

knowledge base and tools



Knowledge base

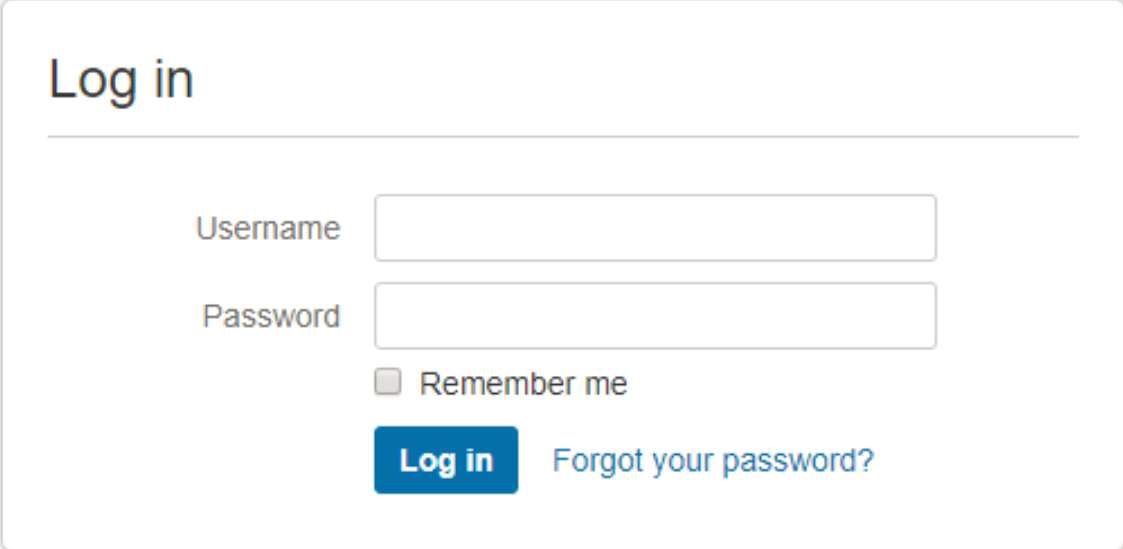
客户服务中心
04/26/2020

Knowledge Base

KB Url: <http://218.57.146.166:8443/display/H>

Input the Username and password to log in the knowledge base

Username: overseas Password: overseas



Log in

Username

Password

☐ Remember me

[Forgot your password?](#)

Knowledge Base

Choose knowledge base from homepage

Pages  

Inspur Service Knowledge Base System

Created by 邓杨, last modified by 邓杨 on Feb 05, 2018

产品资料 Product Documentation



服务器-SV



STR-存储



高性能



云产品

快捷入口 Site Navigation



Knowledge Base



定制化指令



SV故障库



STR故障库

Knowledge Base

Choose different part, get different knowledge

The screenshot displays the Inspur Knowledge Base interface. The top navigation bar includes the Inspur logo, "Knowledge Base", and tabs for "空间" (Space), "人员" (Personnel), "创建" (Create), and a menu icon. A search bar and utility icons are on the right.

The main content area is divided into five columns, each representing a different knowledge category, all highlighted with red boxes:

- Product Documentation**
 - > NF Series
 - > NX Series
 - > SA Series
 - > NS Series
 - > TS Series
- Component Product Documentation**
 - Graphics card
 - > Hard disk
 - HBA card
 - > HCA Card
 - Memory
 - > NIC
 - > Raid&SAS controller
- Tools**
 - BMC&BIOS Flash User Guide
 - Check GPU tool
 - Service Essential Tools
 - Update the Firmware of MB (SOP)
- Troubleshooting Document**
 - > BMC Settings
 - > CPU Problem
 - > Disk Problem
 - > External Card
 - > Fan Problem
 - > Network Card
 - > No Power
 - > RAID Problem
 - > Ram Problem
 - > System Problem
 - > Unexpected Crash
- Customized instructions**
 - Customized instructions

On the left sidebar, the "knowledge base" section is highlighted with a red box. It includes a "博文" (Blog) icon and a "空间快捷链接" (Space Quick Link) section. Below this is a "页面树结构" (Page Tree Structure) section, also highlighted with a red box, containing a list of links:

- > Component Documentation
- > Customized instructions
- > Product Documentation
- > SV Troubleshooting Document and Technical Instruction
- > Tools
- > Training

At the bottom of the main content area, there is a "赞" (Like) button and a note "2人赞了它" (2 people liked it). On the far right, there is a "无标签" (No tags) button.

Knowledge Base

- **Component Documentation**

This part provides the component documentation, such as hard disk, memory, NIC, Raid and so on.

- **Customized instructions**

This part provides the customized instruction and customized firmware, when the engineer maintains a customized, he need to pay attention to this part.

- **Product Documentation**

This part introduces the different product provides the product document.

- **SV Troubleshooting Document and Technical Instruction**

This part provides troubleshooting documents and technical instructions.

- **Tools**

This part provides different tools, including log collecting, firmware updating.

- **Training**

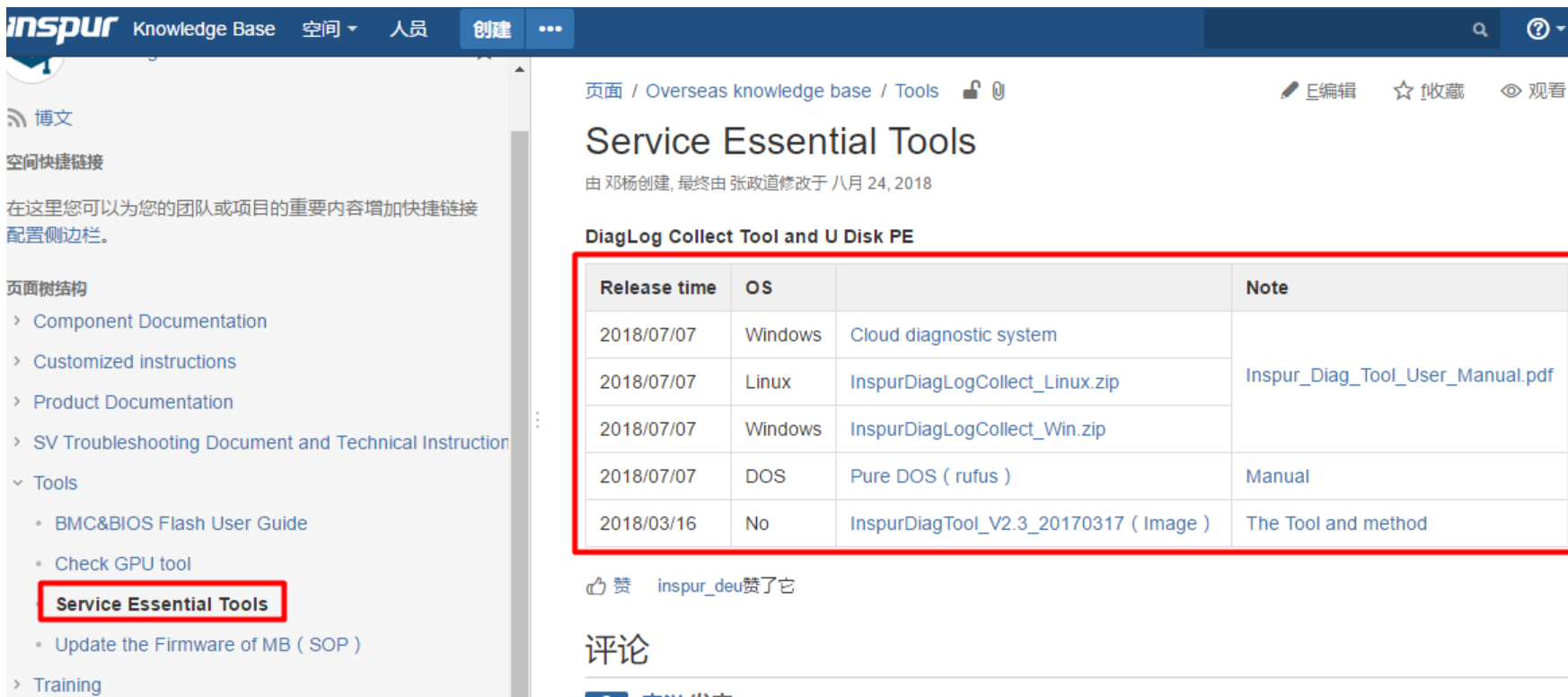
New engineer training and new product training

Tools

客户服务中心
04/26/2020

Tools

In this part the engineer can download the log-collecting tools, DOS tool.



inspur Knowledge Base 空间 人员 创建 ...

博文

空间快捷链接

在这里您可以为您的团队或项目的重要内容增加快捷链接配置侧边栏。

页面树结构

- > Component Documentation
- > Customized instructions
- > Product Documentation
- > SV Troubleshooting Document and Technical Instruction
- Tools
 - BMC&BIOS Flash User Guide
 - Check GPU tool
 - Service Essential Tools**
 - Update the Firmware of MB (SOP)
- > Training

页面 / Overseas knowledge base / Tools

Service Essential Tools

由 邓杨创建, 最终由 张政道修改于 八月 24, 2018

DiagLog Collect Tool and U Disk PE

Release time	OS		Note
2018/07/07	Windows	Cloud diagnostic system	Inspur_Diag_Tool_User_Manual.pdf
2018/07/07	Linux	InspurDiagLogCollect_Linux.zip	
2018/07/07	Windows	InspurDiagLogCollect_Win.zip	
2018/07/07	DOS	Pure DOS (rufus)	Manual
2018/03/16	No	InspurDiagTool_V2.3_20170317 (Image)	The Tool and method

赞 inspur_deu赞了它

评论

未登录

Tools

- **Cloud diagnostic system**

The cloud fault diagnosis system is oriented to customer service, test and engineering personnel and is used for log analysis when a fault occurs to the server. But the log must be **collected by InspurDiagLogCollect tool**.

- **InspurDiagLogCollect_Linux**

The Linux version log collection tool is oriented to customer service, test and engineering personnel, and the tool runs under the **Linux system** to collect server fault logs.

- **InspurDiagLogCollect_Win**

The Windows version log collection tool is oriented to customer service, test and engineering personnel, and the tool runs under the **Windows system** to collect server fault logs..

- **Pure DOS （ rufus ）**

Make an pure DOS PE by rufus tool.

- **InspurDiagTool**

The tool provide a Linux environment, the engineer can filling the tool into a USB disk by the rufus tool.

All Inspur Tools

Tool	OS	Usage	Note
Cloud diagnostic system	Use on Windows	1. Automatic log analysis The log must be collected by InspurDiagLogCollect tool. Note: The Cloud diagnostic system analysis is not necessarily accurate. If necessary, please contact Global Support	Inspur Diag Tool User Manual.pdf
InspurDiagLogCollect_Linux.zip	Use on Linux	1. Log collecting The tool runs under the Linux system	
InspurDiagLogCollect_Win.zip	Use on Windows	1. Log collecting The tool runs under the Windows system	
Pure DOS (rufus)	Self boot DOS	1. Updating BMC/BIOS/FRU	Manual
InspurDiagTool_V2.3_20170317 (Image)	Self boot Linux PE	1. Log collecting 2. HDD/Memory/CPU pressure test 3. Updating BMC/BIOS/FRU	The Tool and method
Inspur Server U-Disk Manager Suite (ISUMS)	Self boot Linux PE	1. Updating BMC/BIOS/FRU 2. Hardware config 3. HDD/Memory/CPU hardware Diagnosis	Manual of ISUMS
Knowledge base	NA	1. Component Documentation 2. Customized instructions 3. Product Documentation 4. SV Troubleshooting Document and Technical Instruction 5. Tools 6. Training	http://218.57.146.166:8443/display/H
Troubleshooting Guides	NA	1. Analyze and deal with common server faults	http://www.gzwxsl.com

Cloud diagnostic system

<http://218.57.146.166:8888/#/sign>

Input the user name, password and verification code, then log in the system. (The user/password is same with your online system)



The image shows a login interface for ISCDS. The title is "Login to ISCDS" with a language selector (A 文) in the top right. There are three input fields: "username" (with a red border and error message "Please input username"), "password" (with a toggle icon), and "identifying code" (with a CAPTCHA image showing "mJAT"). Below the fields are "login" and "register" buttons. The footer contains "Copyright © 2018 Inspur".

Login to ISCDS

username

Please input username

password

identifying code

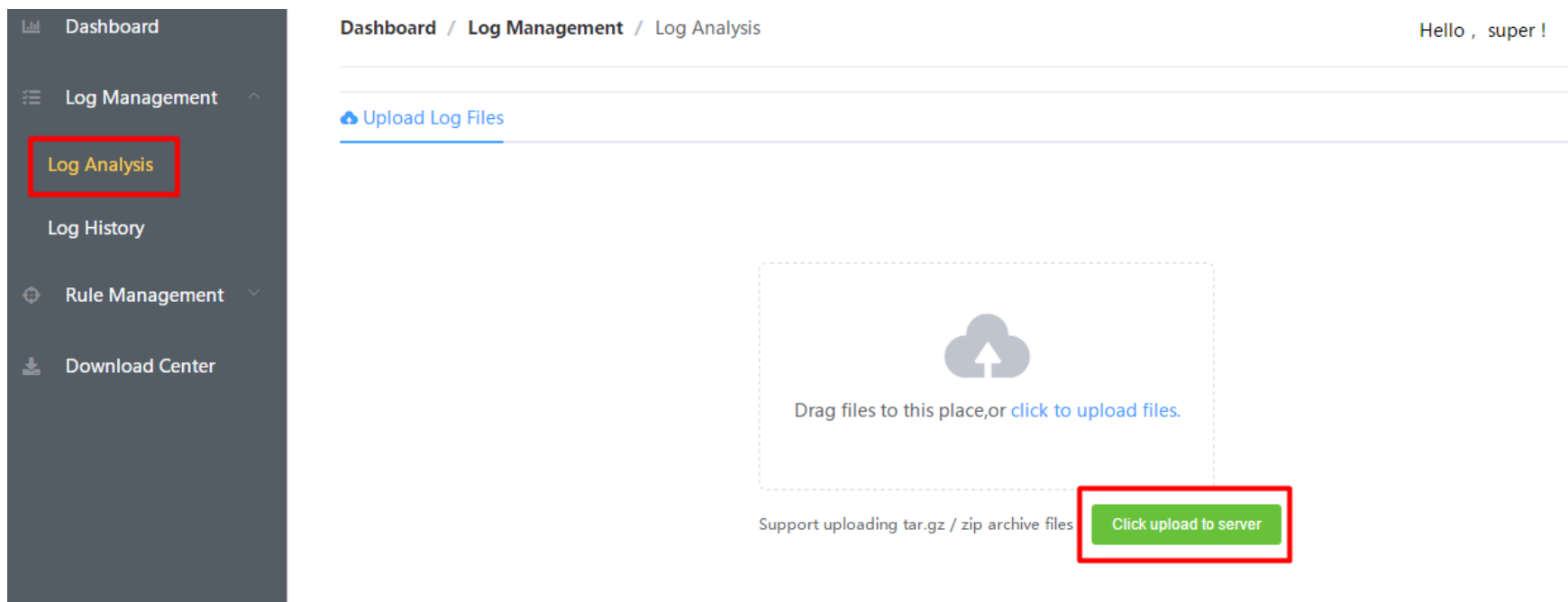
mJAT

login register

Copyright © 2018 Inspur

Cloud diagnostic system

Click "Upload Log Files " to perform log upload.



Cloud diagnostic system

A fault diagnosis is made automatically after the logs are uploaded, and the diagnosis results are displayed on the interface.

Note: the log must be collected by InspurDiagLogCollect tool. There is still some Chinese on the system. We will update the system later

The screenshot displays the 'Results' tab of the Inspur Cloud Diagnostic System. On the left, a sidebar lists diagnostic levels: Board Level (1), Sensor (1), Component Level (10), Memory (6), CPU (4), Register Level (3), and MSR (3). A red box highlights the 'Sensor' section, which shows a warning 'Warn 温度过高' (Warn High Temperature) with a count of 2. The main area shows system details: Type: NF8480M4, sn: 218493235, ip: 10.128.124.102, Path: /bmc/sel_elist.txt. Below this, a table of log entries is shown, with a red box highlighting the 'Reason' section for the selected entry. The reason is '风扇工作效率低或散热差' (Low fan work efficiency or poor heat dissipation), the description is '温度过高' (High temperature), and the solution is '检查环境温度、入风口灰尘、风扇转速是否过低，位置INLET1_1。' (Check ambient temperature, inlet dust, fan speed, and location INLET1_1).

Results Prediction

Type: NF8480M4 sn : 218493235 ip : 10.128.124.102 Path: /bmc/sel_elist.txt

Pre row number - 10 + Postset number - 10 + See Time View Fault location

18:	12		10/17/2018		06:05:16		Power Supply PSU3_Supply		Presence detected		Asserted
19:	13		10/17/2018		06:10:36		Drive Slot HDD0_Status		Drive Present		Asserted
20:	14		10/17/2018		06:10:36		Drive Slot HDD1_Status		Drive Present		Asserted
21:	15		10/17/2018		06:10:51		OS Stop/Shutdown OS_Status		OS graceful shutdown		Asserted
22:	16		10/17/2018		06:18:37		OS Boot BIOS_Boot		boot completed - device not specified		Asserted
23:	17		10/17/2018		06:25:30		OS Stop/Shutdown OS_Status		OS graceful shutdown		Asserted
24:	18		10/17/2018		06:32:59		OS Boot BIOS_Boot		boot completed - device not specified		Asserted

Reason:
风扇工作效率低或散热差
Description:
温度过高
Solution:
检查环境温度、入风口灰尘、风扇转速是否过低，位置INLET1_1。

Inspur group 04/26/2020

inspur 浪潮

● Log collecting tools

The instructions of different log collecting tools

Tool	Model	Instruction
InspurDiagInfoCollect (Windows)	Local	The tool runs under the Windows operating system of the server and obtains the OS system log, RAID card log, BMC log and other hardware logs.
	Remote	The tool runs on the remote PC(Win OS) and accesses the target server BMC to acquire the BMC log, blackbox log, CPU register log and other BMC related logs.
InspurDiagInfoCollect (Linux)	Local	The tool runs under the Linux operating system of the server and obtains the OS system log, RAID card log, BMC log and other hardware logs.
	Remote	The tool runs on the remote PC(Linux OS) and accesses the target server BMC to acquire the BMC log, blackbox log, CPU register log and other BMC related logs.

● Log collecting tools

Collecting different logs in different fault situations

Fault	Describe	Logs need collected	Tools
BMC related	The front indicator is abnormal The fan is abnormal The system abnormal shutdown/reboot	BMC, blackbox	InspurDiagInfoCollect (Remote mode)
	... The system abnormal crash	BMC, blackbox, CPU register	
OS related	Network is abnormal The system abnormal shutdown/reboot/crash The hardware has something fault in the OS log	OS log	InspurDiagInfoCollect (Local mode)
Raid/HDD related	Data read/write slowly The HDD/Raid is offline There are something alarm from the Raid card	Raid card log	

● Log collecting tools

InspurDiagLogCollect-Win :

Installation steps

☐ Download the latest version tool from the customer service website;

☐ package is consistent with the original software package on the website

☐ Obtain ar

☐ Double-c

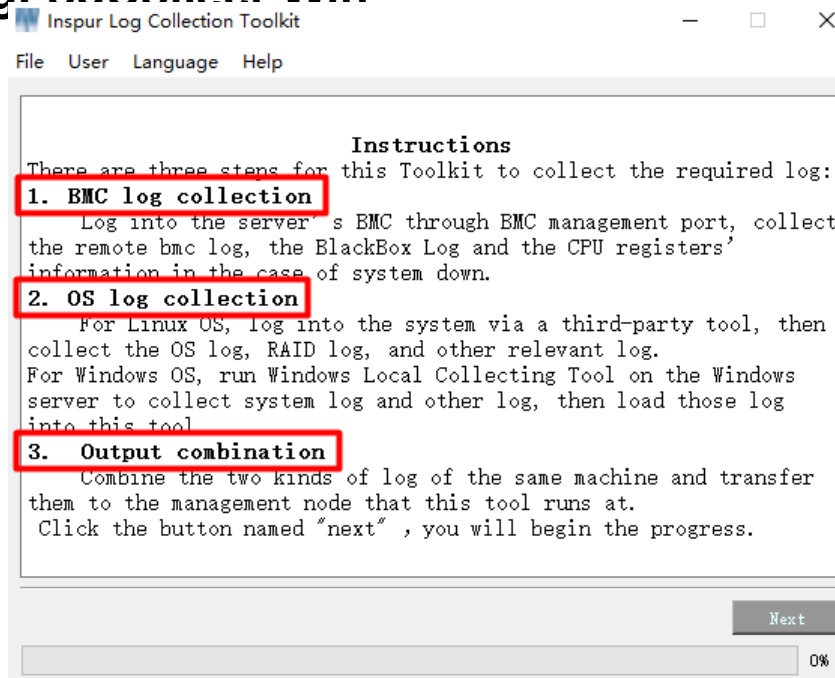
collection tc

config	2019/9/27 16:29
ipmitool	2019/8/7 11:23
logsdire	2019/11/25 12:22
tools	2019/9/26 11:03
blackbox_decrypt.exe	2018/1/8 15:41
config.ini	2019/4/15 14:38
get.bat	2018/1/8 15:41
InspurDiagLogCollect.exe	2019/9/27 15:04
wget.exe	2018/1/8 15:41

the log

● Log collecting tools

InspurDiagnoseCollect-Win .



● Log collecting tools

InspurDiagLogCollect-Win : BMC log:

The screenshot shows the 'Inspur Log Collection Toolkit' window. Key elements include:

- BMC log collection**: A section header at the top.
- BMC IP address input**: A text field for entering the BMC IP address.
- Username**: A text field with 'admin' entered.
- Password**: A password field with masked characters.
- platform**: A dropdown menu set to 'Auto Mode'.
- pick it when dumped**: A checkbox that is currently unchecked.
- Run** and **Stop**: Buttons for starting and stopping the collection process.
- Batch collection**: A section with **Template** and **Upload** buttons.
- Remote IPMI command mode**: A section with an 'Input from right' dropdown and an 'execute' button.
- Previous** and **Next**: Navigation buttons.
- Messages**: A section at the bottom showing a progress bar at 0% and a 'Clear' button.

- BMC log collection can collect BMC, black box and register logs. Input BMC IP, user name and password. Check to collect CPU register information when the machine is dumped. it is useful. It is not checked by default. If the machine is down, it needs to be checked manually. According to the number of CPUs, it needs 5-20 times

- Platform selection. This option is used to collect CPU register information. It is not collected by default. When checked, it will

● Log collecting tools

InspurDiagLogCollect-Win : BMC log:

● Log collection is successful

```
*****
Inspur blackbox log decryption tool 1.1.0
*****
Usage: tools\blackbox_decrypt\windows\blackbox_decrypt.exe blackbox_filename.
Usage: 10.7.11.76_20170911_194157\bmc\logs\blackboxpeci.log blackbox_filename.
Decrypt Success to 10.7.11.76_20170911_194157\bmc\logs\blackboxpeci_decode.log

Execut done!

=====
Start compress logfile...
a -trip NF5280M4_0_10.7.11.76_20170911_194157.zip NF5280M4_0_10.7.11.76_20170911_194157
Compress done:NF5280M4_0_10.7.11.76_20170911_194157.zip
***Collect Logs Done***
=====
```

● You can find the log package in the same folder.

config
 ipmitool
 LocalHostInfoCollect_Windows
 NF5280M4_0_10.7.11.76_20170911_172041
 NF5280M4_0_10.7.11.76_20170911_194157
 tools
 InspurDiagLogCollect.exe
 libgcc_s_dw2-1.dll
 libstdc++-6.dll
 libwinpthread-1.dll
 NF5280M4_0_10.7.11.76_20170911_194157.zip

2020

group

- Log collecting tools

InspurDiagLogCollect-Win : IPMItool CMD:

BMC log collection

BMC IP address input: 192.168.10.10

Run Stop

Batch collection

Username: admin

password: ●●●●●●

Templet Upload

platform: Auto Mode ☐ pick it when dumped

Remote IPMI command mode

Input from right: Please Select

- Please Select
- power status
- fru list
- mc info
- mc guid
- sensor list all
- sdr elist all
- sel elist
- sel time get
- lan print l

Previous Next

0%

Messages

BMC log collection

BMC IP address input: 192.168.10.10

Run Stop

Batch collection

Username: admin

password: ●●●●●●

Templet Upload

platform: Auto Mode ☐ pick it when dumped

Remote IPMI command mode

Input from right: Please Select

fru list

execute

Previous Next

● Log collecting tools

InspurDiagLogCollect-Win : OS log:

File User Language Help

OS log collection

Method 1: please input ip of Linux system

Run Stop

Batch collection

Templet Upload

Username:

password:

Method 2: (windows , linux) downloading and collecting locally

Import logs

Method 1: Only support Linux, enter IP address, username and password, then press But
Download the template, fill it in, and then upload it. Then press Button "Run" .
Method 2: First click "windows" or "linux" for downloading the collecting tool,
then run it locally, finally import the logs by the button named "import logs".

Previous Next

0%

- Select the system log collection tool according to the operating system differentiation of the server (Windows / Linux), click and select the save location, and then extract the compression package of inspurdiaglogcollect. Windows runs localhostinfocollect, and Linux runs. / run.sh.
- After running, a compressed package (file name is model serial number IP time, extension. Zip) will be generated under this folder, that is, the log of successful collection (including system log, raid card log, BMC

● Log collecting tools

InspurDiagLogCollect-Win :

Windows OS log:

- Upload the tool to the local server, unzip it to a folder, and double-click `localhostinfocollect.bat` to run the tool

Arcconf-Windows	2019/1/10 16:55	文件夹	
emcgrab	2019/1/10 16:55	文件夹	
ipmitool	2019/1/10 16:55	文件夹	
Megacli-Windows	2019/1/10 16:55	文件夹	
nic	2019/1/10 16:55	文件夹	
SmartCtrl-Windows	2019/1/10 16:55	文件夹	
system	2019/1/10 16:55	文件夹	
7z.dll	2018/1/28 23:00	应用程序扩展	1,095 KB
7z_english.exe	2018/1/28 23:00	应用程序	267 KB
7za.exe	2018/1/8 15:41	应用程序	493 KB
cpuRegister.bat	2018/1/8 15:41	Windows 批处理...	1 KB
ip.exe	2018/1/8 15:41	应用程序	6 KB
LocalHostInfoCollect.bat	2019/1/10 16:55	Windows 批处理...	3 KB
releaseLog.txt	2018/10/29 15:24	文本文档	1 KB

double-
click

- In the process of log collection, you need to wait for about 10 minutes (due to different machine configurations, system versions, log sizes and other factors, the time of log collection is variable)

● Log collecting tools

InspurDiagLogCollect-Win :

Windows OS log:

- After the log collection is completed, a compressed package (file name is model serial number IP time, extension. Zip) will be generated in the

Arcconf-Windows	2019/1/10 16:55	文件夹	
emcgrab	2019/1/10 16:55	文件夹	
ipmitool	2019/1/10 16:55	文件夹	
Megacli-Windows	2019/1/10 16:55	文件夹	
nic	2019/1/10 16:55	文件夹	
SmartCtrl-Windows	2019/1/10 16:55	文件夹	
system	2019/1/10 16:55	文件夹	
7z.dll	2018/1/28 23:00	应用程序扩展	1,095 KB
7z_english.exe	2018/1/28 23:00	应用程序	267 KB
7za.exe	2018/1/8 15:41	应用程序	493 KB
cpuRegister.bat	2018/1/8 15:41	Windows 批处理...	1 KB
ip.exe	2018/1/8 15:41	应用程序	6 KB
LocalHostInfoCollect.bat	2019/1/10 16:55	Windows 批处理...	3 KB
NF5280M4_216441486_192.168.10.13_20190121_171207.zip	2019/1/21 17:12	360压缩 ZIP 文件	2,757 KB
releaseLog.txt	2019/1/10/29 15:20	文本文档	1 KB

Windows OS
log

● Log collecting tools

InspurDiagLogCollect-Linux:

➤ Installation steps:

- ❑ Download the latest version tool from the customer service website;
- ❑ Package is consistent with the original software package on the website;
- ❑ Obtain an executable tool by decompression;

```
[root@localhost usb1]# cd InspurDiagLogCollect_Linux/InspurDiagLogCollect_Linux_V5.1.2_20180917/
[root@localhost InspurDiagLogCollect_Linux_V5.1.2_20180917]# ls
all_logs                                config.ini                             localMode                             process_manager.sh                 run_from_file.sh
arguments_parsing.sh                   collect_k1910_all.exp                  csr.py                               mcd_iot.py                        progress_bmc.sh                    runlog
ChannelConfirm.py                      collect_k1910_logs.exp                  decodeCPUReg.py                     mcd.py                            progress_os_per.sh                 run.sh
collect_checkIp.exp                    collect_k1910.sh                       DiagInfoCollect.sh                  modules                             progress_os.sh                     userinfo.conf
collect_getSerialNum.exp                collect_os_remote_clear.exp             final.sh                             multiple_process_z.sh              readConf.sh                       userinfo_os.conf
collect_k1910_1380.exp                  collect_os_remote.exp                   lib                                   pcie.py                            readme.txt
[root@localhost InspurDiagLogCollect_Linux_V5.1.2_20180917]# _
```


- Log collecting tools

InspurDiagLogCollect-Linux:

```
[root@localhost InspurDiagLogCollect_Linux_V4.2.0_20180413]# ./run.sh
=====
run.sh, used to call Diagnose Info Collect tool!
1. Local mode, tool should run in host os, to collect local logs!
2. Remote mode, tool should run in remote PC, to collect bmc logs!
=====
Please input BMC IP, No input will goto [Local Mode]!>
[root@localhost InspurDiagLogCollect_Linux_V4.2.0_20180413]# ./run.sh
=====
run.sh, used to call Diagnose Info Collect tool!
1. Local mode, tool should run in host os, to collect local logs!
2. Remote mode, tool should run in remote PC, to collect bmc logs!
=====
Please input BMC IP, No input will goto [Local Mode]!>100.2.7.2
Please input BMC User(Default:admin)>
Please input BMC PassWord(Default:admin)>
=====
Inspur Diag Info Collect: V4.2.0
Release Date:2018-04-13

-Only professionals are qualified to use this tool.
-Before performing any maintenance operations by using this
tool,obtain authorization from the customer.
=====
```

● Log collecting tools

InspurDiagLogCollect-Linux:

Linux OS log:

```

=====
Please input BMC IP, No input will goto [Local Model]>
=====
      Inspur Diag Info Collect: V5.1.2
      Release Date:2018-09-17

-Only professionals are qualified to use this tool.
-Before performing any maintenance operations by using this
tool,obtain authorization from the customer.
=====
[ bios]... Done
Excute [getbmclogs] ..... please waitlog i getpecilog
[ bmc]... Done
[ cpu]... Done
[ disk]... Done
[ driver]... Done
[ hba]... Done
[ memory]... Done
[ nic]... Done
[ raid]... Done
[ sysconf]... Done
[ system]... Done
compress NF5280M4_216441486_192.168.10.12_20150717_122313
==[ DONE ]=====
File Path: /usb/InspurDiagLogCollect_Linux/InspurDiagLogCollect_Linux_V5.1.2_20180917/NF5280M4_216441486_192.168.10.12_20150717_122313.tar.gz
File size: 1.7M
File md5sum: 83c9cb5ac44aa8f568d06566ff1d6b6b
=====
[root@localhost InspurDiagLogCollect_Linux_V5.1.2_20180917]#

```

Linux OS log

- Check the log after collecting

Remote BMC log

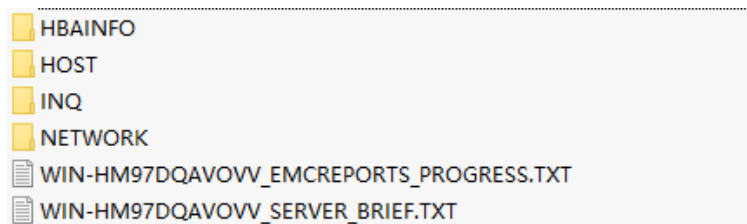
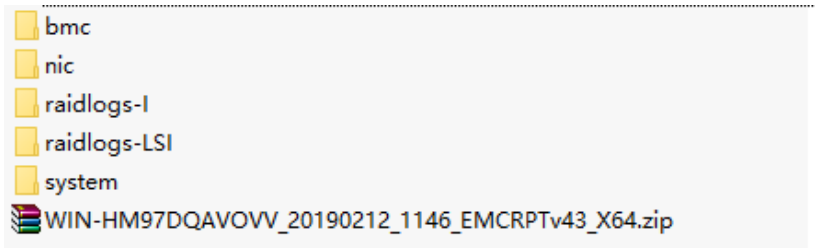
Model	Log	Remark
bmc	chassis_power_status.txt	Server power status
	bmc_customid.txt	Customer ID
	power_status.txt	Server power status
	fru.txt	FRU information
	mc_info.txt	BMC version
	sensor_list_all.txt	Sensor
	sensor.txt	
	sdr_elist_all.txt	
	sel_elist.txt	SEL log
	lan_print_1.txt	BMC network information
	lan_print_8.txt	
	lan_print.txt	
	blackbox.log	BMC blackbox log
	blackboxpeci.log	
	onekeylog.asp	BMC onekey log
	csr.txt	CPU CSR register
	msr.txt	CPU MSR register

Note : The main log refer to the list, the more detailed refer to the manual.

● Check the log after collecting

Windows OS log

Model	Log	Remark
BMC	fru.txt	FRU
	sensor_list_all.txt	Sensor
	sel_elist.txt	SEL
nic	Ipconfig.txt	Network information
	netclient.htm	
	netlogin.htm	
	nic.htm	
	nicconfig.htm	
Raid	raidlogs-l	Onboard intel Raid
	raidlogs-LSI	LSI/Avago RAID log
	raidlogs-A	PMC Raid log
system	drivers.txt	System information
	Hw_BIOSInfo.htm	
	Hw_CPUInfo.htm	
	Hw_DiskInfo.htm	
	Hw_MemInfo.htm	
	Hw_ProductInfo.htm	
	MEMORY.DMP	
	Sys_OSInfo.htm	
	Sys_ProcessList.htm	
	systeminfo.txt	
OS	WIN-xxx_EMCRPTv43_X64.zip	OS log














Note : The main log refer to the list, the more detailed refer to the manual.

● Check the log after collecting

Linux OS log

Model	Log	Remark
bios	version_bios.txt	BIOS version
	dmisystem.txt	System information
	dmidecode	DMI information
BMC	fru.txt	FRU
	sensor_list_all.txt	Sensor
	sel_elist.txt	SEL
	csr.txt	CPU CSR register
	msr.txt	CPU MSR register
cpu	cpuinfo.txt	CPU information
	cpu_dmidecode.txt	
disk	fdisk_l.txt	HDD information
	sys_block.txt	
	disklist	
	parted_disk.txt	
	disk_smart.txt	
driver	lsmod.txt	Driver information
memory	memory_dmidecode.txt	Memory information
	memory_free.txt	
	mem_ecc.txt	
nic	lspci_eth.txt	Network information
	ifconfig.txt	
	/etc/sysconfig/network-scripts/	
	ethtool.txt	
	modinfo.txt	
Raid	storcliAdpalilog	LSI/Avago RAID log
	MgEvtLog	
	support.tar.gz	PMC Raid log
system	/etc/	OS log
	/var/log/	
	last_reboot.txt	
	dump_list.txt	
	command_log.txt	

 bios
 bmc
 cpu
 disk
 driver
 hba
 memory
 nic
 raid
 sysconf
 system

2019/4/8 11:55 文件夹
 2019/4/8 11:55 文件夹
 2019/4/8 11:55 文件夹
 2019/4/8 11:55 文件夹
 2019/4/8 11:55 文件夹
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 2019/4/8 11:55 文件夹
 2019/4/8 11:55 文件夹
 2019/4/8 11:55 文件夹
 2019/4/8 11:55 文件夹

Note : The main log refer to the list, the more detailed refer to the manual.

BMC log collection method – M4/M5 platform

inspur Management System admin(Administrator) [General Information](#) [Refresh](#) [Language](#) [Help](#) [Logout](#)

- BMC Settings
- Logs
 - System Event Log**
 - BMC System Audit Log
 - Black Box Log
 - Event Log Setting
 - BMC System Audit Log Setting
- Fault Diagnosis
- System Maintenance

Event ID	Time Stamp	Severity	Sensor Name	Sensor Type	Description
247	01/01/2000 07:50:22		OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted
246	01/01/2000 07:49:00		System_Restart	System Boot / Restart Initiated	System Restart - Asserted
245	01/01/2000 07:48:25		OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted
244	01/01/2000 07:45:30		OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted
243	01/01/2000 07:44:01		System_Restart	System Boot / Restart Initiated	System Restart - Asserted
242	01/01/2000 07:43:26		OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted
241	01/01/2000 07:33:25		OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted
240	01/01/2000 07:31:55		System_Restart	System Boot / Restart Initiated	System Restart - Asserted
239	01/01/2000 07:31:17		Power_Status	System ACPI Power State	Legacy ON State - Asserted
238	01/01/2000 07:31:12		Power_Status	System ACPI Power State	Legacy OFF State - Asserted

« < 1 > »

[Export Log](#) [Clear Log](#)

BMC log collection method – M4/M5 platform

10.22.11.75/tmp/sel.txt							
Event ID	Time Stamp		Severity	Sensor Name	Sensor Type	Description	
247	01/01/2000	07:50:22	Information	OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted	
246	01/01/2000	07:49:00	Information	System_Restart	System Boot / Restart Initiated	System Restart - Asserted	
245	01/01/2000	07:48:25	Information	OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted	
244	01/01/2000	07:45:30	Information	OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted	
243	01/01/2000	07:44:01	Information	System_Restart	System Boot / Restart Initiated	System Restart - Asserted	
242	01/01/2000	07:43:26	Information	OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted	
241	01/01/2000	07:33:25	Information	OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted	
240	01/01/2000	07:31:55	Information	System_Restart	System Boot / Restart Initiated	System Restart - Asserted	
239	01/01/2000	07:31:17	Information	Power_Status	System ACPI Power State	Legacy ON State - Asserted	
238	01/01/2000	07:31:12	Information	Power_Status	System ACPI Power State	Legacy OFF State - Asserted	
237	01/01/2000	07:29:15	Information	System_Restart	System Boot / Restart Initiated	System Restart - Asserted	
236	01/01/2000	07:28:40	Information	Reset_Button	Button / Switch	Reset Button Pressed - Asserted	
235	01/01/2000	07:28:40	Information	OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted	
234	01/01/2000	07:27:48	Information	OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted	
233	01/01/2000	07:26:22	Information	System_Restart	System Boot / Restart Initiated	System Restart - Asserted	
232	01/01/2000	07:25:47	Information	Reset_Button	Button / Switch	Reset Button Pressed - Asserted	
231	01/01/2000	07:25:47	Information	OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted	
230	01/01/2000	07:25:36	Information	Reset_Button	Button / Switch	Reset Button Pressed - Asserted	
229	01/01/2000	07:25:36	Information	OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted	
228	01/01/2000	07:24:52	Information	OS_Boot	OS Boot	Boot Completed - Boot Device Not Specified - Asserted	
227	01/01/2000	07:23:19	Information	System_Restart	System Boot / Restart Initiated	System Restart - Asserted	
226	01/01/2000	07:22:44	Information	OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted	
225	01/01/2000	07:22:44	Information	Reset_Button	Button / Switch	Reset Button Pressed - Asserted	
224	01/01/2000	07:16:27	Information	System_Restart	System Boot / Restart Initiated	System Restart - Asserted	
223	01/01/2000	07:15:52	Information	OS_Status	OS Stop / Shutdown	OS Graceful Shutdown - Asserted	
222	01/01/2000	07:15:52	Information	Reset_Button	Button / Switch	Reset Button Pressed - Asserted	

BMC log collection method – M4/M5 platform

The screenshot displays the BMC web interface for log collection. On the left, a sidebar menu includes 'Information', 'Storage', 'Remote Control', 'Power and Fan', 'BMC Settings', and 'Logs'. The 'Logs' section is expanded, showing 'System Event Log', 'BMC System Audit Log', and 'Black Box Log' (which is highlighted with a red box). The main content area is titled 'Black Box Log' and contains a 'Log Selection' dropdown menu. The dropdown is open, showing three options: 'blackbox.log', 'blackbox.log' (highlighted with a blue bar), and 'blackboxpeci.log'. A red box highlights the dropdown menu. To the right of the dropdown is an 'Export Log' button, also highlighted with a red box.

Information

Storage

Remote Control

Power and Fan

BMC Settings

Logs

- System Event Log
- BMC System Audit Log
- **Black Box Log**
- Event Log Setting
- BMC System Audit Log Setting

Black Box Log

Log Selection

blackbox.log

blackbox.log

blackboxpeci.log

Export Log

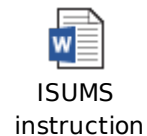
BIOS/BMC/FRU updating

客户服务中心 04/26/2020

● BIOS/BMC/FRU updating

FW updating methods:

◆ Updating with ISUMS tool (Recommend using)



◆ Updating with dos OS

◆ Updating with BMC web

◆ Updating with Linux/Windows OS



● BIOS/BMC/FRU updating

Tool	OS	Usage	Note
Pure DOS (rufus)	Self boot DOS	1.Firmware updating	Manual
InspurDiagTool V2.3 20170317 (Image)	Self boot Linux PE	1.Log collecting 2.HDD/Memory/CPU pressure test 3. 1.Firmware updating	The Tool and method
Inspur Server U-Disk Manager Suite (ISUMS)	Self boot Linux PE	1. 1.Firmware updating (Recommend) 2.Hardware configuration 3.HDD/Memory/CPU hardware Diagnosis	Manual of ISUMS

We have three tools to update firmware. It's confusing which one should be used and which one is best to be used ?

Step 1. Try to use ISUMS at first.

Step 2. If we can't find the FW and customized instruction on ISUMS, try to find the FW and customized instruction from knowledge base: <http://218.57.146.166:8443/display/H/Overseas+knowledge+base>. Follow the knowledge base flash method to update FW:

NF5280M5

Release time	BIOS	BMC	FRU	Instruction Number	Flash Method
2018/09/17	Universal 4.0.7	Universal 4.12.0	fru	V2018_09_14_05	BIOS : First in the Linux system to open ipmi service: service ipmi start , and then execute ./flash.sh , After the completion of refresh, unplug the

Step 3. If we can't find the FW and customized instruction on ISUMS and knowledge base. **Please contact the Global service**

- **Updating with ISUMS tool**

Refer to the ISUMS training materials.

If we can't find the FW and customized instruction on ISUMS, try to find the FW and customized instruction from knowledge base: [http://](http://218.57.146.166:8443/display/H/Overseas+knowledge+base)

218.57.146.166:8443/display/H/Overseas+knowledge+base

And use the other updating method to update BIOS/BMC/FRU.

➤ How to download customized instruction and firmware

- Visit <http://218.57.146.175/inspurindiacall/config.htm>
- Change the language to English.
- Enter the user name, password, and then login.

Please choose Language:

English ▼

Please enter your account and password of the customer support system:

User Name:

dengyangfw

Password:

.....

☒ Save the login info

Login



Server configuration Info Parts Info



Sever serial number 817265098 Search 🔍

- Input Server Serial number

➤ How to download customized instruction and firmware

Attention: The product information as below includes the factory equipment only.

— The Server Info

Serial Number :	817265098
Product Line :	Server
Model :	SA5212M4
Date in produced:	2017-05-12
The deadline of the warranty :	2020-06-30
On-site service deadline :	2020-06-30

— Hardware Configuration

Part Type	PN	Part Name	Quantity
HDD	V0230EH000000000	HDD_SA_240TD_MZ7LM240HMHQ_T2_6_PM863a	1

— Customized Information

V2017_05_02_42. 腾讯项目SA5212M4产品TSC20_5.3.0套餐的定制生产说明更新_20170502,
A.1 固资号已邮件形式传递/TOP-VIP/海外订单需导轨及电源线05.13

[Customized instruction and firmware](#)

- In Customized information, You can find the instruction number: V2017_05_02_42.
- Then click *Customized instruction and firmware*

➤ How to download customized instruction and firmware

- And then jump to the knowledge base web site.
- When you enter your username and password, you'll see the firmware download link.
- Find firmware according to the instruction number(V2017_05_02_42).

If the engineer can't find the instruction, please let the global support confirm

2017/05/02	tx4.1.8	tx4.9.0	fru	SA5212M4- V2017_05_02_42	<p>BIOS : Flash in DOS , Go to the BIOS folder , Execute flash.bat , (don't excute meflash.bat)After cable. ;</p> <p>BMC : Flash in DOS , Go to the BMC folder , Execute flash.bat.</p> <p>fru :</p> <div> <p>No Rear Hard Disk</p> <p>Excute fru1.bat in dos TSC20_5.3.0 (Model) SN (Serial-Number) CPN (Asset Number) (numebr of PSU is Tagged with Inspur)</p> </div> <div> <p>Having Rear Hard Disk</p> <p>Excute frufan.bat in dos TSC20_5.3.0 (Model) SN (Serial-Number) CPN (Asset Number) PN numebr of PSU is Tagged with Inspur)</p> </div> <p>Notes :</p>
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● Updating with dos OS

You can refer to the website to update BIOS/BMC/FRU

FW updating (SOP) :



FW refreshing
SOP

Knowledge base: <http://218.57.146.166:8443/display/H>

User: overseas password: overseas

➤ Tool : U disk inserted with DOS system

➤ Steps :

1. Check the customized instruction number
2. Download the BIOS/BMC upgrade files from the knowledge base
3. Put the files into the U disk (pay attention to modify the file name less than eight characters))
4. Start the U disk into the DOS environment
5. Enter the U disk directory under C:
6. Execution of upgrade instructions

● Updating with dos OS

1. Check the customized instruction number

主机信息				
序列号 SN	产品线 Product line	产品型号 Product model	生产日期 Date	
218403181	Server	SA5224MA	2018-06-22	

The SN is 218403181, login the configuration system to check the customized instruction number

The system: <http://218.57.146.175/inspurindiacall/config.htm>

 Customized Information

指令 **V2018_06_20_41** ; 阿里项目SA5224M4A产品 ;
阿里项目 : TOP-VIP客户 ;
阿里机型 : L44 ;
全字段信息 : L44.32.C0V1P0U4 ;
TD: TD11101000257974-TD11101000258023 ;
产品类别 : ATO订单 (海外英文) ;
V0230Q4硬盘刷新 : 40005836
V0230V3硬盘刷新 : 40005835

[Customized instruction and firmware](#)

● Updating with dos OS

2. Download the BIOS/BMC upgrade files from the knowledge base



Knowledge base: <http://218.57.146.166:8443/display/H>


User: overseas password: overseas


● Updating with dos OS

2. Download the BIOS/BMC upgrade files from the knowledge base

2018/06/22	ali4.0.7 BIOS	ali4.12.0 BMC	fru FRU	V2018_06_20_41 Instruction number	<p>Refresh BMC first, then refresh BIOS.</p> <p>BMC:</p> <p>Flash in DOS, Go to the BMC folder, Execute flash.bat.</p> <p>BIOS:</p> <p>Refresh in the bmc_web. After fresh finished, Cut off the power to restart.</p> <p>FRU:</p> <p>Flash in DOS, Go to the FRU folder, select related scripts according to the number of power modules</p> <table border="1"> <thead> <tr> <th>Number of power modules</th> <th>Refresh the script</th> <th>method of refresh</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1PSU.bat</td> <td>1PSU.bat SN PAT CP</td> </tr> <tr> <td>2</td> <td>2PSU.bat</td> <td>2PSU.bat SN PAT CP</td> </tr> </tbody> </table>	Number of power modules	Refresh the script	method of refresh	1	1PSU.bat	1PSU.bat SN PAT CP	2	2PSU.bat	2PSU.bat SN PAT CP
Number of power modules	Refresh the script	method of refresh												
1	1PSU.bat	1PSU.bat SN PAT CP												
2	2PSU.bat	2PSU.bat SN PAT CP												

Steps





我们不能预览该文件。
您要先下载文件以查看。

↓ 下载

● Updating with dos OS

3. Put the Decompressed files into the U disk (pay attention to modify the file name less than eight characters))



● Updating with dos OS

4. Start the U disk into the DOS environment
5. Enter the U disk directory under C:

```
C:\>dir

Volume in drive C is GHOST
Volume Serial Number is B4FE-5315
Directory of C:\

COMMAND  COM           94,292   05-05-99   22:22
IO       SYS       224,150   05-05-99   22:22
MSDOS    SYS          157   06-01-08   0:00
BMC      <DIR>           04-19-14  16:36
BIOS     <DIR>          10-15-13   9:53
          3 file(s)       318,599 bytes
          2 dir(s)  4,000,526,336 bytes free

C:\>
```

- Updating with dos OS

- Enter the **cd** command to enter the BIOS directory.

```
C:\>cd bios
```

```
C:\BIOS>_
```

- Enter the **dir** command to view the files in the directory.

```
C:\BIOS>dir
```

```
Volume in drive C is GHOST
```

```
Volume Serial Number is B4FE-5315
```

```
Directory of C:\BIOS
```

.	<DIR>	04-19-14	16:36
..	<DIR>	04-19-14	16:36
AFUDOS	EXE	133,168	01-06-12 11:39
FLASH	BAT	37	08-12-13 16:01
WHALES	112	4,194,304	08-08-13 17:50
3 file(s)		4,327,509 bytes	
2 dir(s)		4,000,526,336 bytes free	

● Updating with dos OS

6. Execution of upgrade instructions

- Execute ***flash.bat*** (***according to the KB***) to start the refresh process.

```
C:\BIOS>flash.bat

C:\BIOS>AFUDOS WHALES.112 /p /b /n /x /reboot
+-----+
|               AMI Firmware Update Utility  v3.00.00               |
|   Copyright (C)2011 American Megatrends Inc. All Rights Reserved.   |
+-----+
Reading flash ..... done
- FFS checksums ..... ok
Erasing Boot Block ..... 0x003B0000 (75%)
```

● Updating with dos OS

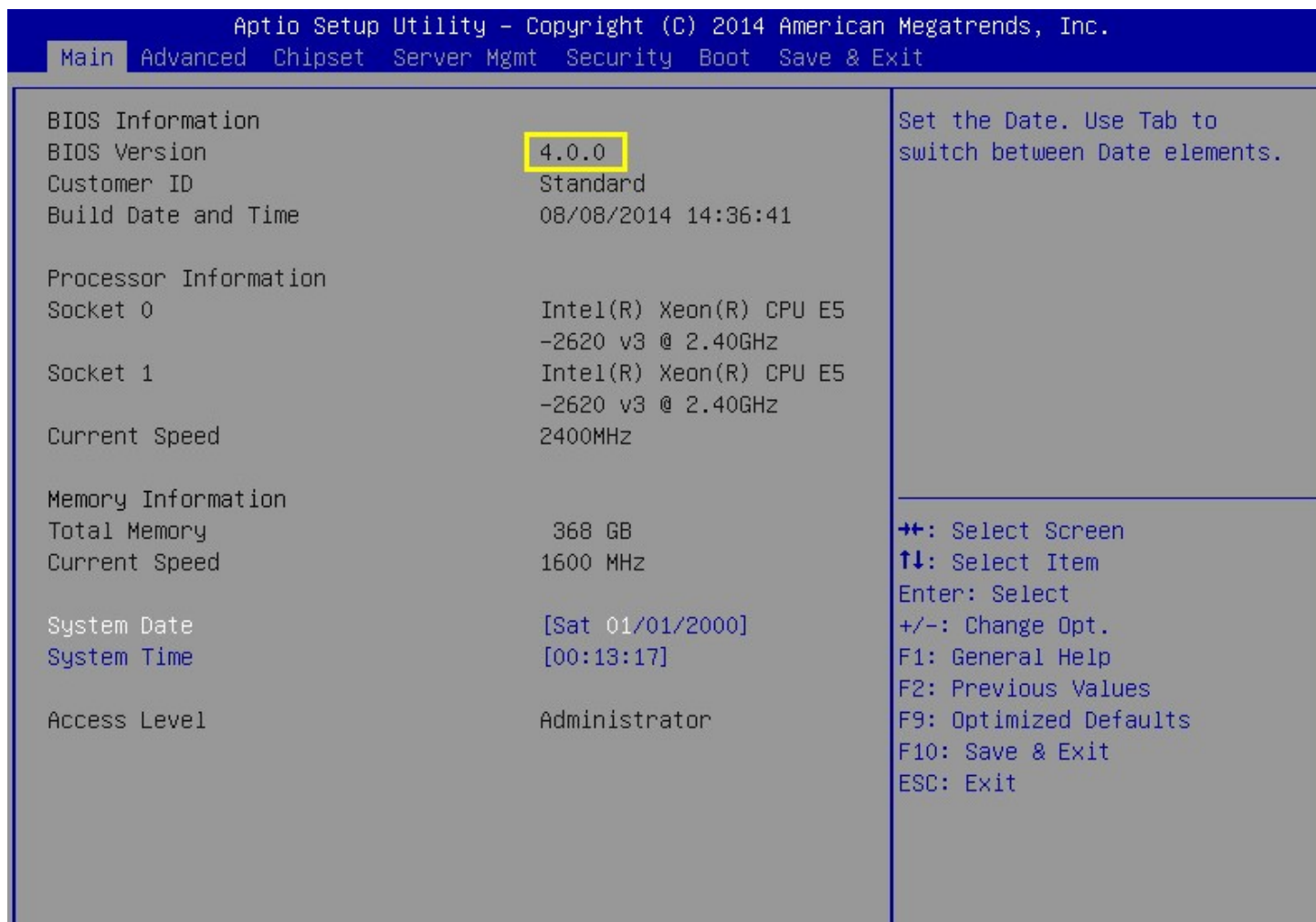
- After the BIOS refresh is complete, turn off the power to restart.

```
C:\BIOS>flash.bat

C:\BIOS>AFUDOS WHALES.112 /p /b /n /x /reboot
+-----+
|               AMI Firmware Update Utility  v3.00.00               |
|   Copyright (C)2011 American Megatrends Inc. All Rights Reserved.   |
+-----+
Reading flash ..... done
- FFS checksums ..... ok
Erasing Boot Block ..... done
Updating Boot Block ..... done
Verifying Boot Block ..... done
Erasing Main Block ..... done
Updating Main Block ..... done
Verifying Main Block ..... done
Erasing NVRAM Block ..... done
Updating NVRAM Block ..... done
Verifying NVRAM Block ..... done
```


- Updating with dos OS

- Go to the BIOS, you can confirm the BIOS version.



● Updating with dos OS

- Enter the **cd** command to enter the BMC directory.

```
C:\>cd bmc  
C:\BMC>_
```

- Enter the **dir** command to view the files in the directory. **flash.bat** is the refresh script.

```
C:\BMC>dir  
  
Volume in drive C is GHOST  
Volume Serial Number is B4FE-5315  
Directory of C:\BMC  
  
.  
..  
12      22      33,554,432  02-20-14  14:08  
DOS4GW  EXE      265,396   05-04-11  11:12  
FLASH   BAT       17    04-03-14   8:25  
SOCFLASH EXE     221,049   05-26-11   9:32  
4 file(s)  34,040,894 bytes  
2 dir(s)  4,000,526,336 bytes free
```

● Updating with dos OS

- Enter the **cd** command to enter the BMC directory.

```
C:\>cd bmc  
C:\BMC>_
```

- Enter the **dir** command to view the files in the directory. **flash.bat** is the refresh script.

```
C:\BMC>dir  
  
Volume in drive C is GHOST  
Volume Serial Number is B4FE-5315  
Directory of C:\BMC  
  
.                <DIR>            04-19-14  16:36  
..               <DIR>            04-19-14  16:36  
12              22      33,554,432  02-20-14  14:08  
DOS4GW  EXE        265,396  05-04-11  11:12  
FLASH   BAT         17  04-03-14   8:25  
SOCFLASH EXE      221,049  05-26-11   9:32  
4 file(s)      34,040,894 bytes  
2 dir(s)  4,000,526,336 bytes free
```

- Updating with dos OS

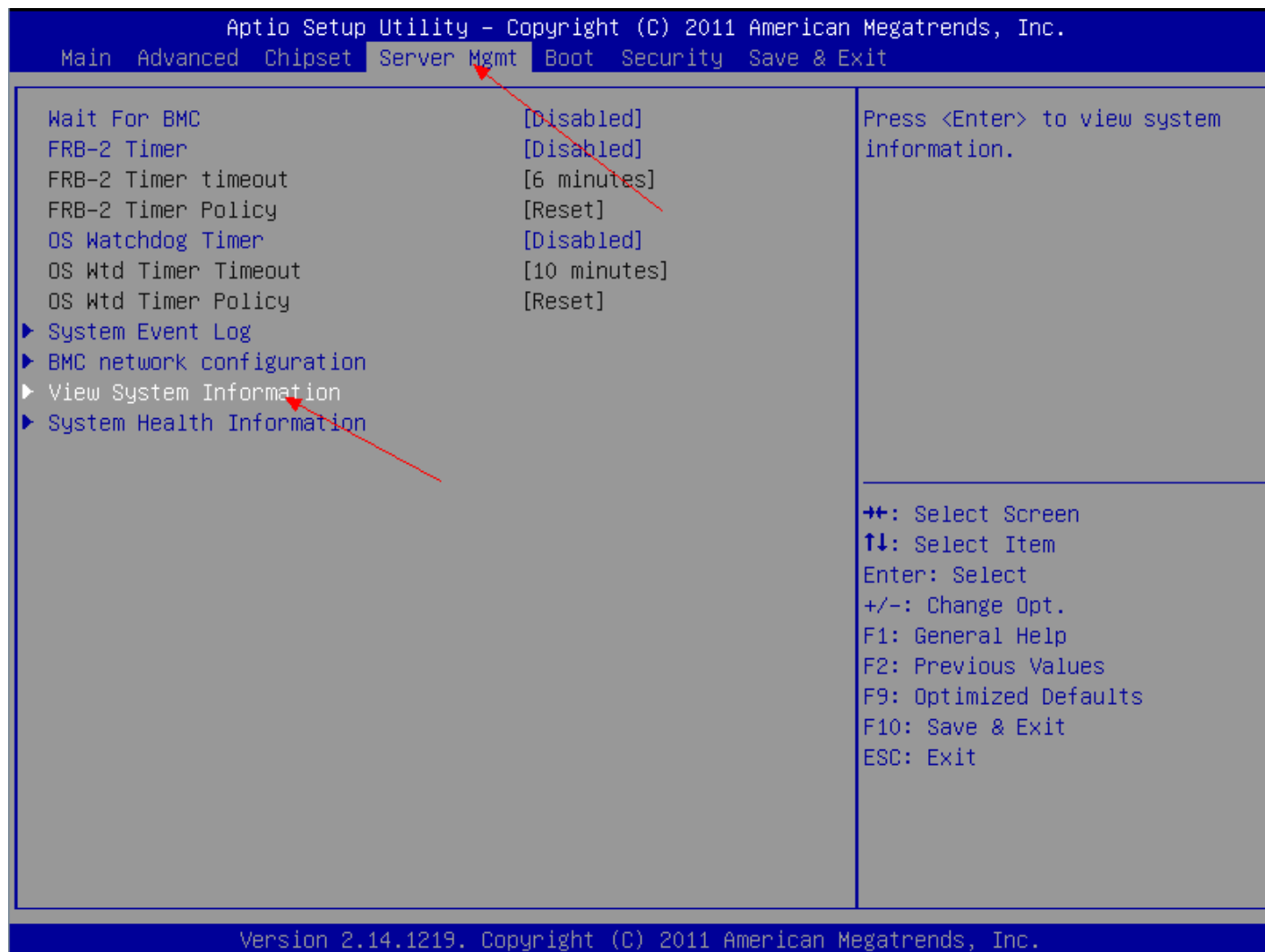
- Execute ***flash.bat*** (*according to the KB*) to start the refresh process.

```
C:\BMC>flash.bat  
  
C:\BMC>socflash if=12.22  
DOS/4GW Protected Mode Run-time Version 1.97  
Copyright (c) Rational Systems, Inc. 1990-1994  
ASPEED SOC Flash Utility v.1.04.03  
Static Memory Controller Information:  
CS0 Flash Type is SPI  
CS1 Flash Type is SPI
```

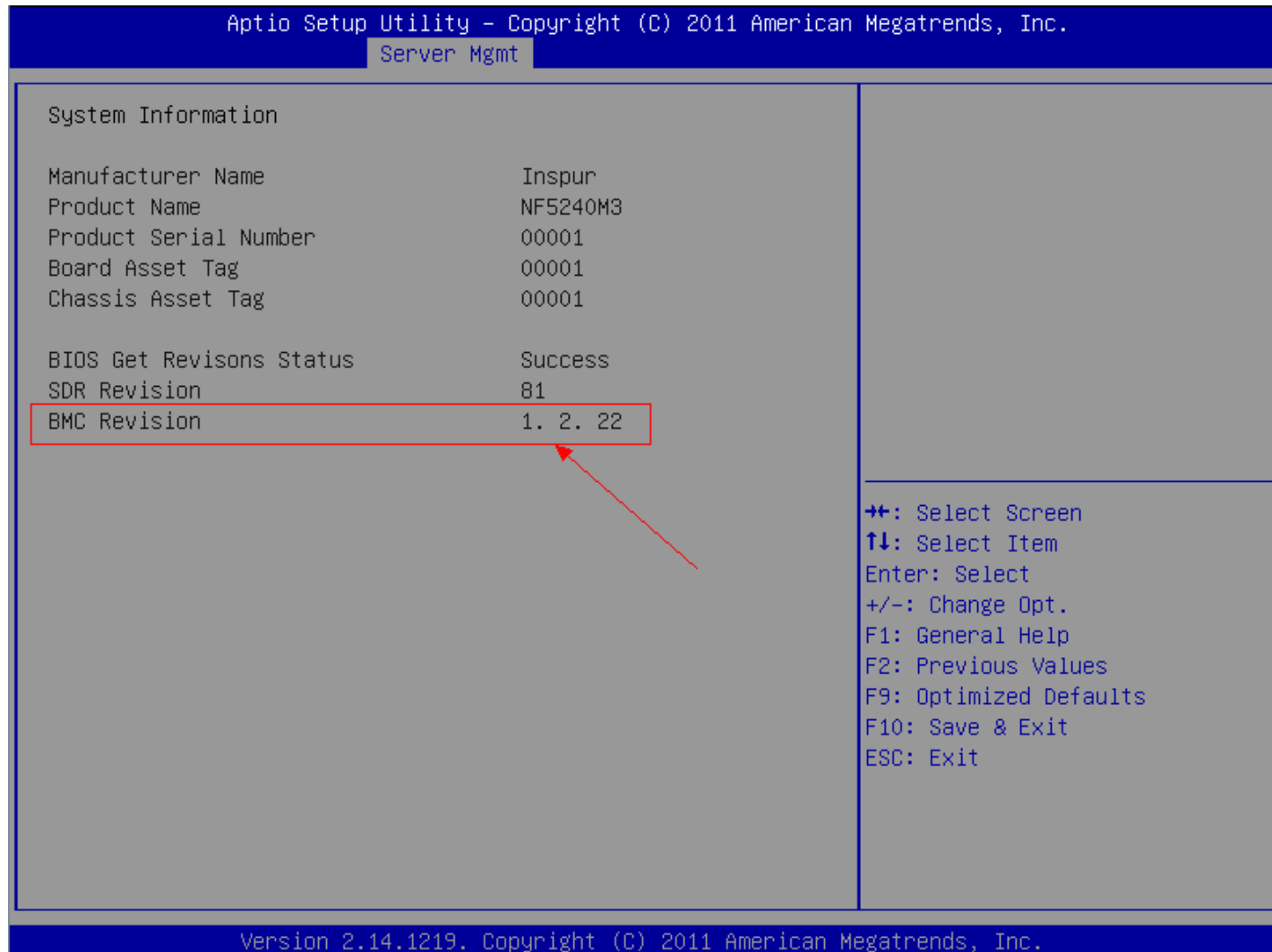
- Updating with dos OS
- BMC refresh is complete.

```
C:\BMC>flash.bat  
  
C:\BMC>socflash if=12.22  
DOS/4GW Protected Mode Run-time Version 1.97  
Copyright (c) Rational Systems, Inc. 1990-1994  
ASPEED SOC Flash Utility v.1.04.03  
Static Memory Controller Information:  
CS0 Flash Type is SPI  
CS1 Flash Type is SPI  
CS2 Flash Type is NOR  
CS3 Flash Type is NOR  
CS4 Flash Type is NOR  
Boot CS is 0  
Option Information:  
CS: 0  
Flash Type: SPI  
[SOCFLASH] Flash ID : 1920c2  
Find Flash Chip #1: MXIC MX25L25735E  
Update Flash Chip #1 O.K.  
Update Flash Chip O.K.
```

- Updating with dos OS
- Check the BMC version



- Updating with dos OS
- Check the BMC version



● Updating with dos OS

- After the BMC refresh is complete, execute ***fru.bat*** ***SN PAT (according to the KB)*** to refresh the FRU.
- **SN** : serial number
- **PAT** : Product Asset
 - Example : *fru.bat 0001 Inspur001*

```
C:\fru\5112M4>2PSU.bat 00001 Inspur001_
```


- Updating with dos OS

- After the refresh is complete, execute the ***ipmicfg -fru list*** to confirm that FRU has flashed successfully

```
Chassis Type (CT)           = Rack Mount Chassis(17h)
Chassis Part number (CP)    = 00001
Chassis Serial number (CS)  = 00001
Chassis Custom Info        = FFCB 49 6E 73 70 75 72 30 30 30 30 31
Board Mfg. Date/Time(BDT)  = 2013/03/27 13:45:00 (99 54 8A)
Board Manufacturer (BM)    = Inspur
Board Product Name (BPN)   = Shark
Board Serial number (BS)   = 00001
Board Part number (BP)     = 00001
Product Manufacturer (PM)  = Inspur
Product Name (PN)         = NF5240M3
Product Part/Model number (PPM) = 00001
Product Version (PV)      = 00011
Product Serial number (PS) = 00001
Product Asset Tag (PAT)   = Inspur0001
```

- Note: This is the only way to refresh the FRU with DOS.

● Updating with BMC web

System Maintenance -> BIOS FW Update

admin(Administrator)

Management System

- Storage
- Remote Control
- Power and Fan
- BMC Settings
- Logs
- Fault Diagnosis
- System Maintenance**
 - BMC FW Update
 - BIOS FW Update**
 - Restore Factory Defaults
 - System Administrator

System Running State

Current Power Status	● [More]
CPU	✓ [More]
Memory	✓ [More]
Hard Disk	✓ [More]
Fan	✗ [More]
Power Supply Units	✓ [More]
Chassis Intrusion	✕ Not Support

BMC Information

Lan Interface	<input checked="" type="radio"/> Shared <input type="radio"/> Dedicated
MAC Address	6C:92:BF:4D:E7:44
Network Mode	DHCP
IPv4 Address	192.168.0.2
Web Session Timeout	1800s
Web Active Users	1/20
Server Running Time	1 Days, 22 Hours

Server Information

Chassis Type	Rack Mount Chassis
--------------	--------------------

● Updating with BMC web

1. Select “BIOS+ME”

2. Press “Enter Firmware Update Mode”

BIOS Firmware Update

Please note:

- (1) **Power Off** the system if you want to do BIOS Update.
- (2) BIOS NVRAM will be cleared and BIOS will become default after BIOS flashed.
- (3) After BIOS+ME flashed, we recommend to **AC Power Off and On** to enable NEW ME.

1. Please click the button to enter firmware update mode.

Current Power Status

☐ OFF

BIOS Bin File Type

1

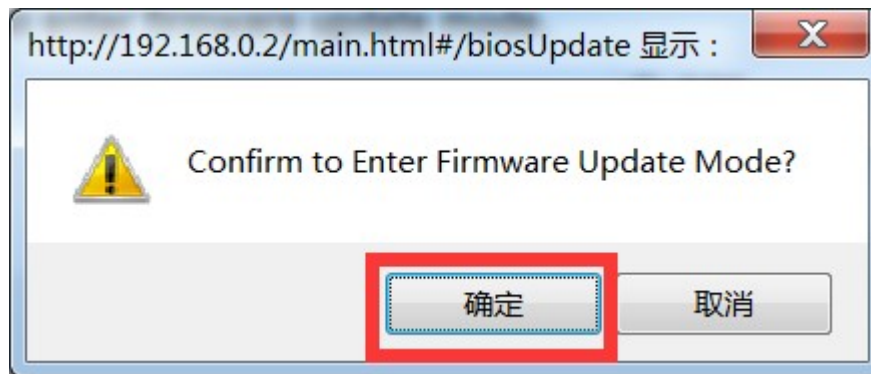
BIOS+ME ▼

2

Enter Firmware Update Mode

● Updating with BMC web

Press “确定”



● Updating with BMC web

Click the button shown with the red line

Please note:

- (1) **Power Off** the system if you want to do BIOS Update.
- (2) BIOS NVRAM will be cleared and BIOS will become default after BIOS flashed.
- (3) After BIOS+ME flashed, we recommend to **AC Power Off and On** to enable NEW ME.

1. Please click the button to enter firmware update mode.

Note: Device is in BIOS Flash Mode. To perform this action, you must make sure no user is updating BIOS Flash.

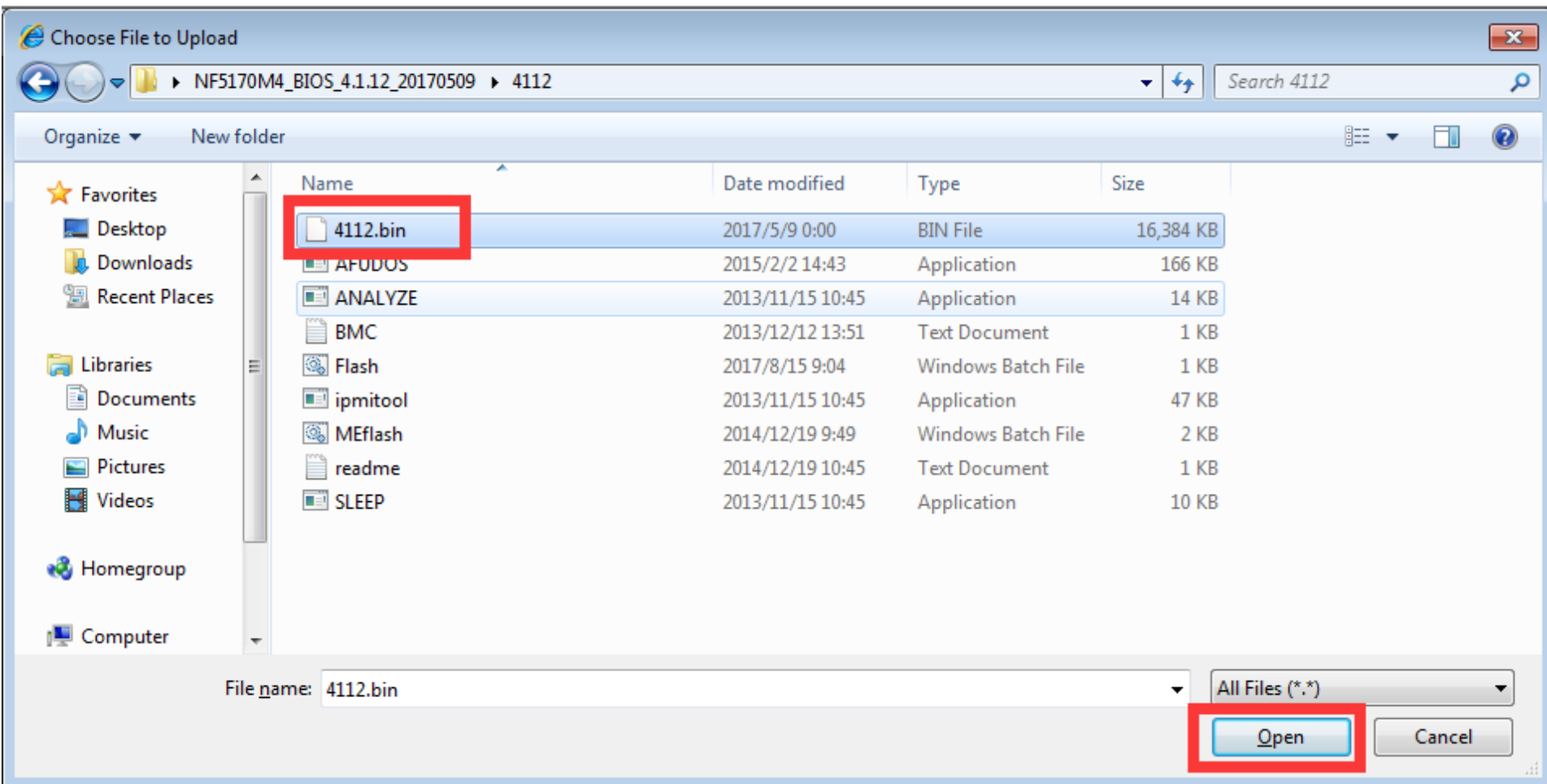
Current Power Status	<input type="radio"/> OFF
BIOS Bin File Type	BIOS+ME <input type="button" value="v"/>
<input type="button" value="Enter Firmware Update Mode"/>	

2. Please select the Image file, click the button to upload and verify.

Select Bin File	<input type="text"/>	<input type="button" value="Browse..."/>
		<input type="button" value="Upload"/> <input type="button" value="Cancel"/>

● Updating with BMC web

Select the file to refresh



● Updating with BMC web

Select the file to refresh , then press “Upload”

2. Please select the Image file, click the button to upload and verify.

Select Bin File

C:\Users\lc1\Desktop\NF

Browse...

Upload

Cancel

The file is being uploaded, please be patient

be cleared and BIOS will become default after BIOS flashed.

● Updating with BMC web

Press “Proceed to update”

2. Please select the Image file, click the button to upload and verify.

Select Bin File

C:\Users\lc1\Desktop\NF51

Browse...

Upload

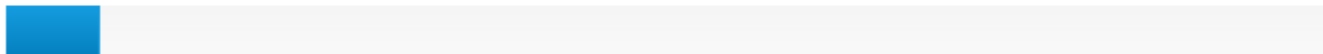
Cancel

3. Verify successfully, please click the button to update firmware.

Proceed to update

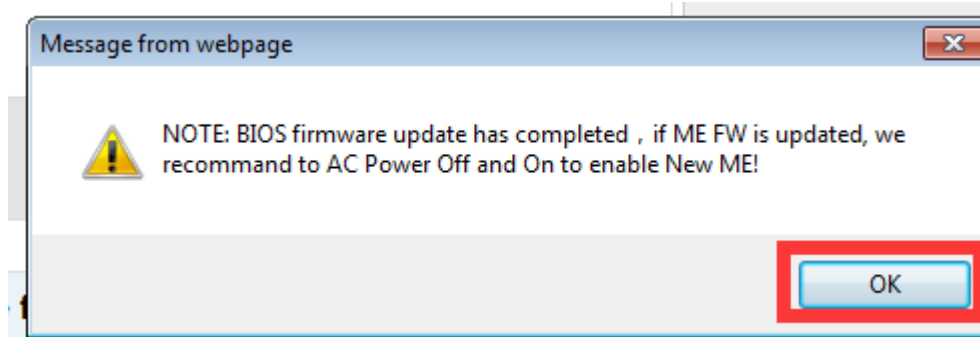
Cancel

Refresh progress



● Updating with BMC web

BIOS firmware update complete , unplug power cable.After 1 minute plug power cable ,then power on the server.



2. Please select the Image file, click the button to upload and verify.

Select Bin File

C:\Users\lc1\Desktop\NF51








Browse...







3. Verify successfully, please click the button to update firmware.

4. BIOS firmware update has completed!NOTE: New BIOS will be available after AC Power Off and On!

● Updating with BMC web

BIOS firmware update complete , unplug power cable.After 1 minute plug power cable ,then power on the server.

System Running State	
Current Power Status	 [More]
CPU	 [More]
Memory	 [More]
Hard Disk	 [More]
Fan	 [More]
Power Supply Units	 [More]
Chassis Intrusion	 Not Support

Quick Launch Tasks		
 Console Redirection	 Power Control	 Users
 Network	 Hardware Monitor	 Firmware Update

BMC Information	
Lan Interface	<input checked="" type="radio"/> Shared <input type="radio"/> Dedicated
MAC Address	6C:92:BF:4D:E7:44
Network Mode	DHCP
IPv4 Address	192.168.0.2
Web Session Timeout	1800s
Web Active Users	1/20
Server Running Time	1 Days, 22 Hours
Server Information	
Chassis Type	Rack Mount Chassis

FW Version Information	
BMC Revision	4.17.0(Sep 9 2016 15:52:19 CST)
BIOS Revision	4.1.12(May 9 2017)
ME Revision	3.1.3.38
PSU0 Revision	1.000
PSU1 Revision	N/A
CPU0 VR Revision	01
CPU1 VR Revision	01
MEM_AB VR Revision	01
MEM_CD VR Revision	01

Current BIOS version

● Updating with BMCweb

System Maintenance -> BMC FW Update

admin(Administrator)

Management System

- Storage
- Remote Control
- Power and Fan
- BMC Settings
- Logs
- Fault Diagnosis
- System Maintenance**
 - BMC FW Update**
 - BIOS FW Update
 - Restore Factory Defaults
 - System Administrator

System Running State	
Current Power Status	● [More]
CPU	✓ [More]
Memory	✓ [More]
Hard Disk	✓ [More]
Fan	✗ [More]
Power Supply Units	✗ [More]
Chassis Intrusion	✕ Not Support

BMC Information	
Lan Interface	<input checked="" type="radio"/> Shared <input type="radio"/> Dedicated
MAC Address	6C:92:BF:4D:E7:44
Network Mode	DHCP
IPv4 Address	192.168.0.2
Web Session Timeout	1800s
Web Active Users	1/20
Server Running Time	1 Days, 22 Hours

Server Information	
Chassis Type	Rack Mount Chassis

● Updating with BMCweb

Press “Enter Firmware Update Mode”

Please note:

1. After entering update mode widgets, other web pages and services will not work. All open widgets will be closed automatically. If upgrade process is cancelled in the middle of the wizard, the device will reset.
2. Click 'Preserve all configuration' will preserve all the configuration settings during the firmware update.
3. This section lists the configuration items, items that configured as 'Preserve' will be preserved during restore factory default configuration. Click 'Preserve Configuration' to modify the preserve configuration items.
4. Click 'Enter Firmware Update Mode' to update firmware.

☐ Preserve all configuration

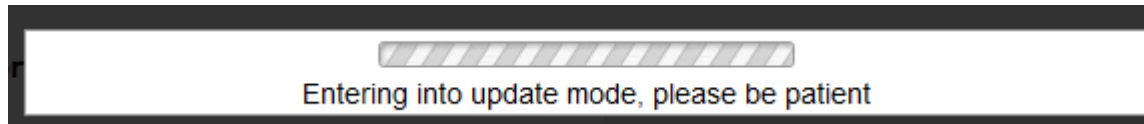
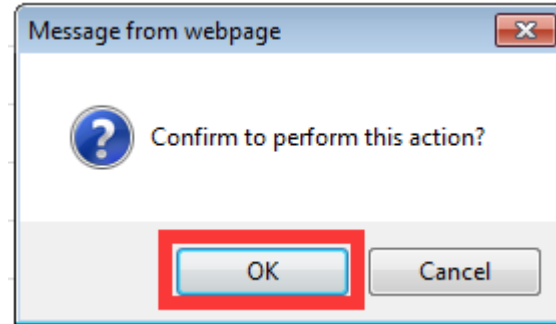
NO.	Preserve Settings	Update Policy
1	SDR	Overwrite
2	SEL	Overwrite
3	IPMI	Overwrite
4	Network	Overwrite
5	NTP	Overwrite
6	SSH	Overwrite
7	KVM	Overwrite
8	Authentication	Overwrite

Enter Preserve Configuration

Enter Firmware Update Mode

● Updating with BMC web

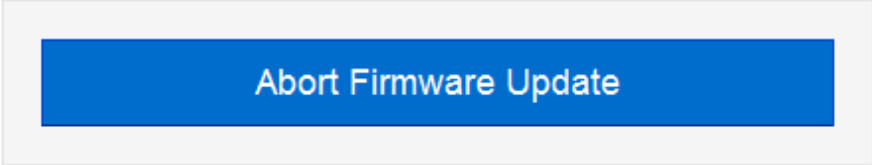
Press “OK”



● Updating with BMC web

Click the button shown with the red line

(! Be Careful) It will abort the process of firmware update and reset BMC, by pressing this button




Abort Firmware Update

1. Please click the button to enter firmware update mode.

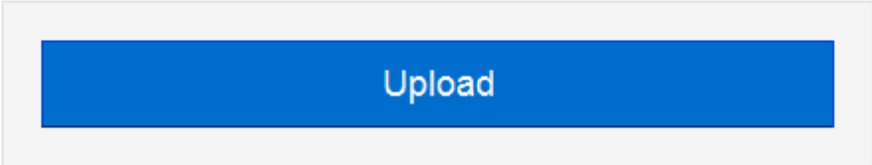


Enter Firmware Update Mode

2. Please select the Image file, click the button to upload and verify.



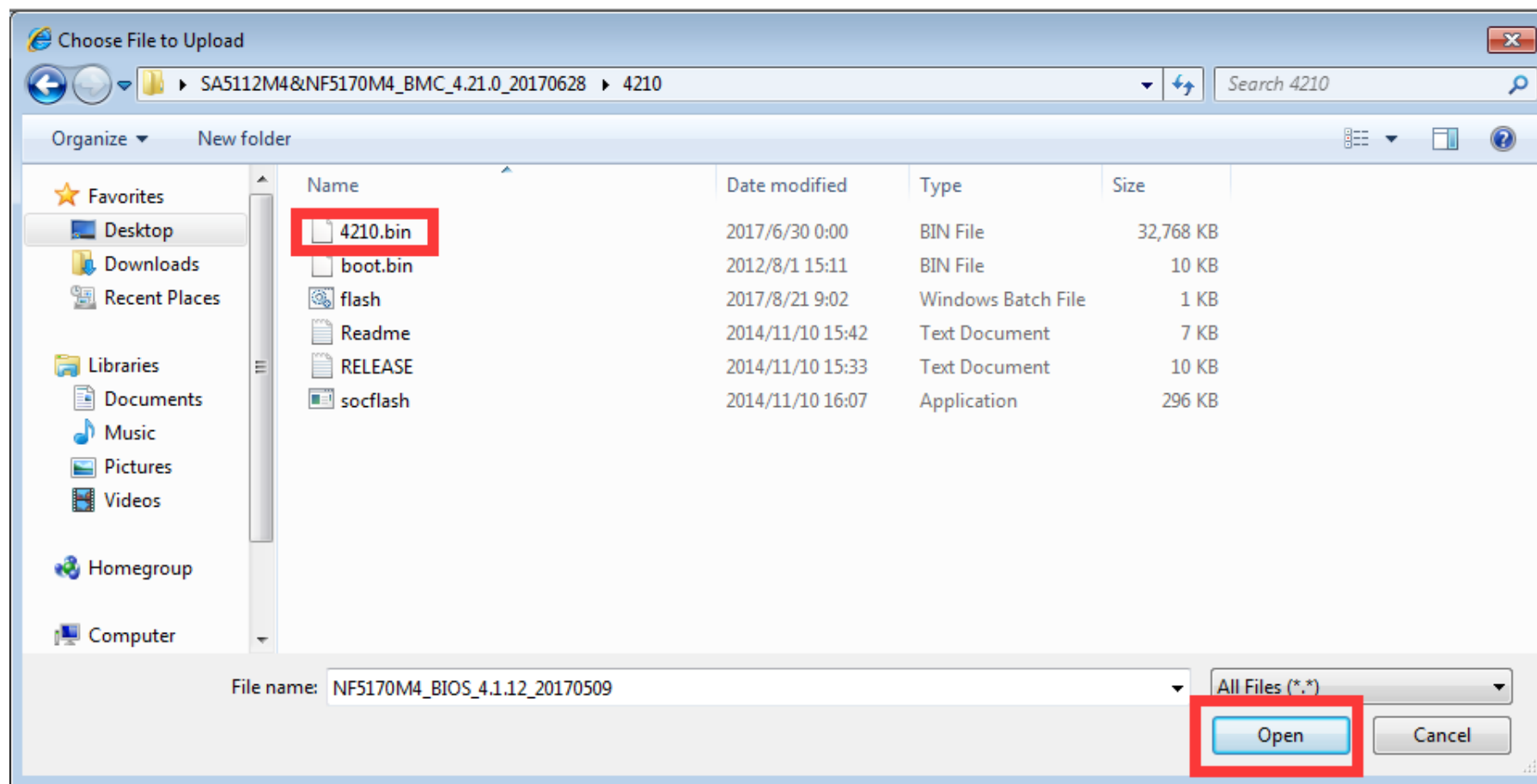
Browse...



Upload

● Updating with BMC web

Select the file to refresh



● Updating with BMC web

Select the file to refresh , then press “Upload”

(! Be Careful) It will abort the process of firmware update and reset BMC, by pressing this button

Abort Firmware Update

1. Please click the button to enter firmware update mode.

Enter Firmware Update Mode

2. Please select the Image file, click the button to upload and verify.

C:\Users\lc1\Desktop\SA Browse...

Upload

The file is being uploaded, please be patient

● Updating with BMC web

Press “Upload”

(! Be Careful) It will abort the process of firmware update and reset BMC, by pressing this button

Abort Firmware Update

1. Please click the button to enter firmware update mode.

Enter Firmware Update Mode

2. Please select the image file, click the button to upload and verify.

C:\Users\lc1\Desktop\SA

Browse...

Upload

The file has been uploaded and is being verified, please be patient

● Updating with BMC web

Press “Proceed to update”

2. Please select the Image file, click the button to upload and verify.

C:\Users\lc1\Desktop\SA

3. Verify successfully, please click the button to update firmware.

Refresh progress



- Updating with BMC web

Device has been reset

The device has been reset. Please close this browser session and open a new browser session to reconnect to the device. The device may take about a minute to boot up.

● Updating with BMC web

BMC firmware update complete.

General Information

System Running State	
Current Power Status	<input type="radio"/> [More]
CPU	<input type="radio"/> [More]
Memory	<input type="radio"/> [More]
Hard Disk	<input type="radio"/> [More]
Fan	<input type="radio"/> [More]
Power Supply Units	<input type="radio"/> [More]
Chassis Intrusion	<input checked="" type="checkbox"/> Not Support

BMC Information	
Lan Interface	<input checked="" type="radio"/> Shared <input type="radio"/> Dedicated
MAC Address	6C:92:BF:4D:E7:44
Network Mode	DHCP

Current BMC version

Quick Launch Tasks

 Console Redirection	 Power Control	 Users
 Network	 Hardware Monitor	 Firmware Update

FW Version Information

BMC Revision	4.21.0(Jun 27 2017 16:02:44 CST)
BIOS Revision	
ME Revision	

● Updating with Linux OS

Steps :

1. Download the FW from the knowledge base
2. Boot from Linux OS (**Inspur Linux PE and ISUMS can switch to Linux OS**)
3. Enter the directory of FW files
4. Execute the updating command

● Updating with Linux OS

For example NF5280M5 :

1. Download the FW from the knowledge base

<http://218.57.146.166:8443/display/H/NF5280M5-Related-textnavpagetreemode>

NF5280M5-Related Download

由 未知用户 (yangchaoqun)创建, 最终由 李明凯修改于 六月 04, 2019

- mib
- Universal firmware
 - BIOS
 - BMC
 - FRU
- Barebone firmware
 - BIOS
 - BMC
- BIOS with SF0204P1(PCIe Switch)
 - BIOS
 - BMC

2. Boot from Linux OS (Inspur Linux PE and ISUMS can switch to Linux OS)

3. Enter the directory of FW files

4. Execute the updating command

Version	Release time	Alteration	Considerations
4.0.9	2019/01/24	1. Upgrade microcode version to MB750654_02000057.mcb; 2. Support SMART PPR function; 3. Supporting T4GPU, Cambrian MLU100-C3 GPU	Execute the ipmi service under Linux : service ipmi start Then execute ./flash.sh After the refresh is completed, you need to unplug the power cable and reboot This version of BIOS needs to be used with Universal BMC Version 4.2.0 and above

Show and practice

- How to use the knowledge base
- How to collect the log
- How to make a PE OS

<http://218.57.146.166:8443/display/H>

Thank you !



inspur 浪潮