



Intel® Server Debug and Provisioning Tool (Intel® SDP Tool)

User Guide Rev 1.00

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1 Introduction

The Intel® Server Debug and Provisioning Tool (Intel® SDP Tool) is a single-server tool to debug and provision Intel® Server Boards and Systems remotely through BMC Out-of-band network.

SDPTool is designed to work with the following Intel® Server Boards families:

- Intel® Server Board and System S2600WT/S2600WTR family
- Intel® Server Board S2600KP/S2600KPR family
- Intel® Server Board S2600TP/S2600TPR family
- Intel® Server Board S2600CW/S2600CWR family
- Intel® Server Board S2600WFT family
- Intel® Server Board S2600STB family
- Intel® Server Board S2600BP family

1.1 Document Scope

The purpose of this document is to help system/server administrators to install and use the Intel® Server Debug and Provisioning Tool (Intel® SDP Tool). It provides you information on the features and benefits of Intel® SDP Tool and how to use them. It describes the system and software requirements, supported operating systems and platforms. This document also explains the installation and uninstallation process.

1.2 System Requirements

Table 1. Operating Systems and Intel® Server Boards Supported

Intel® Server Boards	Operating Systems Version
Intel® Server Board S2600WT/S2600WTR family Intel® Server Board S2600KP/S2600KPR family Intel® Server Board S2600TP/S2600TPR family Intel® Server Board S2600CW/S2600CWR family Intel® Server Board S2600WFT family Intel® Server Board S2600STB family Intel® Server Board S2600BP family	1) Red Hat Enterprise Linux* 6.8 EM64T and 7.3 2) SuSE Linux Enterprise Server* 11.4 EM64T and 12.2 3) CentOS 7.3

Note: Refer to the release notes for known issues on installation and usage.

1.3 Terminology

Table 2. Terminology

Term	Definition
BMC	Baseboard Management Controller
CLI	Command-Line Interface
FRU	Field Replaceable Unit
IPMI	Intelligent Platform Management Interface. Operates independently of the operating system (OS) and allows you to manage a system remotely, even in the absence of the OS.
LAN	Local Area Network
Host Server	Intel® Server System where SDPTool is installed. It will be acting as host server from which a remote server can be reached by the SDPTool through Out of Band network.
Remote Server	Intel® Server System in a cluster or data center that can be reached by the Host Server for debugging or perform an upgrade.
SDR	Sensor Data Record
SEL	System Event Log

1.4 Related Documents

Following are the related documents for reference:

- IPMI-Intelligent Platform Management Interface Specification, 2nd Generation, v2.0 (available [here](#))

1.5 Intel® Support

Visit http://www.intel.com/p/en_US/support/ to get the latest and most complete technical support information.

For an updated support contact list, see <http://www.intel.com/support/9089.htm/>.

2 Get Started

2.1 Prerequisites for Installation

This section explains the prerequisite tools that have to be installed at the Host Server and Remote Server prior to Intel® SDP Tool installation.

Table 3. Required tools for Intel® SDP Tool

	Host Server	Remote Server	External Links
Python 2.7.5, Python 2.6.9	√		https://www.python.org/downloads/
Ipmitool 1.8.13	√		https://sourceforge.net/projects/ipmitool/files/ipmitool/1.8.13/
curl 7.29.0	√		https://curl.haxx.se/download.html
Openssl 1.0.1x above	√		https://www.openssl.org/source/old/1.0.1/
Wget 1.16 above	√		https://ftp.gnu.org/gnu/wget/
SDPTool_x.xx.tar.gz	√		From Intel web post
Java OpenJDK/Oracle version 1.7 and above 64bit	√		http://www.oracle.com/technetwork/java/javase/downloads/index.html

2.2 Installation Steps

To install Intel® SDP Tool,

- Step 1.** On Host Server, unzip and copy the Intel® SDP Tool installer <zip file> **to target machine. Create an installer directory folder and untar the tar.gz file in it.**
- Step 2.** Go to installer directory folder > Run `./sdptool_install.sh` to install for first fresh install or `./sdptool_update.sh` for newer version update (SDPTool is installed at `/usr/local/SDPTool`)
- Step 3.** Google Chrome:
Go to chrome browser > settings > search for "proxy" > Edit "Open proxy settings" > select "settings" > check "Automatically detect settings" > OK (*This step is only required for launching KVM)

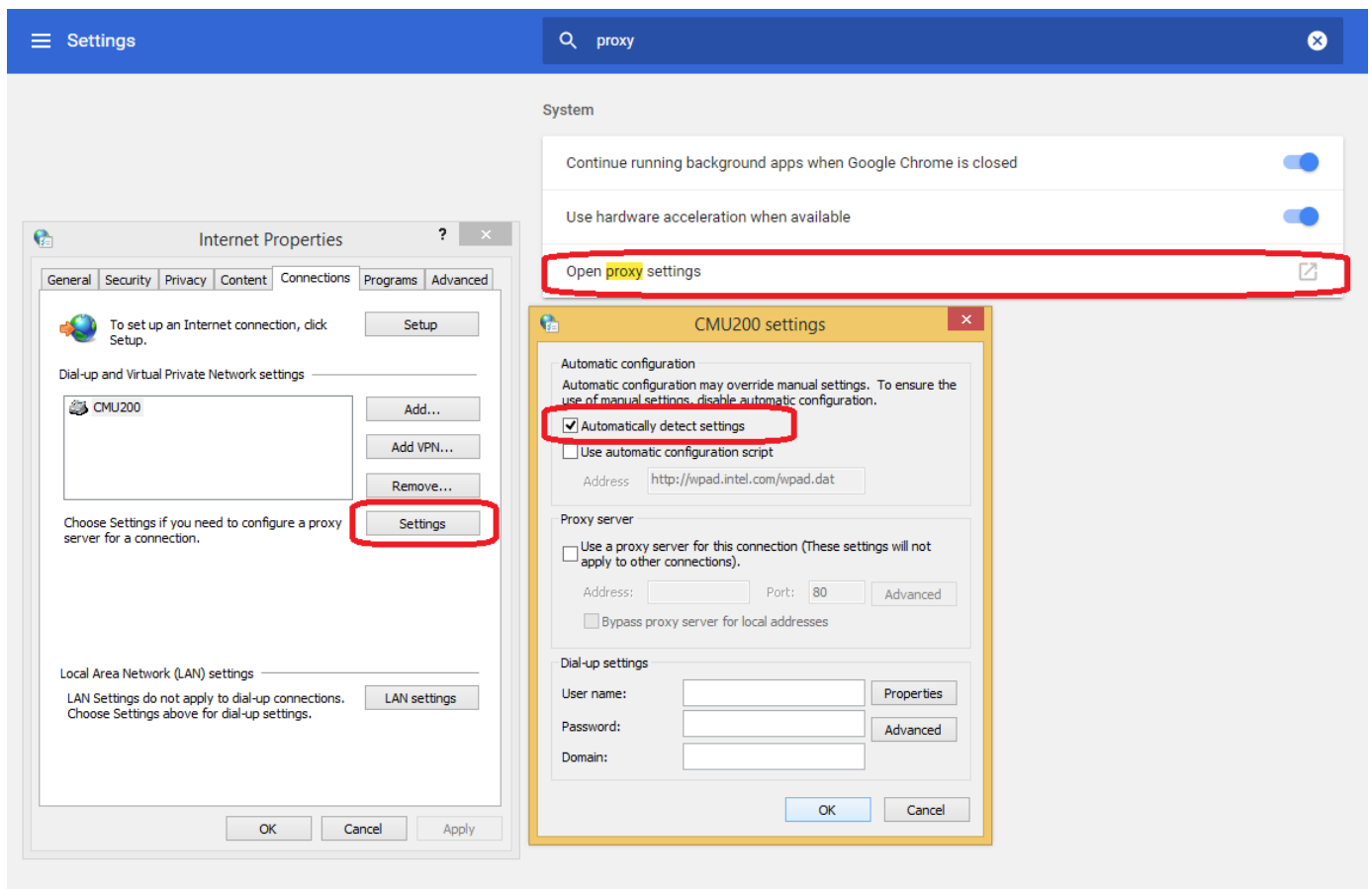


Figure 1

Firefox:

Go to firefox browser > setting > advance > network settings > select auto-detect proxy settings for this network (*This step is only required for launching KVM)

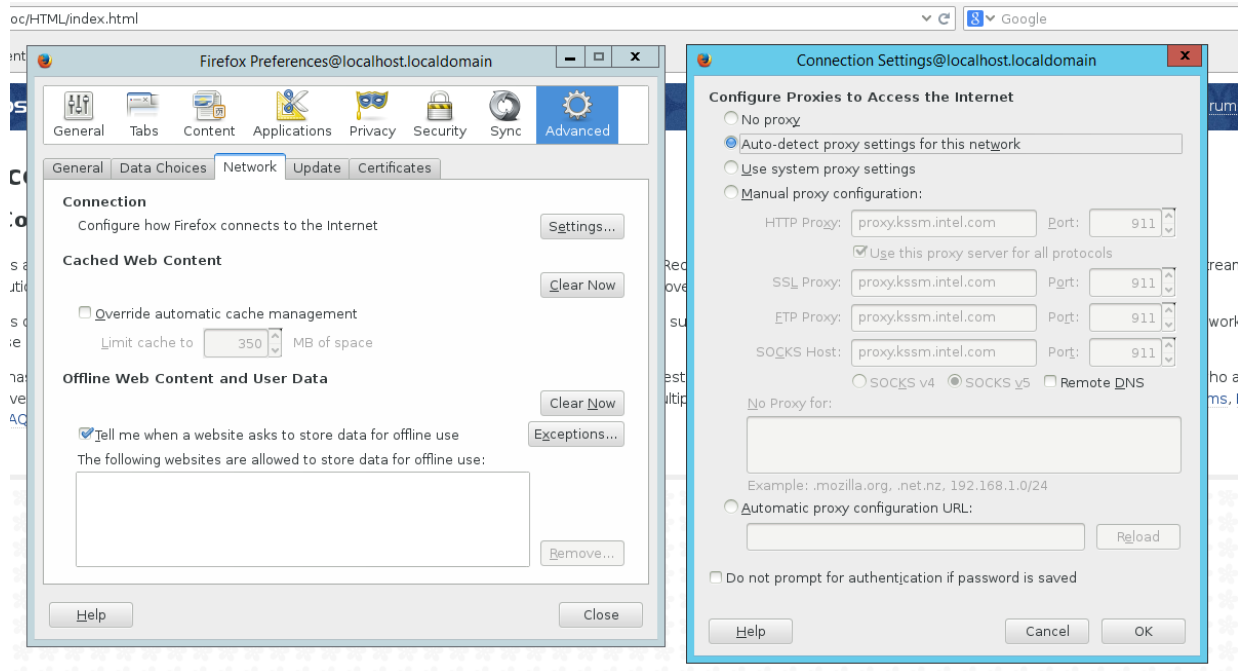


Figure 2

IE:

Go to Internet Explorer browser > settings > Internet options > Connections > select "settings" > check "Automatically detect settings" > OK (*This step is only required for launching KVM)

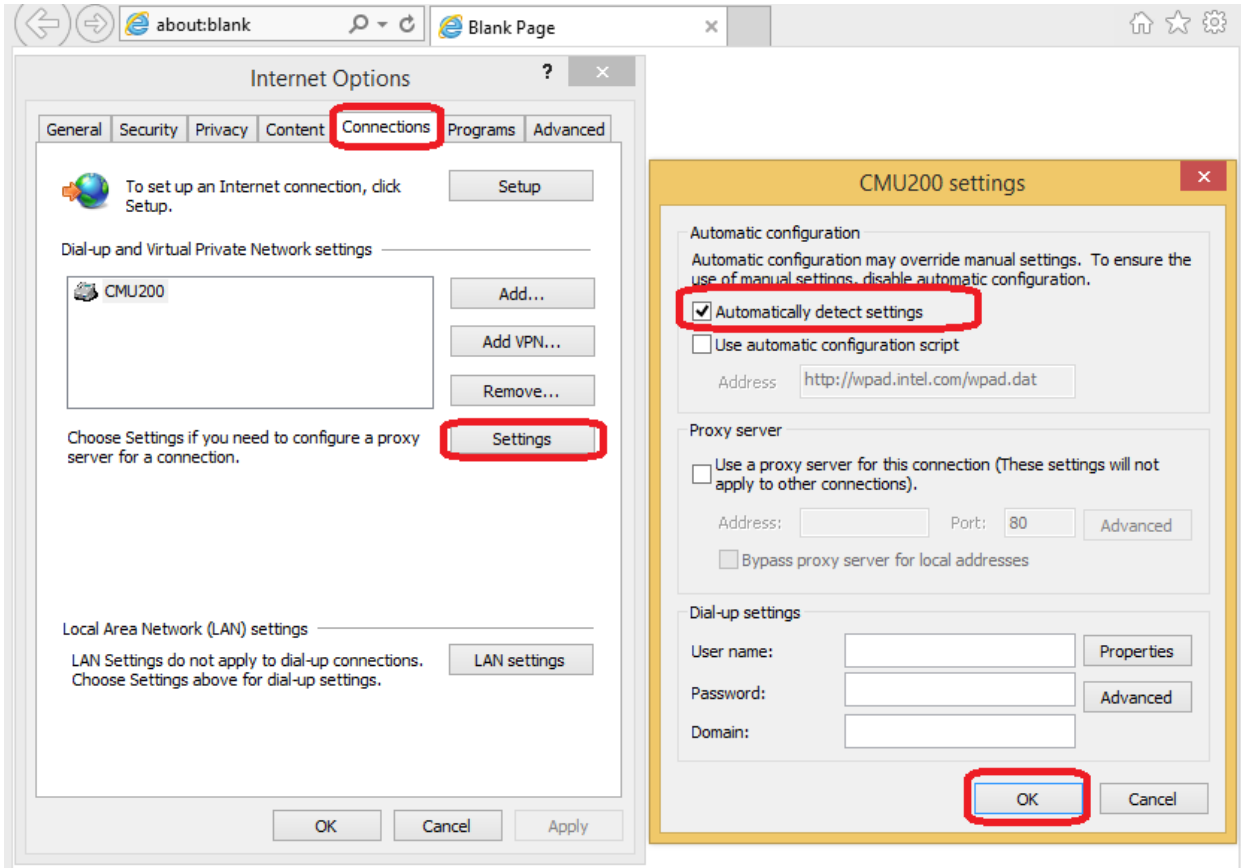


Figure 3

3 Features

SDPTool script is the main engine of Intel® SDP Tool OOB features. This section explains the features and the way to execute the script to accomplish the feature objectives.

3.1 General Rules

SDPTool

- To display usage menu
Go to the installation directory /usr/local/SDPTool and execute ./SDPTool
Example: “./SDPTool”
- Each valid operation run will create logs in ./Logfiles/<ip>/<operation>
Example: after running “./SDPTool 192.168.1.10 bmcuser bmcpw powerstatistics”
There will be log(s) in ./Logfiles/192_168_1_10/powerstatistics.log
- Any failure will generate a *.err log file. Meaning of error code will be as attached in Section 5.

For features that require reboot, it is mandated that they run on only one session at a given time for a given IP. Running these features in parallel on a given IP will encounter unexpected issues since the operations on these sessions will conflict each other on the specific remote server. For example:

```
./SDPTool 192.168.1.10 bmcuser bmcpw getini
```

```
./SDPTool 192.168.1.10 bmcuser bmcpw custom_deploy customdeployfolder/
```

should not run at the same time since both will reboot the system and interrupt with each other in rebooting the remote system

3.2 Update Firmware

SDPTool <ipv4> <username> <password> update <SUP folder> [-no-user-interaction] [-softreset]

Updates the BIOS/ME/BMC/SDR system firmware.

The SUP package must be used instead of FSUP since the feature utilizes efi utility in the SUP package. (*Requires reboot and EFI mailbox will be cleared)

- -no-user-interaction: flag to reboot the system without prompt;
- -softreset: flag to soft reboot the system in case the system is booted into an operating system.

Example: <dir>/SDPTool 192.168.1.10 admin admin123 update SUP/S2600WT

Firmware package (**SUP**) needed

3.3 Custom Deploy

SDPTool <ipv4> <username> <password> custom_deploy <folder name which containing deploy.nsh> <"argument(s) for deploy.nsh"> [-no-user-interaction] [-softreset]

Deploys a user customized script which needs to be written in the file named deploy.nsh.
(*Requires reboot and EFI mailbox will be cleared)

- deploy_result.log – the output from deploy.nsh will be redirected to this filename; the file will be saved to Logfiles/ip folder and content will be displayed to terminal after custom_deploy script with extra argument(s) being executed
- deploy_details.log – the details from deploy.nsh can be redirected to this filename; the file will be saved to Logfiles/ip folder and content will NOT be displayed to terminal after custom_deploy script with extra argument(s) being executed
- -no-user-interaction: flag to reboot the system without prompt;
- -softreset: flag to soft reboot the system in case the system is booted into an operating system

Example: <dir>/SDPTool 192.168.1.10 admin admin123 custom_deploy folder_with_nsh_file

Example: <dir>/SDPTool 192.168.1.10 admin admin123 custom_deploy folder_with_nsh_file "argument1 argument2 argument3"

3.4 Set Options

SDPTool <ipv4> <username> <password> setoptions <"syscfg arguments"> [-no-user-interaction] [-softreset]

Configures BIOS/BMC settings by executing SYSCFG tool with command line arguments
(*Requires reboot and EFI mailbox will be cleared)

- -no-user-interaction: flag to reboot the system without prompt;
- -softreset: flag to soft reboot the system in case system is booted into an operating system

Example: <dir>/SDPTool 192.168.1.10 admin admin123 setoptions /i

3.5 Deploy Options

SDPTool <ipv4> <username> <password> deployoptions <restore filename> [-no-user-interaction] [-softreset]

Configures the BIOS/BMC settings by importing all the settings as configured in the .INI file.
(*Require reboot and EFI mailbox will be cleared)

- -no_user-interaction: flag to reboot the system without prompt;
- -softreset: flag to soft reboot the system in case the system is in OS

Example: <dir>/SDPTool 192.168.1.10 admin admin123 deployoptions sysconfig.ini

3.6 Get Bios Options

SDPTool <ipv4> <username> <password> getbiosoptions <"option to retrieve"> [-no-user-interaction] [-softreset]

Gets the value of a particular bios setting which is supported by the SYSCFG utility.
(*Requires reboot and EFI mailbox will be cleared)

- -no-user-interaction: flag to reboot the system without prompt;
- -softreset: flag to soft reboot the system in case the system is in OS

Example: <dir>/SDPTool 192.168.1.10 admin admin123 getbiosoptions "Quiet Boot"

3.7 Get INI

SDPTool <ipv4> <username> <password> getini [-no-user-interaction] [-softreset]

Gets the BIOS/BMC settings by using syscfg /save syscfg.INI file method (*Require reboot and EFI mailbox will be cleared)

- -no-user-interaction: flag to reboot the system without prompt;
- -softreset: flag to soft reboot the system in case the system is in OS

Example: <dir>/SDPTool 192.168.1.10 admin admin123 getini

3.8 KVM

SDPTool <ipv4> <username> <password> kvm launch

- To launch kvm windows for remote control

Example: <dir>/SDPTool 192.168.1.10 admin admin123 kvm launch

3.9 Vmedia

SDPTool <ipv4> <username> <password> vmedia <IMAGE/ISO>

Launches the Virtual Media by redirecting image/iso file specified on the remote server.

Example: <dir>/SDPTool 192.168.1.10 admin admin123 vmedia image.img

3.10 IPMI

SDPTool <ipv4> <username> <password> ipmi <ipmitool arguments>

Executes all the commands supported by the ipmitool. Use the exact same syntax as ipmitool.

Example: <dir>/SDPTool 192.168.1.10 admin admin123 ipmi lan print

3.11 Power

SDPTool <ipv4> <username> <password> power <status | on | off | cycle | reset>

Gets/sets the power status of a server

Example: <dir>/SDPTool 192.168.1.10 admin admin123 power status

3.12 Sensor

SDPTool <ipv4> <username> <password> sensor

Displays the sensor information of a server

Example: <dir>/SDPTool 192.168.1.10 admin admin123 sensor

3.13 SEL

SDPTool <ipv4> <username> <password> sel [-f <filename to save sel-log>] [-c] [-w] [-i] [-no-user-interaction]

Retrieves the SEL log from the remote server

(* -i = information, -c = critical, -w = warning, -f = specific a filename to save the SEL log)

➤ -no-user-interaction: flag to overwrite the file save without prompt

Example: <dir>/SDPTool 192.168.1.10 admin admin123 sel -w -I -f save_log.txt

3.14 Set LAN

SDPTool <ipv4/ipv6> <username> <password> setlan <channel> <ipv4> <mask> <gateway> <primary dns> <secondary dns>

Configures the BMC LAN IP ipv4 address of a particular LAN channel

Example: <dir>/SDPTool 192.168.1.10 admin admin123 setlan 2 192.168.1.12 255.255.255.0 192.168.1.1 8.8.8.8 0.0.0.0

3.15 Disable LAN

SDPTool <ipv4/ipv6> <username> <password> disablelan <channel>

Disables a BMC LAN channel of a server of a particular LAN channel

Example: <dir>/SDPTool 192.168.1.10 admin admin123 disablelan 2

3.16 Set LAN IPV6

Configures the BMC LAN IP ipv6 address of a particular LAN channel

For S2600WT/S2600WTR/S2600KP/S2600KPR/S2600TP/S2600TPR/S2600CW/S2600CWR family

SDPTool <ipv4/ipv6> <username> <password> setlanipv6 <channel> <ipv6> <prefix length[32|64|128]> <ipv6 gateway>

Example: <dir>/SDPTool 192.168.1.10 admin admin123 setlanipv6 2 2001::12 64 2001::1

For S2600WF/S2600WFR/S2600SW/S2600SWR/S2600BP/S2600BPR family

SDPTool <ipv4/ipv6> <username> <password> setlanipv6 <channel> <ipv6> <prefix length[32|64|128]> <ipv4/6 gateway> <ipv4/6 primary dns> <ipv4/6 secondary dns>

Example: <dir>/SDPTool 192.168.1.10 admin admin123 setlanipv6 2 2001::12 64 192.168.1.1 0.0.0.0 0.0.0.0

3.17 Disable LAN IPV6

SDPTool <ipv4/ipv6> <username> <password> disablelanipv6 <channel>

Disables the BMC ipv6 LAN of a particular LAN channel

Example: <dir>/SDPTool 192.168.1.10 admin admin123 disablelanipv6 2

3.18 LAN Fail Over

SDPTool <ipv4> <username> <password> failover < status | enable | disable>

To get/set/disable LAN fail over

Example: <dir>/SDPTool 192.168.1.10 admin admin123 failover status

3.19 Node Position

SDPTool <ipv4> <username> <password> nodeposition

Displays the node position in a chassis.

Supports only half-width SKU and on multi-node systems only

Example: <dir>/SDPTool 192.168.1.10 admin admin123 nodeposition

3.20 System Info

SDPTool <ipv4> <username> <password> systeminfo

Displays system info

Example: <dir>/SDPTool 192.168.1.10 admin admin123 systeminfo

3.21 FRU

SDPTool <ipv4> <username> <password> fru {print | set <param> <value>}

Displays FRU information

Example: <dir>/SDPTool 192.168.1.10 admin admin123 fru print

Also can set FRU

Example: <dir>/SDPTool 192.168.1.10 admin admin123 fru set <param> <value>

3.22 Memory Info

SDPTool <ipv4> <username> <password> memoryinfo

Shows memory info

Example: <dir>/SDPTool 192.168.1.10 admin admin123 memoryinfo

3.23 CPU Info

SDPTool <ipv4> <username> <password> cpuinfo

Shows CPU info

Example: <dir>/SDPTool 192.168.1.10 admin admin123 cpuinfo

3.24 Memory Temperature

SDPTool <ipv4> <username> <password> memorytemp

Displays temperature of system memory

Example: <dir>/SDPTool 192.168.1.10 admin admin123 memorytemp

3.25 Power Statistics

SDPTool <ipv4> <username> <password> powerstatistics

Displays system power statistics

Example: <dir>/SDPTool 192.168.1.10 admin admin123 powerstatistics

3.26 Set LAN DHCP

SDPTool <ipv4/ipv6> <username> <password> setlandhcp <channel>

Sets BMC LAN ipv4 to dhcp of a particular LAN channel

Example: <dir>/SDPTool 192.168.1.10 admin admin123 setlandhcp 2

3.27 Set LAN DHCP IPV6

SDPTool <ipv4/ipv6> <username> <password> setlandhcpipv6 <channel>

Sets BMC LAN ipv6 to dhcp of a particular LAN channel

Example: <dir>/SDPTool 192.168.1.10 admin admin123 setlandhcpipv6 2

3.28 Set LAN Stateless ICMPV6

SDPTool <ipv4/ipv6> <username> <password> setlanicmpv6 <channel>

Sets BMC LAN ipv6 to stateless ICMP (*This operation is supported on [*S2600WT/S2600WTR/S2600KP/S2600KPR/S2600TP/S2600TPR/S2600CW/S2600CWR family*](#) only)

Example: <dir>/SDPTool 192.168.1.10 admin admin123 setlanicmpv6 2

3.29 Debug Log

SDPTool <ipv4> <username> <password> debuglog <filename> [-force]

Generates the BMC debug log in zip file format

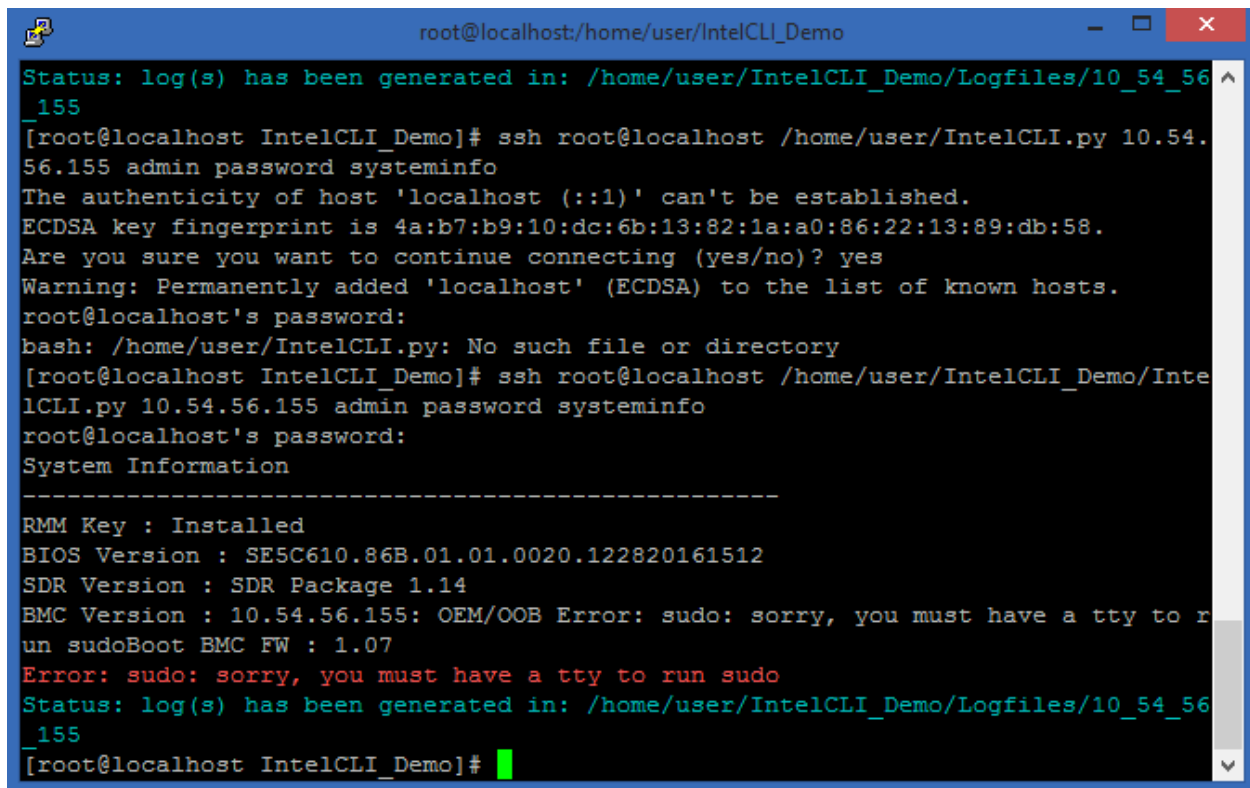
Example: <dir>/SDPTool 192.168.1.10 admin admin123 debuglog debug_log.zip

[-force] will force the BMC transfer mode to exit when the command is executed.

4 Troubleshooting Tips

This section lists the possible errors you may encounter during the use of this product and workarounds to address the errors.

4.1 SSH command sudo error



```
root@localhost:/home/user/IntelCLI_Demo
Status: log(s) has been generated in: /home/user/IntelCLI_Demo/Logfiles/10_54_56_155
[root@localhost IntelCLI_Demo]# ssh root@localhost /home/user/IntelCLI.py 10.54.56.155 admin password systeminfo
The authenticity of host 'localhost (:::1)' can't be established.
ECDSA key fingerprint is 4a:b7:b9:10:dc:6b:13:82:1a:a0:86:22:13:89:db:58.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'localhost' (ECDSA) to the list of known hosts.
root@localhost's password:
bash: /home/user/IntelCLI.py: No such file or directory
[root@localhost IntelCLI_Demo]# ssh root@localhost /home/user/IntelCLI_Demo/IntelCLI.py 10.54.56.155 admin password systeminfo
root@localhost's password:
System Information
-----
RMM Key : Installed
BIOS Version : SE5C610.86B.01.01.0020.122820161512
SDR Version : SDR Package 1.14
BMC Version : 10.54.56.155: OEM/OOB Error: sudo: sorry, you must have a tty to run sudo
un sudoBoot BMC FW : 1.07
Error: sudo: sorry, you must have a tty to run sudo
Status: log(s) has been generated in: /home/user/IntelCLI_Demo/Logfiles/10_54_56_155
[root@localhost IntelCLI_Demo]#
```

Figure 4

- 1) To direct using ssh command, you need to add arg -t
Example: ssh -t root@localhost <dir>/SDPTool 192.168.1.10 admin admin123 powerstatistics

4.2 Tar time stamp messages

```
tar: cmdtoolX64.efi: time stamp 2017-04-12 22:37:02 is 115999883.204964241 s in the future
tar: efifmt.efi: time stamp 2017-04-12 22:37:22 is 115999903.20435322 s in the future
tar: ipmi.efi: time stamp 2017-04-13 17:23:02 is 116067443.203744765 s in the future
tar: mkedk2ramdiskX64.efi: time stamp 2017-04-12 22:37:42 is 115999923.20330491 s in the future
tar: mkramdiskX64.efi: time stamp 2015-02-05 15:55:54 is 47115015.202896016 s in the future
tar: RamDiskDxe.efi: time stamp 2017-04-14 02:56:44 is 116101865.202739364 s in the future
tar: ramdisk.efi: time stamp 2015-02-05 15:55:54 is 47115015.202524166 s in the future
tar: rundeploy.nsh: time stamp 2017-04-18 17:27:00 is 116499681.202410696 s in the future
tar: Startup.nsh: time stamp 2017-04-18 17:22:02 is 116499383.202309794 s in the future
tar: syscfg.efi: time stamp 2017-02-27 21:05:30 is 112192791.201309007 s in the future
tar: syscfg_temp.efi: time stamp 2017-02-27 21:05:32 is 112192793.18213325 s in the future
tar: vmdrive_map: time stamp 2017-03-16 21:53:50 is 113664491.18204245 s in the future
```

Figure 5

- 1) These messages are of no harm. To avoid seeing these messages make sure the date-time of managed system is correct.

4.3 Kvm launch glibc version error (SLES 11.4)



Figure 6

- 1) Update the glibc with the version mentioned(GLIBC_2.15). ldd -version command can be used to check the glibc version installed on system.
- 2) To update glibc, use zypper command:
zypper install glibc

4.4 The OOB features that require reboot are unable to start on S2600WT/ S2600KP/ S2600TP/S2600CW family (SLES11.4)

```
linux-37iu:/usr/local/SDPTool # ./SDPTool 192.168.11.164 test1 test1 getini
Status: Hard-reset system by default.

This operation requires the system to reset. Proceed (y/n)?y
Status: iso/mountc_192.168.11.164 exists
Status: Starting VMCLI...
Error: Redirection is not started. Exiting.
Status: log(s) has been generated in: /usr/local/SDPTool/Logfiles/192_168_11_164
```

Figure 7

- 1) Default openssl and wget version in SLES11.4 is unable to support reboot features on S2600WT/ S2600KP/ S2600TP/ S2600CW family platform. Please follow the steps to remove and upgrade openssl and wget on SLES11.4 management host.
- 2) Download openssl source code 1.0.1t - <https://www.openssl.org/source/old/1.0.1/>
- 3) Remove existing openssl:
`rpm -ev --nodeps openssl`
- 4) Configure and build:
`tar -xvf openssl-1.0.1t.tar.gz`
`cd openssl-1.0.1t`
`./config shared --prefix=/usr --openssldir=/etc/ssl --libdir=/lib`
`make && make install`
- 5) Download wget source code - wget <http://ftp.gnu.org/gnu/wget/wget-1.15.tar.gz>
- 6) Remove existing wget:
`rpm -ev --nodeps wget`
- 7) Configure and build:
`tar -xvf wget-1.15.tar.gz`
`cd wget-1.15`
`./configure --prefix=/usr --sysconfdir=/etc --with-ssl=openssl`
`make && make install`

4.5 Soft-reset issue (SLES 11.4)

```
linux-b93j:/usr/local/IntelCLI # ./IntelCLI 192.168.3.54 test1 test1 getini -softreset
This operation requires the system to reset. Proceed (y/n)?y
Status: Switching off machine: [192.168.3.54]
Error: Error in soft-reset system. Exiting.
Status: log(s) has been generated in: /usr/local/IntelCLI/Logfiles/192_168_3_54
```

Figure 8

- 1) SLES 11.4 will have soft-reset issue which is - if the remote server is booted into operating system, the remote OS will prompt for root password before shutting down system

Workaround: Check the client system if the above error appears to make sure the remote system is not blocked by OS shutdown prompt and manually type in administrator password in the remote system's prompt to allow soft-reset.

4.6 Java version required (Java 1.7)

```
linux-37iu:/usr/local/SDPTool # ./SDPTool 192.168.11.102 test1 test1 kvm launch
Error: Error in getting java on local machine. Please make sure java is installed. Exiting.
Error: Java binary/supported version not found
SDPTool version: 1.00.0006
SDPTool <ipv4> <username> <password> kvm launch
```

Figure 9

- 1) OpenJDK/Oracle Java version 1.7 onwards will be required in order to run kvm, update, customdeploy, setoptions, deployoptions, getbiosoptions, and getini features to check java version & provider, run:

java -version

Fix:

To download the latest supported OpenJDK/Oracle Java from the link:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

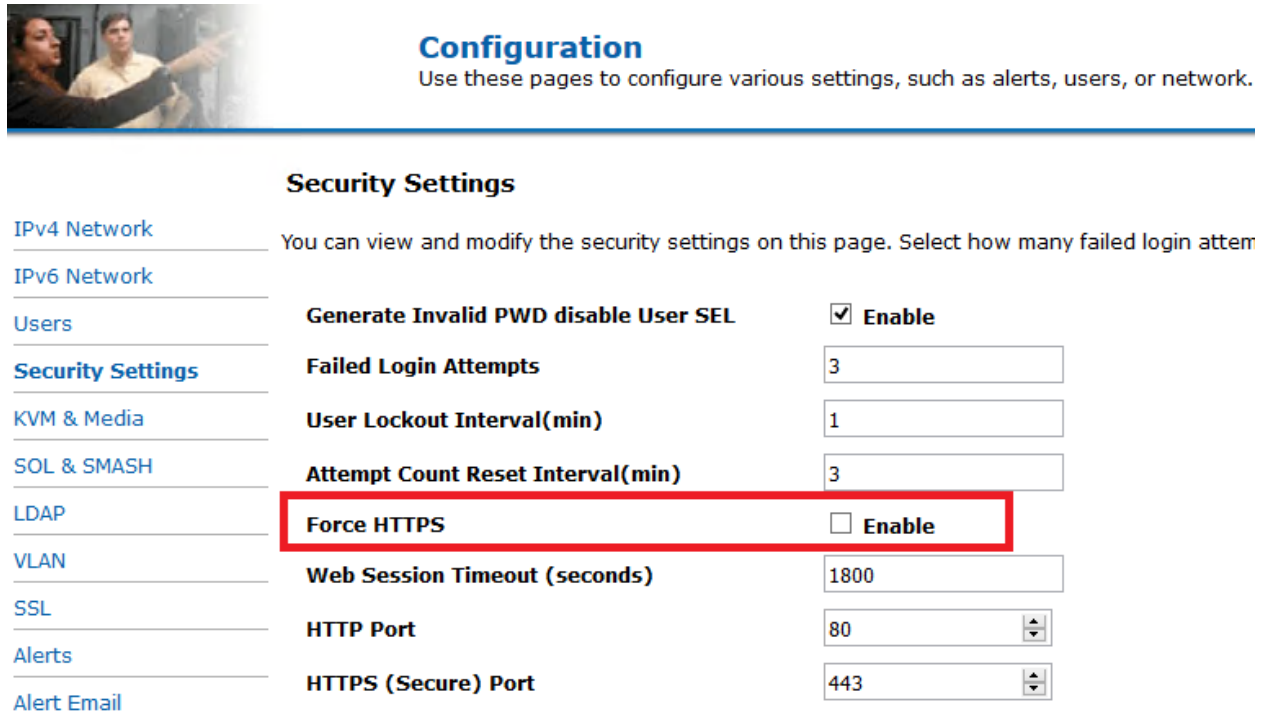
4.7 IPv6 address features not supported

```
[root@localhost SDPTool]# ./SDPTool fe80::89 test1 test1 disablelan 1
Traceback (most recent call last):
  File "./SDPTool", line 8, in <module>
    wrapper.main()
  File "SDPTool.py", line 4975, in main
  File "SDPTool.py", line 440, in check_user_input_and_get_sysinfo
  File "SDPTool.py", line 1451, in get_product_id
  File "/usr/lib64/python2.7/base64.py", line 76, in b64decode
    raise TypeError(msg)
TypeError: Incorrect padding
[root@localhost SDPTool]#
```

Figure 10

- 1) IPv6 client address to setlan/disablelan/setlandhcp IPv4/IPv6 is not supported for BMC1.02 onwards since the url changes and will be showing error when running with the local unicast fe80::xxxx IPv6 address format.

4.8 HTTPS not supported on S2600WT/ S2600KP/ S2600TP/S2600CW family



Configuration
Use these pages to configure various settings, such as alerts, users, or network.

Security Settings

You can view and modify the security settings on this page. Select how many failed login attempts you want to allow before locking out the user.

IPv4 Network	Generate Invalid PWD disable User SEL	<input checked="" type="checkbox"/> Enable
IPv6 Network	Failed Login Attempts	<input type="text" value="3"/>
Users	User Lockout Interval(min)	<input type="text" value="1"/>
Security Settings	Attempt Count Reset Interval(min)	<input type="text" value="3"/>
KVM & Media	Force HTTPS	<input type="checkbox"/> Enable
SOL & SMASH	Web Session Timeout (seconds)	<input type="text" value="1800"/>
LDAP	HTTP Port	<input type="text" value="80"/>
VLAN	HTTPS (Secure) Port	<input type="text" value="443"/>
SSL		
Alerts		
Alert Email		

Figure 11

- 1) Force HTTPS is not supported in current SDPTool version on S2600WT/ S2600KP/ S2600TP/S2600CW family
- 2) Enable the "Force HTTPS" will break the features on S2600WT/ S2600KP/ S2600TP/S2600CW family

5 Error Codes

Error Code	Interpretation
0	no error
1	user cancel/interrupt
2	invalid argument(s)
3	invalid ip
4	Invalid channel entered.
5	no connectivity
6	platform generation not supported
7	missing/unsupported operation
8	invalid subnet mask
9	IP is not same subnet with gateway
10	IP same as gateway
11	invalid filename
12	invalid file extension
13	invalid path
14	missing file(s)
15	Unable to create file path
16	ipmi command error
17	ipmi command timeout
18	duplicate instance of VMCLI
19	Redirection is not started.
20	mounting error
21	data conversion error
22	RMM is not present.
23	KVM Session is full
24	unknown / unspecified error
25	setoption cmd not supported
26	missing/unsupported hardware
27	operation unsuccessful
28	SMBIOS region data not valid
29	curl command error
30	subprocess error
31	cleanup_image error
32	error on terminate defunc
33	error on terminate_suspended_process
34	kill command error
35	error start vmcli

36	error running testapp
37	missing required software/tools
38	SUP package file size too large
39	Error in reading/setting transfer mode.
40	Error: single file size is more than 11MB (update,custom_deploy)
41	Error: Unable to retrieve biggest file_size
42	Error: Unable to retrieve product ID
43	Error: Unable to soft-reset system