We can go for diagnostics test on this so that we can check the sanity of the hardware installed on the server if that is responding fine or not.

Diagnostics image will perform all kind of stress tests and let us know if there is anything that is bad with the hardware or needs to be taken care of as well.

See below the ISO for the diagnostic :

<https://software.cisco.com/download/home/283853163/type/286123307/release/2.0(1a)>

Obtaining the Cisco UCS Blade Server Diagnostics ISO Image

Use the following steps to download the Cisco UCS Blade Server Diagnostics ISO image from the Cisco website.

Procedure

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Step 1

From your browser, navigate to the following URL: http:// [www.cisco.com/cisco/software/navigator.html<](http://www.cisco.com/cisco/software/navigator.html%3c) <http://www.cisco.com/cisco/software/navigator.html>>;.

Step 2

From the Downloads Home table, in the middle column, click Servers - Unified Computing.

Step 3

From the right column in the table, click Cisco UCS B-Series Blade Server Software.

Step 4

In the Select a Software Type list, choose Unified Computing System (UCS) Diagnostics.

The Download Software screen appears listing the release version and the ISO image for the Cisco UCS Blade Server Diagnostics tool.

Step 5

Click Download to download the ISO file.

Step 6

Verify the information on the next page, and then click Proceed With Download. If prompted, use your cisco.com credentials to log in.

Step 7

Continue through the screens to accept the license agreement and to browse to a location where you want to save the ISO file.

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Launching Cisco UCS Blade Server Diagnostics

The Cisco UCS Blade Server Diagnostics tool is a bootable image that is based on a 64-bit Linux kernel. You can load multiple instances of the ISO image on different blades and run the tests on multiple blades at the same time. The diagnostics tool provides both GUI and CLI interfaces for you to view the server inventory, run diagnostic tests, and view log files and test results. You can boot the image by using the Cisco UCS Manager KVM remotely using virtual media.

•       About KVM Console< <https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/ucs_diagnostics/b_UCS_Blade_Server_Diagnostics_User_Guide/getting_started_with_cisco_ucs_blade_server_diagnostics.html#concept_30010C2A3E114C33A71E7BC97118693E>>;

•       Using KVM Console< <https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/ucs_diagnostics/b_UCS_Blade_Server_Diagnostics_User_Guide/getting_started_with_cisco_ucs_blade_server_diagnostics.html#task_69F0B55442914BBEBAF7BF82E56E3926>>;

•       Exiting Cisco UCS Blade Server Diagnostics< <https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/ucs_diagnostics/b_UCS_Blade_Server_Diagnostics_User_Guide/getting_started_with_cisco_ucs_blade_server_diagnostics.html#task_BAF917ADF03D4A288E3587CAF80951EB>>;

•       Launching an ISO Image Using the USB Drive< <https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/ucs_diagnostics/b_UCS_Blade_Server_Diagnostics_User_Guide/getting_started_with_cisco_ucs_blade_server_diagnostics.html#task_BD90C38E3BCA41D1ABDCC69512196DAC>>;

About KVM Console

You can use Cisco Integrated Management Controller (CIMC) Console to launch the diagnostics tool with virtual media. KVM Console is an interface accessible from CIMC that emulates a direct keyboard, video, and mouse (KVM) connection to the server. KVM Console enables you to connect to the server from a remote location.

[ [https://www.cisco.com/c/dam/en/us/td/i/templates/note.gif]Note](https://www.cisco.com/c/dam/en/us/td/i/templates/note.gif%5dNote)

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KVM Console requires Java Runtime Environment (JRE) version 1.5.0 or higher. However, if you are using Cisco UCS Manager release 1.4, 2.0(1), and 2.0(2), make sure that you do not have JRE versions 1.6x or higher installed. JRE versions 1.7 and higher are only supported on Cisco UCS Manager releases 2.0(3) and higher.

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KVM Console has the following tabs:

•       KVM—Displays the diagnostics tool when it is booted.

•       Virtual media—Maps the following media to a virtual drive:

•       CD/DVD on your computer or your network

•       Disk image files (ISO or IMG files) on your computer or your network

•       USB flash drive on your computer

Using KVM Console

Before You Begin

•       Download the Cisco UCS Blade Server Diagnostics ISO image file from cisco.com. For information about how to download the image, see Obtaining the Cisco UCS Blade Server Diagnostics ISO Image< <https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/ucs_diagnostics/b_UCS_Blade_Server_Diagnostics_User_Guide/getting_started_with_cisco_ucs_blade_server_diagnostics.html#task_A374D61F151B4D79A94AB0DB953DED3F>>;.

•       To access KVM Console for booting the diagnostics tool, make sure that you have a service profile associated with the Cisco UCS Blade Server against which you want to run the tests.

Procedure

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Step 1

If you do not have access to the Cisco UCS Manager, perform the following steps. Otherwise skip to step 2.

a.        Log into the KVM Manager and choose the service profile that is associated to your Cisco UCS Blade Server.

b.       Launch KVM and provide your credentials.

c.        Skip to step 5.

Step 2

Log into Cisco UCS Manager and provide your credentials.

Step 3

Choose the Equipment > Chassis tab.

Step 4

Choose the Cisco UCS Blade Server.

Step 5

From the Action pane, click KVM Console.

Step 6

Click the Virtual Media tab (Tools tab for Cisco UCS 1.4 and earlier releases).

The Virtual Media tab appears.

Step 7

Click Add Image.

Step 8

Navigate to and choose the ISO file, and click Open.

Step 9

In the Client View section, check the check box in the Mapped column for the ISO file that you added and then wait for the mapping to complete.

KVM Console displays the progress in the Details section.

Step 10

Click the Reset button from your KVM Console to reboot your server.

Step 11

Press F6 when the server starts to select a boot device.

The Boot Selection menu appears. If you do not see the KVM mapped DVDoption, modify the Boot Policy to loose.

Note

Alternately, you can create a boot policy for the service profile. For more information about how to create a boot policy, see the Creating a Boot Policy< <https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/ucs_diagnostics/b_UCS_Blade_Server_Diagnostics_User_Guide/getting_started_with_cisco_ucs_blade_server_diagnostics.html#task_1F7624A2A07B48459AB57B9593D98E84>>; section in the Cisco UCS Manager GUI Configuration Guide, Release 2.1.

Step 12

Use the arrow keys to choose Cisco Virtual CD/DVD and then press Enter.

The server boots using the Cisco UCS Blade Server Diagnostics image and launches the application in the KVM tab.

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Exiting Cisco UCS Blade Server Diagnostics

Before You Begin

Before you exit the diagnostics tool, make sure that all your test are completed.

Procedure

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Step 1

Remove the .iso disk from the virtual media.

Step 2

Click Reset and then click Yes to confirm.

<https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/ucs_diagnostics/b_UCS_Blade_Server_Diagnostics_User_Guide/getting_started_with_cisco_ucs_blade_server_diagnostics.html>