Cache Size : 512KB L3 Cache per Socket : 64MB	Months: 1–12 Days: dependent on month
DDR4_A1: NoneDDR4_B1: NoneDDR4_C1: NoneDDR4_D1: NoneDDR4_E1: NoneDDR4_F1: NoneDDR4_G1: 8GB (DDR4-2133)DDR4_H1: None	<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit</pre>
System Date [Sat 07/21/2018] System Time [06:43:25]	ESC: Exit
Version 2.18.1264. Copyright (C) 2018 American Me	egatrends, Inc. B4 LT LCTRL RALT RCTRL Num Caps Scroll

Note:

You may download Java runtime from this link: https://java.com/en/download/

4.12. Power Control

This function reports power status of all login servers and also can perform power action on them. Select the server by checking the checkbox from the server list, and then click on the action button. It may take a while to update the power status.

ASRockRack Server Management v2.0	1				—	\times
🖵 Login	Power Control					^
i Dashboard	Actions					
Lul System Inventory	Power off Power	er up Power cycle Hard reset	ACPI Shutdown(Soft Shutdown)			
Lul FRU Information	IP IP	Mode	I	Status		
ဖြ။ IPMI Event Log	192.168.36	.27 EP2C	521 D 12 W S	Power on		
🌲 BMC Update	192.168.36	.132 EP2C	522 D 16NM	Power on		
🛓 BIOS Update	192.168.36	.181 EPYC	38	Power on		
BIOS Settings	192.168.36	.118 D200	ID8UM	Power on		
SMBIOS	192.168.36	.33 EP2C	522 D 16NM	Power off		
🖵 Remote Control	192.168.36	.28 EP2C	22D16FM	Power on		
() Power Control	192.168.36	.150 EP2C	521D16-4LP	Power off		
	192.168.36	.117 D200	D8UM	Power on		
🕹 Virtual Media						
Platform Event Filter						•

Power off: To immediately power off the server.

Power up: To power on the server.

Power cycle: To first power off, and then reboot the server (cold boot).Hard reset: To reboot the server without powering off (warm boot).ACPI Shutdown(Soft Shutdown): To initiate operating system shutdown prior to the shutdown (actual behavior may depend on OS settings).

4.13. Virtual Media

This function let you attach local USB device to the remote server. Select server from the IP column, then select type and drive or image file, and then click on the action button to start the function.

ASRockRack Server Management v2	.0.1			-		×
🖵 Login	Virtual Media Redirection	1				*
i Dashboard	IP	Туре	Drive/Image		Action	1
Lul System Inventory	192.168.36.33-Group1 •	CD/DVD 🔻	D:\www\OS\Ubuntu\ubuntu-16.04.1-desktop-amd64.iso		ወ	
LIL FRU Information						
Lul IPMI Event Log						
🕹 BMC Update						
🛓 BIOS Update						
▲ BIOS Settings						
SMBIOS						
🖵 Remote Control						
එ Power Control						
1 Virtual Media						
Platform Event Filter						•

IP column: Select the server from the IP list. **Type:** Select the media type.

Drive/Image: Select hard drive or image file. **Action:** Start or stop the function.

4.14. Platform Event Filter

Platform Event Filter (PEF) provides a mechanism for configuring the BMC to take selected actions on event messages that it receives or has internally generated. These actions include operations such as system power-off, system reset, as well as triggering the generation of an alert. Select a reference server and edit the settings with it, and then you can apply the settings to other servers.

You can configure the platform event filter to alert the administrator when an event occurred in the server. The receiver can be another server that listens to a group of servers, or can be a group of email addresses.

ASRockRack Server Management v2.0	.1				– 🗆 X
i Dashboard	Referen	ice server:			
Lul System Inventory	192.16	8.36.33-Group1			
LIII FRU Information	event	filters alert policies la	an-destinations		
မြာ IPMI Event Log					
ᆂ BMC Update					1 Apply
🏝 BIOS Update		IP	Model	BIOS Ver.	Status
▲ BIOS Settings		192.168.36.27	EP2C621D12 WS	L0.09	Idle
SMBIOS		192.168.36.132	EP2C622D16NM	P1.30	Idle
🖵 Remote Control		192.168.36.181	EPYCD8	L0.16i	Idle
		192.168.36.118	D2000D8UM	L0.16	Idle
O Power Control		192,168,36,33	EP2C622D16NM	L1.15R	Idle
🕹 Virtual Media		192.168.36.28	EP2C622D16FM	L1.21	Idle
Platform Event Filter		192.168.36.150	EP2C621D16-4LP		Idle
👑 User Management		192.168.36.117	D2000D8UM	L0.16	Idle ,

Reference server: Select a server and edit the settings, and then you may apply them to others.

4.14.1. Event Filters

This page is used to configure Event filters. You can modify or add new event filter entry from here. By default, 15 event filter entries are configured among the 40 available slots. Click on the edit button to start the filter configuration.

ASRockRack Server Management v2	.0.1				_		×
ASRockRack	≡						^
🖵 Login	Platfo	orm Event Filt	ter / even	t-filters			
i Dashboard		400 400 00 00					1
🔟 System Inventory	Serve	r:192.168.36.33				васк	
	ID	Status	Enabled	Description		Edit	
Lul FRU Information	1	Configured	•	when All Sensors switches to any severity run Alert (1) $\&$ none		ľ	
Lul IPMI Event Log	2	Configured	٠	when All Sensors switches to any severity run Alert (2) & none		ľ	
🌲 BMC Update	3	Configured	•	when All Sensors switches to any severity run Alert (3) $\&$ none		ľ	
🏝 BIOS Update	4	Configured	•	when All Sensors switches to any severity run Alert (4) $\&$ none		Ø	
▲ BIOS Settings	5	Configured	•	when All Sensors switches to any severity run Alert (5) $\&$ none		ľ	
	6	Configured	•	when All Sensors switches to any severity run Alert (6) & none		Ø	
SWRIO2	7	Configured	•	when All Sensors switches to any severity run Alert (7) & none		ſ	
🖵 Remote Control	8	Configured	•	when All Sensors switches to any severity run Alert (8) & none		Ø	
එ Power Control	9	Configured	٠	when All Sensors switches to any severity run Alert (9) & none		Ø	
🛓 Virtual Media	10	Configured	•	when All Sensors switches to any severity run Alert (10) & none		ľ	-

Event Filter Configuration: Configure the event filter for the selected slot.

ASRockRack Server Management v2	0.1	- 🗆 X
i Dashboard	Fortune V	Back
System Inventory	Entry 1	Edit
LIII FRU Information	Enable this filter	Ø
Lill IPMI Event Log	Event severity to trigger	Ø
🛓 BMC Update	Any severity 🔹	C
🏝 BIOS Update	Power Action	C
▲ BIOS Settings	None v	Ø
	Alert Policy Group Number	Ø
SWBIOS	1 *	Ø
🖵 Remote Control	🗷 Raw Data	Ø
ථ Power Control	Generator ID 1	C
🏝 Virtual Media	255	C
Platform Event Filter	Generator ID 2	C
😻 liser Management	255	Ø
- oser management		

Enable this filter: Check the box to enable the PEF settings.

Event Severity to trigger: Select any one of the Event severity from the list. **Power Action:** Select any one of the power action either Power down, Power reset or Power cycle from the drop-down list

Alert Policy Group Number: Select any one of the alert policy group number from the drop-down list.

Raw Data: Check the box to fill the Generator ID with raw data.

Generator ID 1: Enter the raw generator ID1 data value.

Generator ID 2: Enter the raw generator ID2 data value.

Generator Type: Choose the event generator as slave address - if event is generated from IPMB.

Slave Address/Software ID: Specify corresponding I2C slave address or system software ID.

Channel Number: Choose the particular channel number through which the event message is received over. Choose "0" if the event message is received via the system interface, primary IPMB, or internally generated by the BMC.

IPMB Device LUN: Choose the corresponding IPMB device LUN if event is generated by IPMB.

Sensor type: Select the type of sensor that will trigger the event filter action. **Sensor name:** Choose the particular sensor from the sensor list.

Event Options: Choose event option to be either all events or sensor specific events.

Event Trigger: Enter the raw event/reading type value.

Event Data 1 AND Mask: Indicate wildcarded or compared bits.

Event Data 1 Compare 2: Indicate whether each bit position's comparison is an exact comparison or not.

Event Data 2 AND Mask: Similar to Event Data 1 AND Mask.

Event Data 2 Compare 1 & Event Data 2 Compare 2: Similar to Event Data 1 Compare 1 and Event Data 1 Compare 2 respectively.

Event Data 3 AND Mask: Similar to Event Data 1 AND Mask.

Event Data 3 Compare 1 & Event Data 3 Compare 2: Similar to Event Data 1 Compare 1 and Event Data 1 Compare 2 respectively.

4.14.2. Alert Policies

This page is used to configure the Alert Policy for the PEF configuration. You can add, delete or modify an entry in this page. Click on the edit button to open the configuration page.

ASRockRack Server Management v2	2.0.1					-		×
ASRockRack	=							^
🖵 Login	Platfor	m Event Fi	lter / aler	t-policies				
i Dashboard	Server	192.168.36.33	}				Back	
Lill System Inventory								
ull FRU Information	Group	Status	Enabled	Description	Lan channel	Send to	Edit	
ဖြစ် IPMI Event Log	1	Configured	•	Always send alert to this destination	1	0	Ø	
↑ RMC Undate	2	Configured	٠	Always send alert to this destination	1	0	Ø	
	3	Configured	•	Always send alert to this destination	1	0	Ø	
EIOS Update	4	Configured	•	Always send alert to this destination	1	0	Ø	
BIOS Settings	5	Configured	•	Always send alert to this destination	1	0	đ	
SMBIOS	6	Configured	•	Always send alert to this destination	1	0	Ø	
🖵 Remote Control	7	Configured	•	Always send alert to this destination	1	0	Ø	
U Power Control	8	Configured	•	Always send alert to this destination	1	0	Ø	
🕹 Virtual Media	9	Configured	•	Always send alert to this destination	1	0	Ø	-

ASRockRack Server Management v2.	0.1			_		×
i Dashboard					Back	Â
Lul System Inventory	Policy 1	×	Lan	Send	Edit	
LIII FRU Information	Policy Group Number		channel	to	Luic	
📶 IPMI Event Log	1	•	1	0	ľ	
🛓 BMC Update	Enable this alert		1	0	ľ	
▲ BIOS Update	Policy Action		1	0	ľ	
	Always send alert to this destination	v	1	0	ľ	
BIOS Settings	LAN Channel		1	0	đ	
SMBIOS	1	v	1	0	ľ	
🖵 Remote Control	Destination Selector		1	0	đ	
也 Power Control		v	1	0	đ	
			1	0	ľ	
Virtual Media	Event specific Alert String		1	0	đ	
Platform Event Filter	Alert String Key		1	0	ſ	
矕 User Management		<u> </u>	1	0	đ	-

Alert Policies: Configure the alert policies for the selected slot.

Policy Group Number: Displays the Policy number of the configuration. **Enable this alert:** Check the box to enable the policy settings.

Policy Action: Choose any one of the Policy set values from the list.

LAN Channel: Choose a particular channel from the available channel list.

Destination Selector: Choose a particular destination from the configured destination list.

Event Specific Alert String: Check the box to specify event-specific Alert String. **Alert String Key:** Specify which string is to be sent for this Alert Policy entry.

4.14.3. LAN Destination

This page is used to configure the LAN destination of PEF configuration. Click on the edit button to open the configuration page.

ASRockRack Server Management	v2.0.1				_		×
ASRockRack	≡						
🖵 Login	Platform	I Event Filte	r / lan-destinations				
i Dashboard	Server:19	2.168.36.33				Back	
III System Inventory	_						
Lul FRU Information	Channel	Destination	Destination Type	Send To	Test Alert	Edit	
🔟 IPMI Event Log	1	1	snmp		1	Ø	
▲ BMC Undate	1	2	snmp		1	Ø	
	1	3	snmp		1	Ø	
BIOS Update	1	4	snmp		4	C	
BIOS Settings	1	5	snmp		4	ſ	
SMBIOS	1	6	snmp		1	Ø	
🖵 Remote Control	1	7	snmp		1	Ø	
じ Power Control	1	8	snmp		1	C	
🛓 Virtual Media	1	9	snmp		1	Ø	

LAN Destination Configuration: Configure the LAN destination for the selected slot.

ASRockRack Server Management v2	0.1	_		×
i Dashboard	Server:102.168.36.33		Back	Î
Lul System Inventory	LAN destination 1 ×	-		
Lill FRU Information	LAN Channel	Test Alert	Edit	
📶 IPMI Event Log	1	1	C	
🌲 BMC Update	LAN Destination		ľ	
▲ BIOS Update	1	1	C	
	Destination Type	1	Ø	
BIOS Settings	SNMP Trap	1	ľ	
SMBIOS	If Destination type is SNMP Tran. then give the IP address of the system that will receive the	4	ľ	
🖵 Remote Control	alert. Destination address will support the following: 1. IPv4 address format. 2. IPv6 address format.	1	đ	
ပံ Power Control		1	ľ	
ᆂ Virtual Media	SNMP Destination Address	1	ľ	
🏟 Platform Event Filter		1	đ	
	Delete Save	1	I	
矕 User Management	1 12 snmp	1	ß	-

LAN Channel: Displays LAN Channel Number for the selected slot (read only). **LAN Destination:** Displays ID for setting Destination Selector of Alert Policy (read only).

SNMP Destination Address: Destination type can be either an SNMP Trap or an E-mail alert. For E-mail alerts, the four fields - SNMP Destination Address, BMC User Name, Email subject and Email message needs to be filled. For SNMP Trap, only the SNMP Destination Address has to be filled.

BMC User Name: If Destination type is Email Alert, then choose the user to whom the email alert has to be sent.

4.15. User Management

This function displays the current list of user accounts on the server. You can add a new user and modify or delete the existing users.

ASRockRack Server Management v	2.0.1	—	\times
ASRockRack	=		▲
🖵 Login	User Management		
i Dashboard	User list Delete Create/Modify		1
Lul System Inventory			
Lul FRU Information			
မြာ၊ IPMI Event Log			
🛓 BMC Update			
ᆂ BIOS Update			
BIOS Settings			
Remote Control			
Power Control			_
			Ť

User list: Click on to get current user list.

Delete: Enter delete user account interface.

Create/Modify: Enter create or modify user account interface.

4.15.1. User List

ASRockRack Server Manageme	t v2.0.1		- 🗆 X
ASRockRack	=		
🖵 Login	User Management / user list		
i Dashboard	192.168.36.33-Group1		• 3
Lul System Inventory	ID Name Status Privilege	Capabilities	E-mail
Lul FRU Information	1 anonymous Disabled Administrator	KVM VMedia	
Lul IPMI Event Log	2 admin Active Administrator	KVM VMedia	
🏝 BMC Update	3 Disabled		
1 BIOS Update	4 Disabled		
BIOS Settings	5 Disabled		
	6 Disabled		
S 2WRIO2	7 Disabled		
🖵 Remote Control	8 Disabled		
U Power Control	9 Disabled		
🛓 Virtual Media	10 Disabled		

This page displays the current user account information.

ID: Sequence number of the user.
Name: User account name.
Status: User account status.
Privilege: User account privilege level.
Capabilities: Specific function access right.
E-mail: E-mail setting of the user account.

4.15.2. Delete

This function can delete existing users and create or modify user account.

ASRockRack Server Management v	2.0.5			
ASRockRack	=			
🖵 Login	<u>User Management</u> / Delet	te user		
i Dashboard	÷	Select a	user id	→
Jul System Inventory	User id			
LIII FRU Information	1			v
🔟 IPMI Event Log				
🌲 BMC Update				
▲ BIOS Update				
▲ BIOS Settings				
SMBIOS				
🖵 Remote Control				
ර Power Control				
1 Virtual Media				
Platform Event Filter				
😤 User Management				

User id: Select a user id to delete. - Go to next page.

- Go to previous page.

To delete the user account on servers, select the user ID, and you can send the delete command to selected servers.

ASRockRack ■ Login User Management / Delete user / Deploy i Dashboard i M System Inventory i Im FRU Information IP M IPMI Event Log 192.168.36.114 M BMC Update 192.168.36.92 D 192.168.36.182 EP2C621D8-16R	BMC Ver. 0.09.02	±∪pd Status Idle
Login i Dashboard ii Dashboard iii System Inventory iiii FRU Information iiii 1PMII Event Log iiiii 192.168.36.92 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	BMC Ver. 0.09.02	±üpd Status Idle
i Dashboard i Dashboard i Dashboard i Dashboard i Dashboard i Deploy to all servers IP IP Model I92.168.36.114 X7P-MB I92.168.36.92 D2100D4I I92.168.36.182 EP2C621D8-16R	BMC Ver. 0.09.02	±Upd Status Idle
IPMI Event Log IP Model bMC Update 192.168.36.92 D2100D4I 192.168.36.182 EP2C621D8-16R	BMC Ver.	Status
IP Model IPMI Event Log IP2.168.36.114 X7P-MB IPMI Event Log IP2.168.36.92 D2100D4I BMC Update IP2.168.36.182 EP2C621D8-16R	BMC Ver.	Status
IPMI Event Log IPMI Event Log IP2.168.36.114 X7P-MB IPMI Event Log IP2.168.36.92 D2100D4I IP2.168.36.182 EP2C621D8-16R	0.09.02	Idle
BMC Update 192.168.36.92 D2100D4I 192.168.36.182 EP2C621D8-16R	0.09.00	
BMC Opdate 192.168.36.182 EP2C621D8-16R	0.09.00	ldle
	0.03.00	ldle
BIOS Update 192.168.36.99 EP2C621D16GM Series	1.00.00	ldle
BIOS Settings 🗌 192.168.36.40 EP2C622D16NM	1.14.15	ldle
SMBIOS - 192.168.36.150 X299 WS/IPMI	1.01.00	ldle
192.168.36.63 EPYCD8 Remote Control	0.05.02	ldle
192.168.36.158 EPYCD8	0.07.00	ldle
192.168.36.155 EP2C621D16-4LP	0.09.01	ldle
Virtual Media 192.168.36.138 X299 WS/IPMI	1.01.00	ldle
Platform Event Filter 192.168.36.42 EP2C622D24LM2	0.01.00	ldle

IP: Select server from the IP list.
Model: The model name of the server.
BMC Ver.: BMC firmware version of the server.
Status: Current status of the BMC firmware.

4.15.3. Create/Modify

This function edits user account settings. You can reset all the settings and then apply them to servers.

ASRockRack Server Management v2.0.1			×	
ASRockRack	=			Â
🖵 Login	User Managemen	<u>t</u> / user editor		
i Dashboard	÷	Edit user information	-	F
Lul System Inventory	Userid			
Lul FRU Information	1			r
ևև IPMI Event Log	Enter the name of t	the new user. 1. User Name is a string of 1 to 16 alpha-numeric characters. 2. It must st	art with	
▲ BMC Update	an alphabetical cha allowed.	aracter. 3. It is case-sensitive. 4. Special characters '-'(hyphen), '_'(underscore), '@'(at s	sign) are	
ᆂ BIOS Update	Username			
BIOS Settings				
SMBIOS	Password Size			
🖵 Remote Control	16 bytes			r
ပံ Power Control	Enter a strong pass	sword which consist of atleast one upper case letter, alphanumeric and special charact		
🛓 Virtual Media				-

User id: Select user account ID.

Username: Enter the name of the user.

Password Size: Either 16 Bytes or 20 Bytes password size can be chosen. **Password:** Enter the password of the user.

Confirm Password: Confirm the password.

Enable User Access: Enabling user access will intern assign the IPMI messaging privilege to user.

Network Privilege: Select the network privileges assigned to the user. **Serial Privilege:** Select the serial privileges assigned to the user.

KVM Access: Assign the KVM privilege for the user.

VMedia Access: Assign the VMedia privilege for the user.

Note: Both KVM and VMedia privilege will enable/disable automatic when Network Privilege is administrator(other).

Email Format: Specify the format for the email. Two types of formats are available.

AMI-Format: The subject of this mail format is 'Alert from (your Host name)'. The mail content shows sensor information, ex: Sensor type and Description. Fixed-Subject Format: This format displays the message according to user's setting. You must set the *subject and message for email alert.* **Email ID:** Enter the email ID of the user. If the user forgets the password, the new password will be mailed to the configured email address.

Create/modify user account on servers. After filling up the form, you can apply the settings to servers.

SASRockRack Server Management v	2.0.5				_ 0 <u>×</u>
ASRockRack	=				
🖵 Login	<u>User Ma</u>	nagement / Edit user	/ Deploy		
i Dashboard	*		Deploy to all servers		‡ ∐ndate
Lul System Inventory					
III FRU Information		IP	Model	BMC Ver.	Status
lui IPMI Event Log		192.168.36.114	X7P-MB	0.09.02	Idle
E in this Event Eog		192.168.36.92	D2100D4I	0.09.00	Idle
▲ BMC Update		192.168.36.182	EP2C621D8-16R	0.03.00	Idle
🛓 BIOS Update		192.168.36.99	EP2C621D16GM Series	1.00.00	Idle
▲ BIOS Settings		192.168.36.40	EP2C622D16NM	1.14.15	Idle
SMBIOS		192.168.36.150	X299 WS/IPMI	1.01.00	Idle
		192.168.36.63	EPYCD8	0.05.02	Idle
		192.168.36.158	EPYCD8	0.07.00	Idle
ර් Power Control		192.168.36.155	EP2C621D16-4LP	0.09.01	Idle
1 Virtual Media		192.168.36.138	X299 WS/IPMI	1.01.00	Idle
Platform Event Filter		192.168.36.42	EP2C622D24LM2	0.01.00	Idle
😤 User Management					

IP: Select server from the IP list.
Model: The model name of the server.
BMC Ver.: BMC firmware version of the server.
Status: Current status of the BMC firmware.

5. Command line (cli)

This utility supports command line interface, it will enter command line mode when it launch with arguments. Run it in console with --help parameter to display the usage.

Usage: asrrmgn	ttool <command/>	[options]	
Commands:			
asrrmgnttool	group	Group management	
asrrmgnttool	bmc_update	Update BMC firmware	
asrrmgnttool	bios_update	Update BIOS firmware	
asrrmgnttool	рожег	Power control	
asrrmgnttool	vmedia	Virtual media	
asrrmgnttool	user	User account control	
asrrmgnttool	bios_settings	Bios settings	
asrrmgnttool	smbios	SMBIOS data	
asrrmgnttool	event	System event log	
asrrmgnttool		launch GUI interface	[default]
Options:			
help	Show help		[boolean]
version	Show version n	umber	[boolean]
log	Write log to f	ile	
logappend	Append log to	existing file	[boolean]
Examples:			
1. Update 2	servers BMC fir	<pre>wware: asrrmgnttool bmc_update -f file -h</pre>	
192.168.0.10	0 192.168.0.101	-u admin -p admin	
2. Create Gr	2. Create Group1 servers: asrrmgnttool group -b 192.168.0.100 -e		
192.168.0.12	192.168.0.120scan		
3. Power on (admin	Group1 servers:	asrrmgnttool power on -g Group1 -u admin	- p

Options:

help	Show help
version	Show version number
log=filename	Write log to file
logappend	Append log to existing file

5.1. group

Use group command to maintain group information which define a range of IP addresses, extra IP address list and/or excluded IP addresses.

5.1.1. new

new Create a group Options:

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

5.1.2. delete

delete Options:	Delete a group or remove server from group
-g,group	Name of the group to delete
-h,host	IP address of the server to remove

5.1.3. add

add	Add a server into group
Options:	
-g,group	Name of the group
-h,host	IP address of the server to add

5.1.4. scan

scan	Scan servers and update to the group info
Options:	
-g,group	Name of the group to scan

5.1.5. list

list	List the group info
Options:	
-g,group	Name of the group to show the info

5.2. bmc_update

Use bmc_update command to update BMC firmware, with various options you can update servers' BMC firmware by group or by IP address list.

bmc_update Update BMC firmware

Options:

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

5.3. bios_update

Use bios_update command to update BIOS firmware, with various options you can update servers' BIOS firmware by group or by IP address list.

	bios_update	Update BIOS firmware
(Options:	
	-f,file	Firmware image
	-g,group	The group to update
	-b,begin	Begin IP address of the range
	-e,end	End IP address of the range
	-h,host	IP address list to update
	-x,exclude	IP address list to exclude
	-s,scan	Scan the IP range for servers before update
	-u,username	Username to login
	-p,password	Password to login

5.4. power

Use power command to control servers' power state such as on, off, cycle, reset or shudown.

5.4.1. status

status	Return power status
Options:	
-g,group	The group to do power control
-b,begin	Begin IP address of the range
-e,end	End IP address of the range

-h,host	IP address list to do power 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

5.4.2. on

on	Power on servers
Options:	
-g,group	The group to do power control
-b,begin	Begin IP address of the range
-e,end	End IP address of the range
-h,host	IP address list to do power 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

5.4.3. off

on	Power off servers
Options:	
-g,group	The group to do power control
-b,begin	Begin IP address of the range
-e,end	End IP address of the range
-h,host	IP address list to do power 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

5.4.4. cycle

cycle	Power cycle servers
Options:	
-g,group	The group to do power control
-b,begin	Begin IP address of the range
-e,end	End IP address of the range
-h,host	IP address list to do power 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

5.4.5. reset

reset	Hard reset servers
Options:	
-g,group	The group to do power control
-b,begin	Begin IP address of the range
ام مرم	End ID address of the rener

-e,end	End IP address of the range
-h,host	IP address list to do power control
-x,exclude	IP address list to exclude
-s,scan	Scan the IP range for servers
-u,username	Username to login
-x,exclude -s,scan -u,username	IP address list to exclude Scan the IP range for servers Username to login

-p, --password Password to login

5.4.6. shutdown

shutdown	ACPI shutdown(Soft shutdown) servers
Options:	
-g,group	The group to do power control
-b,begin	Begin IP address of the range
-e,end	End IP address of the range
-h,host	IP address list to do power 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

5.5. vmedia

Use vmedia command to do virtual media function, you can redirect and local iso image or local hard drive to remote servers.

vmedia	Virtual media
Options:	
-g,group	The group to do power control
-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 function
-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

5.6. user

Use user command to do user account control, you can set user account with various options or delete user account.

5.6.1. list

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 \sim 10)

5.6.2. set

set	Set 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	User ID (1 ~ 10)
name	User name
pswd	User password

ess
n
ual media
User snmp
User prev_snmp
User network privilege
User snmp access
User privilege limit serial
otocol User snmp authentication protocol
User snmp privacy protocol
User email address
User password size

5.6.3. delete

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	User ID (1 ~ 10)

5.7. bios_settings

Use bios_settings command to get/set bios settings through BMC interface, you need to reboot the system to let the adjusting bios options to take effect.

5.7.1. get	
get	Collect the bios attribute
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
path	File directory (the default is current path)
dircet, -d	Bios settings

5.7.2. value

value	BIOS value to acquire
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
path	File directory (the default is current path)
all, -a	Get all bios attribute
option, -o	Option bios value to acquire

5.7.3. set

set	Set BIOS settings
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
path	File directory (the default is current path)
all, -a	Get all bios attribute
dircet, -d	Bios settings

5.7.4. apply

apply	Apply bios	settings

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
path	File directory (the default is current path)
reference, -r	Reference ip of bios settings

5.8. smbios

Use smbios command to retrieve SMBIOS data through BMC.

5.8.1. info

Return SMBIOS data info
The group to do user control
Begin IP address of the range
End IP address of the range
IP address list to do user control
IP address list to exclude
Scan the IP range for servers
Username to login
Password to login

5.8.2 get

get	Get SMBIOS data structure
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

handle	Specific the SMBIOS data handle number
decode	Display decoded data

5.9. event

Use event command to download event log data from BMC.

5.9.1. download

download	Download ipmi event log
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
path	Event log file directory (the default is current path)

5.9.2. clear

clear	Clear event log
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

6. Compatibility

This utility supports server motherboard built with BMC AST2500 chip. Intel Platform: Purley, Denverton, Skylake-D, Mehlow, Basin Falls. AMD Platform: Naples.

Some of the functions may need to update BIOS/BMC firmware to support them, contact ASRock Rack support team to check the approval models.

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