# Advantech AE Technical Share Document

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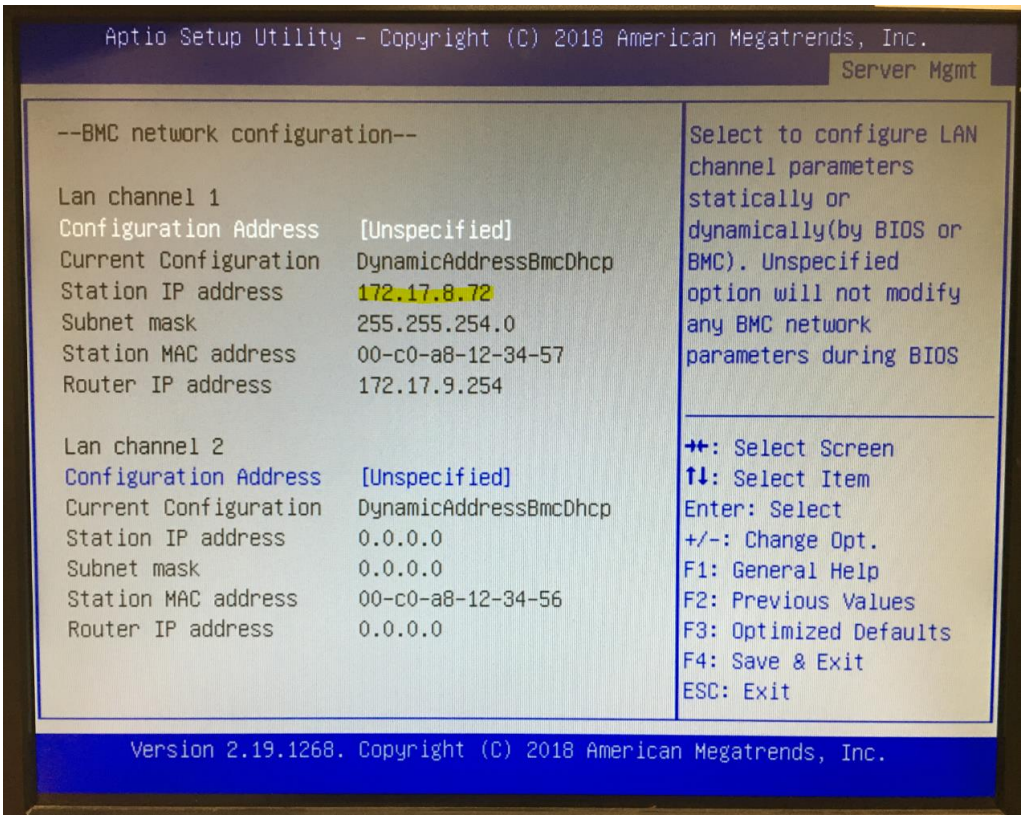
| **Date** | 2018 / 06 / 07 | **Release Note** | □ Internal ■ External |
| **Category** | □FAQ ■SOP | **Related OS** | Win7, Win10 |
| **Abstract** | How to Access IPMI Console via Windows CMD (Command Line) | | |
| **Keyword** | BMC, IPMI, CMD, Command Line | | |
| **Related Product** | ASMB-815, ASMB-825, ASMB-925, ASMB-975 | | |

This SOP is for user to Access IPMI Console via Windows CMD if customer is required. We still recommend using WebUI to manage IPMI console since it contains user friendly GUI.

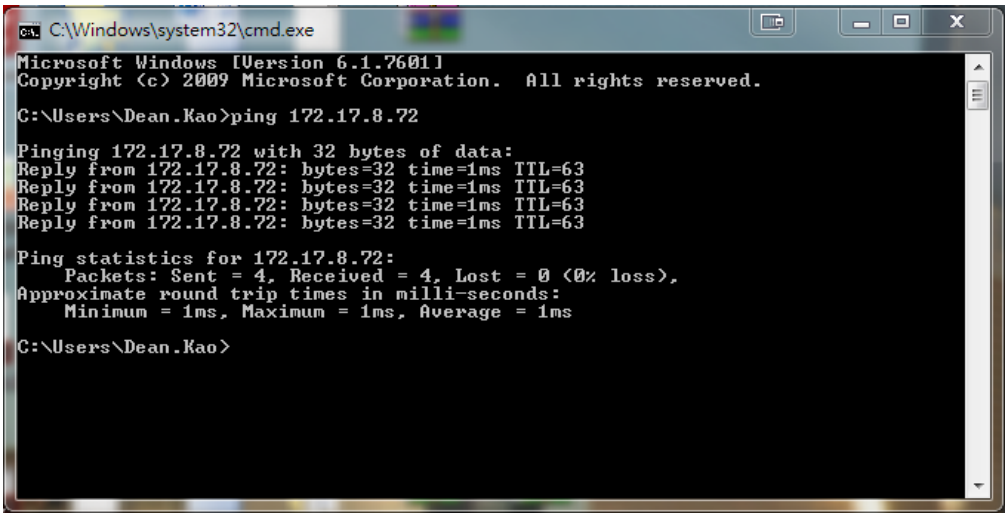
■ **Step 1: Check IPMI F/W version:**

Establish network connection between IPMI server and client console. Use PING command from server console to communicate with client console and ensure the connection setup is ready.

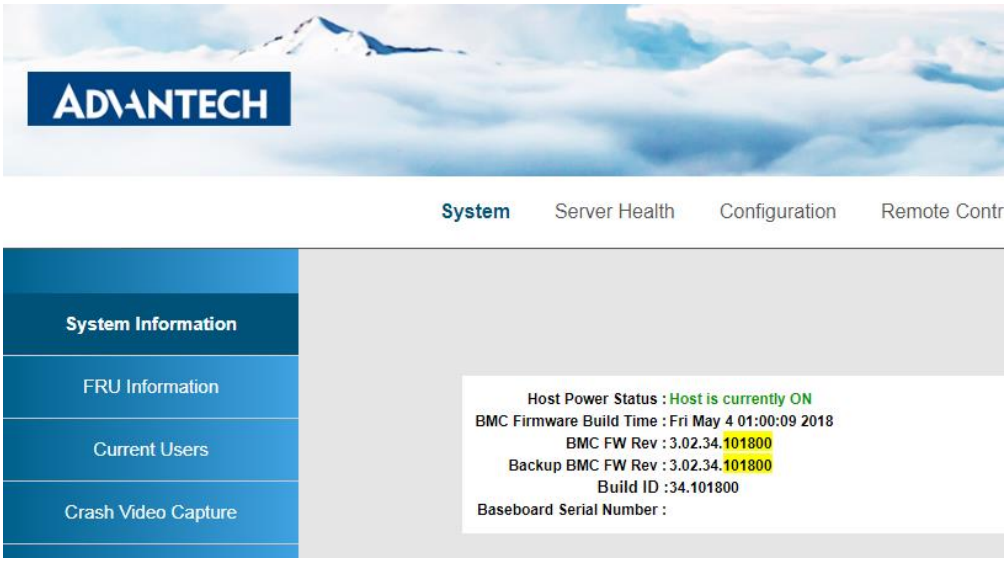
IPMI Client Console IP Setup:



PING IPMI Client Console from Server Console.



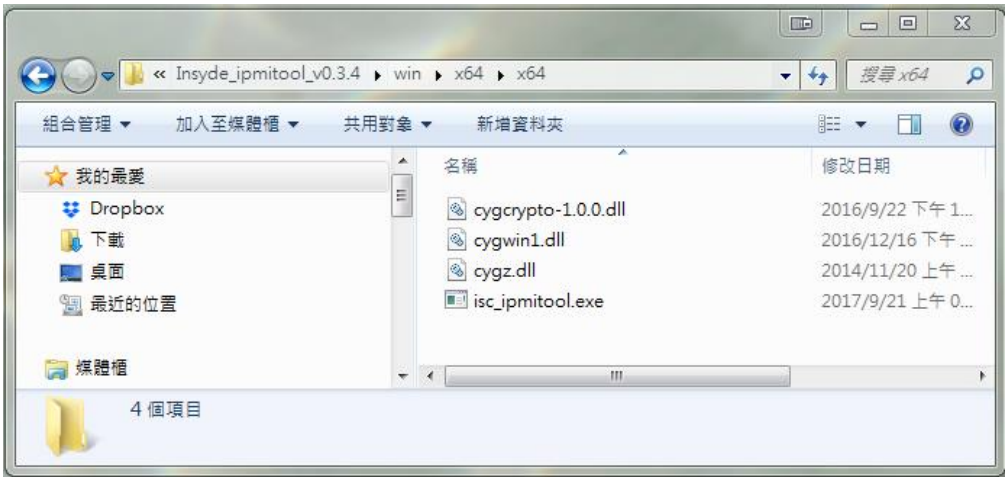

Log into IPMI client console by web browser and check if IPMI F/W version is 3.02.34.101800 or higher. The default login username and password is either root/root or admin/admin, depends your IPMI F/W version.




Please follow SOP PS0053 to upgrade IPMI F/W if it doesn't meet the requirement.

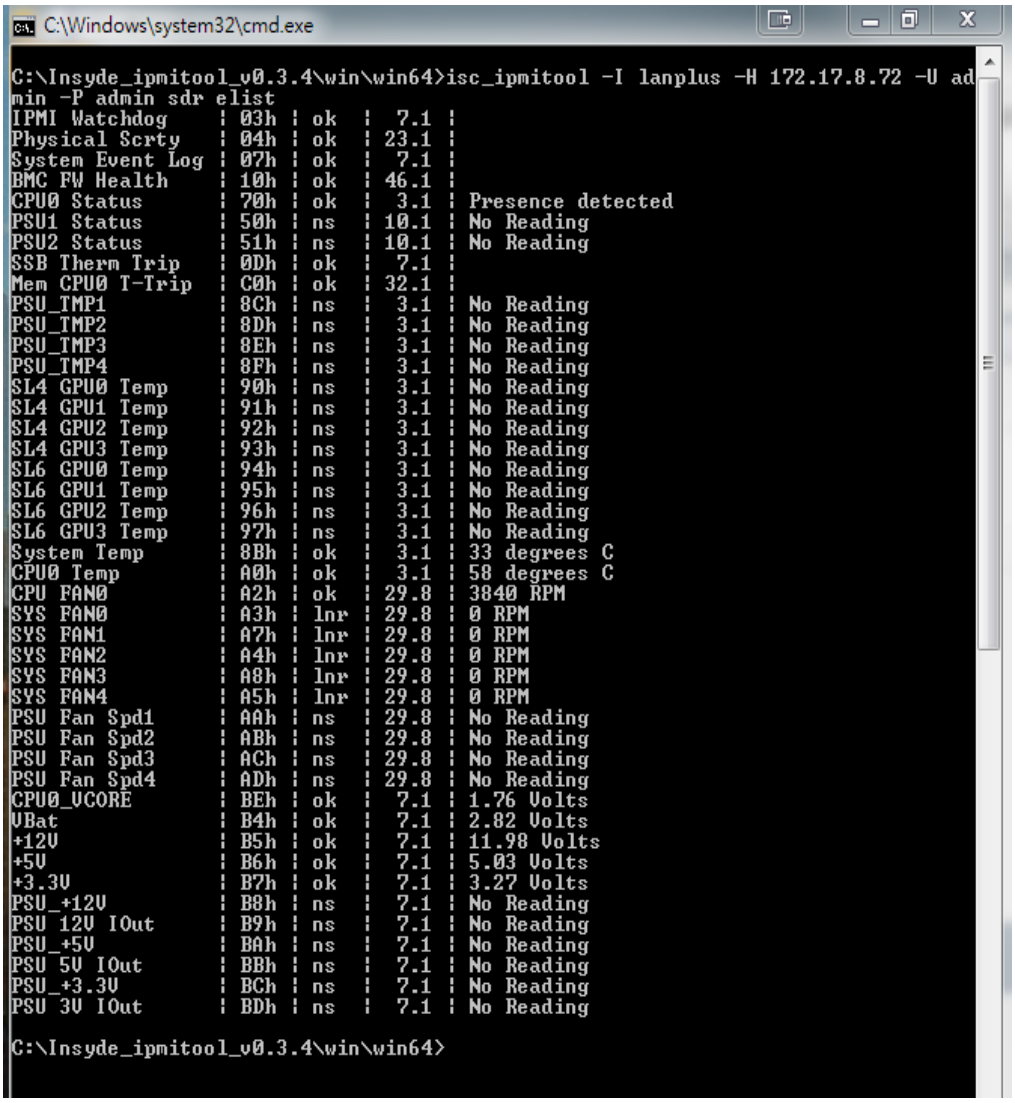
- **Step 2: Download Windows IPMI Command Line Tool:**

  Unzip Insyde_ipmitool_v0.3.4.zip to server console and find correct IPMI tool which is relating to OS version of server console. For example, use isc_ipmitool.exe under win/x64 folder for Windows 7/10 64bit.



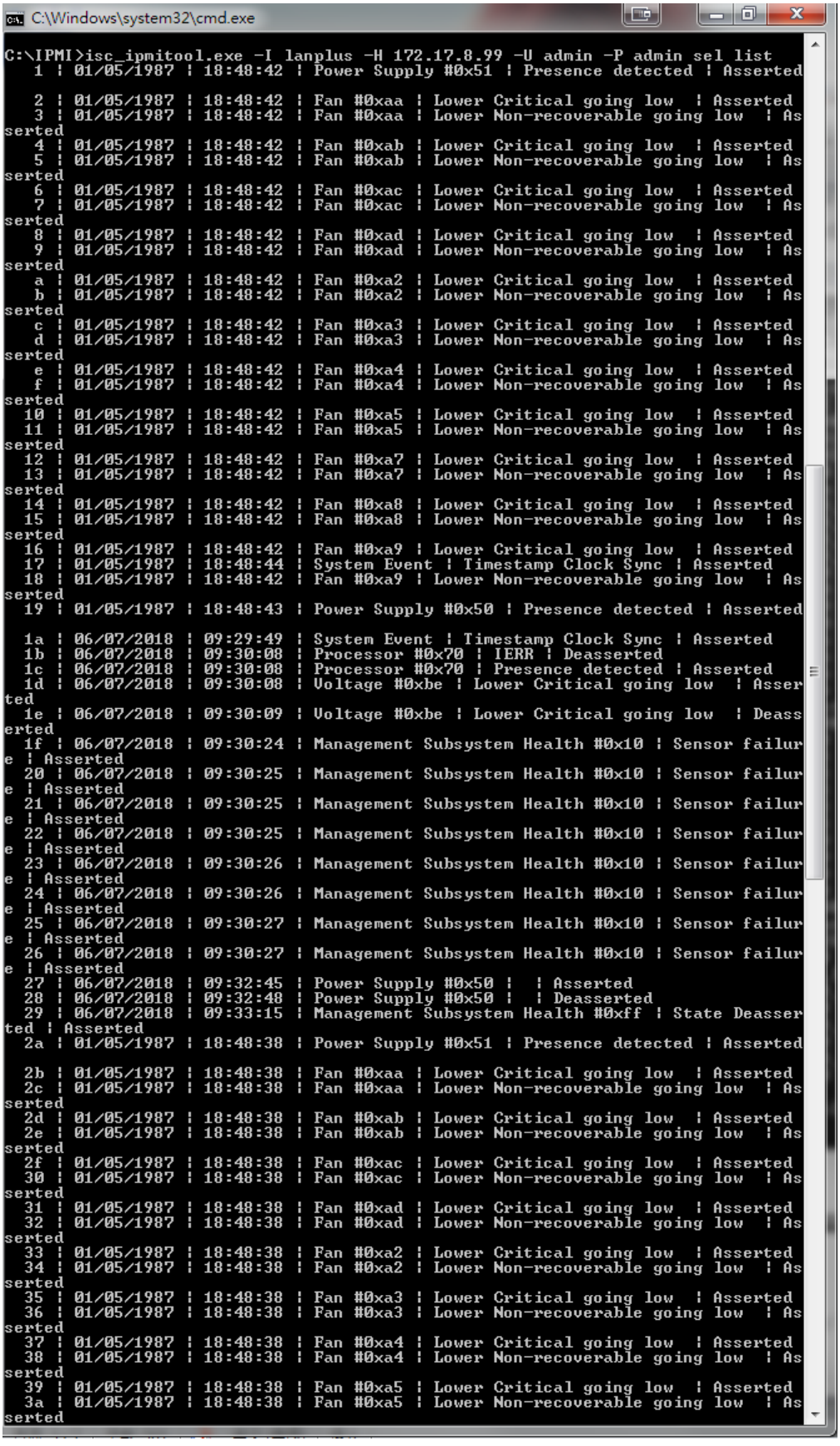

- **Step 3: Monitor the Temperature, Voltage, and Fan Sensors of IPMI Client Console:**

  Run isc_ipmitool.exe under CMD window with following command: *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> sdr elist*



- **Step 4: View the ILOM SP System Event Log (SEL)**

  Run isc_ipmitool.exe under CMD window with following command: *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> sel list*



- **Step 5: Remote Control – Server Power Control:**

  Initiate a soft-shutdown via acpi:

  *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> power soft*

  issue a hard power off, wait 1s, power on:

  *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> power cycle*

  issue a hard power off:

  *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> power off*

  issue a hard power on:

  *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> power on*

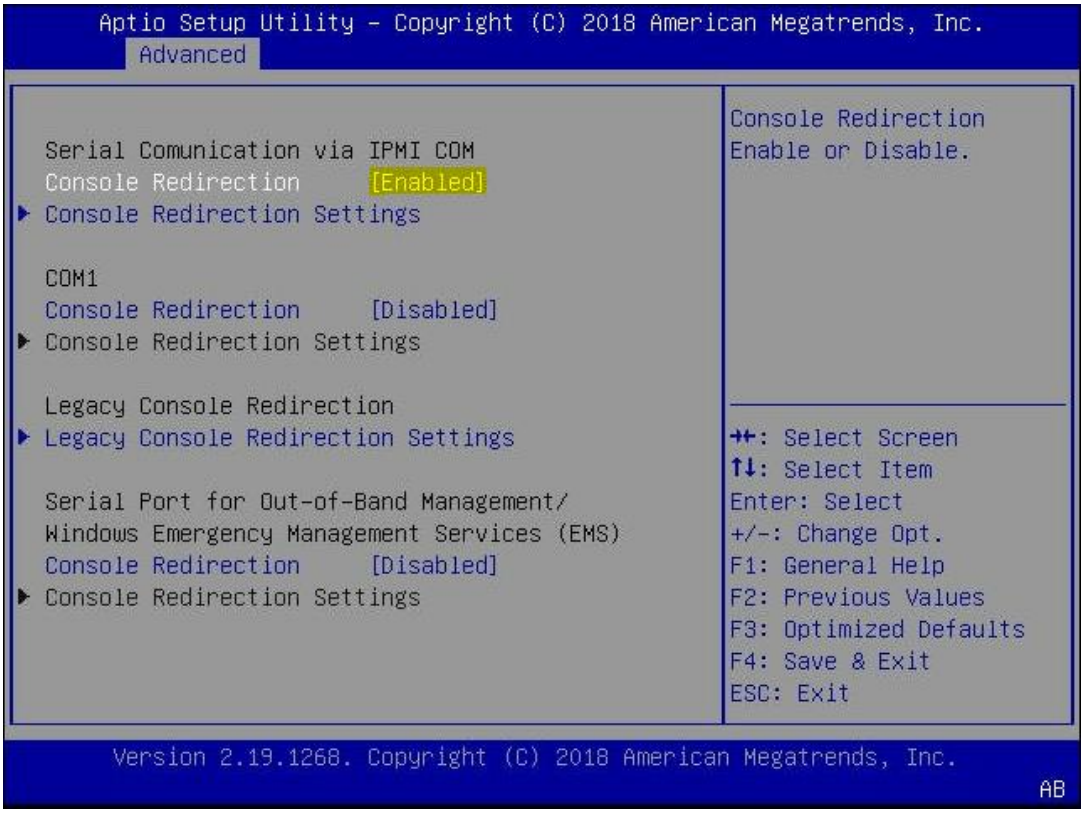
  issue a hard reset:

  *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> power reset*

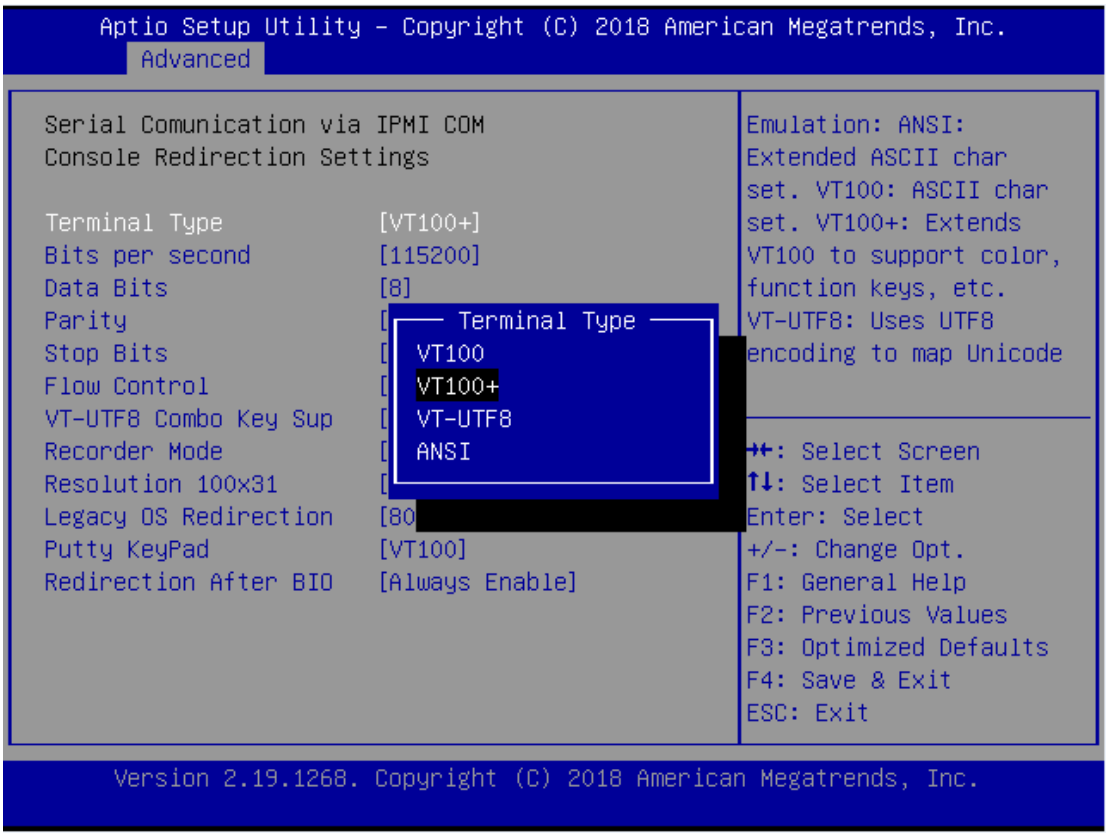
■ **Step 6: Remote Control – iKVM BIOS Access:**

Follow followings steps to set necessary options under BIOS.

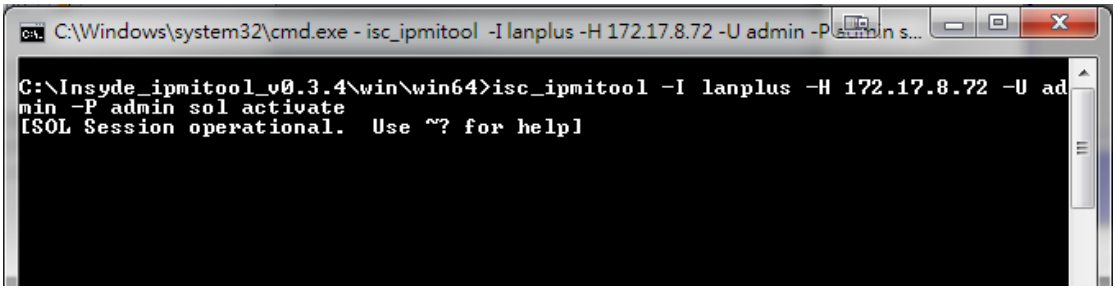
1. BIOS => Advanced => Serial Port Console Redirection => Serial Communication via IPMI COM => Console Redirection => Enable



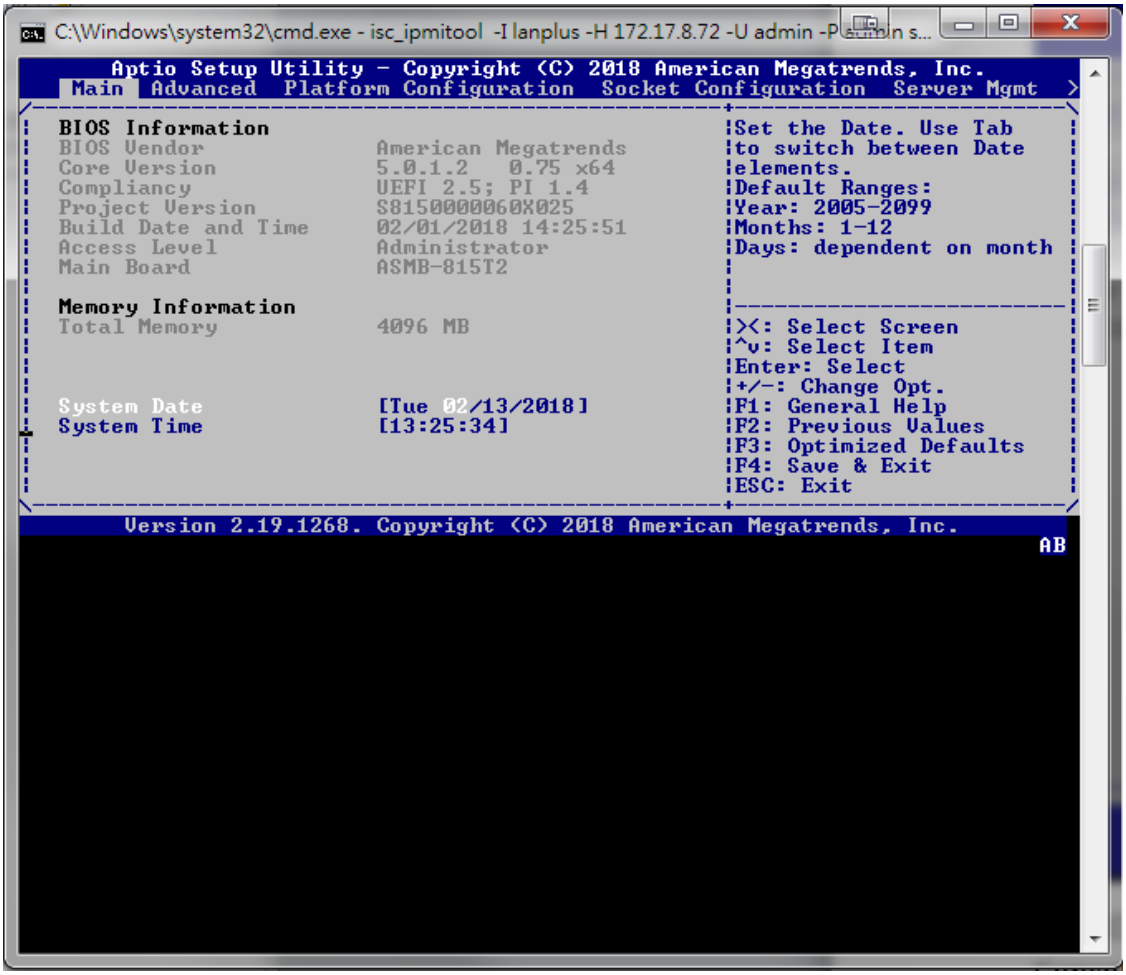
2. BIOS => Advanced => Serial Port Console Redirection => Serial Communication via IPMI COM => Console Redirection Settings => Terminal Type => VT100+




3. Save Changes and Reset and enter BIOS setup page again. Run following command on IPMI Server Console: *isc_ipmitool -I lanplus -H <IPADDR> -U <USERNAME> -P <PASSWORD> sol activate*



4. Now try to press Arrow Keys on keyboard, the BIOS page will be displayed in CMD window. It's allowed to full access and control BIOS setup.




## ■ Reference:

1. IPMI tools download (Insyde_ipmitool_v0.3.4.zip):
http://downloadt.advantech.com/download/downloadsr.aspx?File_Id=1-1LDVATD

2. IPMI Command reference Link:
https://docs.oracle.com/cd/E19464-01/820-6850-11/IPMItool.html#50602039_81422