システム イベント ログ

システム イベント ログ

システム イベント ログ（SEL）は、NVRAM 内の CIMC に存在します。SEL は、システム正常性に関するトラブルシューティングのために使用されます。過不足電圧のインスタンス、温度イベント、ファン イベント、BIOS イベントなど、ほとんどのサーバ関連イベントが記録されます。SEL によってサポートされるイベントのタイプには、BIOS イベント、メモリ ユニット イベント、プロセッサ イベント、およびマザーボード イベントが含まれます。

SEL ログは SEL ログ ポリシーに従って CIMC NVRAM に保存されます。SEL ログを定期的にダウンロードしてクリアすることがベスト プラクティスです。SEL ファイルのサイズは約 40KB で、ファイルがいっぱいになるとそれ以上イベントを記録できません。新たなイベントを記録できるようにするには、ファイルの中身をクリアする必要があります。

SEL ポリシーを使用して、SEL をリモート サーバにバックアップできます。また、必要に応じて、バックアップ操作後に SEL をクリアすることもできます。バックアップ操作は、特定のアクションに基づいて起動するか、定期的に実行されるように設定できます。SEL のバックアップやクリアは、手動で行うこともできます。

バックアップ ファイルは、自動的に生成されます。ファイル名の形式は sel-*SystemName-ChassisID-ServerID-ServerSerialNumber-Timestamp* です。

たとえば、sel-UCS-A-ch01-serv01-QCI12522939-20091121160736 という名前になります。

Viewing the System Event Log for a Server

Viewing the System Event Log for an Individual Server

SUMMARY STEPS

1. UCS-A# **show sel** *chassis-id* / *blade-id*

DETAILED STEPS

	Command or Action	Purpose
Step 1	UCS-A# **show sel** *chassis-id* / *blade-id*	Displays the system event log for the specified server.

Example

The following example displays the system event log for blade 3 in chassis 1.

```
UCS-A# show sel 1/3
     1 | 01/01/1970 01:23:27 | System Event 0x83 | Timestamp clock synch | SEL timestamp
clock updated, event is f
irst of pair | Asserted
     2 | 01/01/1970 01:23:28 | Drive slot(Bay) SAS0_LINK_STATUS | Transition to Degraded |
 Asserted
     3 | 01/01/1970 01:23:28 | Drive slot(Bay) SAS0_LINK_STATUS | Transition to On Line |
Deasserted
     4 | 01/01/1970 01:23:28 | Platform alert LED_SAS0_FAULT | LED is blinking fast |
Asserted
     5 | 01/01/1970 01:23:28 | Platform alert LED_SAS0_FAULT | LED is on | Deasserted
     6 | 01/01/1970 01:23:28 | Platform alert LED_FPID | LED is on | Asserted
     7 | 01/01/1970 01:23:28 | Platform alert LED_FPID | LED is off | Deasserted
     8 | 01/01/1970 01:23:29 | Entity presence MAIN_POWER | Device Absent | Asserted
     9 | 01/01/1970 01:23:29 | Entity presence MAIN_POWER | Device Present | Deasserted
     a | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED is on | Asserted
    b | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED color is green | Asserted

     c | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED is blinking fast |
Deasserted
    d | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED color is amber | Deasserted

     e | 01/01/1970 00:00:22 | Drive slot(Bay) SAS0_LINK_STATUS | Transition to Degraded |
 Asserted
     f | 01/01/1970 00:00:22 | Entity presence MEZZ_PRS | Device Present | Asserted
    10 | 01/01/1970 00:00:22 | Entity presence HDD1_PRS | Device Absent | Asserted
```

Viewing the System Event Log for All of the Servers in a Chassis

SUMMARY STEPS

1. UCS-A# **scope server** *chassis-id* / *blade-id*
2. UCS-A /chassis/server # **show sel**

DETAILED STEPS

	Command or Action	Purpose
Step 1	UCS-A# **scope server** *chassis-id / blade-id*	Enters chassis server mode for the specified server.
Step 2	UCS-A /chassis/server # **show sel**	Displays the system event log.

Example

The following example displays the system event log from chassis server mode for blade 3 in chassis 1.

```
UCS-A# scope server 1/3
UCS-A /chassis/server # show sel
     1 | 01/01/1970 01:23:27 | System Event 0x83 | Timestamp clock synch | SEL timestamp
clock updated, event is f
irst of pair | Asserted
     2 | 01/01/1970 01:23:28 | Drive slot(Bay) SAS0_LINK_STATUS | Transition to Degraded |
 Asserted
     3 | 01/01/1970 01:23:28 | Drive slot(Bay) SAS0_LINK_STATUS | Transition to On Line |
Deasserted
     4 | 01/01/1970 01:23:28 | Platform alert LED_SAS0_FAULT | LED is blinking fast |
Asserted
     5 | 01/01/1970 01:23:28 | Platform alert LED_SAS0_FAULT | LED is on | Deasserted
     6 | 01/01/1970 01:23:28 | Platform alert LED_FPID | LED is on | Asserted
     7 | 01/01/1970 01:23:28 | Platform alert LED_FPID | LED is off | Deasserted
     8 | 01/01/1970 01:23:29 | Entity presence MAIN_POWER | Device Absent | Asserted
     9 | 01/01/1970 01:23:29 | Entity presence MAIN_POWER | Device Present | Deasserted
     a | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED is on | Asserted
    b | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED color is green | Asserted

     c | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED is blinking fast |
Deasserted
    d | 01/01/1970 01:23:29 | Platform alert LED_SAS0_FAULT | LED color is amber | Deasserted

     e | 01/01/1970 00:00:22 | Drive slot(Bay) SAS0_LINK_STATUS | Transition to Degraded |
 Asserted
     f | 01/01/1970 00:00:22 | Entity presence MEZZ_PRS | Device Present | Asserted
    10 | 01/01/1970 00:00:22 | Entity presence HDD1_PRS | Device Absent | Asserted
```

Configuring the SEL Policy

SUMMARY STEPS

1. UCS-A# **scope org** *org-name*
2. UCS-A /org # **scope ep-log-policy sel**
3. (Optional) UCS-A /org/ep-log-policy # **set description** *description*
4. UCS-A /org/ep-log-policy # **set backup action** [**log-full**] [**on-change-of-association**] [**on-clear**] [**timer**] [**none**]
5. UCS-A /org/ep-log-policy # **set backup clear-on-backup** {**no** | **yes**}
6. UCS-A /org/ep-log-policy # **set backup destination** *URL*
7. UCS-A /org/ep-log-policy # **set backup format** {*ascii* | *binary*}
8. UCS-A /org/ep-log-policy # **set backup hostname** {*hostname* | *ip-addr*}

9. UCS-A /org/ep-log-policy # **set backup interval** {**1-hour** | **2-hours** | **4-hours** | **8-hours** | **24-hours** | **never**}
10. UCS-A /org/ep-log-policy # **set backup password** *password*
11. UCS-A /org/ep-log-policy # **set backup protocol** {**ftp** | **scp** | **sftp** | **tftp**}
12. UCS-A /org/ep-log-policy # **set backup remote-path** *path*
13. UCS-A /org/ep-log-policy # **set backup user** *username*
14. UCS-A /org/ep-log-policy # **commit-buffer**

DETAILED STEPS

	Command or Action	Purpose
Step 1	UCS-A# **scope org** *org-name*	Enters organization mode for the specified organization. To enter the root organization mode, type **/** as the *org-name* .
Step 2	UCS-A /org # **scope ep-log-policy sel**	Enters organization endpoint log policy mode and scopes the SEL policy.
Step 3	(Optional) UCS-A /org/ep-log-policy # **set description** *description*	Provides a description for the policy. **Note** If your description includes spaces, special characters, or punctuation, begin and end your description with quotation marks. The quotation marks will not appear in the description field of any **show** command output.
Step 4	UCS-A /org/ep-log-policy # **set backup action** [**log-full**] [**on-change-of-association**] [**on-clear**] [**timer**] [**none**]	Specifies an action or actions that will trigger a backup operation.
Step 5	UCS-A /org/ep-log-policy # **set backup clear-on-backup** {**no** | **yes**}	Specifies whether to clear the system event log after a backup operation occurs.
Step 6	UCS-A /org/ep-log-policy # **set backup destination** *URL*	Specifies the protocol, user, password, remote hostname, and remote path for the backup operation. Depending on the protocol used, specify the URL using one of the following syntaxes: • **ftp://** *username***@***hostname* **/** *path* • **scp://** *username* **@** *hostname* **/** *path* • **sftp://** *username* **@** *hostname* **/** *path* • **tftp://** *hostname* **:** *port-num* **/** *path* **Note** You can also specify the backup destination by using the **set backup hostname** , **set backup password** , **set backup protocol** , **set backup remote-path** , **set backup user** commands, or by using the **set backup destination** command. Use either method to specify the backup destination.

	Command or Action	Purpose
Step 7	UCS-A /org/ep-log-policy # **set backup format** {*ascii* | *binary*}	Specifies the format for the backup file.
Step 8	UCS-A /org/ep-log-policy # **set backup hostname** {*hostname* | *ip-addr*}	Specifies the hostname or IP address of the remote server.
Step 9	UCS-A /org/ep-log-policy # **set backup interval** {**1-hour** | **2-hours** | **4-hours** | **8-hours** | **24-hours** | **never**}	Specifies the time interval for the automatic backup operation. Specifying the **never** keyword means that automatic backups will not be made.
Step 10	UCS-A /org/ep-log-policy # **set backup password** *password*	Specifies the password for the username. This step does not apply if the TFTP protocol is used.
Step 11	UCS-A /org/ep-log-policy # **set backup protocol** {**ftp** | **scp** | **sftp** | **tftp**}	Specifies the protocol to use when communicating with the remote server.
Step 12	UCS-A /org/ep-log-policy # **set backup remote-path** *path*	Specifies the path on the remote server where the backup file is to be saved.
Step 13	UCS-A /org/ep-log-policy # **set backup user** *username*	Specifies the username the system should use to log in to the remote server. This step does not apply if the TFTP protocol is used.
Step 14	UCS-A /org/ep-log-policy # **commit-buffer**	Commits the transaction.

Example

The following example configures the SEL policy to back up the system event log (in ASCII format) every 24 hours or when the log is full, clears the system event log after a backup operation occurs, and commits the transaction:

```
UCS-A# scope org /
UCS-A /org # scope ep-log-policy sel
UCS-A /org/ep-log-policy # set backup destination scp://user@192.168.1.10/logs
Password:
UCS-A /org/ep-log-policy* # set backup action log-full
UCS-A /org/ep-log-policy* # set backup clear-on-backup yes
UCS-A /org/ep-log-policy* # set backup format ascii
UCS-A /org/ep-log-policy* # set backup interval 24-hours
UCS-A /org/ep-log-policy* # commit-buffer
UCS-A /org/ep-log-policy #
```

Backing Up the System Event Log for a Server

Backing Up the System Event Log for an Individual Server

Before you begin

Configure the system event log policy. The manual backup operation uses the remote destination configured in the system event log policy.

SUMMARY STEPS

1. UCS-A /chassis/server # **backup sel** *chassis-id* / *blade-id*
2. UCS-A# **commit-buffer**

DETAILED STEPS

	Command or Action	Purpose
Step 1	UCS-A /chassis/server # **backup sel** *chassis-id* / *blade-id*	Backs up the system event log.
Step 2	UCS-A# **commit-buffer**	Commits the transaction.

Example

The following example backs up the system event log for blade 3 in chassis 1 and commits the transaction.

```
UCS-A# backup sel 1/3
UCS-A* # commit-buffer
UCS-A#
```

Backing Up the System Event Log for All of the Servers in a Chassis

Before you begin

Configure the system event log policy. The manual backup operation uses the remote destination configured in the system event log policy.

SUMMARY STEPS

1. UCS-A# **scope server** *chassis-id* / *blade-id*
2. UCS-A /chassis/server # **backup sel**
3. UCS-A /chassis/server # **commit-buffer**

DETAILED STEPS

	Command or Action	Purpose
Step 1	UCS-A# **scope server** *chassis-id* / *blade-id*	Enters chassis server mode for the specified server.
Step 2	UCS-A /chassis/server # **backup sel**	Backs up the system event log.
Step 3	UCS-A /chassis/server # **commit-buffer**	Commits the transaction.

Example

The following example backs up the system event log from chassis server mode for blade 3 in chassis 1 and commits the transaction.

```
UCS-A# scope server 1/3
UCS-A /chassis/server # backup sel
UCS-A /chassis/server* # commit-buffer
UCS-A /chassis/server #
```

Clearing the System Event Log for a Server

Clearing the System Event Log for an Individual Server

SUMMARY STEPS

1. UCS-A# **clear sel** *chassis-id* / *blade-id*
2. UCS-A# **commit-buffer**

DETAILED STEPS

	Command or Action	Purpose
Step 1	UCS-A# **clear sel** *chassis-id* / *blade-id*	Clears the system event log.
Step 2	UCS-A# **commit-buffer**	Commits the transaction.

Example

The following example clears the system event log for blade 3 in chassis 1 and commits the transaction:

```
UCS-A# clear sel 1/3
UCS-A* # commit-buffer
UCS-A#
```

Clearing the System Event Log for All of the Servers in a Chassis

SUMMARY STEPS

1. UCS-A# **scope server** *chassis-id* / *blade-id*
2. UCS-A /chassis/server # **clear sel**
3. UCS-A /chassis/server # **commit-buffer**

DETAILED STEPS

	Command or Action	Purpose
Step 1	UCS-A# **scope server** *chassis-id* / *blade-id*	Enters chassis server mode for the specified server.
Step 2	UCS-A /chassis/server # **clear sel**	Clears the system event log.
Step 3	UCS-A /chassis/server # **commit-buffer**	Commits the transaction.

Example

The following example clears the system event log from chassis server mode for blade 3 in chassis 1 and commits the transaction:

```
UCS-A# scope server 1/3
UCS-A /chassis/server # clear sel
UCS-A /chassis/server* # commit-buffer
UCS-A /chassis/server #
```