

eFolder Replibit BDR Pro Appliance IPMI Interface Quickstart Guide



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eFolder Replibit – IPMI Interface for the Pro BDR Appliance

The purpose of this guide is to provide you with a high-level overview of the most commonly used functions in the Intelligent Platform Management Interface (IPMI) for the *eFolder Replibit BDR Pro Appliance*.

The IPMI interface allows system administrators and other authorized users to access their system remotely, control the power of their system, redirect the console, utilize a remote graphics console display, monitor the system's health, and configure additional settings. The IPMI interface provides remote access to multiple users at different locations for ease in troubleshooting, diagnostics, networking, and other maintenance activities.

When ordering your appliance, you will specify your network information for this IPMI feature; therefore, it will arrive preconfigured with your IP address when it is shipped to you.

This *eFolder Replibit BDR IPMI Interface Quickstart Guide* will cover the following common tasks for the Pro Appliance:

- A. [Access the IPMI Interface](#)
- B. [Log in to the IPMI Interface](#)
- C. [MANDATORY: Change the initial default password](#)
- D. [Remote control the power state of your system](#)
- E. [Redirect the Console](#)
- F. [Utilize the Remote \(graphics\) Console Display feature of the IPMI Interface](#)
- G. [Check the health of your server](#)
- H. [Troubleshoot](#)
- I. [Monitor your server using SNMP](#)
- J. [Change your network settings/IP Address](#)
- K. [Setting the IPMI Address from the System BIOS](#)

Customer Support

At eFolder, we want to help you quickly resolve your technical issues and value your input to build products that incorporate your suggestions!

If you need assistance with set-up or any other technical questions or issues, please contact our Technical Support team at replibitsupport@efolder.net or call:

- **678-888-0700**, and select 2 for technical support, then 1 for backup services support, which includes eFolder Replibit.

For known problem resolutions, open a browser and navigate to:

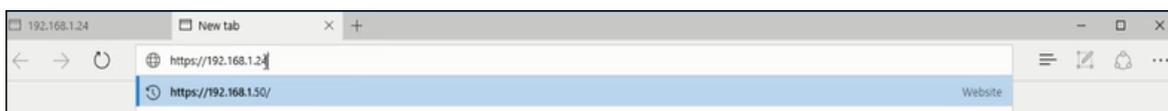
Knowledgebase:

<https://secure.efoldering.com/support/Knowledgebase/List/Index/69/bdr-for-replibit>

A. Access the IPMI Interface for the eFolder Replibit BDR Pro Appliance

1. Ensure that the dedicated IPMI network port is plugged into your switch, and has connectivity.
2. Begin by opening a browser window.
3. Type the following in the address bar as shown below:

https:// <followed by the *IP address that was assigned* to the IPMI interface>.



Notes:

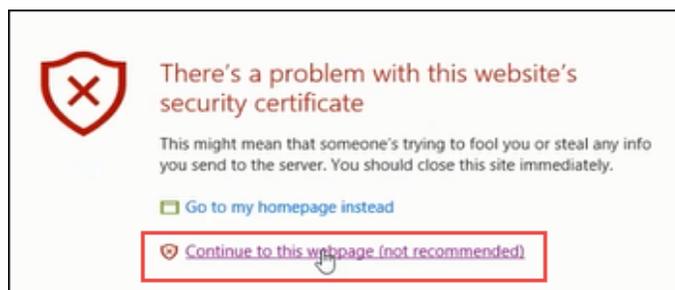
- The IPMI interface will operate with any Web Browser that supports Java.
- Please do *not* use the https address shown above in the example; this is for illustrative purposes only, and you will need to use your *unique* (preconfigured) IP address that you provided for your IPMI Interface.
- You *must* have **Java** installed and *enabled* for the IPMI interface to operate.



Additionally, you can refer to [Section K: Setting the IPMI Address from the System BIOS](#) in this Guide.

If you still do *not* know the IPMI address assigned to your BDR unit, please contact eFolder Technical Support at replibitsupport@efolder.net or call: **678-888-0700**; select 2 for Technical Support, and then 1 for Backup Services Support, which includes **eFolder Replibit**.

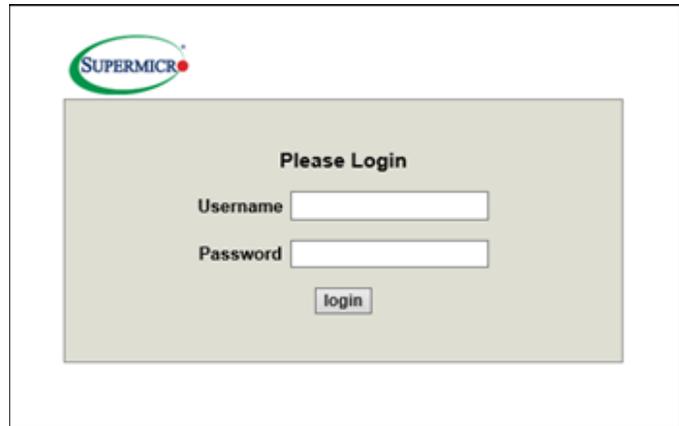
4. If your browser prompts you with the dialog box security certificate shown to the right, click ***Continue to this webpage (not recommended)***.



B. Login to the IPMI Interface for the eFolder Replibit BDR Pro Appliance

The IPMI Interface will come *preconfigured* with a default password of ADMIN / ADMIN that you will use initially to log in for the first time. *However, it will be imperative to change this immediately, which you will learn how to do in this guide.*

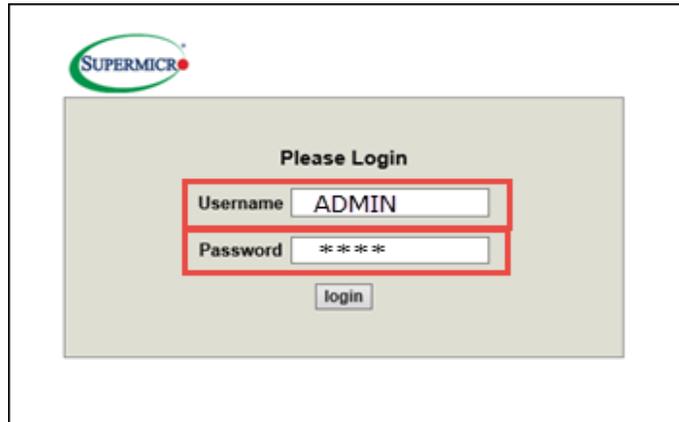
1. The *Login Window* appears after clicking *Continue to this webpage*.



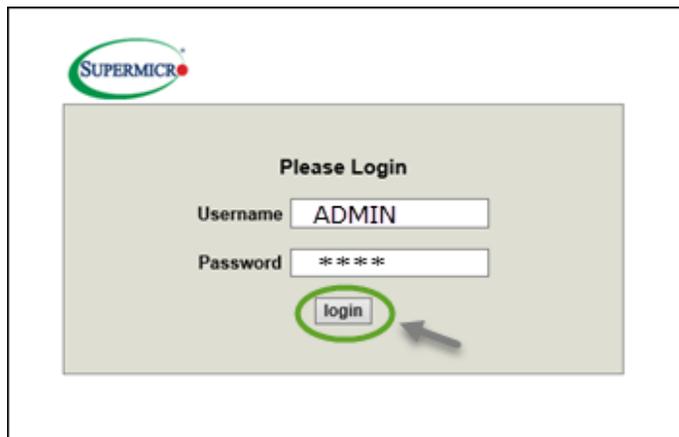
2. In the *Username* field, enter **ADMIN**
3. In the *Password* field, enter **ADMIN**

Notes:

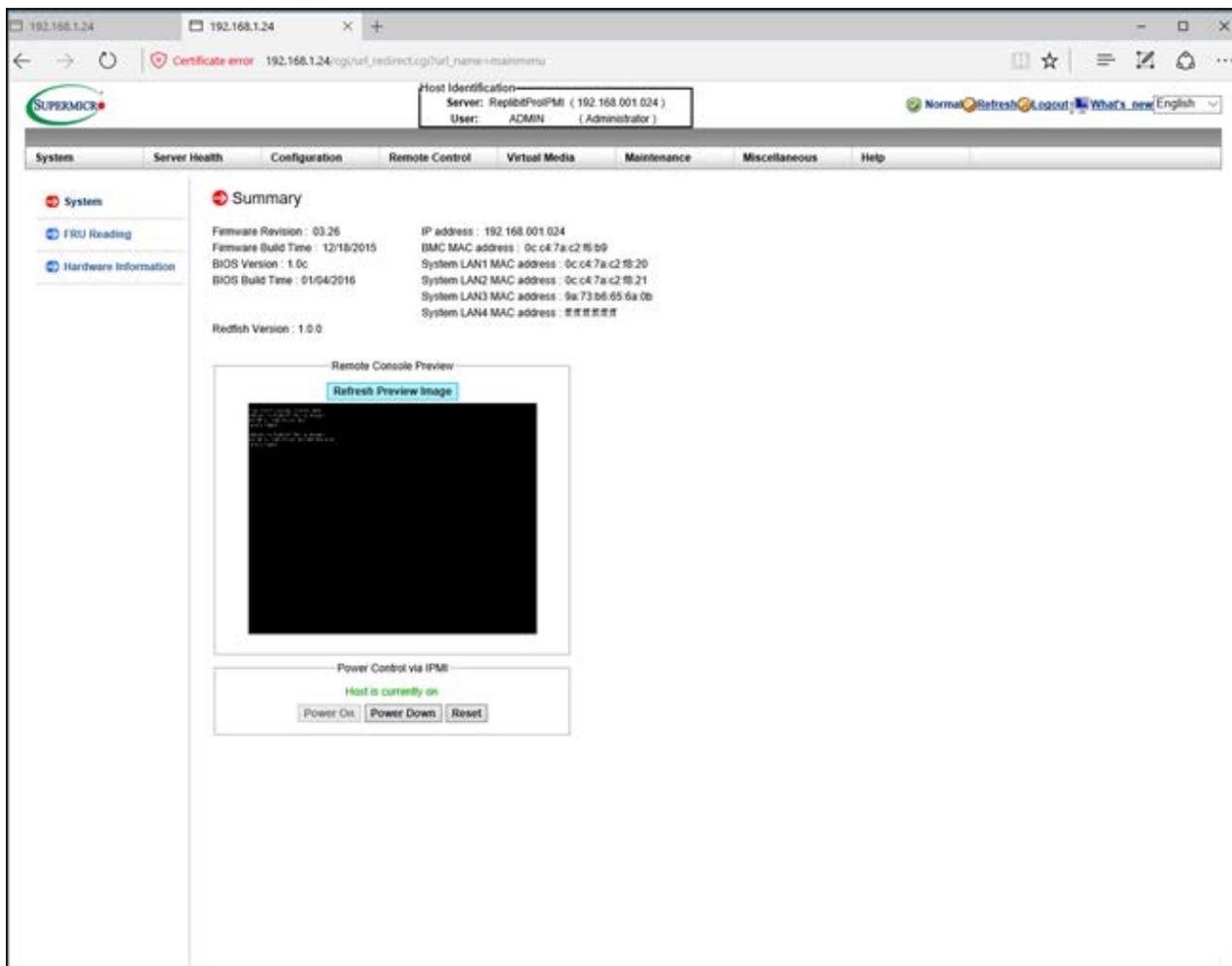
- Please use *all* UPPERCASE letters for this initial login.
- **IMPORTANT!** As mentioned, this device comes preconfigured with an ADMIN Username and Password; it is *critical* that you change this default password to a unique one of your own *immediately after logging in for the first time with the default credentials* which you will do in the next section.



4. Select the **login** button.



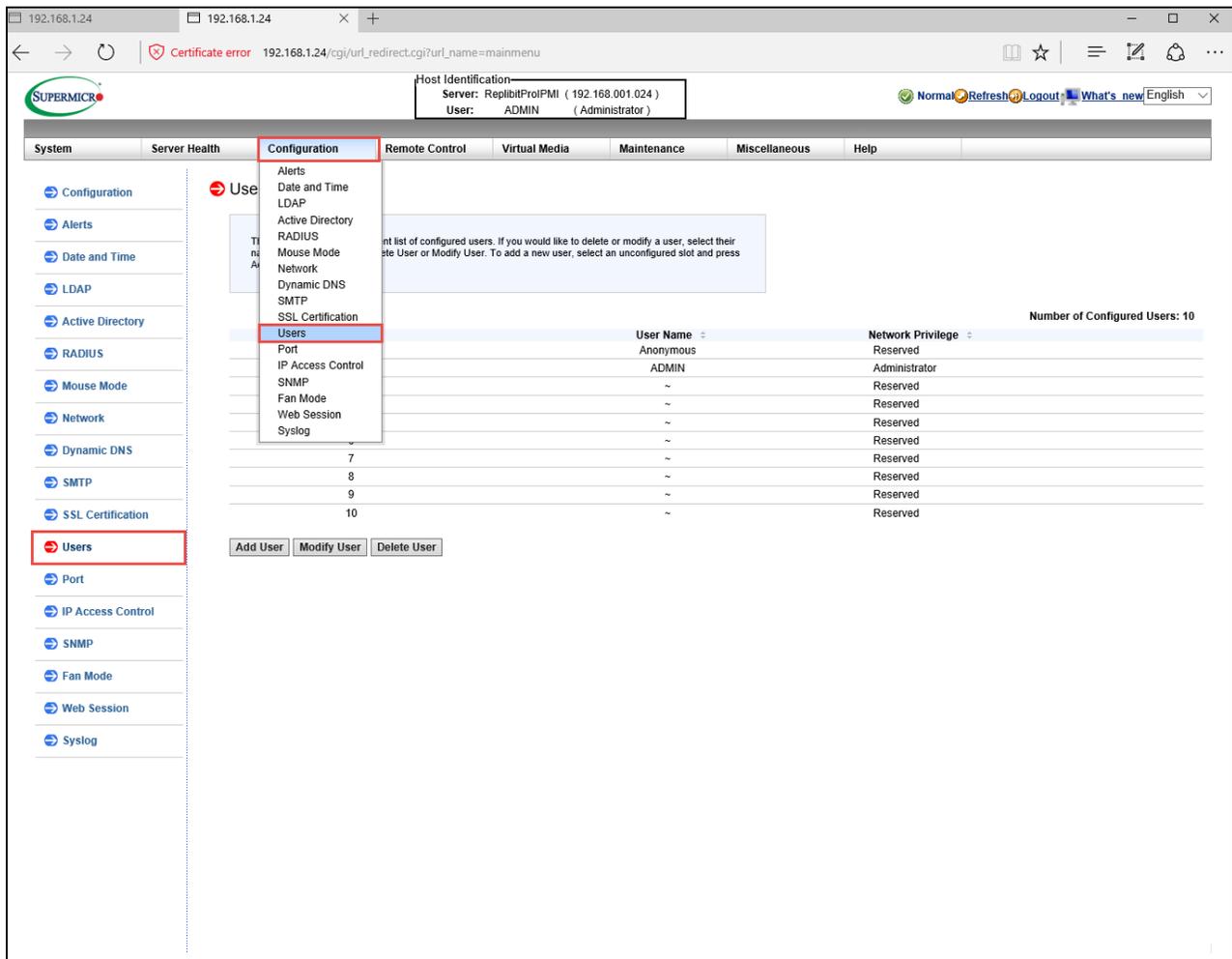
The IPMI Interface Main Menu appears.



C. MANDATORY: Change the initial default password for the eFolder Replibit BDR Pro Appliance IPMI Interface

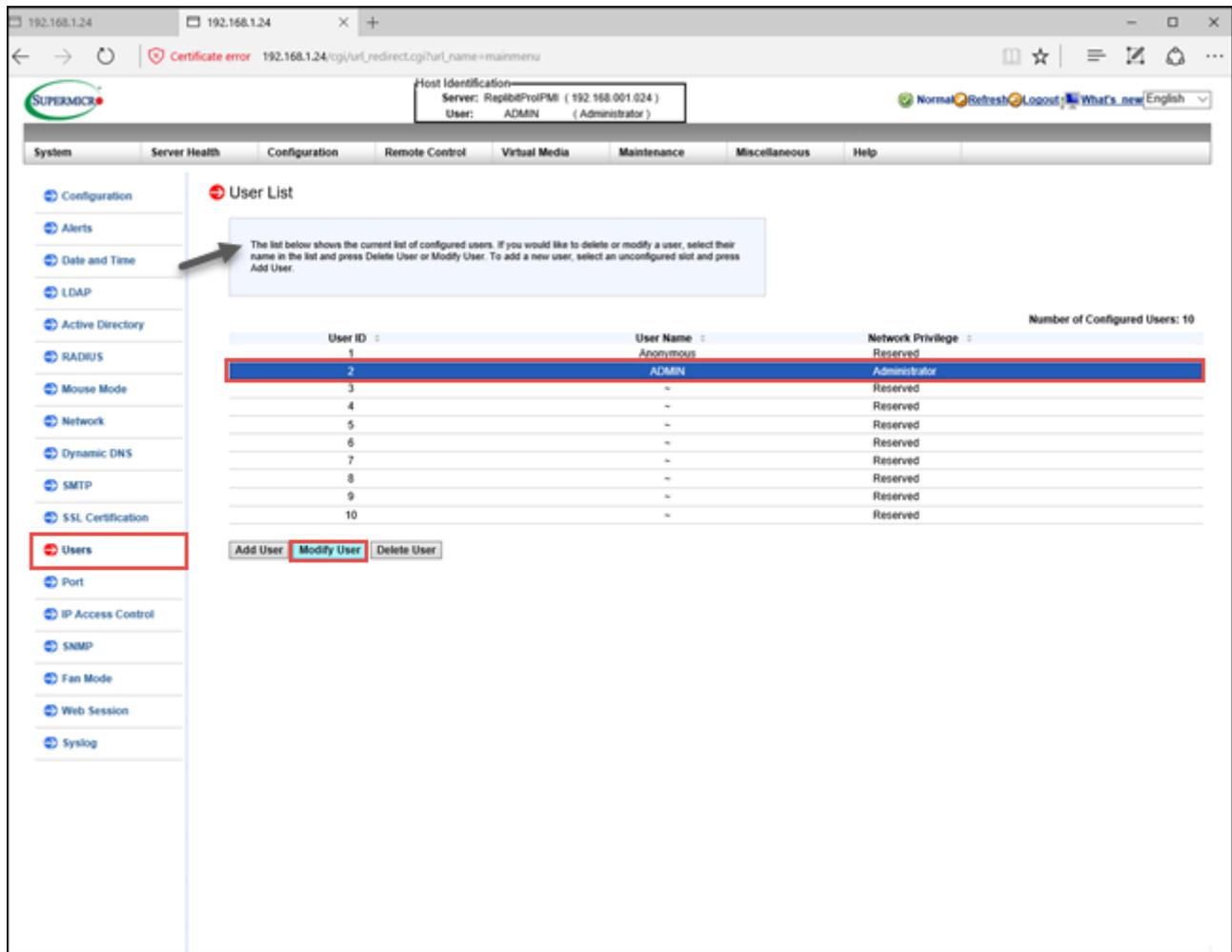
Note: Changing the default ADMIN password is a MANDATORY step that must be done during your initial set-up process.

1. From the *IPMI Main Menu*, click the **Configuration** drop-down menu and select **Users**.



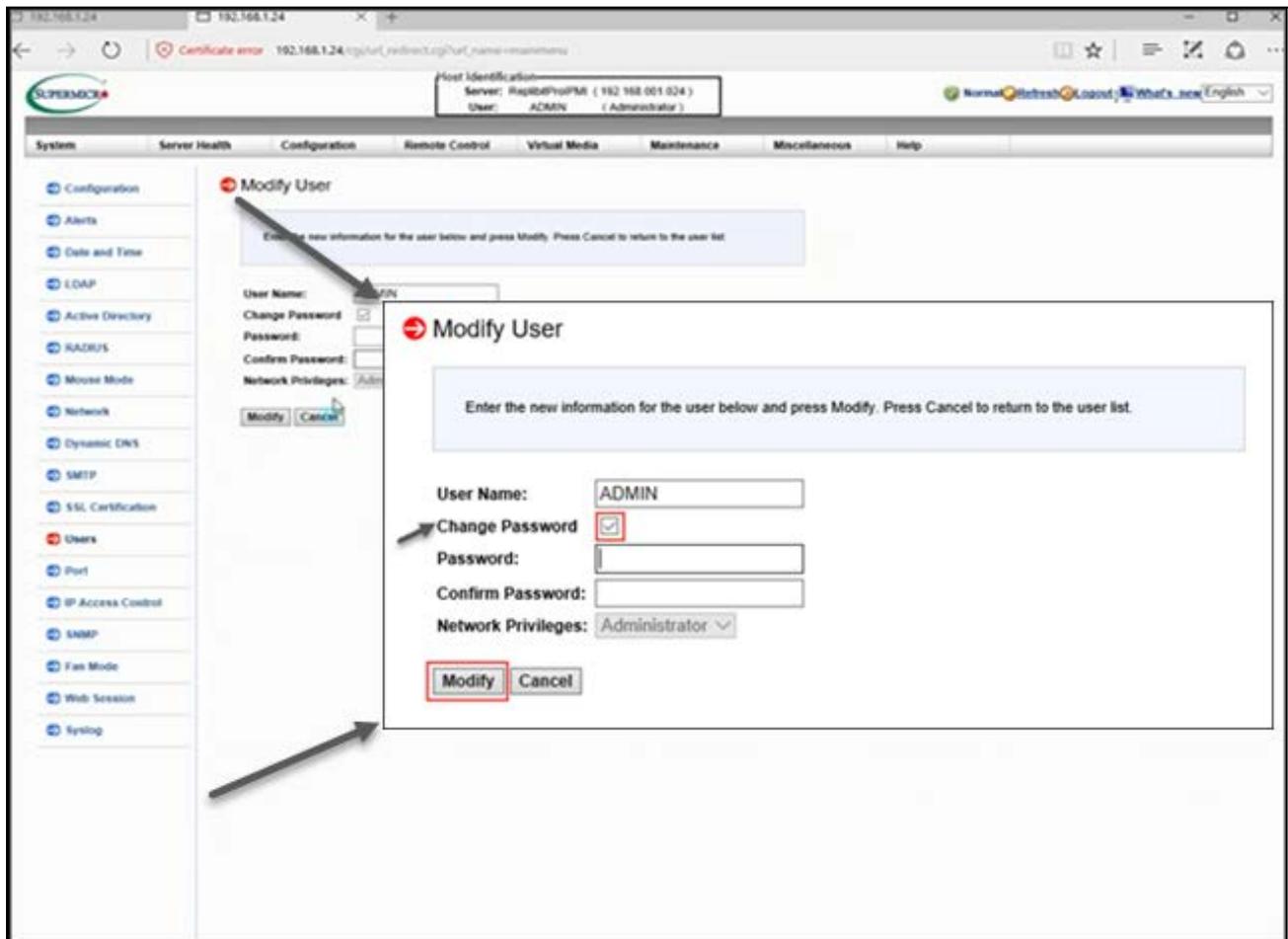
From the *User List* screen:

2. Click on the **User ID ADMIN/Administrator** line item.
3. Click on the **Modify User** button (this will allow you to change the Administrator password to a unique password of your own from the next screen).



The *Modify User* screen appears.

4. In the *Change Password* field, check the **Change Password** checkbox.
5. In the *Password* field, enter a unique password that you create (it is recommended to choose a strong password with Upper, Lower, and Numeric characters).
6. In the *Confirm Password* field, type in the password that you just created.
7. Click on the **Modify** button.



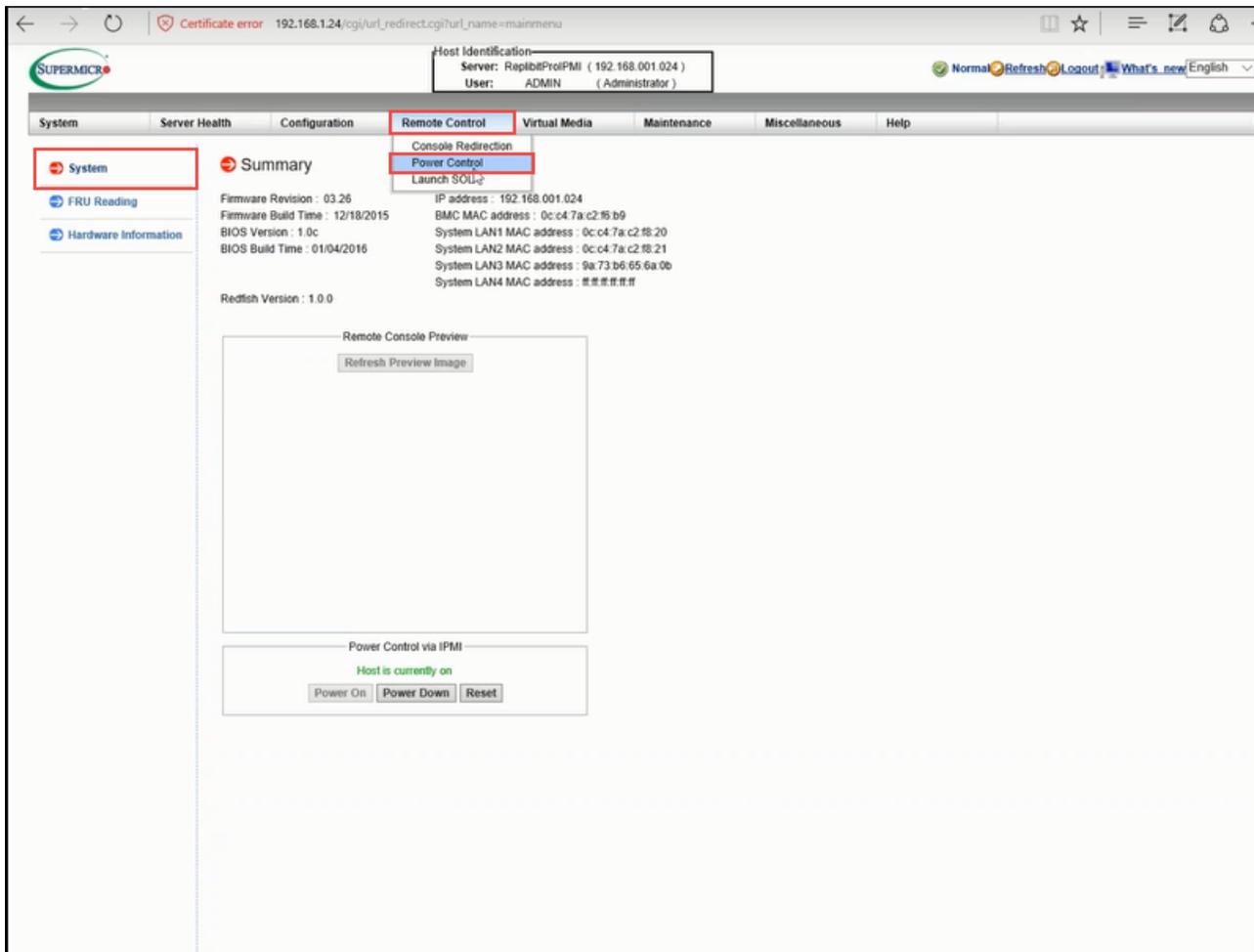
Note: As mentioned, changing the default ADMIN Username and Password to a unique set of credentials of your own is a **MANDATORY** step. Please ensure that this Step C described above is completed prior to proceeding to Step D.

D. Remote control the power state of your system

After you modify your password, the *System* screen appears.

To control the power of your system remotely:

1. Click the **Remote Control** drop-down menu.
2. Select **Power Control**.

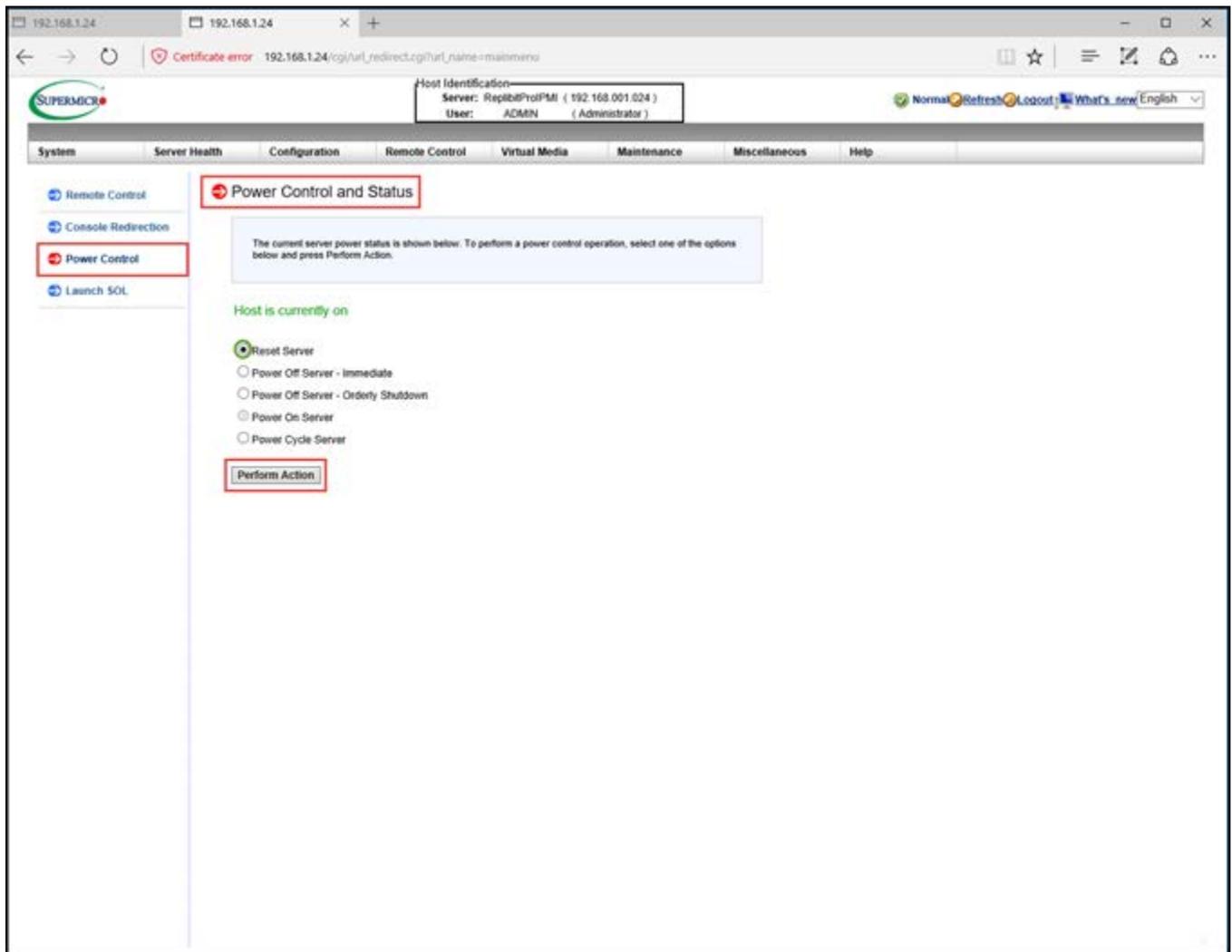


The *Power Control and Status* screen appears.

From the *Power Control and Status* screen, you can perform several actions such as:

- **Reset Server** (hard reboot),
- **Power Off Server – Immediate**,
- **Power Off Server – Orderly Shutdown** (“gracefully” power off),
- **Power On Server**, and
- **Power Cycle Server** (Power Off then Power On server).

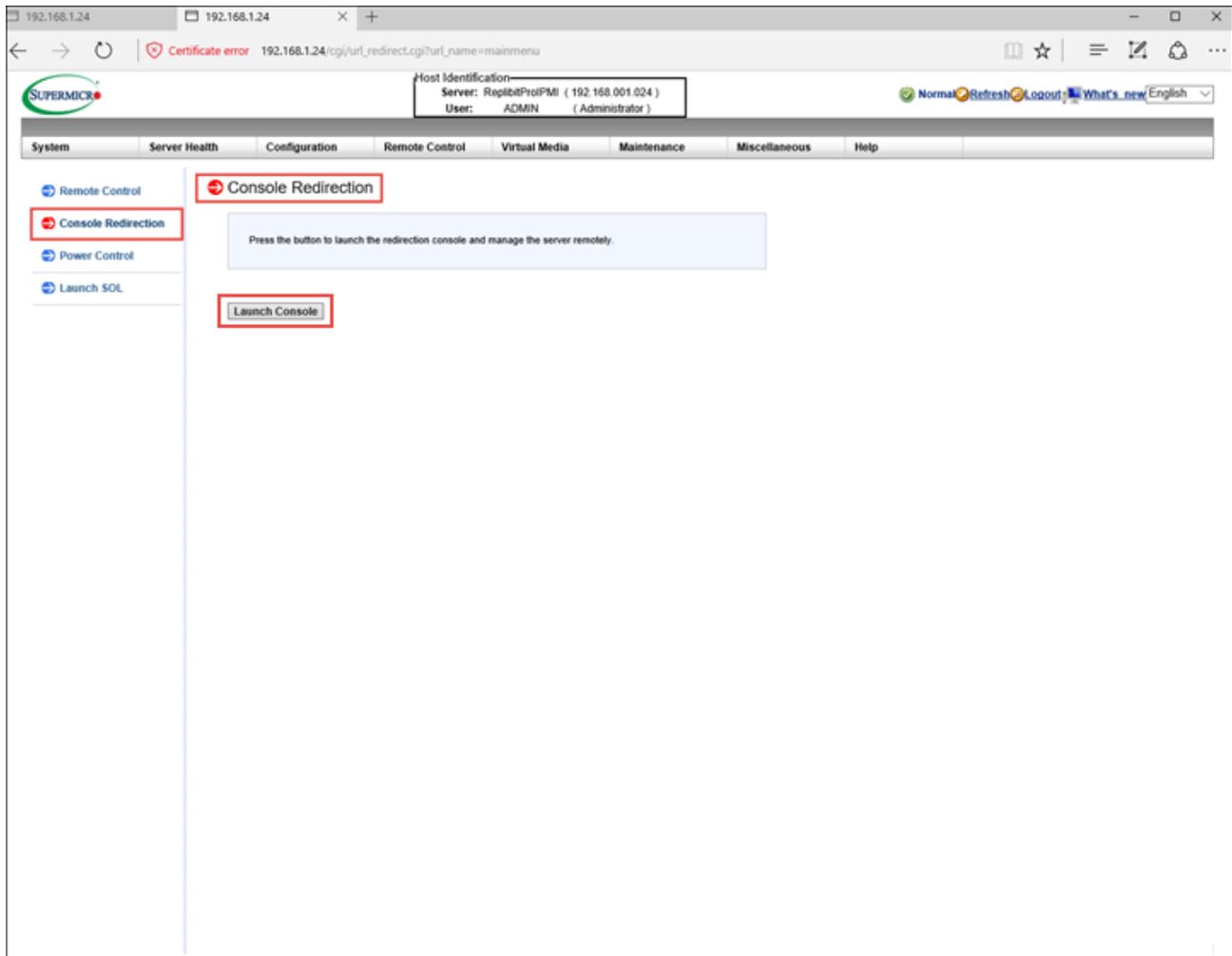
1. Click the radio button of your desired action such as **Reset Server**, **Power Off Server – Immediate**, and so forth.
2. Then click the **Perform Action** button.



E. Redirect the Console

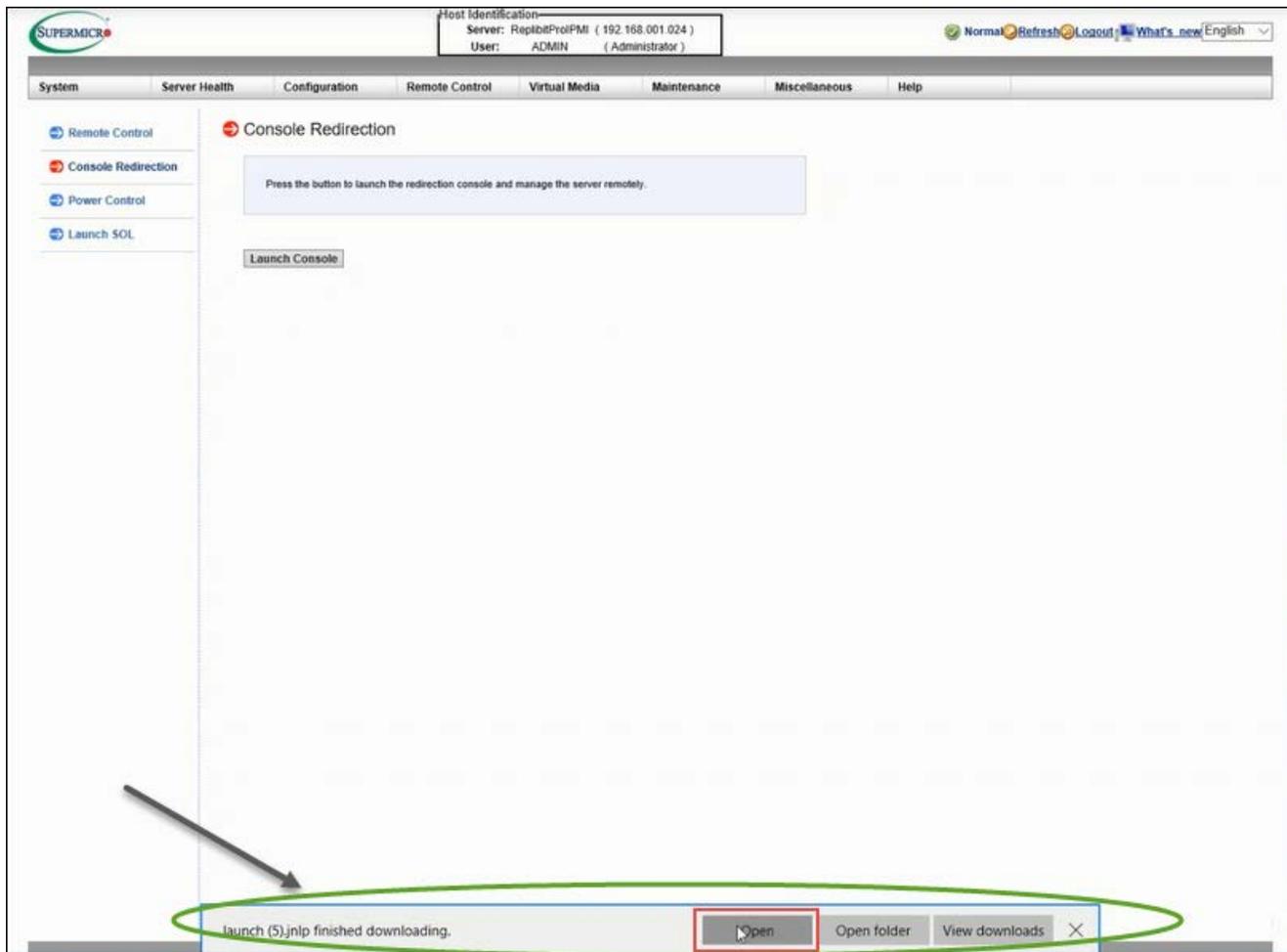
To redirect your console/graphics display:

1. Click on the **Console Redirection** menu option.
2. Click the **Launch Console** button.

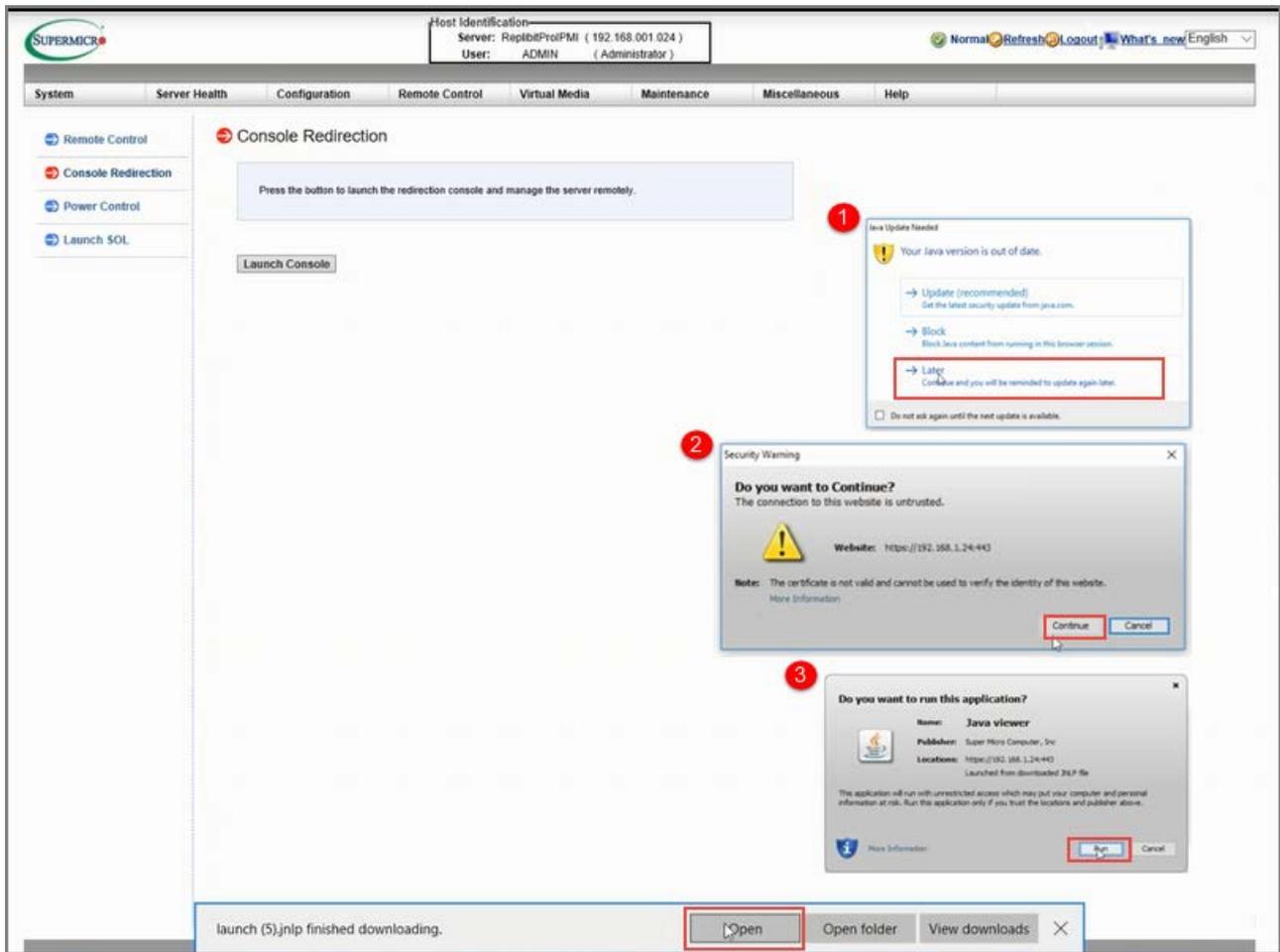


After clicking the **Launch Console** button, a dialog box prompt appears at the bottom of the *Console Redirection* screen stating, *launch.jsp finished downloading.*

At this prompt, click the **Open** button.

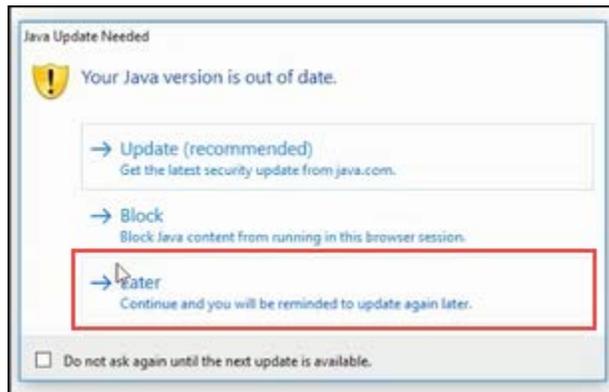


After clicking the **Open** button, you may receive three dialog boxes shown below from the *Console Redirection* screen:



Perform the following actions for each:

1. If you receive a *Java Updated Needed* dialog box, you can click “**Later**” at your discretion. (Note: In order to run the IPMI interface you *do* need Java installed, however, you can choose to perform a Java *update* at a later time).



2. At the *Do you want to Continue?* dialog box, click the **Continue** button.

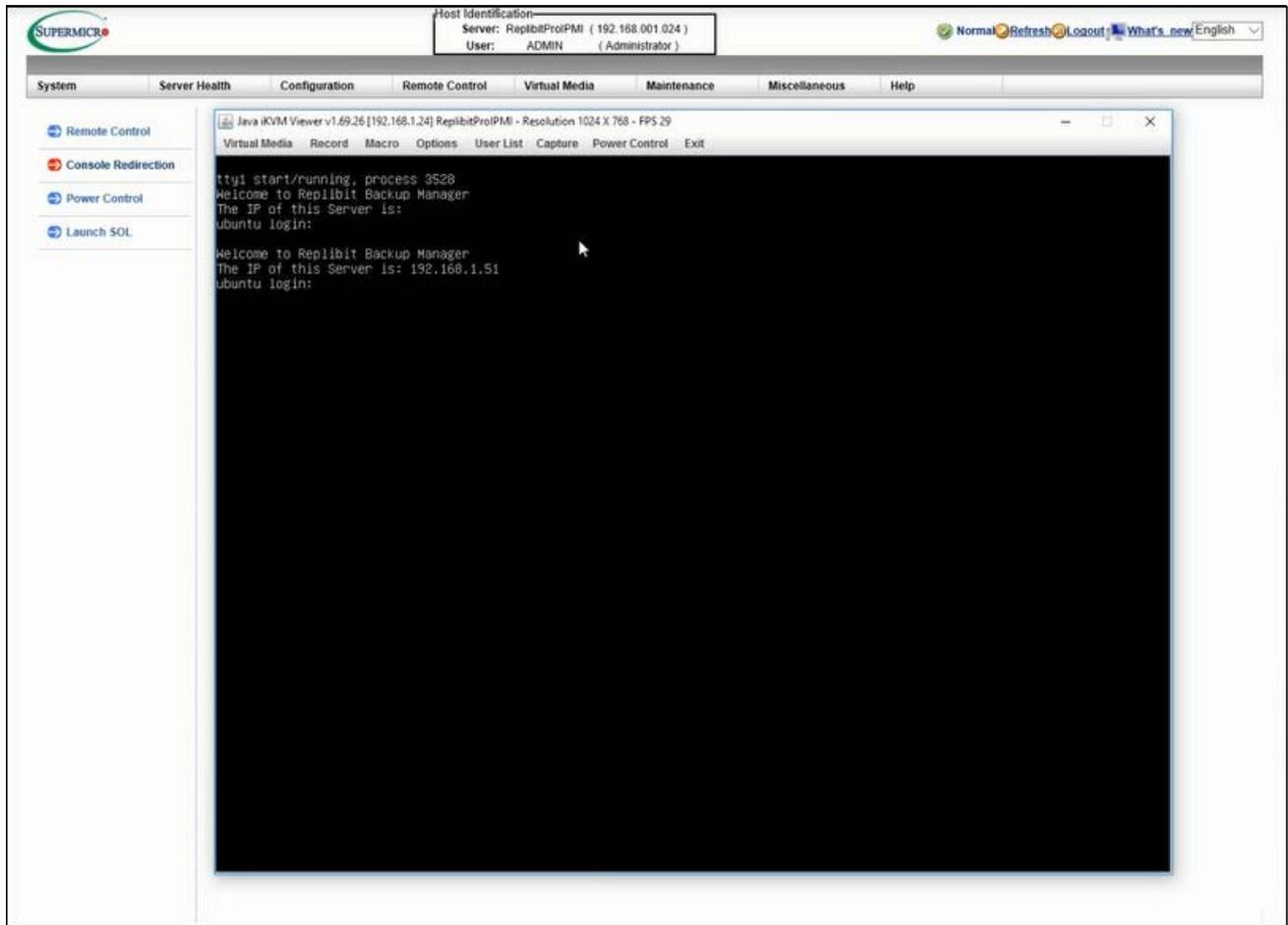


3. At the *Do you want to run this application?* dialog box, click the **Run** button.



F. Utilize the Remote (graphics) Console Display feature of the IPMI Interface

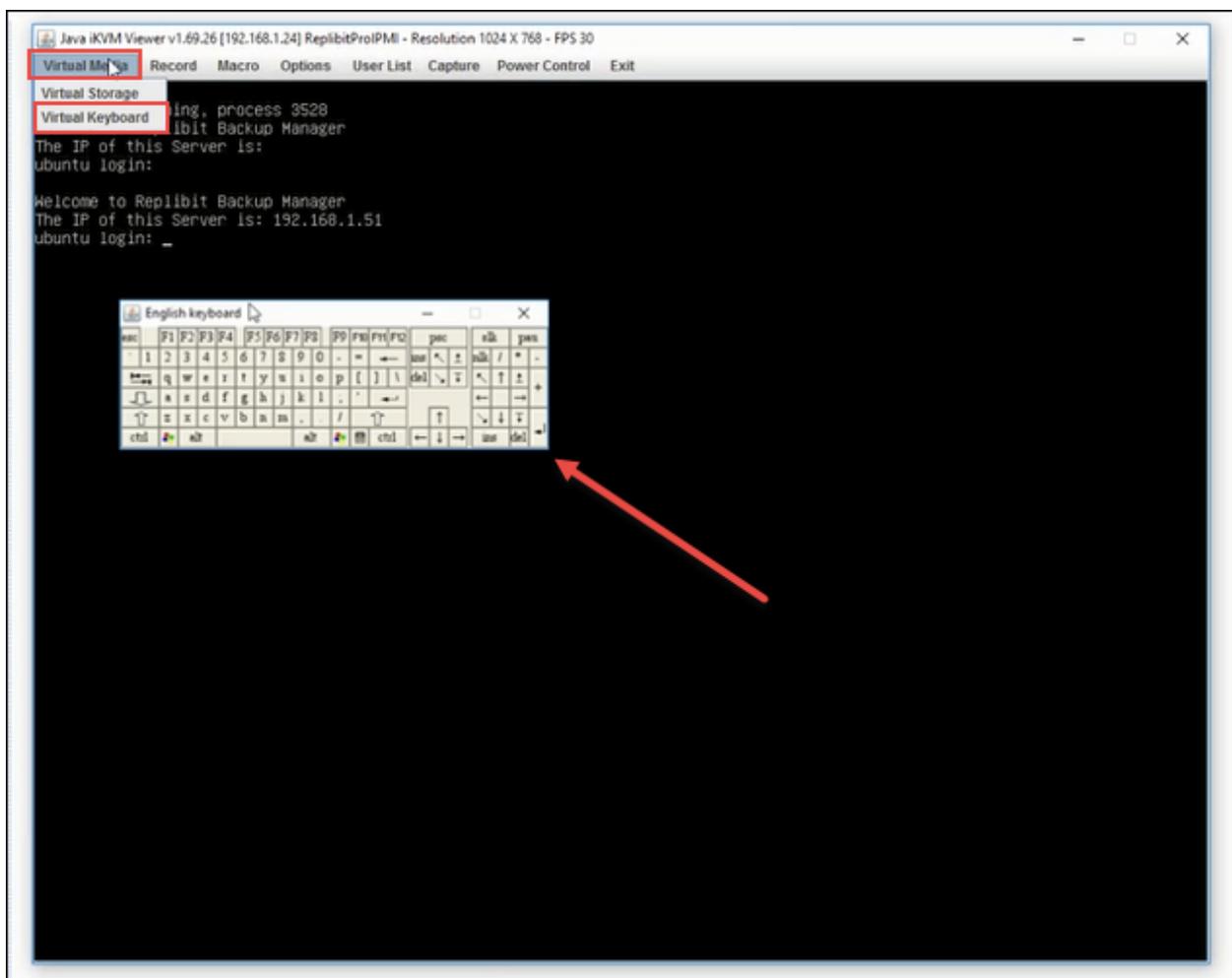
Now that you have redirected your Console, launched the Console button, and followed the dialog boxes to run Java viewer, the *Graphics Display* screen of your console appears.



From this graphics display screen, you can perform several actions such as using a *Virtual Keyboard*.

To enable this feature:

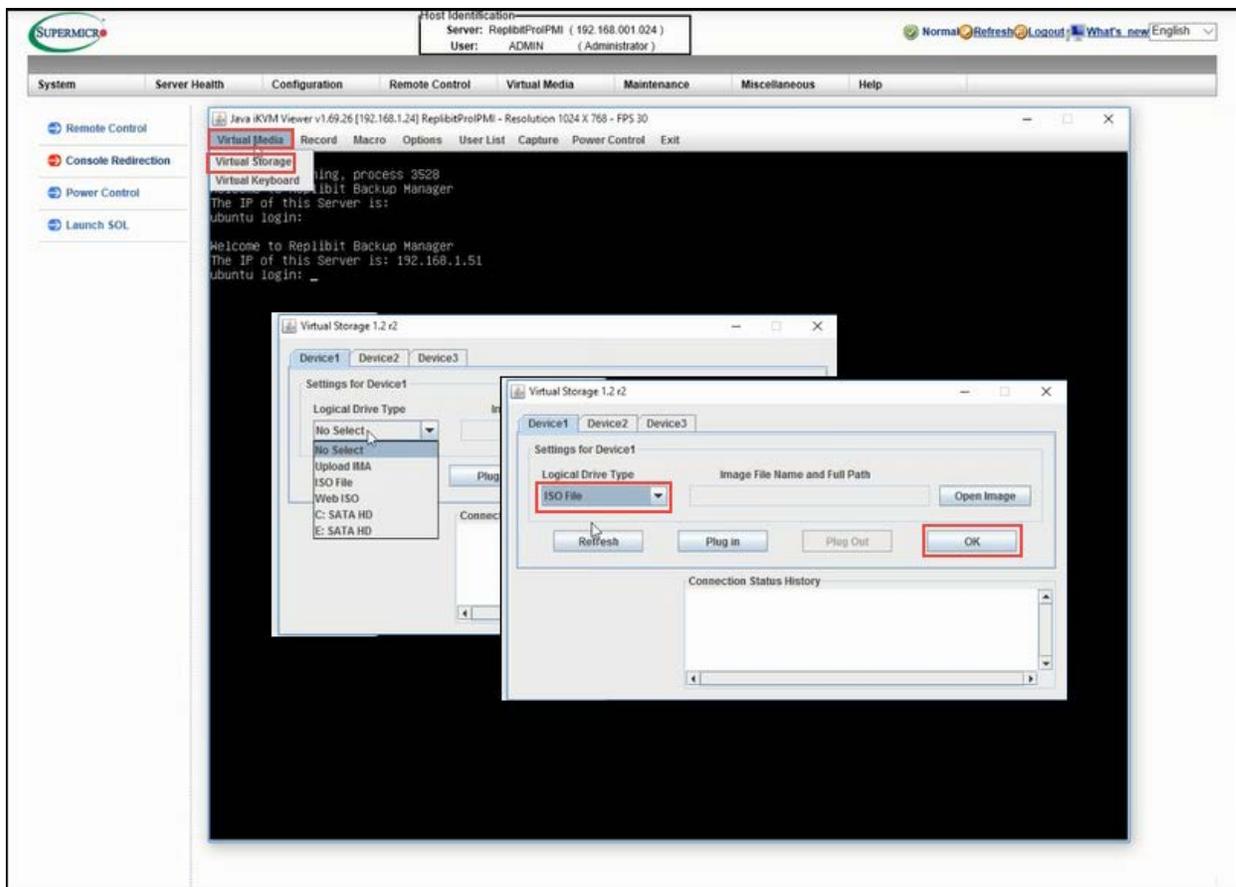
1. Click on the **Virtual Media** drop-down menu.
2. Select **Virtual Keyboard**.
Note: Certain keys (like Function keys) can only be sent to the remote system using the Virtual Keyboard



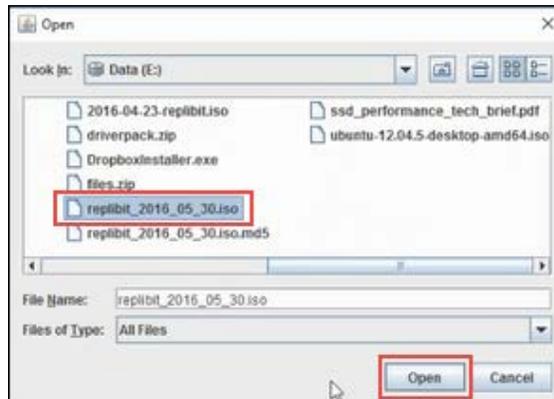
From the graphics display screen, you can also enable *Virtual Storage* as in a virtual CD ROM drive.

To enable this feature:

1. Click on the **Virtual Media** drop-down menu.
2. Select **Virtual Storage**.
3. From the *Virtual Storage* window, click on your desired drive.
 - For example, if you want to reinstall Replibit, select **ISO file** from the *Logical Drive Type* drop-down menu to plug in a virtual CD ROM drive, and then click the **OK** button.



- From the Open window, choose your **replibit.iso** and click on the **Open** button.

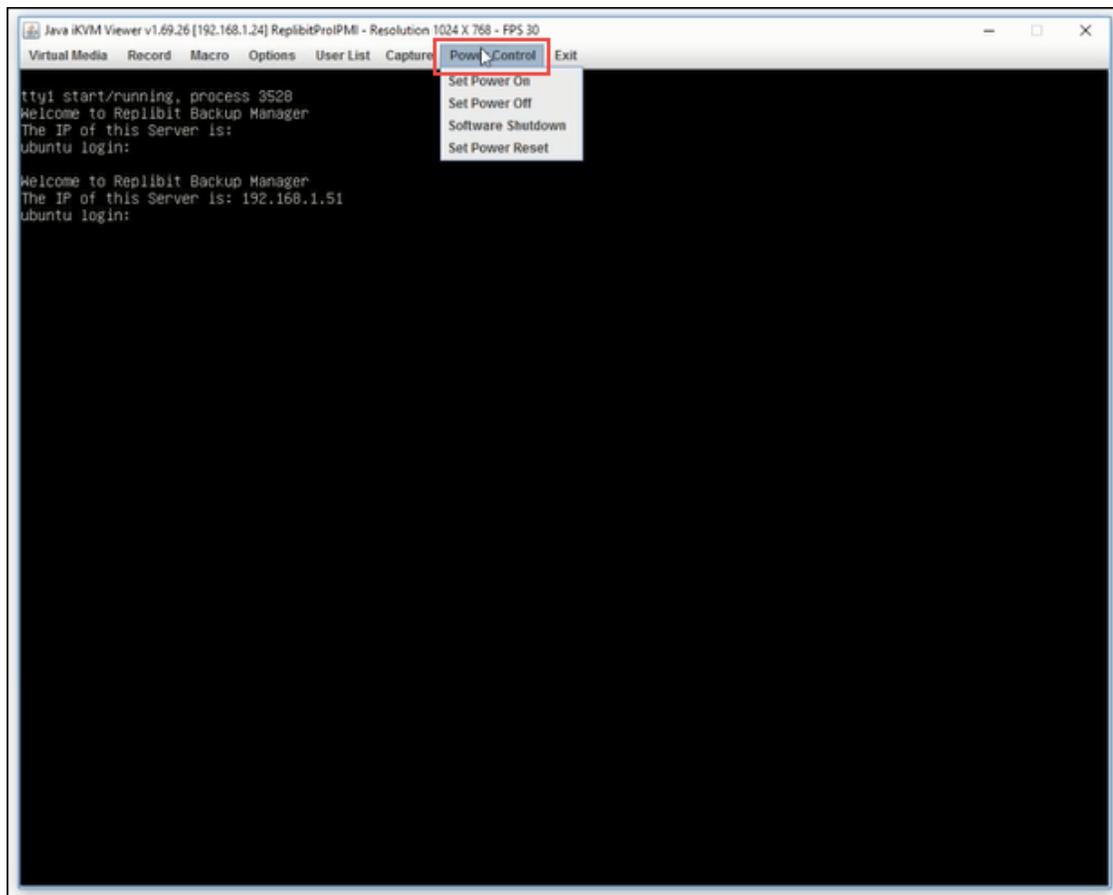


- Then select the **Plug In** button which will plug in your virtual CD ROM drive.
- When you reboot your machine, you can choose to boot off the virtual CD ROM drive to reinstall Replibit from the .iso file.

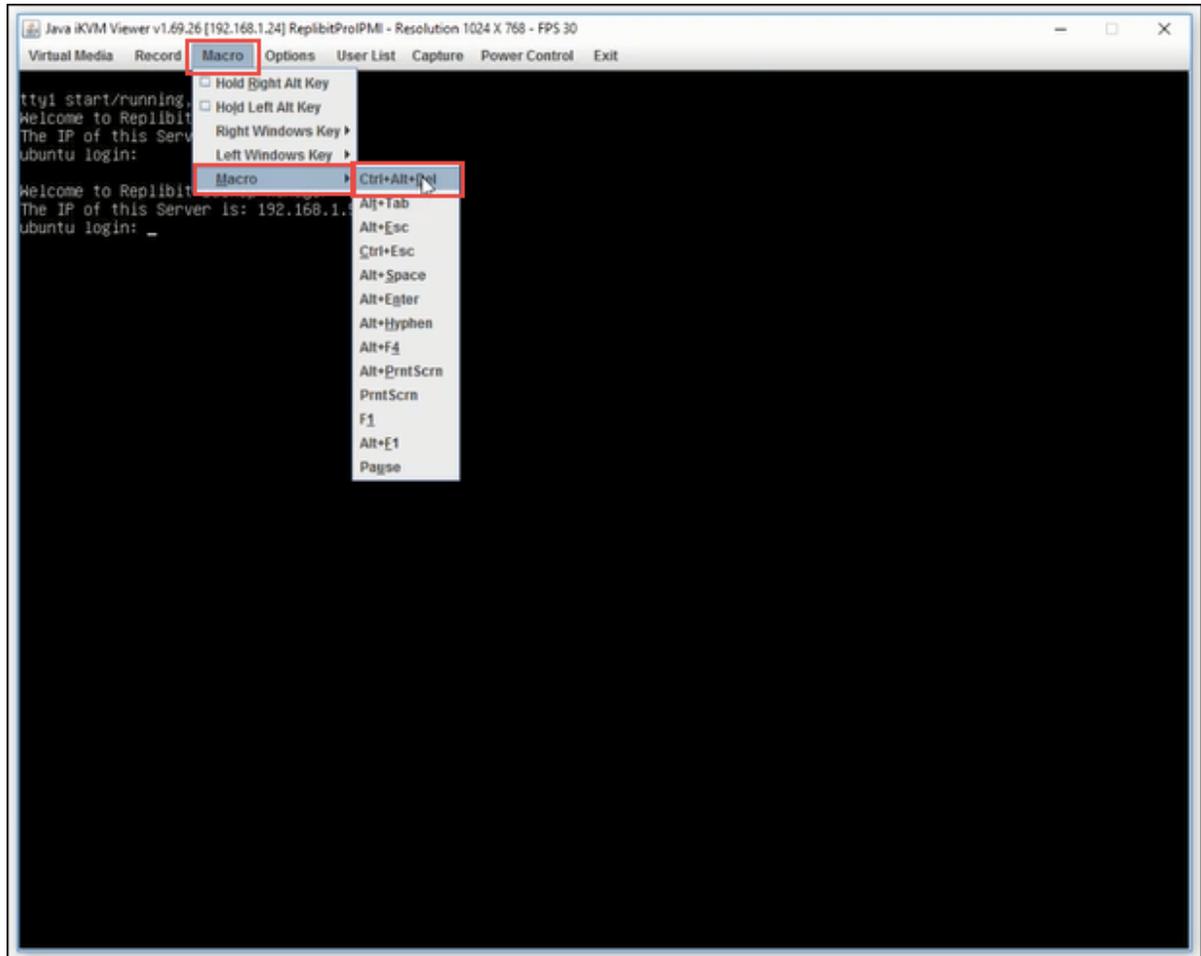


Other common functions from the virtual console graphics display include:

- **Power Control:** by selecting the **Power Control** drop-down menu, you can **Set Power On**, **Set Power Off**, **Software Shutdown**, and **Set Power Reset**.



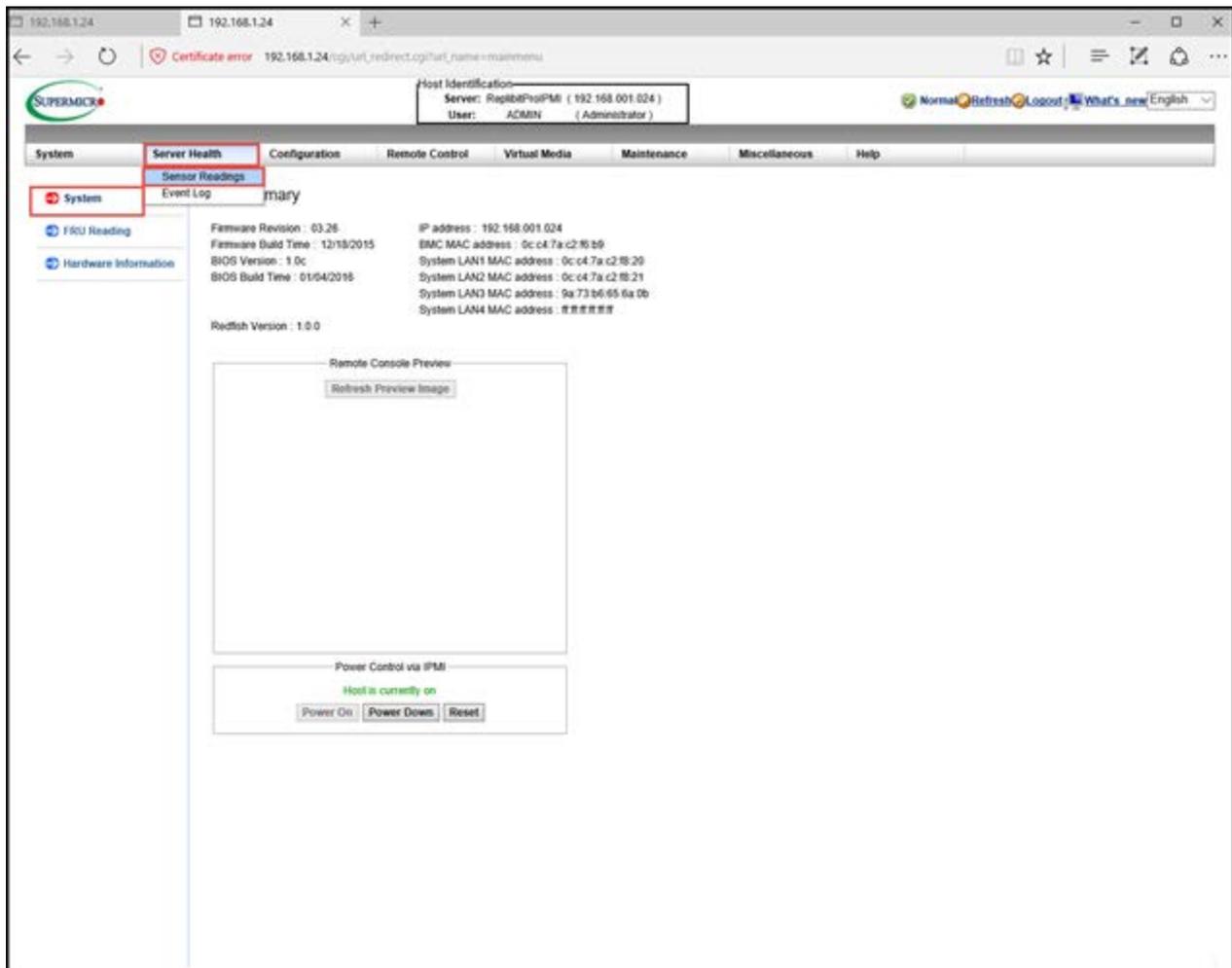
- Additionally, you can utilize Macro options from the virtual console, such as Ctrl+Alt+Del (for example, select Macro, Macro, and then Ctrl+Alt+Del from the drop-down menu).



G. Check the health of your server

To check the health of your server remotely:

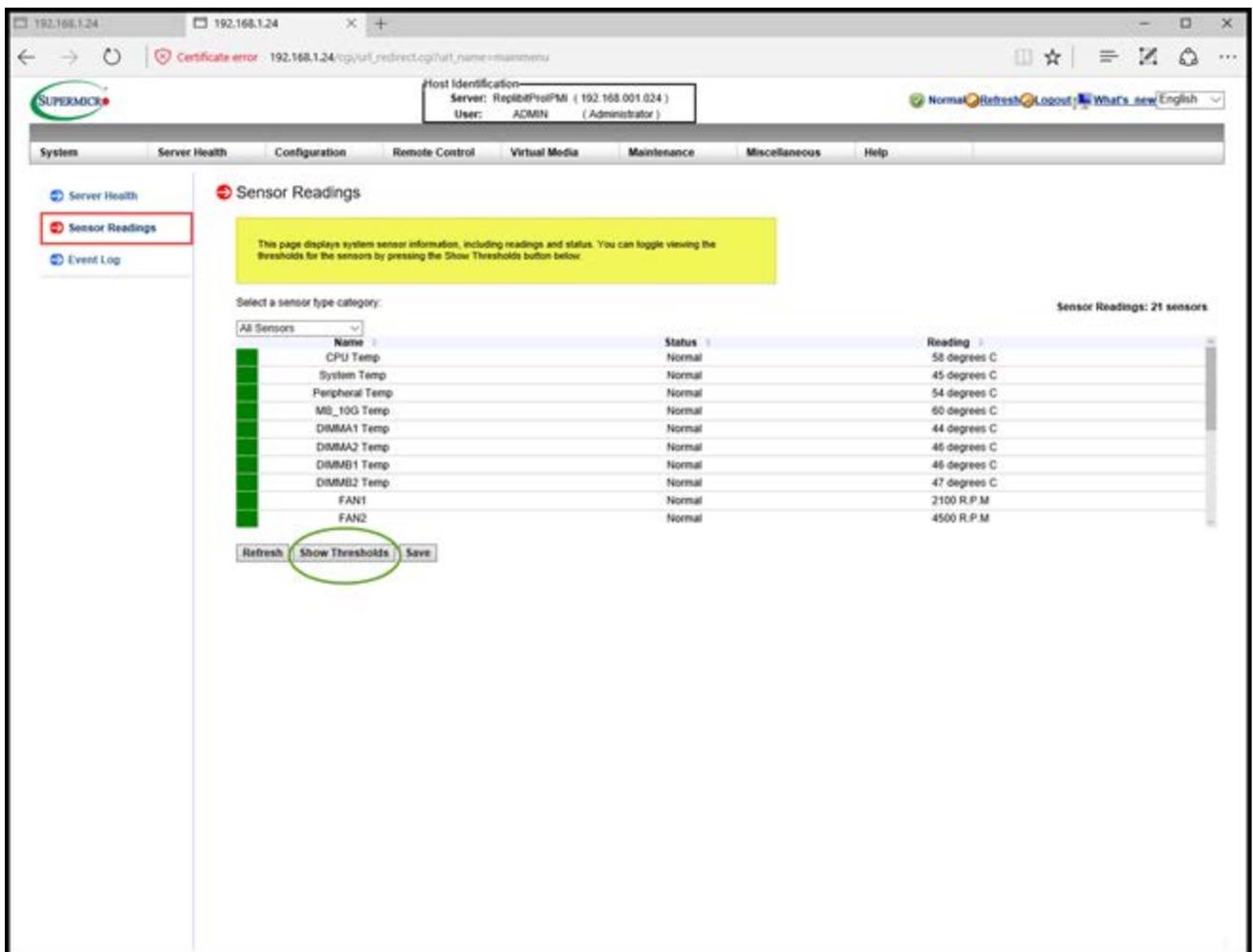
1. From the *System* menu, click on **Server Health**.
2. Then click on **Sensor Readings**.



The *Sensor Readings* screen appears.

This screen will show you in green or in red, the state of each of the sensors. For example, these may include the CPU Temperature, the RAM temperature, the Fan Speed (if the fans are healthy), and the Voltage indicator.

The *Sensor Readings* feature of the IPMI is helpful to troubleshoot and diagnose if your system is *not* functioning properly.



H. Troubleshoot

An additional troubleshooting feature is to check the **Event Log** for any unusual events or errors. Scroll through all of the events, and read each corresponding description for any issues.

Host Identification
 Server: ReplibitProIPMI (192.168.001.024)
 User: ADMIN (Administrator)

Normal Refresh Logout What's new English

System Server Health Configuration Remote Control Virtual Media Maintenance Miscellaneous Help

Server Health
 Sensor Readings
Event Log

Event Log

For more special event log settings, please click [here](#)

Below is a table of the events from the system's event log. You can choose a category from the pull-down box to filter the events, and also sort them by clicking on a column header.

Select an event log category:
 All Events

Event ID	Time Stamp	Sensor Name	Sensor Type	Description
1	2016/02/29 14:50:07	CPU Temp	Processor	Thermal Trip - Assertion
2	2016/03/08 00:12:18	BIOS POST Progress #0x00	BIOS POST Progress	Error-Unrecoverable video controller failure - Assertion
3	2016/03/08 00:16:48	BIOS POST Progress #0x00	BIOS POST Progress	Error-Unrecoverable video controller failure - Assertion
4	2016/03/08 00:20:29	BIOS POST Progress #0x00	BIOS POST Progress	Error-Unrecoverable video controller failure - Assertion
5	2016/03/08 00:22:29	BIOS POST Progress #0x00	BIOS POST Progress	Error-Unrecoverable video controller failure - Assertion
6	2016/03/27 01:10:22	FAN1	Fan	Lower Critical - Going Low - Assertion
7	2016/03/27 01:10:22	FAN1	Fan	Lower Non-Recoverable - Going Low - Assertion
8	2016/03/27 01:10:26	FAN1	Fan	Lower Non-Recoverable - Going Low - De-assertion
9	2016/03/27 01:10:26	FAN1	Fan	Lower Critical - Going Low - De-assertion
10	2016/03/27 01:10:33	FAN1	Fan	Lower Critical - Going Low - Assertion

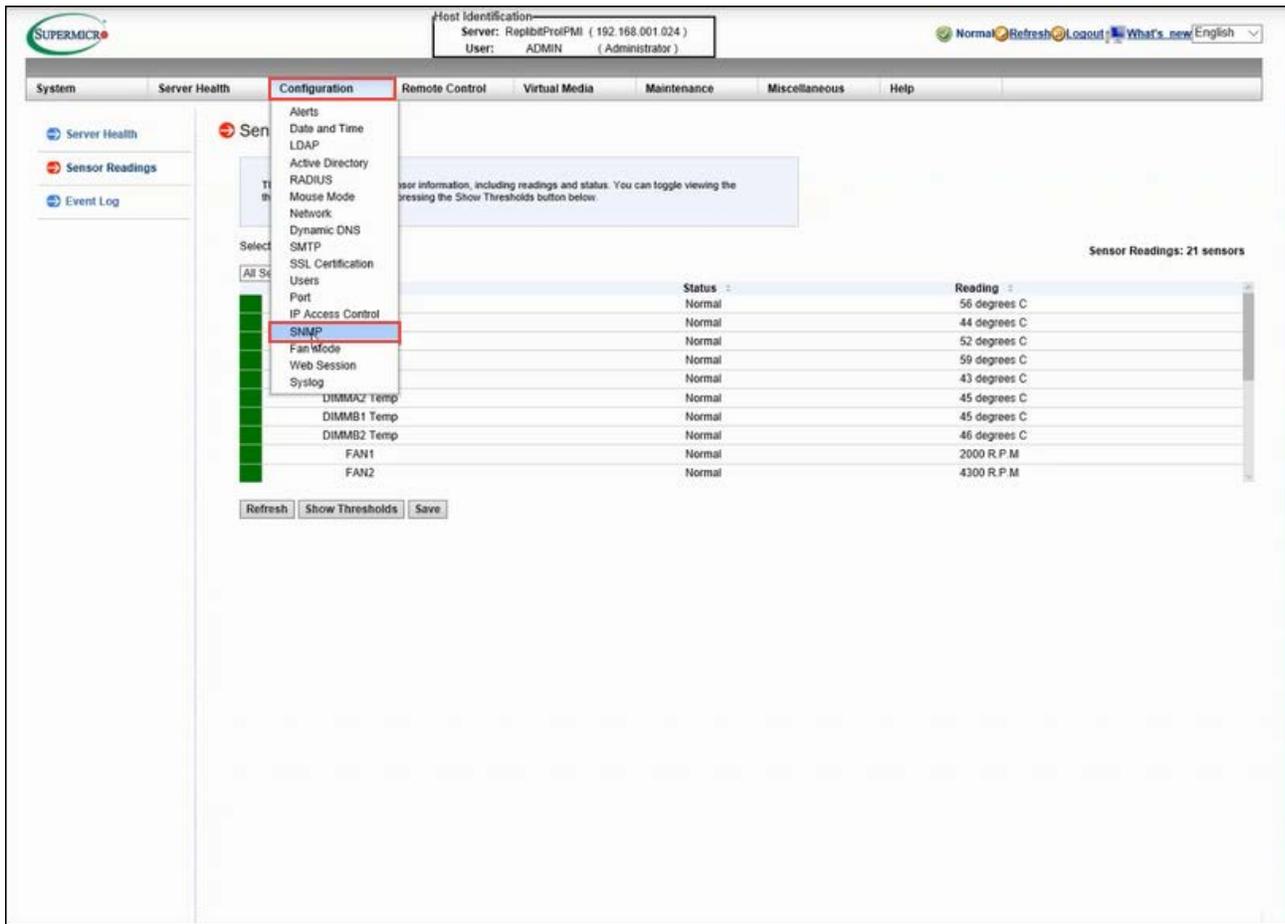
Event Log: Max= 512, Used= 130 (event entries)

Clear Event Log Save

I. Monitor your server using SNMP

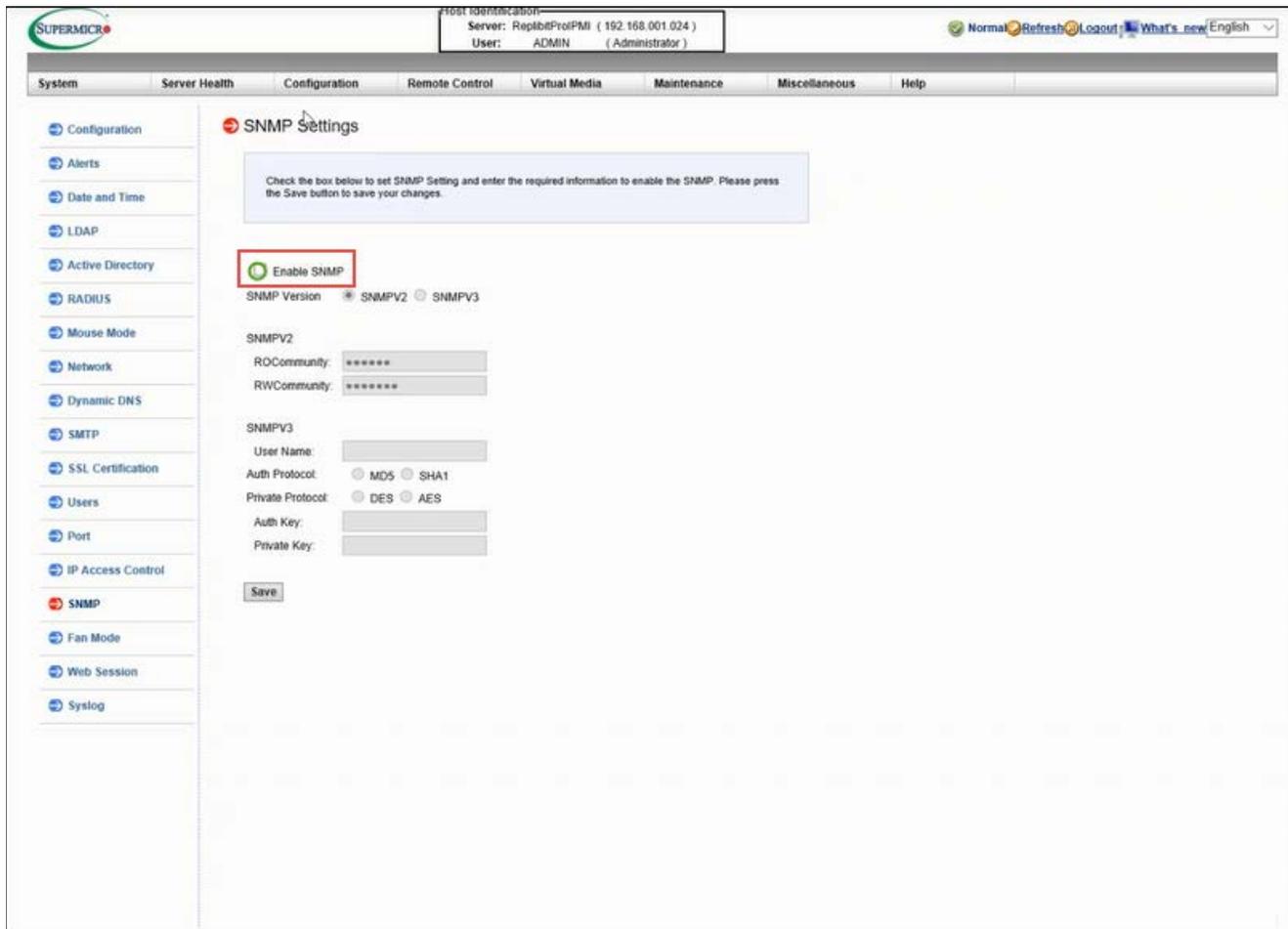
To monitor your server using the SNMP monitoring protocol, perform the following steps to enable this function:

1. From the *Sensor Reading* menu, click on the **Configuration** drop-down menu.
2. Select **SNMP**.



The *SNMP* screen appears.

- To enable SNMP monitoring, select the **Enable SNMP** radio button.

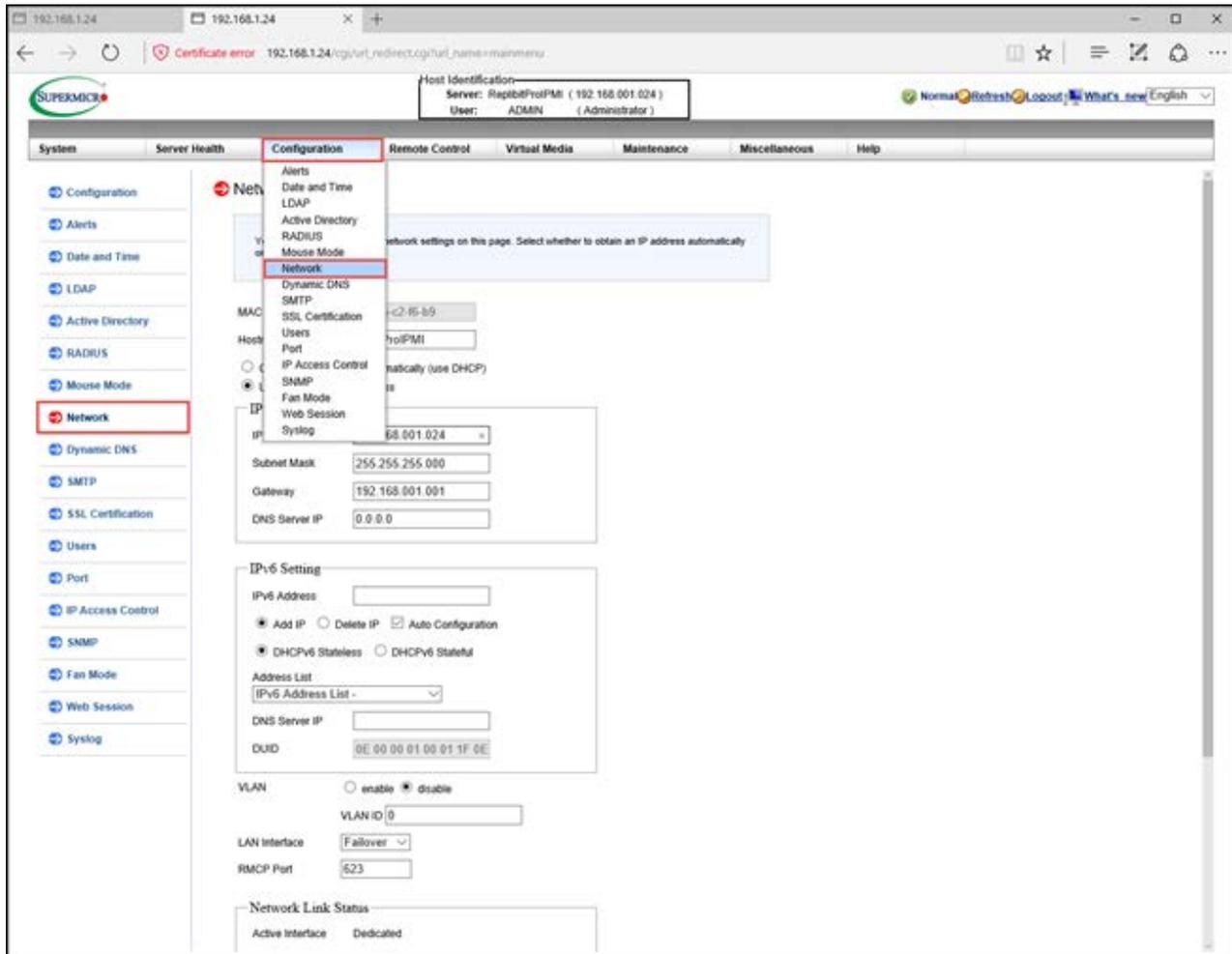


J. Change your network settings/IP Address

As mentioned earlier in this guide, your IP Address should be shipped to you *preconfigured* based on your order.

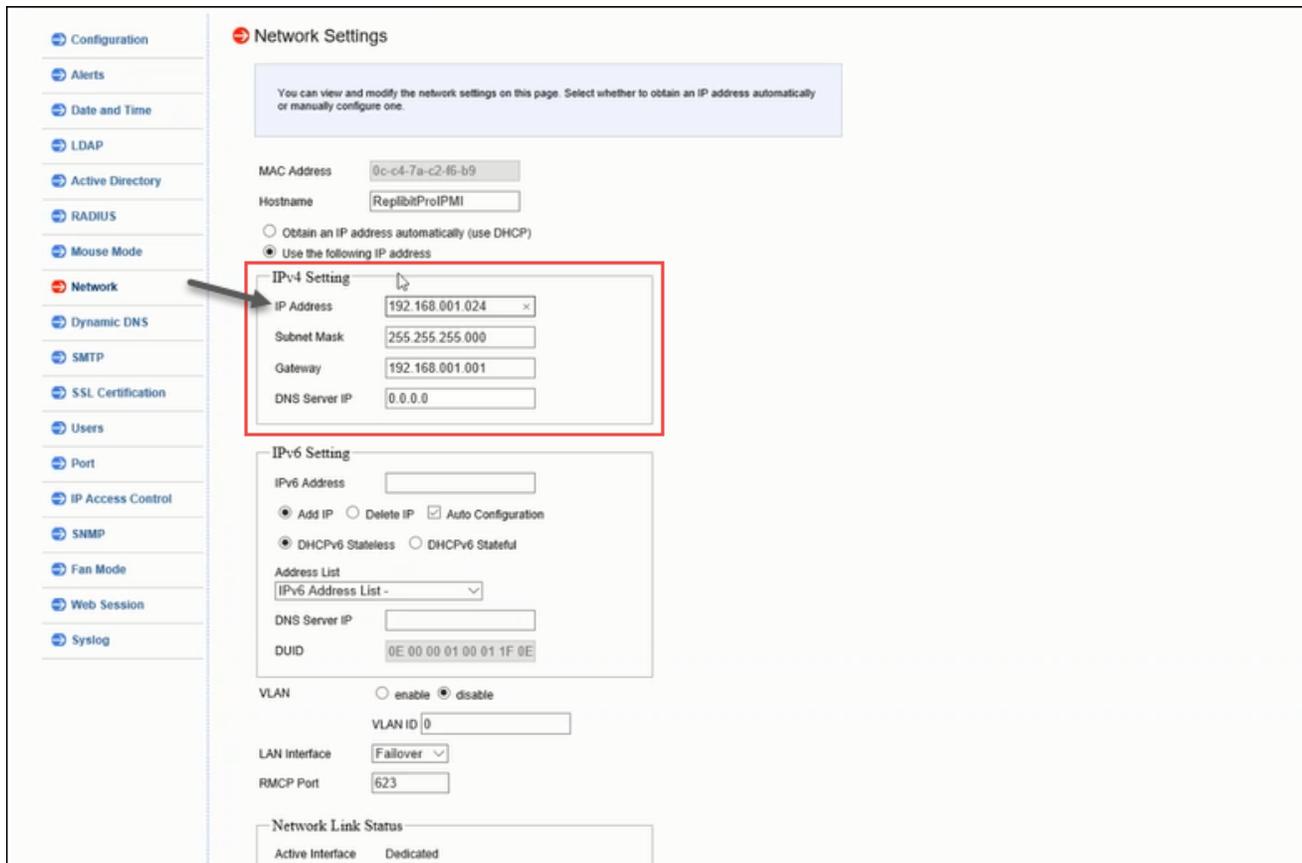
If you need to change the IP Address at a later date (which is typically *not* needed), perform the following steps:

1. From the *Network* menu, select the **Configuration** drop-down menu.
2. Select **Network**.



The *Network Settings* screen appears.

- From the *Use the following IP address* radio button, you can modify your IP Address in the *IPv4Settings* section.



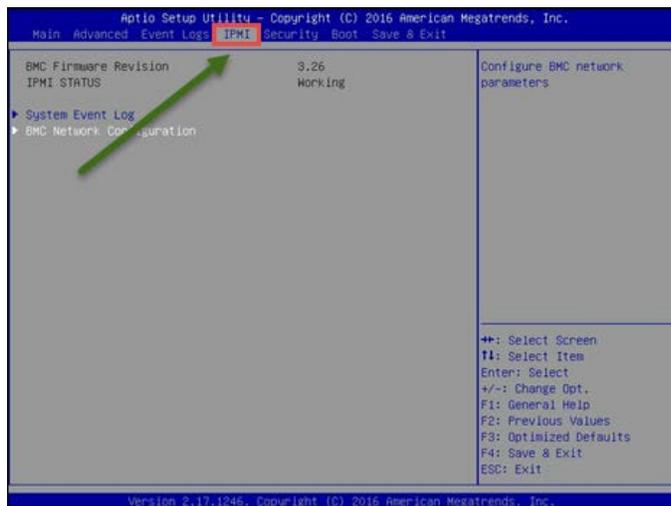
Note: Alternatively, you can configure IPMI Network settings from the **System BIOS**. For these steps, please proceed to the next Section, *"K. Setting the IPMI Address from the system BIOS."*

K. Setting the IPMI Address from the System BIOS

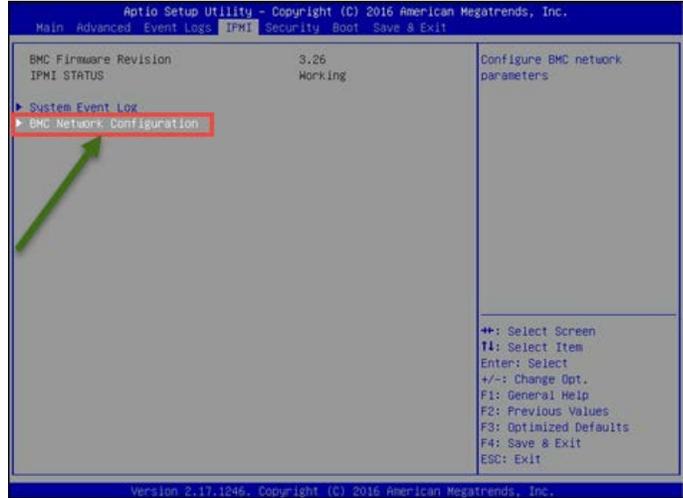
1. Power on the server.
2. Press when prompted to enter, *Setup*.



3. Using the left and right cursor keys, navigate to the top menu to *highlight the IPMI Tab*.

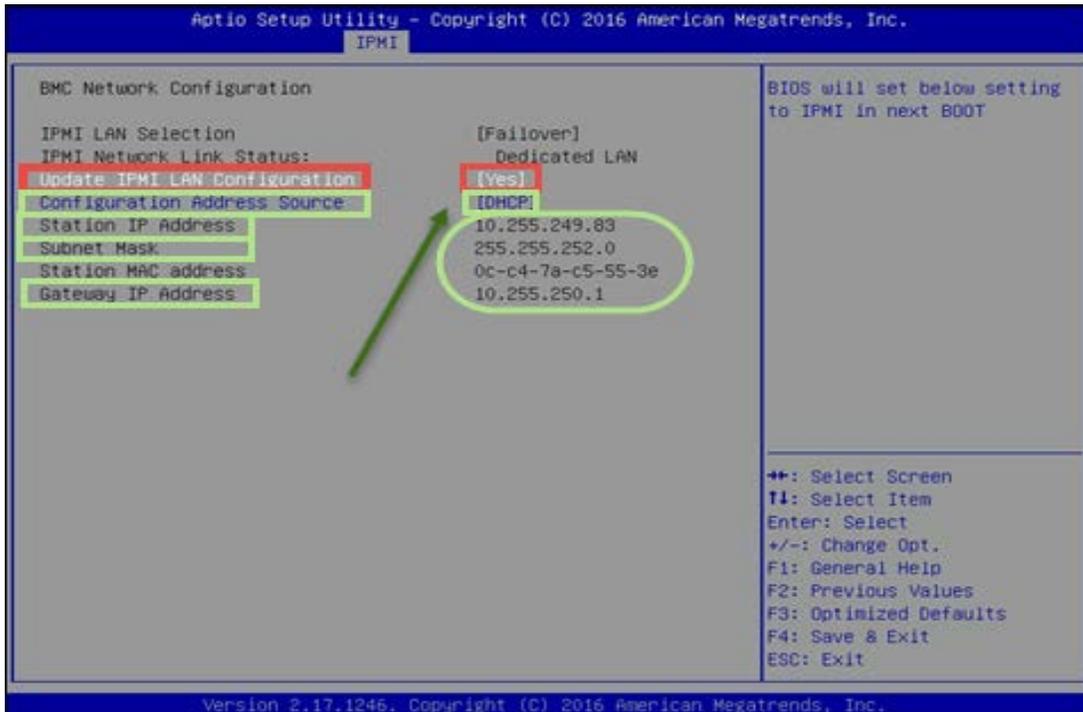


- Using the up and down cursor keys, highlight *BMC Network Configuration*.



- Press **Enter** to select the **Network Configuration** page.

- Also using the up and down cursor keys, highlight *Update LAN Configuration*.
- Press the **Space bar** to toggle the setting to *[YES]*.
- Use the Cursor keys to highlight *Configuration Address Source*.
- Press the **Space bar** to toggle between *[DHCP]* and *[STATIC]*.
- If you wish to set a static IP address:
 - change *Configuration Address Source* to **[Static]**,
 - Set the *Station IP address, Subnet Mask* (and (Optionally) *Gateway IP Address fields*).
 - Use the cursor keys to navigate the fields and **enter the IP address information** using the numeric keyboard.
- Press **<F10>** to save the configuration changes and exit the BIOS setup when finished.



For information on more detailed topics *not* covered in this *eFolder Replibit BDR IPMI Interface Quickstart Guide for the Pro Appliance*, please access the manufacturer's User's Guide (Revision 2.3b) using the following link:

http://supermicro.com/manuals/other/SMT_IPMI_Manual.pdf

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