# 目录

DSA 工具下载链接:	2
Linux 操作系统下收集 DSA 日志步骤:	2
Windows 操作系统下收集 DSA 日志步骤:	2
IMM 日志收集步骤:	3
IMM2 日志收集步骤:	6
刀片服务器的 AMM 日志收集步骤:	11
Flex 刀箱的 CMM 日志收集步骤:	11
OS 和应用日志收集步骤:	11

## DSA 工具下载链接:

DSA 工具下载链接

http://www-947.ibm.com/support/entry/portal/docdisplay?Indocid=SERV-DSA

DSA Installation and User's Guides:

http://www-947.ibm.com/support/entry/portal/docdisplay?Indocid=MIGR-5084901

# Linux 操作系统下收集 DSA 日志步骤:

- 1. 把下载的 "<dsa-package>.bin" 的文件拷贝到服务器本地。cp <dsa-package> /tmp
- 2. chmod +x <dsa-package>
- 3. cd /tmp
- 4. /<dsa-package>
- 5. 收集完成后,在根目录下的 VAR/LOG 下会生成一个IBM SUPPORT 的文件夹,其中有以机器 型号序列号及日期命名的日志压缩包,这个就是DSA日志。

## Windows 操作系统下收集 DSA 日志步骤:

- 1. 把下载的 DSA 工具拷贝到C 盘根目录
- 2. 双击运行,此时会出现一个 DOS 窗口,等待10 分钟左右,会完成收集工作
- 3. 提示按任意键, DOS 窗口自动关闭。
- 4. 在 C 盘根目录下会生成一个名为IBM SUPPORT 的文件夹,其中有以机器型号序列号及日期命 名的日志压缩包,这个就是DSA日志。

## IMM 日志收集步骤:

1. 通过服务器板载管理口(Systems-management(Ethernet),非网口)收集日志. 方法是使用 直连线(此网口可自适应连接方式)将此网口连接于一台终端机(笔记本或台式机). 查看此网 口的IP地址是否是192. 168. 70. 125,可进入服务器BIOS选项查看,如IP不是192. 168. 70. 125. 可将其更改. 具体信息如下:

开机按F1进入BIOS选项菜单,选择"System Settings"进入该菜单设置



进入"System Settings"菜单选项后选择"Integrated Management Module"菜单



进入"Integrated Management Module"菜单,选择"Network Configuration"菜单

POST Watchdog Timer POST Watchdog Timer V Reboot System on NHI Commands on USB Inter Network Configuration Reset IMM to Defaults Reset IMM	alue [0] <disable> face Preference</disable>	Select the box to enable POST Watchdog Timer.
†l=Move Highlight	<space>Select/UnSelect</space>	Esc=Exit

进入"Network Configuration"查看IP是否是192.168.70.125,如否.将其更改为此IP并选择 "Save Network Settings"将设置保存.

Network Interface Port	<dedicated></dedicated>	This option will allow
Burned-in MAC Address	00-1A-64-E6-11-AD	you to select your
Hostname	IMM-001A64E611AD	System Management
		Network Interface Port.
UHCP Control	<pre><uhup failover="" with=""></uhup></pre>	
IF Haaress Submot Maak	J-42-103-13	
Default Gateway	9 42 165 1	
Jave network Jettings		

2. 将终端机的网卡IP设置为与"192. 168. 70. 125"处于同网段的IP, 然后在终端机的IE浏览器中输入IP"192. 168. 70. 125",此时会出现以下界面:



在User Name处输入帐号: USERID, Password处输入密码: PASSWORD. 完成后会出现欢迎界面. (请注意"USERID"和"PASSWORD"照搬就可以了,这个和系统用户名密码不一样,是所有 同型号机器的默认设置,并且"PASSWORD"里面的"0"不是英文的"0",而是数字的"0") Welcome screen:

IBM.	IMM	System X
	Welcome USE Opening web session to iBM	RID. C.raleigh.ibm.com
Your session will expire start your session	with inactivity and you will be reprompted for your login ID and pas-	sword. Select the desired timeout parameter below and click "Continue" to
Inactive session timeou	value: no timeout 💌	
		Continue

选择 "Continue" 进入以下界面. 将 "Monitors" 下的所有选项保存 (System Status/Virtual Light Path/Event Log/Vital Product Data).

IBM.	IMM			System X
Changed				/ 4. 4
✓ System	System Status	0		
System Status Virtual Light Path Event Log Vital Product Data	The following link System Heat Temperatures	s can be used for qui t <u>h Summary</u> L	k access to different sections on	this screen.
✓ Tasks Power/Restart Remote Control PXE Network Boot Elements United	Voitages Eans View Latest ( Users Curren System Loca	DS Failure Screen tly Logged in to the IN tor LED	M	
<ul> <li>✓ IMM Control</li> <li>System Settings</li> </ul>	System Health	Summary 🙆		
Login Protes Alerts Serial Port	Server power: Server state:	Off System Power Off/S	tate unknown	
Port Assignments Network Interfaces Network Protocols Security	Server is open Scrall down for d	ating normally. All mo etails about temperate	nitored parameters are OK. res, voltages and fan speeds.	
Configuration File Restore Defaults Restart IMM	Environmentals	0		
	Temperatures (°F/°	9		
Log Off	Component	Value	View Thresholds	
	Ambient Temp	71 60/ 22 00	Thrasholds	

### Vital Product Data

Machine Le	vel VPD				
ors Machine ty	pe and model: 794	4F2C			
stem Status Serial numb	per: 99A	7794			
tual Light Path UUID:	6E6	5CD20816811DFA94	CE41F136726C8	3	
ent Log	0				
al Product Data Componen	t Level VPD 🥙				
wer/Pestart	ü				
mote Control FRU Number	FRU Name	Serial Numbe	r Mfg ID		
E Network Boot 59Y3915	DASD Backplane 1	YK129006P124	FOXC		
mware Update 39Y7201	Power Supply 1	K112105756A	EMER		
Control					
39Y7201	Power Supply 2	K132106C5UN	EMER		
stem Settings 39Y7201 gin Profiles	Power Supply 2	K132106C5UN	EMER		
39 Y7201 39 Y7201 39 Y7201 39 Y7201 Component rial Port trassignments FRU Number	Power Supply 2	K132106C5UN	EMER	Action	Timestamp
stem Settings jin Profiles rts component rt Assignments twork Interfaces 39Y7201	Power Supply 2 t Activity Log FRU Name Power Supply 1	K132106C5UN	r Mfg ID EMER	Action	Timestamp 06/26/2010:21:39:58
39 Y7201 39 Y7201 39 Y7201 39 Y7201 39 Y7201 39 Y7201 39 Y7201	Power Supply 2 t Activity Log FRU Name Power Supply 1 Power Supply 2	K132106C5UN	r Mfg ID EMER EMER	Action Added Added	Timestamp 06/26/2010:21:39:56 06/26/2010:21:39:58
39Y7201 39Y7201 39Y7201 39Y7201 Component strs Component strs Component Stress Stres	Power Supply 2 t Activity Log FRU Name Power Supply 1 Power Supply 2 DASD Backplane 1	K132106C5UN           Serial Numbe           K112105756A           K132106C5UN           YK129006P124	Mfg ID EMER EMER EMER	Action Added Added Added	Timestamp           06/26/2010:21:39:58           06/26/2010:21:39:58           06/26/2010:21:39:58
39Y7201 39Y7201 39Y7201 39Y7201 39Y7201 Component trial Port th Assignments twork Interfaces 39Y7201 39Y7201 39Y7201 39Y7201 59Y3915 59Y3915	Power Supply 2  FRU Name Power Supply 1  Power Supply 1  Power Supply 2  DASD Backplane 1	K132106C5UN Serial Numbe K112105756A K132106C5UN YK129006P124	Mfg ID EMER EMER EMER FOXC	Action Added Added Added	Timestamp           06/26/2010:21:39:58           06/26/2010:21:39:58           06/26/2010:21:39:58
39/7201       jin Profiles       jint Profiles       intal Port       int Assignments       twork Interfaces       twork Protocols       curity       nfiguration File       store Defaults       start IMM	Power Supply 2 t Activity Log FRU Name Power Supply 1 Power Supply 2 DASD Backplane 1 PD	K132106C5UN           Serial Numbe           K112105756A           K132106C5UN           YK129006P124	r Mfg ID EMER EMER EMER FOXC	Action Added Added Added	Timestamp           06/26/2010:21:39:58           06/26/2010:21:39:58           06/26/2010:21:39:58
39/7201       gin Profiles       gin Profiles       rial Port       rial Port       th Assignments       twork Interfaces       twork Protocols       ourity       nfiguration File       store Defaults       start IMM	Power Supply 2 t Activity Log FRU Name Power Supply 1 Power Supply 2 DASD Backplane 1 PD	K132106C5UN           Serial Numbe           K112105756A           K132106C5UN           YK129006P124	r Mfg ID EMER EMER EMER FOXC	Action Added Added Added	Timestamp           06/26/2010:21:39:58           06/26/2010:21:39:58           06/26/2010:21:39:58
stem Settings jin Profiles irts trial Port tt Assignments twork Interfaces twork Protocols curity store Defaults start IMM Firmware V Settings 39Y7201 39Y7201 59Y3915 Start IMM	Power Supply 2 t Activity Log FRU Name Power Supply 1 Power Supply 2 DASD Backplane 1 PD PD Version pe Version	K132106C5UN           Serial Numbe           K112105756A           K132106C5UN           YK129006P124           String	r Mfg ID EMER EMER FOXC	Action Added Added Added	Timestamp           06/26/2010:21:39:58           06/26/2010:21:39:58           06/26/2010:21:39:58
stem Settings jin Profiles irts trial Port tt Assignments twork Interfaces twork Protocols curity store Defaults start IMM Firmware V Firmware Typ IMM	Power Supply 2  t Activity Log  FRU Name Power Supply 1  Power Supply 2  DASD Backplane 1  PD  P  Version  YU000	K132106C5UN           Serial Numbe           K112105756A           K132106C5UN           YK129006P124           String           Re           4C         09/	r Mfg ID EMER EMER EMER FOXC	Action Added Added Added	Timestamp           06/26/2010:21:39:58           06/26/2010:21:39:58           06/26/2010:21:39:58
stem Settings jin Profiles irls Profiles irls Component twork Interfaces twork Protocols curity infiguration File store Defaults start IMM Firmware V Filmware Typ IMM UEFI	Power Supply 2  t Activity Log  FRU Name Power Supply 1  Power Supply 2  DASD Backplane 1  PD  P  Version YU000 D6E145	K132106C5UN           Serial Numbe           K112105756A           K132106C5UN           YK129006P124           String           Re           4C         09/           NA         09/	EMER     Mfg ID     EMER     EMER     EMER     FOXC	Action Added Added Added	Timestamp           06/26/2010.21:39:56           06/26/2010.21:39:56           06/26/2010.21:39:56

## IMM2 日志收集步骤:



通过板载系统管理口(System-management)收集日志.

方法是使用直连线(此网口可自适应连接方式)将此网口连接于一台终端机(笔记本或台式机). 查看此网口的IP地址是否是192.168.70.125,可进入服务器UEFI中的选项查看,如IP不是 192.168.70.125.可将其更改.或客户端设置同一网段;具体信息如下: 开机按F1进入UEFI选项菜单,选择"System Settings"进入该菜单设置:

Syst	em Configuration and Boot	Management
System Information System Settings Date and Time		This selection will take you to the System Settings. Changes may not take immediately,
Start Options Boot Manager		but rather must be saved & the system rebooted before new
System Event Logs User Security		settings take effect.
Save Settings Restore Settings Load Default Settings Exit Setup		
î↓=Move Highlight	<enter>=Select Entry</enter>	<esc>=Exit Setup</esc>

进入"System Settings"菜单选项后选择"Integrated Management Module"菜单

	System Settings	
Adapters and UEFI Drive Processors Memory Devices and I/O Ports Power Operating Modes Legacy Support System Security Integrated Management M Recovery Storage Network Driver Health	ers Iodu 1e	Select this option to configure the iMM.
†↓=Move Highlight	<enter>=Select Entry</enter>	Esc=Exit

进入"Integrated Management Module"菜单,选择"Network Configuration"菜单

Integrated Management Module				
Power Restore Policy <restore> Select this option to configure your IMM network configuration Reset IMM to Defaults</restore>				
Reset TMM				
†↓=Move Highlight	<enter>=Select Entry</enter>	Esc=Exit		

进入"Network Configuration"查看IP是否是192.168.70.125,如否.将其更改为此IP并选择 "Save Network Settings"将设置保存.(如不修改,需要将客户端设置同一网段的IP地址)

Network Configuration			
Network Interface Port Burned-in MAC Address Hostname	<dedicated> E4-1F-13-ED-22-FE IMM2-e41f13ed22fe</dedicated>	Enter IP address in dotted-decimal notation.	
DHCP Control IP Address Subnet Mask Default Gateway	< <u>Static IP&gt;</u> 192.168.140.231 255.255.255.0 0.0.0.0		
IP6 Local Link Address	<enabled> FE80::E61F:13FF:FEED:22 FE/64</enabled>		
ULAN Support	<disabled></disabled>		
†↓=Move Highlight	<enter>=Select Entry</enter>	Esc=Exit	

Network Configuration				
DHCP Control IP Address Subnet Mask Default Gateway	<pre></pre>	Select this option to commit your changes to IMM. Please allow a few minutes for the changes to take effect.		
IP6 Local Link Address	<enabled> FE80::E61F:13FF:FEED:22 FE/64</enabled>			
VLAN Support	<disabled></disabled>			
Advanced IMM Ethernet Setup Save Network Settings				
†↓=Move Highlight	<enter>=Select Entry</enter>	Esc=Exit		

2. 将终端机的网卡IP设置为与"192.168.70.125"处于同网段的IP, 然后在终端机的IE浏览器中输入IP"192.168.70.125",此时会出现以下界面:

Integrated Man	agement Module
	User name: USERID
	Password:
	Inactive session timeout:
	Log In
<u>Note:</u> To ensure secur end your sessions usin right area of the web	ity and avoid login conflicts, always ng the "Log out" option in the upper page.
Note: Although the IM certificate is not prese until a valid certificate • <u>Supported Browsers</u>	M2 is configured for https, a usable nt. The IMM2 will operate in http mode has been installed.

在User Name处输入帐号: USERID, Password处输入密码: PASSWORD. 完成后会出现欢迎界面. (请注意"USERID"和"PASSWORD"照搬就可以了,这个和系统用户名密码不一样,是所有 同型号机器的默认设置,并且"PASSWORD"里面的"0"不是英文的"0",而是数字的"0")

## 进入管理界面后,点击"Events"—"Event Log"

IBM Integrated Management Module II					
	System Status	Events 👻	Service and Suppo	ort 👻 Server Management 👻 IMM Management 👻 Search, , ,	
		Event Lo	9	Full log history of all events	
System x3550		Event Re	cipients	Add and modify E-Mail and SysLog notifications	

The System Status and Health page provides an at-a-glance overview of the operating status of the server in which this IMM resides. Common inform

Message

### System Status@

Power: On System state: OS booted

System Information 
Power Actions 
Remote Control. . Latest OS Failure Screen

#### Active Events Source

Severity

Date

#### Hardware Health 🥥

Component Type	Status
Cooling Devices	🗹 Normal
Power Modules	🔽 Normal
Disks	🗹 Normal
Processors	🔽 Normal
Memory	🗹 Normal
System	🗹 Normal

Event Log This page displays the contents of the IMM event log, and allows you to sort and filter the log. By default the log entries are displayed in reverse chronological order (most re of the event is displayed along with a timestamp, source and a text mess... more... Export...
Delete Events...

<ul> <li>Filter Events</li> </ul>				
Search Events		Go		
Severity	Source	Date	✓ Event ID	Message
🚺 Informational	System	25 Jan 2013 05:17:40.875 PM	0x4000000e00000000	Remote Login Successful. Login ID: USERID fror webgui at IP address 192.168.140.138.
<u> Warning</u>	System	25 Jan 2013 05:17:26.991 PM	0x4000001000000000	Security: Userid: USERID had 1 login failures fror WEB client at IP address 192.168.140.138.
🔇 Error	System	25 Jan 2013 05:16:21.275 PM	0x40000020000000	Certificate Authority dnQualifier=XXXX(initials=XXXX,GN=XXXX,SN=XXX has detected a Certificate Error.
🔝 Informational	System	22 Jan 2013 12:59:38.095 PM	0x4000000e00000000	Remote Login Successful. Login ID: USERID fror webgui at IP address 192.168.140.138.
🔕 Error	System	22 Jan 2013 12:59:24.483 PM	0x40000020000000	Certificate Authority dnQualifier=XXXX(initials=XXXX,GN=XXXX,SN=XXX has detected a Certificate Error.
🔝 Informational	System	18 Jan 2013 03:58:22.507 PM	0x400000000000000	Attempting to Power On server SN# 06TKD10 by user 0x25E45D32.
🔕 Error	System	18 Jan 2013 03:58:01.911 PM	0x40000020000000	Certificate Authority dnQualifier=XXXX(initials=XXXX,GN=XXXX,SN=XXX has detected a Certificate Error.
🔇 Error	System	16 Jan 2013 03:58:37.387 PM	0x40000020000000	Certificate Authority dnQualifier=XXXX(initials=XXXX,GN=XXXX,SN=XXX has detected a Certificate Error.
🚺 Informational	System	16 Jan 2013 03:58:22.295 PM	0x4000000e00000000	Remote Login Successful, Login ID: USERID fror webguit at IP address 192 168 1/10 138

可以查看到 Event Log, 若要导出, 点击"Export..." 按钮, 出现如下窗口:

Export Events	х
Export events to a text file. Select which events to export. Use 'Ctrl'+Select for selection of mutiple events.	
O All Events Selected Events	
OK Cancel	

选择 All Events, 点击 OK 按钮;

Opening spevents.elg	×
You have chosen to open:	
spevents.elg	
which is a: elg File (56.0 KB) from: http://192.168.140.231	
What should Firefox do with this file?	
C Open with Browse	
Do this <u>a</u> utomatically for files like this from now on.	
OK Cancel	

选择"Save File",点击OK即可保存。 Service Data 日志收集: (FFDC LOG)

点击"Service and Support" -"Download Service Data"

IBM Integrated Management Module II						
	System Status	Events 🗸	Service and Support $ eq$	Server Management 👻	IMM Management 👻	Searc
System x3550 M4			Download Service Da	ita Obtain a compr service data	essed file of relevant	

The System Status and Health page provides an at-a-glance overview of the operating status of the server in which this

System Status Power: On System state: OS booted

Download Service Data Allows you to manually obtain the service data for your system. Normally you would only do this at the request of IBM Support personnel. Download Now

在出现的下载窗口中,点击"Download Now"按钮;出现 ffdc 下载界面;

Opening ffdc.tgz	×
You have chosen to open:	
📜 ffdc. tgz	
What should Firefox do with this file?	
• Open with Browse***	
C <u>S</u> ave File	
Do this <u>a</u> utomatically for files like this from now on.	
OK Cancel	

选择"Save File"保存即可。

## 刀片服务器的 AMM 日志收集步骤:

- AMM 是刀片服务器的硬件管理芯片,其中包括了一些常用的硬件 VPD 信 息、硬件日志、硬件微码版本、LPD 信息;
- 通过 WEB 界面登陆 AMM 是最常用的方式;
- 可以通过 AMM 对服务器进行远程管理,例如开关机、重启、重启管理芯片、 和 remote control (图形化桌面);
- 收集 AMM service data 日志是更加全面和深入 PD 的必要步骤,通过 AMM 左边的 Service Tool -> AMM service data 即可收集

AMM Service Data 🛛		
The support team will use the AMM service data provided by this page.	AMM Service Data 🛛	
	The support team will use the AMM service data provided by this page.	
Save AMM Service Data		Save AMM Service Data

## Flex 刀箱的 CMM 日志收集步骤:

- 功能与 AMM 对刀片服务器类似,但是每个 Flex 服务器还有独立的 iMM 可进行管理。
- 通过 WEB 界面登陆 CMM 是最常用的方式;
- 收集 CMM service data 日志是更加全面和深入 PD 的必要步骤,通过 CMM 的 Service and Support -> Download Service data -> Download Mgmt Module Data now 即可收集

```
    From the CMM web interface home, click Service and Support > Download Service Data.
    DOWNLOAD Service Data
    Allows you to manually obtain the service data for your system. Normally you would only do this at the request of IBM Support personnel.
    Download Mgmt Module Data Now Send Mgmt Module Data to e-mail recipient Compute Node Service Data
    点最左边的download mgmt module data now, 数据包应该是.tgz的格式, 请发给我。
```

## OS 和应用日志收集步骤:

- Windows 中, DSA 仅会截取最新的 1024 条 system log 和 application log。更 早的日志要到 Windows 中手动收取;
- Linux 中, DSA 仅会截取最新的 1024 条 message 日志。更早的日志要到 /var/log/中手动收取所有的 message;
- Linux 自带的日志收集工具, Sysreport for RedHat & SIGA for SuSE;
- VMware 中, 推荐用 v-center 去收取 ESX(i)和 v-center 的日志, 或者在 ESX(i) 中运行 vm-support ;
- 应用日志,需要由应用商协助收取。

其他日志的收取,例如交换模块、存储等

• 请参考 <u>https://w3.tap.ibm.com/w3ki2/display/GLOSSE/Logs</u>