

## Collecting logs using DSA Preboot

### Prerequisites:

- IBM X-Architecture compute node is installed in the chassis and is discovered
- Remote access to the compute node is established through the integrated management module (IMM).
- Ethernet connectivity with the CMM is established. A Hypertext Transfer Protocol Secure (HTTPS) web session with the CMM is active. Note that HTTPS is required.

### Steps:

1. On the Chassis Management Module (CMM) web interface, select Chassis Management, then select Compute Nodes.
2. Click on the box to left of the compute node to select it.
3. Select Actions, then select Launch Compute Node Console.
4. The Launch Compute Node Console page shows the details of the selected compute node. Click Launch. Note that log in credentials expire quickly and the opportunity to log in is taken away, replaced with the following message: Temporary login credentials have expired. If that happens, go back to step 3.
5. A new web session is started that brings you right into the IMM web session, bypassing the login screen.
6. If the web page happens to fail to load for the IMM, ensure that the CMM attempted to open the web page using https: instead of http:. If necessary, go back and edit the login to add the s to make it https.
7. On the IMM web interface, select System Status, then click Remote Control ...
8. Select either the ActiveX Client or Java Client.
9. Click Start Remote control in single user mode.
10. A video viewer window displays. If the compute node is powered off or the monitor is in the power saving state, the initial screen will be green background with the words No Signal.

11. To map a device on your local machine (like a USB key) to the compute node, select Tools on this video viewer, then select Launch Virtual Media. Select the device and then select Mount. This device is the place where the collected logs can be stored.
12. On the IMM web page, go back to System Status and click Power Actions to power on or reset the compute node so that it restarts.

Wait on the video viewer to see the Unified Extensible Firmware Interface (UEFI) splash screen (this is the first white background screen that appears after the System Initializing message when the compute node is restarted) . Press F2 while the video viewer window is the top window on your local machine. You should see the message “F2 pressed” on the splash screen. This process is detailed at the following link:

Information center (Internet):

[http://publib.boulder.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8737.doc/runnimg\\_dsa\\_preboot.html](http://publib.boulder.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8737.doc/runnimg_dsa_preboot.html)

From the installed documentation on the IBM Flex System Management Console, navigate to:

IBM Flex System information→Compute nodes→ x240 compute node→ Troubleshooting→ Diagnostic tools→ IBM Dynamic System Analysis→ Running DSA Preboot

13. The diagnostics load into a quick test window. Use the arrow keys to move to Quit and then Quit to DSA.
14. After DSA finishes loading, enter gui from the choices.
15. After the interface loads, you must select the “Accept the terms and conditions...” line to proceed. Note that you must use the mouse to make this selection. If the mouse on your local connection is not working to manipulate the remote session or you see two mice, go to the Tools and select Single Cursor. To exit this single cursor mode, press F12. If this does not work, exit this remote session and try again using either ActiveX or Java (the one that you did not select previously).
16. The GUI interface is now displayed. The Help test is useful in understanding the expected result of any selection. Select Collect logs and transfer.
17. You can collect the logs automatically or manually. Choose manual if you want to save the files to a local storage device.
18. Click Collect and wait for the collection to finish.
19. A file appears under the FileName column in the format of 8737AC1\_DSY0123\_20120327\_164841, which is *machinetype\_machineserial\_date\_time*.

20. To copy the file to media, click Save As... A Select the device menu lists all of the available storage devices. Select yours and click OK. Two types of files are saved: txt and xml.gz (compressed XML). Note that if you forgot to mount your device before you use the Launch Virtual Media option, you will need to go back to step 6 to mount the device.
21. The Information section will show the progress of the transfer and its success.
22. To view the drive on your local workstation, you must first use the virtual media tool from step 6, select your device, and click Unmount.
23. When you exit DSA, you are returned to the command line.

You can enter exit to completely exit DSA and restart the compute node.