

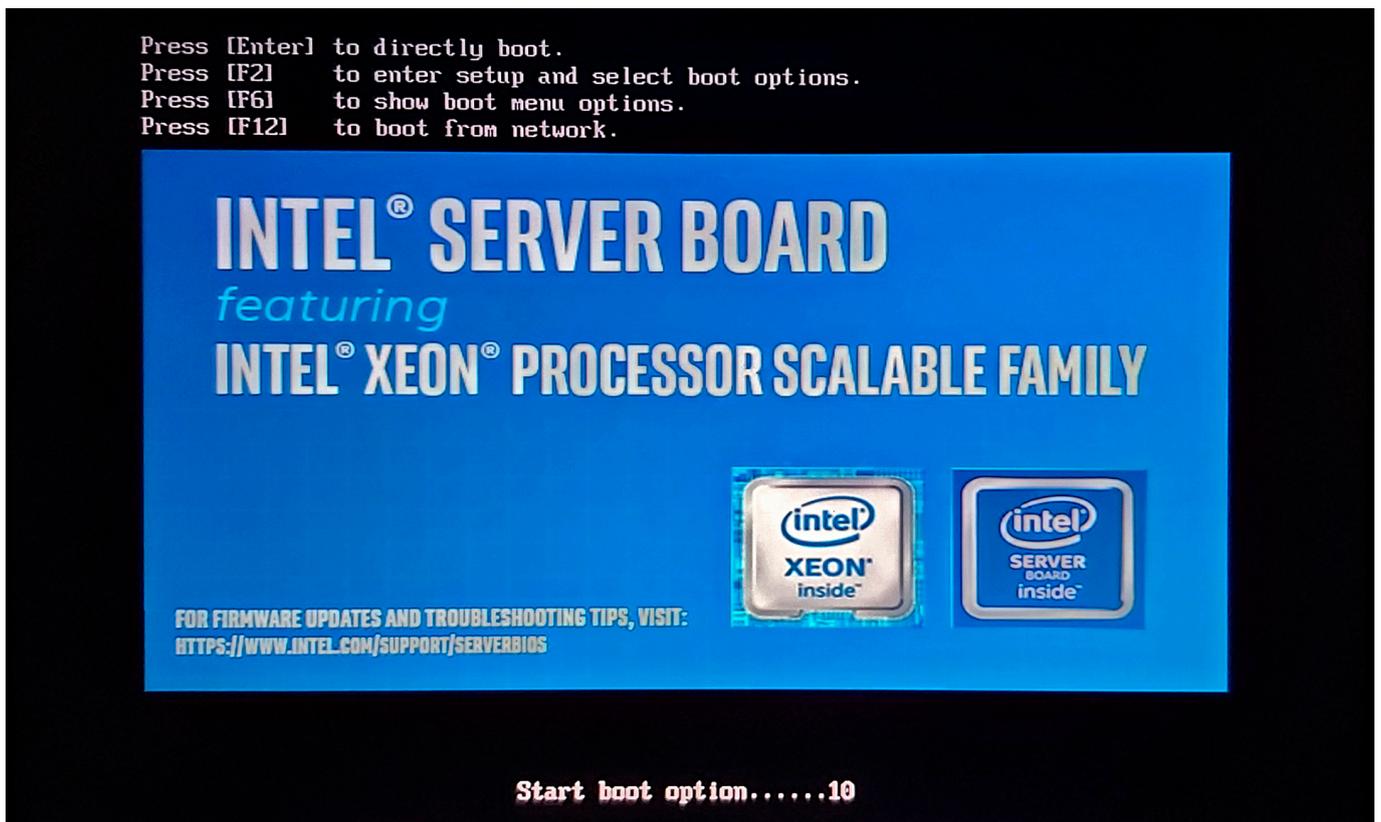
BMC Configuration

Oct 2019

The BMC allows for remote management of the G8 server from a Web based UI. The advantages over using SSH are that you get access to things like the BIOS, the Console and can even start the server if it has done a power down.

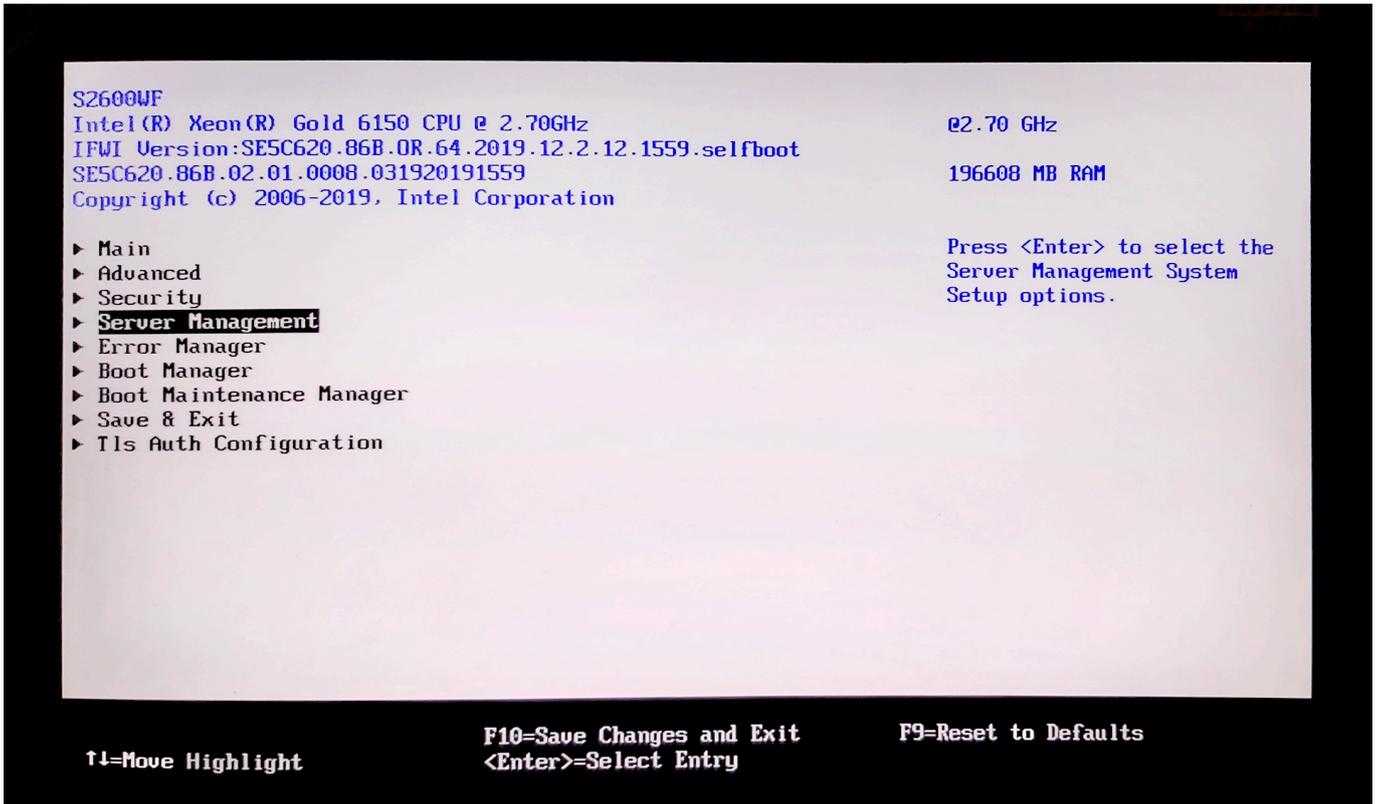
BMC Configuration

Turn on the server from cold, and wait for the Boot Options page:



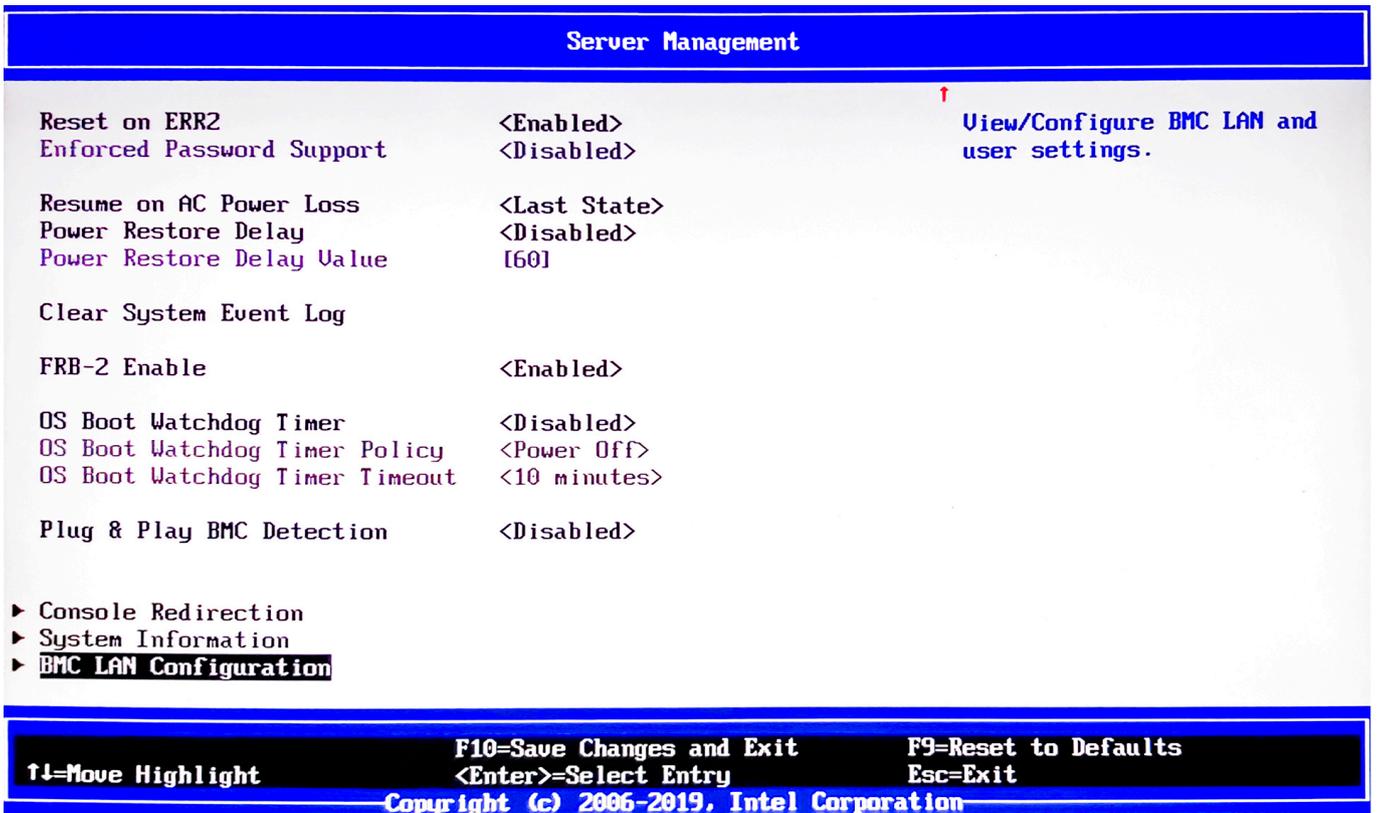
From this page select [F2] for the BIOS (you have to be quick, you only get about a second).

After a short time, you will see the initial BIOS page.



From this page, move down to and select [Server Management](#).

When the [Server Management](#) page is displayed, you must **scroll to the bottom** of this page.



From the **bottom** of the [Server Management](#) BIOS page, select [BMC LAN Configuration](#).

The BMC LAN Configuration page shows two sets of IP Settings. Baseboard LAN Configuration and [Dedicated Management LAN Configuration](#).

BMC LAN Configuration

▶ **User Configuration** View/Configure User information and settings of the BMC.

Baseboard LAN configuration

IP Source <Static>
 IP Address 0.0.0.0
 Subnet Mask 0.0.0.0
 Gateway IP 0.0.0.0

Baseboard LAN IPv6 configuration

IPv6 <Disabled>

Dedicated Management LAN Configuration

Remote Management Module <Present>
 IP Source <Static>
 IP Address 10.43.30.21
 Subnet Mask 255.255.255.0
 Gateway IP 10.43.30.254

Dedicated Management LAN IPv6 Configuration

Dedicated IPv6 <Disabled>

↓

↑↓=Move Highlight **F10=Save Changes and Exit** **F9=Reset to Defaults**
<Enter>=Select Entry **Esc=Exit**

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Configuration changed

Once the [User Configuration](#) page opens, you will see the following:

User Configuration

User ID anonymous View/Select user privilege. All users must be set to a privilege other than No Access and enabled for IPMI messaging before they can be used on any channel.
 Privilege <No Access>
 User Status <Disabled>
 User Password

User ID **User2**
 Privilege **<Administrator>**
 User Status <Enabled>
 User Name root
 User Password

User ID User3
 Privilege <No Access>
 User Status <Disabled>
 User Name -
 User Password -

User ID User4
 Privilege <No Access>
 User Status <Disabled>
 User Name -

↓

↑↓=Move Highlight **F10=Save Changes and Exit** **F9=Reset to Defaults**
<Enter>=Select Entry **Esc=Exit**

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Configuration changed

There are some pre-defined users - Anonymous, User2, User3 etc. I would avoid using Anonymous and configure [User2](#). This will mean that people will be less likely to guess your account details. In this example I have configured [User2](#) with the following settings.

```
User2
Privilege <Administrator> (assuming we need full access)
User Status <Enabled>
Username - root
```

User Password - envio

To finish the setup, press F10 (F10=Save Changes and Exit)

```

User Configuration
-----
User ID      anonymous
Privilege    <No Access>
User Status  <Disabled>
User Password

User ID      User2
Privilege    <Administrator>
User Status
User Name
User Password

User ID      <Disabled>
Privilege
User Status
User Name    -
User Password

User ID      User4
Privilege    <No Access>
User Status  <Disabled>
User Name    -

Save configuration changes and exit?
Press 'Y' to confirm, 'N'/'ESC' to ignore.

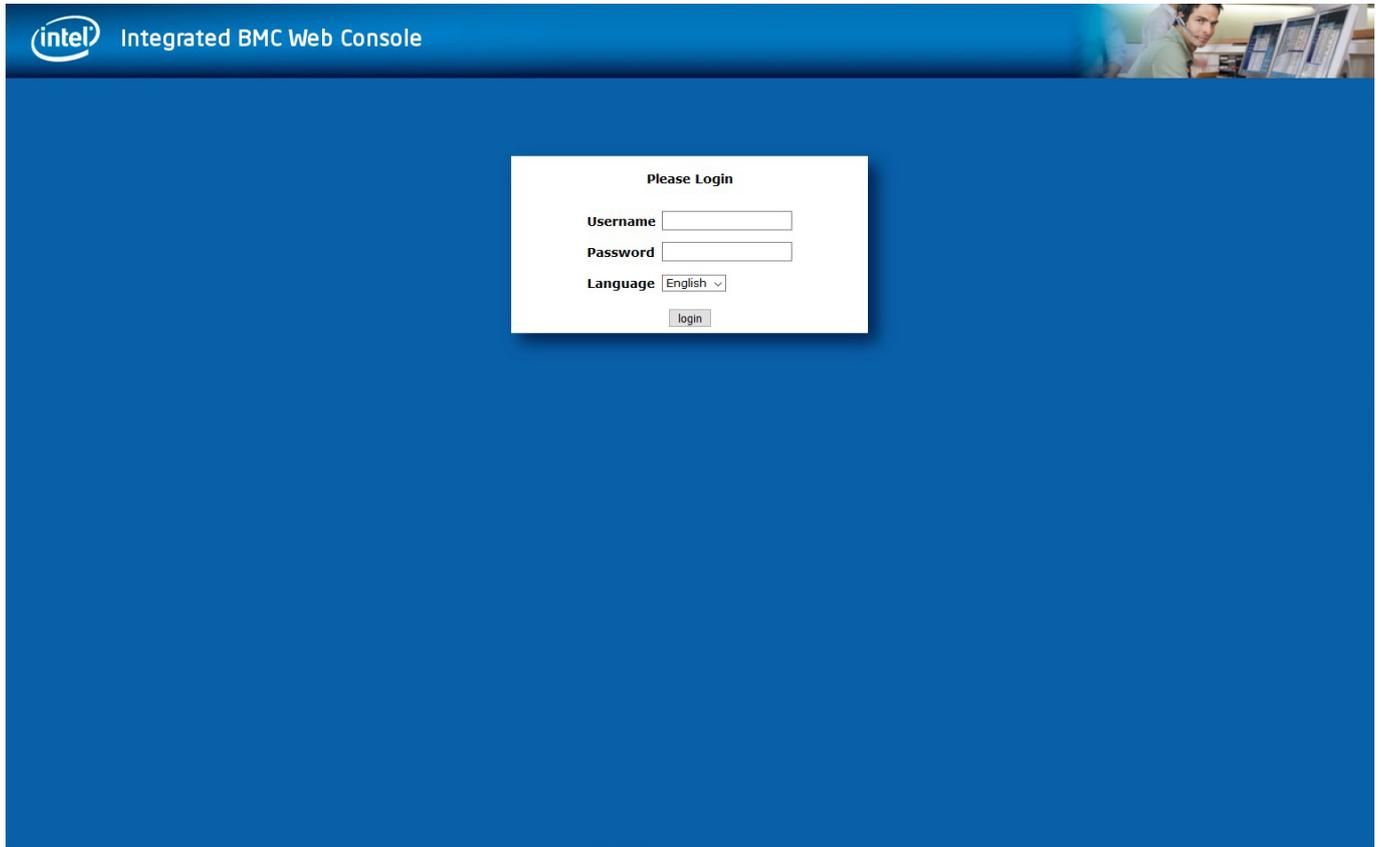
F10=Save Changes and Exit      F9=Reset to Defaults
↑↓=Move Highlight             <Enter>=Select Entry      Esc=Exit
Copyright (c) 2006-2019, Intel Corporation
Configuration changed

```

Press Y and the server will reboot.

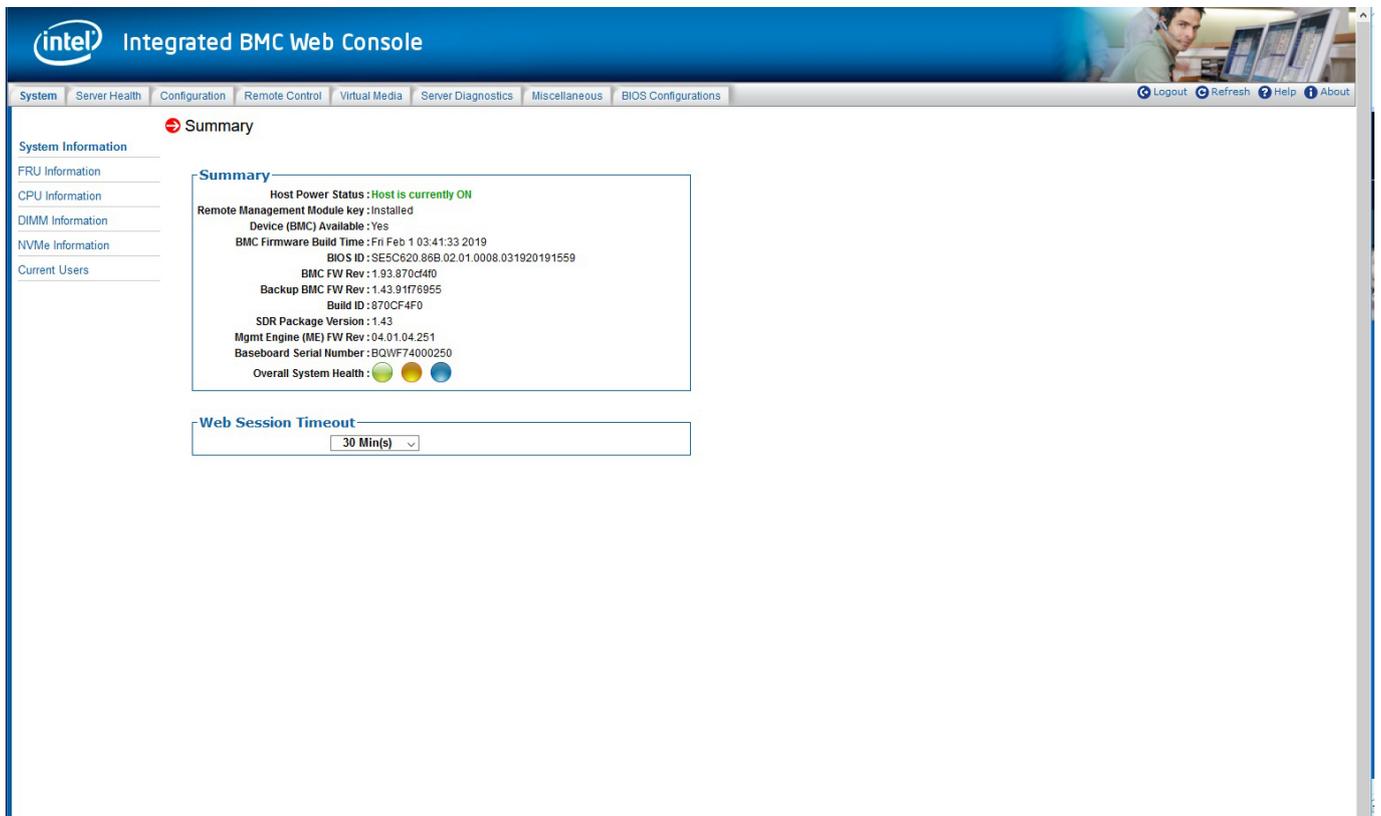
BMC Usage

Using a [Java enabled](#) web browser, navigate to the BMC address you have configured.



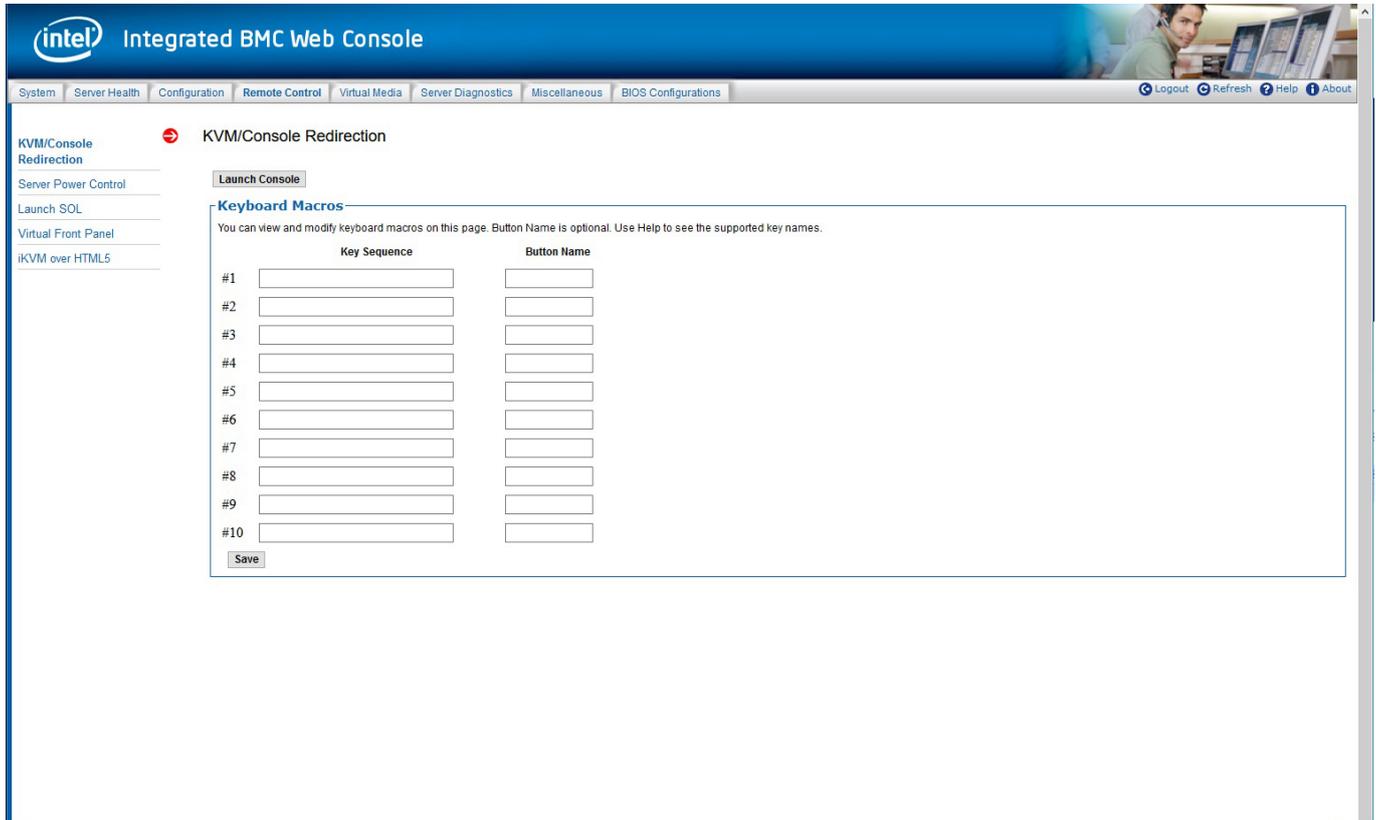
You will see a login page (you will have to go through a browser challenge to get here)

Enter the username/password you selected when configuring the BMC (root/envivio in this example)



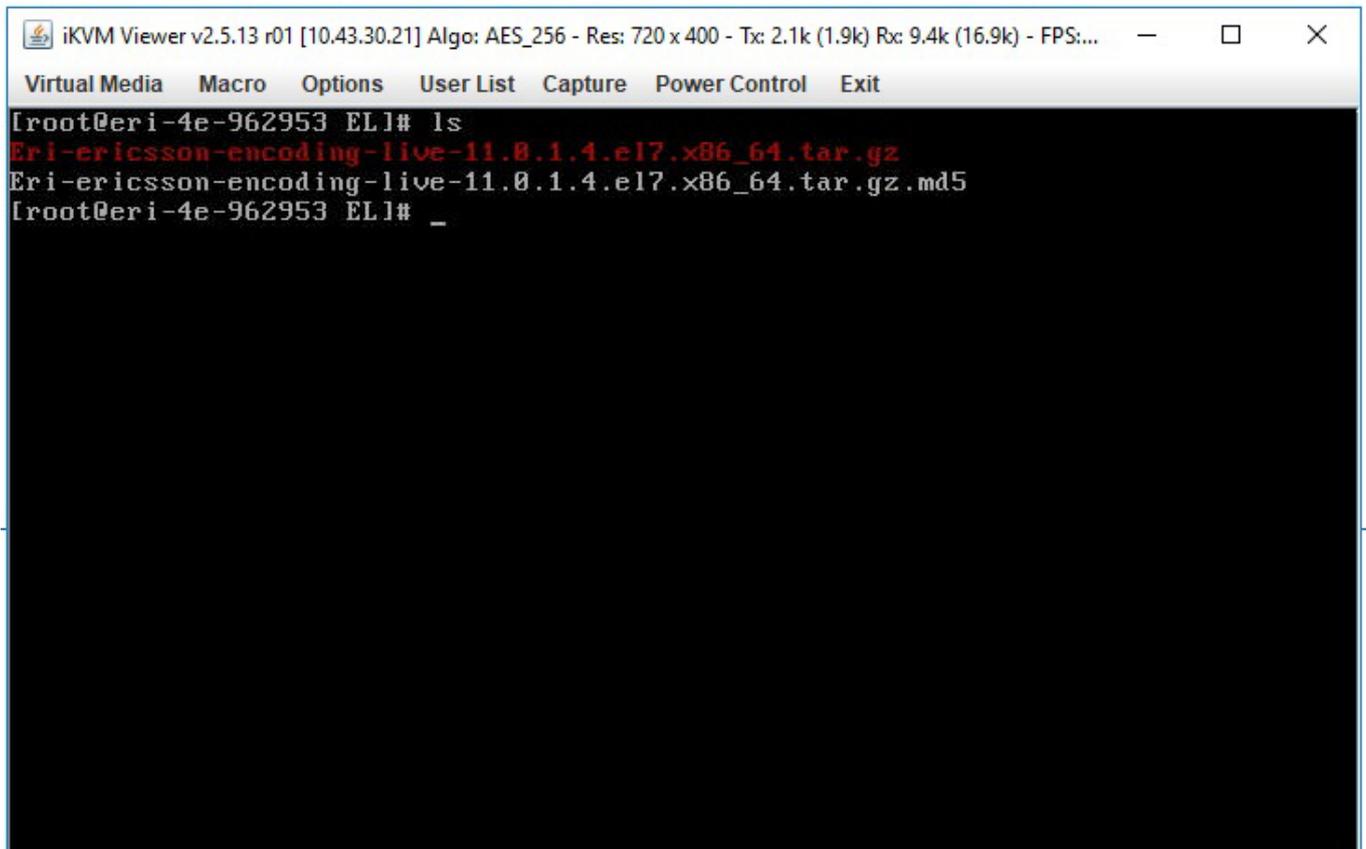
You can now navigate around the BMC options using just a web browser. For me one of the most useful features is on the [Remote Control](#) tab.

Click the [Remote Control](#) tab to bring up the following page.



Just under the title KVM/Console Redirection, click the [Launch Console](#) button.

Depending on your browser, you might get a window asking for login details, use the BMC login, not the OS login. If you don't get this window, you just have to login from the command prompt.



You can now use the console in the same way you use SSH, so this is really useful if the only available port to the G8 server is port 80 (ssh requires port 22 for example)

Diagnostic Example

When using the Web Console, there are many things you can do, one of these is to look at the server logs. Click on the second tab [Server Health](#).

Now click the [Event Log](#) entry on the left hand side.

The screenshot shows the Intel Integrated BMC Web Console interface. The 'Event Log' tab is active, displaying a list of 50 event entries. The events are categorized by severity (Critical) and sensor type (Memory). The descriptions indicate 'CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted'.

Event ID	Timestamp	Sensor Name	Controller	Severity	Sensor Type	Description
53189	Thu Oct 3 11:23:44 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53188	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53187	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53186	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53185	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53184	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53183	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53182	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53181	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53180	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted
53179	Thu Oct 3 11:23:43 2019	Mmry ECC Sensor	SMI Handler	Critical	Memory	CPU: 2, DIMM: E1 DIMM Rank: 0 - Uncorrectable ECC / other uncorrectable memory error - Asserted

I had a server that would not install any OS, and kept rebooting. The install errors made little sense, so the Even Log was checked by a colleague, and here we can see that is full of **CPU DIMM: E1** errors, indicating that this DIMM has developed a fault.

So if you have a server that is being troublesome, it is worth using the BMC to check for any errors.

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