

Delta Power Shelf Commands (CLI and REST APIs)

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 - List of REST APIs:

The list of CLI commands supported for Delta Power Shelf

1. `get_sw_version.sh`

Description:

- get the version of BMC software running on this power shelf
- the flash it boots from

Example:

```
root@bmc-oob:~# get_sw_version.sh
```

```
BMC Software Version: Delta powershell Dual BMC v1.4.0
```

```
boot flash: flash0
```

2. `eeeprom.sh`

display eeeprom on mainboard

3. `fan-util`

description: get temperatures and fan speeds for the temperature sensors and 4 fans on main board

example:

```
root@bmc-oob:/usr/local/bin# fan-util
```

```
fan1 speed: 7680 RPM
```

```
fan2 speed: 7980 RPM
```

```
fan3 speed: 7680 RPM
```

```
fan4 speed: 7860 RPM
```

temperature1: 30.20 C

temperature2: 29.00 C

temperature3: 25.90 C

temperature4: 22.90 C

vin_undervolt_fault: no

overtemperature_warning: no

fan_fault: no

fan_warning: no

fan_status: ok

4. **get_temp.sh**

Description: display the temperatures of the temperature sensors on the main board

Note: You can use fan-util to get all fan and temperature sensors' value, this command can be used to get only the temperature sensors on the mainboard.

5. **get_fan_speed.sh**

Description: display the fan speed of the fans on the main board

Note: You can use fan-util to get all fan and temperature sensors' value, this command can be used to get only the speed of the fans on the mainboard.

6. **psu_util <psu#>**

Description: Display PSU information: IIN, VIN, temperatures, status for fan and temperature sensors, and total active power, total current, side A and B power for PSUs

Example:

```
root@bmc-oob:/usr/local/bin# psu_util 2
```

PSU util psu# 2

info for PSU 2:

operation_state: on

volt_input: 209.25

current_input: 0.95

volt_out: 12.34

power_input: 190.00

fan_speed: 4921

temperature1: 18

temperature2: 51

temperature3: 40

7. **psu_util all**

Display information of all 6 PSUs

8. **psu-eprom.sh <psu#>**

Description: display eeprom content of PSU
Usage: psu-eeprom.sh <psu#>

9. eFuse-util <eFuse#>

Description: display eFuse information

10. eFuse-util <eFuse#> --status

Description: display eFuse information
Option: --status will display status

11. eFuse-util <eFuse#> --reset

Description: reset eFuse if it is tripped

12. gpio-util.sh:

gpio-util.sh --get GPIO#

gpio-util.sh --set GPIO# 0|1

get or set the GPIO value for GPIO pin number (for example, GPIO# can be B0, J2, ... etc)

13. led_ctrl.sh:

Description: set LED color to green, orange or red

Usage: led_ctrl.sh red|green|orange

14. reset_peer_bmc.sh:

Reset the peer BMC card

15. installer.py

Usage: (option: -Y: without prompt)

python installer.py <URL of the flash image>

python installer.py <URL of the flash image> -Y

Note: Copy flash image to a http/https server, and also create image_name.md5 text file in the same directory with the flash image, the content of this image_name.md5 file is one line with md5 checksum of the flash image.

16. flashcp

Usage: flashcp -v image_file /dev/mtd5

This will program flash0 with flash image

17. flash-upg 0|1 file_name

program flash0 or flash1 with image(with image file name: file_name)

The list of REST APIs supported for Delta Power Shelf

Authentication

HTTP provides a built-in authentication mechanism based on a username and a password. These hints are provided within the request using the header Authorization and formatted as described below:

- Basic Authentication:
- Authorization: Base64(username:password)

Base64 simply means that the enclosed content is encoded using the Base64. You can use the tool below or other similar tool to generate the code with the username and password in the format: user:password

<https://www.base64encode.net/>

List of REST APIs:

Note: <encoded_password> is the Base64(username:password)

ip: BMC ip

```
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/bulkinfo |jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys |jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/swVersion|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/meminfo|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/bmc|jq
curl -k -H "Authorization:Basic<encoded_password>" https://{ip}:8443/api/sys/inet|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/fan|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/fruid|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/psu1|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/psu2|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/psu3|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/psu4|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/psu5|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/psu6|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/efuses|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/efuses/efuse1|jq
curl -k -H "Authorization:Basic <encoded_password>" https://{ip}:8443/api/sys/efuses/efuse50|jq
curl -k -H "Authorization:Basic <encoded_password>" -d '{"action":"power-on"}' https://{ip}:8443/api/sys/psu1|jq
curl -k -H "Authorization:Basic <encoded_password>" -d '{"action":"power-on"}' https://{ip}:8443/api/sys/psu6|jq
curl -k -H "Authorization:Basic <encoded_password>" -d '{"action":"power-on"}' https://{ip}:8443/api/sys/efuses/efuse1|jq
curl -k -H "Authorization:Basic <encoded_password>" -d '{"action":"reset"}' https://{ip}:8443/api/sys/efuses/efuse1|jq
curl -k -H "Authorization:Basic <encoded_password>" -d '{"action":"power-on"}' https://{ip}:8443/api/sys/efuses/efuse48|jq
curl -k -H "Authorization:Basic <encoded_password>" -d '{"action":"power-on"}' https://{ip}:8443/api/sys/efuses/efuseall|jq
curl -k -H "Authorization:Basic <encoded_password>" -d '{"action":"reboot"}' https://{ip}:8443/api/sys/bmc|jq
```