RESTORING IFCB SSD IMAGE FOR LINUX ON ADLINK CPU

McLane Research Labs, Inc., proprietary
last revised 2-22-2023, TLF
BOM: N/A

** This procedure only applies to IFCB's that have a ADLink CPU installed. The majority of in-service IFCB's fall into this category. Pictured below is a ADLink CPU. One unique indicator to look for is the large aluminum heat sink mounted to the CPU.
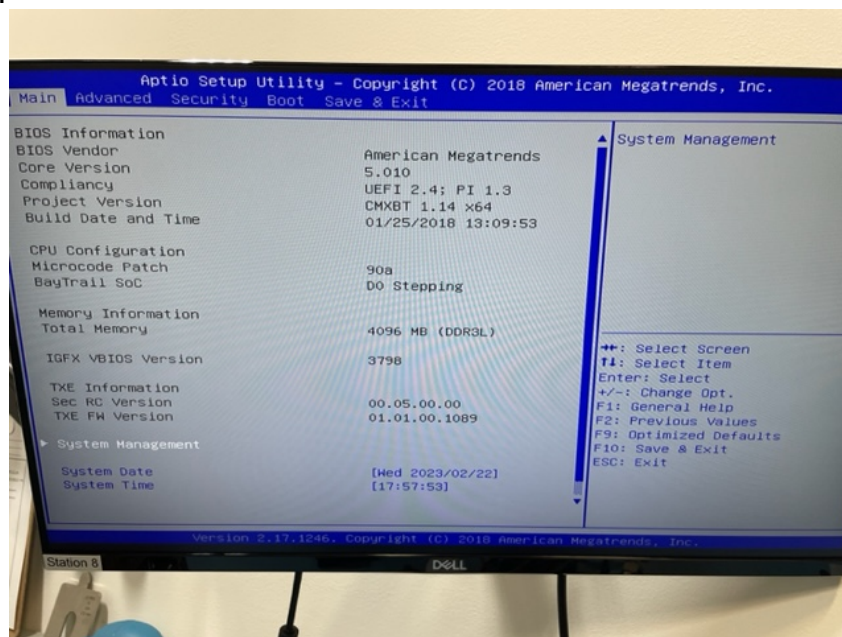

** Back up all IFCB data prior to proceeding. As part of this procedure, all information stored onboard the SSD will be deleted.
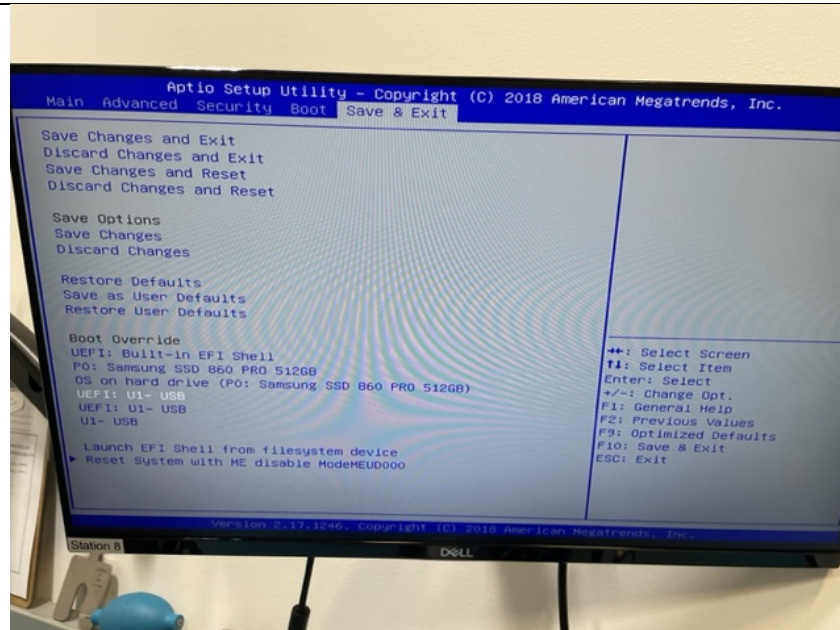
** After completing this procedure, the IFCB SSD will contain an image that utilizes a Linux operating system and the most recent version of IFCBacquire within the Linux OS.

1)Download the image file from the link below onto your personal workstation.
   a. https://ifcb.s3.amazonaws.com/ISO/IFCB_ADLINK_LINUX.IMG

2)Create a bootable USB drive which will be used to restore the IFCB SSD image.
   a. Any USB drive should work given it is a minimum of 4GB in size. Any data on this drive will be deleted as part of this process.
   b. Using an application like 'Rufus' or 'Etcher', flash the downloaded image to the USB drive.
      i. Rufus - https://rufus.ie/en/
      ii. Etcher - https://etcher.download/

3)Automated restore of the IFCB SSD (WARNING: This will delete all content stored on the IFCB SSD, back up your data!)
   a. With the IFCB powered off, plug in the newly created USB drive, keyboard & VGA monitor.
   b. Power up the IFCB and enter the BIOS setup utility by hitting the 'Delete' key repeatedly during boot up.

   c. Using the 'right-arrow' key, move to the last tab in the BIOS utility. 'Save & Exit'
   d. Within the 'Boot Override' section, select the entry corresponding to your USB drive AND with a UEFI label (UEFI: U1 – USB), press 'Enter'.

e. Wait for the restore process to complete. This may take up to 30 minutes. The OS will power off the system when complete.

f. Remove power from the IFCB. Remove the USB drive.

g. Power the IFCB back on.

h. Before using the IFCB, close IFCBacquire and perform the system customization steps below.

4) IFCB customization

a. Change the IFCB user password with the "passwd" command in terminal (xterm). The old password is "mclane". (We suggest using the serial number as the new password, MLXXXXX-XX).

b. Change the ROOT password by logging-in as root with the "su -" command in terminal and the "passwd" command. (We suggest using the serial number as the new password, MLXXXXX-XX).

c. Change the VNC password with the command "sudo x11vnc -storepasswd XXXXX /etc/x11vnc.pass" in terminal, where XXXXX is the new password. (We suggest using the serial number as the new password, MLXXXXX-XX).

d. Change the ImagerID entry in the settings file "/home/ifcb/IFCBacquire/Host/Settings.txt" to match your IFCB number.

e. Change the hostname by editing "/etc/hostname" with the command "sudo nano /etc/hostname" in Terminal. Replace "IFCB000" with "IFCBXXX" (where XXX is your IFCB number). Type Ctrl-X and Y.

f. Complete changing the hostname by editing "/etc/hosts" with the command "sudo nano /etc/hosts" in Terminal. Replace all occurrences of "IFCB000" with "IFCBXXX" (where XXX is your IFCB number). Type Ctrl-X and Y.

g. Power off IFCB

5) Set syringe zero position

a. With the IFCB powered off, manually drive the syringe to the zero position.

b. Power on IFCB

c. Launch the WebUI and utilize the 'set syringe zero' function located within the 'Fluids' tab.