

HPE Gen9 服务器通过 AHSdownload 收集 AHS 日志

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一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen9 系列服务器系统下通过 Active Health System Log Download CLI 收集 AHS 日志。
- 本文仅适用于 Windows 与 Linux 系统。
- 实际情况是否适用本文档, 请通过下面导航链接进行确认:
<https://zhiliao.h3c.com/Theme/details/218272>
- 提示:
 - 本文档中的信息 (包括产品, 软件版本和设置参数) 仅作参考示例, 具体操作与目标需求设置

请以实际为准。

- 本文档不定期更新维护，请以发布的最新版本为准。

二. 操作准备

1. 下载 Active Health System Log Download CLI 工具

- Windows 下载链接: [Active Health System Log Download CLI for Windows SmartComponent | HPE Support](#)

- Linux 下载链接: [适用于 Linux 的活动状态系统\(AHS\)日志下载 CLI | HPE Support](#)

2. Windows 系统下载 iLO Channel Interface 驱动

- iLO 4 Channel Interface Driver for Windows Server 2016 and Server 2019:

[iLO 4 Channel Interface Driver for Windows Server 2016 and Server 2019 | HPE Support](#)

- iLO 4 Channel Interface Driver for Windows Server 2012 and Server 2012 R2:

[iLO 4 Channel Interface Driver for Windows Server 2012 and Server 2012 R2 | HPE Support](#)

- iLO 4 Channel Interface Driver for Windows Server 2008:

[Windows Server 2008 至 Server 2012 R2 版 iLO 3/4 信道接口驱动程序 | HPE Support](#)

3. 连接 iLO 与启用远程控制台

具体方法请参考: <https://zhiliao.h3c.com/Theme/details/216337>

三. 操作步骤

1. 访问系统

1.1 通过 iLO 启用远程控制台访问系统 (Windows Server, Linux)

iLO 4 页面 Information -> Overview 的 Integrated Remote Console 选项，或页面左侧 Remote Console 导航可启用远程控制台。本文以 HTML5 远程控制台为例。

ILO Overview

Information

Overview

Server Name: [REDACTED]
Product Name: [REDACTED]
UUID: [REDACTED]
Server Serial Number: U20 v3.08 (01/12/2023)
System ROM: U20 v3.08 (01/12/2023)
System ROM Date: 01/12/2023
Backup System ROM: 1/12/2021
Integrated Remote Console: HTML5, .NET, Java Web Start
License Type: ILO Advanced
ILO Firmware Version: 2.79 Nov 16 2021

Status

System Health: OK
ILO Health: OK
Server Power: ON
UID Indicator: UID OFF
TPM Status: Not Present
SD-Card Status: Not Present
ILO Date/Time: Thu Jun 15 11:51:27 2023

Connection to HPE

Remote Console - ILO Integrated Remote Console

.NET Integrated Remote Console (.NET IRC)

The .NET IRC provides remote access to the system KVM and control of Virtual Power and Media from a single console built on the Microsoft .NET Framework.

If you are using Windows 7, 8, 8.1 or 10, a supported version of the .NET Framework is already included in your operating system. The .NET Framework is also available at the Microsoft Download Center. The .NET IRC requires the .NET Framework 4.5.1 or greater.

As a workaround select one of the following instead:

- HTML5 Remote console
- Integrated .NET IRC application with another browser
- Standalone .NET IRC application available from www.hpe.com
- ILO Mobile Application to access the ILO Remote Console

HTML5 Integrated Remote Console

The HTML5 IRC provides remote access to the system KVM and control of Virtual Media from a single console that runs in a supported browser.

Java Integrated Remote Console (Java IRC)

The Java IRC provides remote access to the system KVM and control of Virtual Power and Media from a Java Web Start console or applet-based console. Hewlett Packard Enterprise recommends using the latest version of the Java™ Runtime Environment. This version of ILO was tested with JRE version 8 update 121.

Note: On Linux systems with OpenJDK, you must use the Java Applet option with a browser that supports a Java plug-in.

HPE ILO Mobile App

The HPE ILO Mobile application provides access to the remote console of your HPE server from your mobile device. The mobile app interacts directly with the ILO processor on HPE servers, providing total control of the server at all times as long as the server is plugged in. You can troubleshoot problems and perform software deployments from almost anywhere.

Download: Connect Manager Get started today: www.hpe.com/info/ilo/mobileapp

Launch

HTML5 Console

Web Start **Applet**

Learn More

1.2 通过第三方 SSH 工具访问系统 (Linux)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect... 10.12. [REDACTED]

login as: root
root@10.12.[REDACTED]'s password:
[root@root ~]#

1.3 通过远程桌面或第三方 RDP 工具访问系统 (Windows Server)

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect... Detach tab Toggle scaling Fullscreen Fit to window size Set connection password Hide bar Disconnect

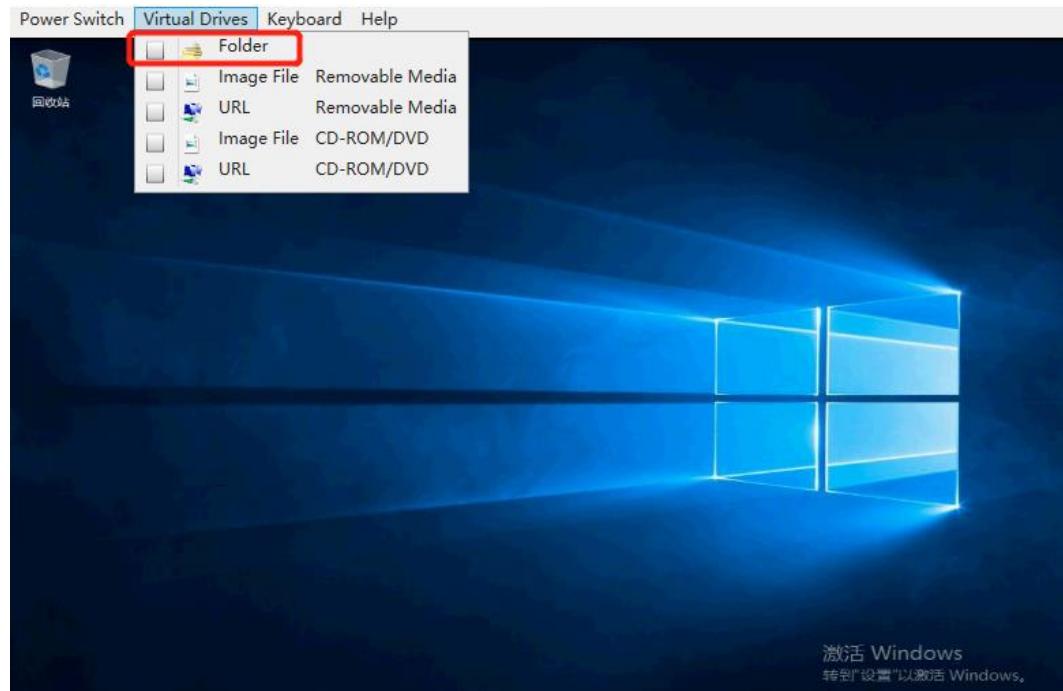
Sessions Macros Tools

[REDACTED]

2. 将 AHSdownload 工具保存到系统下

2.1 Windows Server

2.1.1 通过 iLO 启用远程控制台将工具挂载到系统下

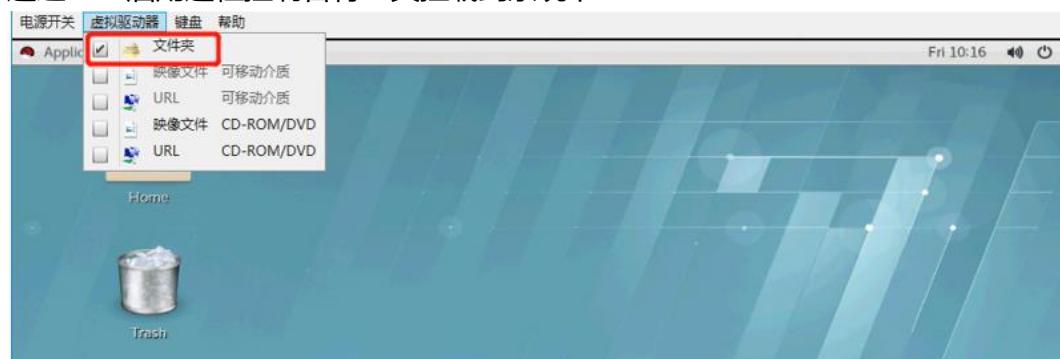


2.1.2 通过 U 盘将文件挂载到系统下

U 盘接入服务器后，在系统下直接访问挂载点。

2.2 Linux

2.2.1 通过 iLO 启用远程控制台将工具挂载到系统下



```
[root@localhost test]# lsblk -l
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda        8:0    0   1.1T  0 disk 
sda1       8:1    0   200M  0 part /boot/efi
sda2       8:2    0     1G  0 part /boot
sda3       8:3    0   1.1T  0 part
centos-root 253:0  0    50G  0 lvm   /
centos-swap 253:1  0     4G  0 lvm   [SWAP]
centos-home 253:2  0    1T  0 lvm   /home
sdc        8:32   0   2.2T  0 disk 
sdc1       8:33   0     4M  0 part
sdc2       8:34   0     4G  0 part
sdc3       8:35   0   2.2T  0 part
sdc5       8:37   0   250M  0 part
sdc6       8:38   0   250M  0 part
sdc7       8:39   0   110M  0 part
sdc8       8:40   0   286M  0 part
sdc9       8:41   0   2.5G  0 part
sdd        8:48   1   16M  1 disk  /run/media/test/iLO FOLDER
pmem0      259:6  0  248.1G 0 disk 
pmem1      259:0  0   252G  0 disk 
pmem1p1    259:1  0   252G  0 part
pmem2      259:2  0   252G  0 disk 
pmem2p1    259:3  0   252G  0 part
pmem3      259:4  0   252G  0 disk 
pmem3p1    259:5  0   252G  0 part

[root@localhost test]# mkdir /mnt/cdrom
[root@localhost test]# mount /dev/sdd /mnt/cdrom
mount: /dev/sdd is write-protected, mounting read-only
[root@localhost test]# cd /mnt/cdrom
[root@localhost cdrom]# ls
AHSdownload-2.2.0-5.x86_64.rpm
```

2.2.2 通过 U 盘将文件挂载到系统下

U 盘接入服务器后，在系统下通过 mount 命令挂载。

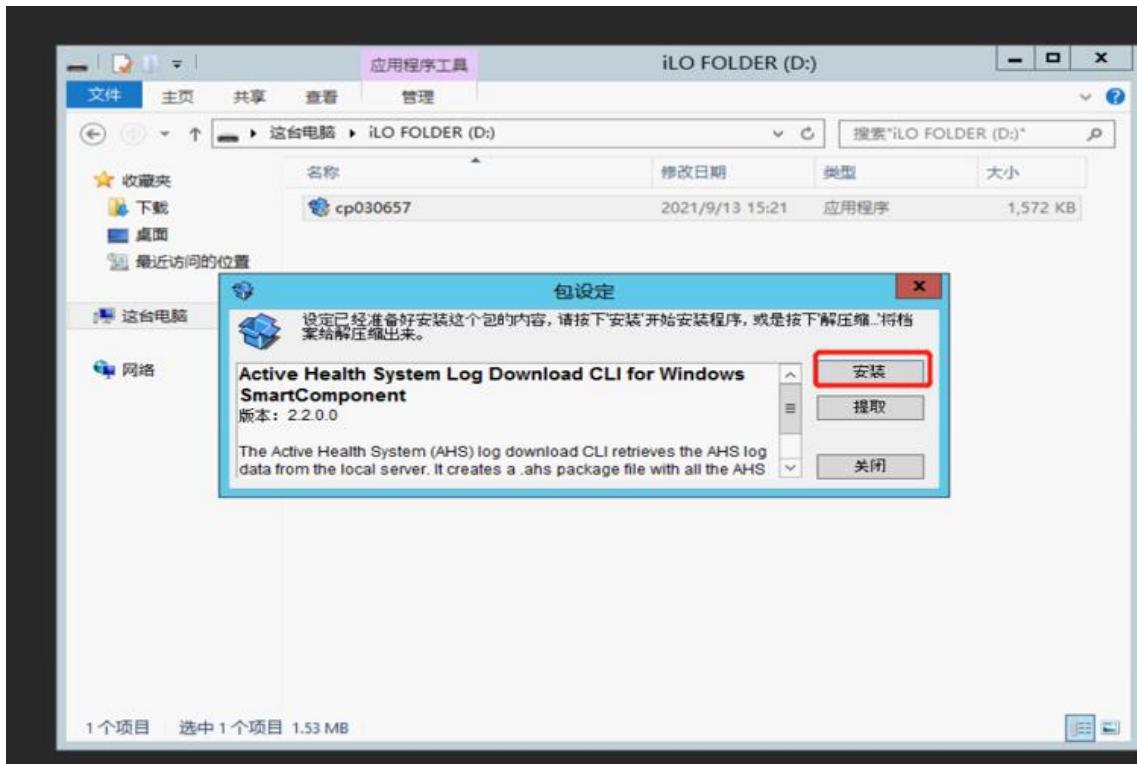
2.2.3 通过第三方 SSH 工具将文件保存到系统下

参考第三方工具使用说明。

3. 安装 AHSdownload

3.1 Windows Server

系统下双击 AHSdownload CLI 安装包，点击安装。



3.2 Linux

执行 rpm -ivh <rpm file>命令安装工具。

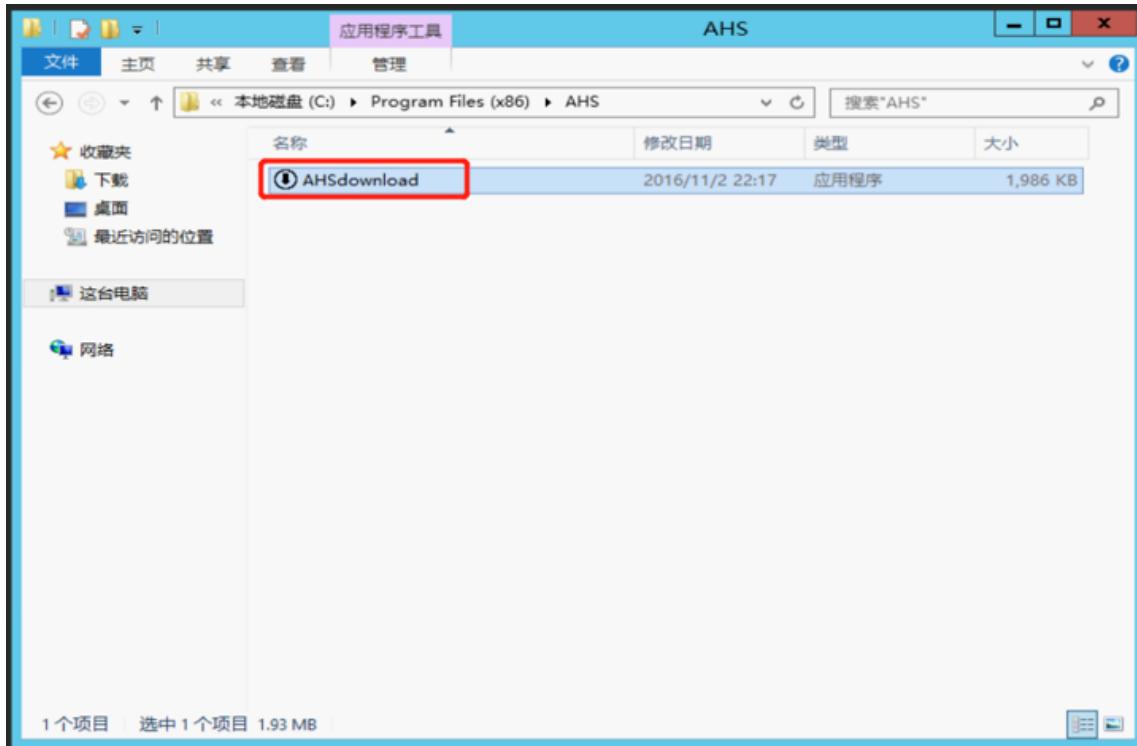
```
[root@localhost ahsdownload]# rpm -ivh AHSdownload-2.2.0-5.x86_64.rpm
warning: AHSdownload-2.2.0-5.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID
26c2b797: NOKEY
Preparing...                                           #####[100%]
Updating / installing...                           #####[100%]
 1:AHSdownload-2.2.0-5                            #####[100%]
```

4. 收集 AHS 日志

4.1 Windows Server

在默认安装路径下找到 AHSdownload, 以管理员权限执行, 默认路径下会自动生成.ahs 后缀的日志文件。

C:\program files(x86)\Hewlett Packard Enterprise\ActiveHealthSystem



4.2 Linux

- 先进入 AHSdownload 安装位置，执行如下命令收集日志。

```
./AHSdownload -a -d /tmp      (/tmp 指的是日志存放目录)
```

```
[root@localhost ahsdownload]# cd /opt/ahs/AHSdownload
[root@localhost AHSdownload]# ls
AHSdownload README
[root@localhost AHSdownload]# ./AHSdownload -a -d /tmp

AHS CLI Linux download version=2.2.0

0%...0%...0%...0%...0%...0%...0%...0%...0%...0%...0%...0%...0%...0%...1%...1%...2%
.2%...3%...3%...4%...4%...5%...5%...6%...6%...7%...7%...7%...8%...8%...9%...9%
..10%...10%...11%...11%...12%...12%...13%...13%...14%...14%...15%...15%...16%..
.16%...17%...17%...18%...18%...18%...18%...19%...19%...20%...20%...20%...20%...
21%...21%...21%...21%...21%...21%...22%...22%...22%...23%...23%...24%...2
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.70%...70%...70%...71%...71%...71%...72%...72%...72%...73%...73%...74%...7
4%...74%...74%...74%...74%...74%...75%...75%...75%...75%...75%
```

- 收集好后可得到一个后缀名为.ahs 格式的日志文件。

```
.79%...79%...80%...80%...80%...80%...80%...80%...80%...81%...81%...81%...  
81%...81%...81%...81%...81%...81%...81%...81%...81%...81%...81%...81%...8  
1%...82%...82%...82%...82%...82%...82%...82%...82%...82%...82%...82%...83  
%...83%...83%...83%...83%...83%...83%...83%...83%...84%...84%...84%...84%  
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94%...94%...95%...95%...96%...96%...96%...97%...97%...97%...98%...98%...9  
9%...99%...99%...99%...99%...100%  
  
Successfully created the AHS file with name: /tmp/HP_C_5125_v_20211118.ahs  
[root@localhost AHSdownload]# cd /tmp  
[root@localhost tmp]# ls  
HP_C_5125_v_20211118.ahs  systemd-private-e12ae66fc45542adb9dd2f14adca6b78-chronyd.service-6gT7oE  
ks-script-0qzVAi          yum.log  
[root@localhost tmp]#
```