Mounting a New Hard Drive on an rx2660 Itanium

Necessary Items

1. DB9 to DB9 serial, cross cable.
2. Laptop or other external terminal.
3. Terminal Emulator application (e.g., PuTTY).
4. Hard drive to be mounted.

Steps

1. With the Itanium machine powered down (but still plugged in), insert the new hard drive into an available slot.
2. Connect one end of the DB9 cable to the serial port labeled "Console" on the Itanium machine. Connect the other end of the DB9 cable to a serial COM port on your laptop.
3. Launch a PuTTY session and select the Serial radio button and then the appropriate COM port on your laptop.
4. Login to the machine. Username: Admin / Password: Admin.

```
COM1 - PuTTY

MP login:
MP password:


MP login: Admin
MP password: *****


          Hewlett-Packard Integrity Integrated Lights-Out 2

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                    MP Host Name: mp00226494f796

                        Revision F.02.25


**************************************************************************
                    MP ACCESS IS NOT SECURE
 Default MP users are currently configured and remote access is enabled.
 Modify default users' passwords or delete default users (see UC command)
                              OR
          Disable all types of remote access (see SA command)
**************************************************************************


  MP MAIN MENU:

         CO: Console
        VFP: Virtual Front Panel
         CM: Command Menu
      SMCLP: Server Management Command Line Protocol
         CL: Console Log
         SL: Show Event Logs
         HE: Main Help Menu
          X: Exit Connection

[mp00226494f796] MP> █
```

5. Power the machine up and type CO (for console). This may take a little while.

```
COM1 - PuTTY                                                    [ - ][ □ ][ X ]
                    EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                           /-------------------------------\
  /--------------------------------\      |          System Overview       |
  |          Boot Menu             |      |   hp server rx2660             |
  | WTCMVB VMS8.4                   |      | Serial #:   SGH51030VP         |
  | Internal Bootable DVD          |      |                                |
  | OpenVMS on DKA800: PKA0.5000...|      | System Firmware:  4.15 [5027]  |
  | iLO Virtual Media              |      | BMC Version:       5.26        |
  | Core LAN A                     |      | MP Version:        F.02.25     |
  | Core LAN B                     |      | Installed Memory: 8192 MB      |
  | EFI Shell [Built-in]           |      |                                |
  | -----------------------------  |      |  CPU  Logical                 |
  | Boot Configuration             |      | Module CPUs   Speed   Status   |
  | System Configuration           |      |    0    2    1.42 GHz Active    |
  | Security Configuration         |      |                                |
  |                                |      |                                |
  \--------------------------------/      |                                |
                                          |                                |
                                          |                                |
                                          \-------------------------------/

Use ^ and v to change option(s). Use Enter to select an option
Boot Configuration
```

6. Immediately navigate to the "Boot Configuration" line using the down arrow on your keyboard and press Enter (you have about 15 seconds).

```
  COM1 - PuTTY                                                    _  □  X
            EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                          /-------------------------------\
  /---------------------------------\    |          System Overview        |
  |           Boot Menu              |    |    hp server rx2660             |
  | WTCMVB VMS8.4                    |    | Serial #:   SGH51030VP          |
  | In/-----------------------\      |    |                                 |
  | Op|   Boot Configuration  |..    |    | System Firmware:   4.15 [5027]  |
  | iL| Boot From File         |      |    | BMC Version:        5.26        |
  | Co| Add Boot Entry         |      |    | MP Version:         F.02.25     |
  | Co| Edit Boot Entry        |      |    | Installed Memory: 8192 MB       |
  | EF| Remove Boot Entry      |      |    |                                 |
  | --| Edit OS Boot Order     |-     |    |  CPU  Logical                  |
  | Bo| AutoBoot Configuration |      |    | Module CPUs   Speed  Status     |
  | Sy| BootNext Configuration |      |    |    0     2   1.42 GHz Active    |
  | Se| --------------------   |      |    |                                 |
  |    | Driver Configuration  |      |    |                                 |
  \---| Console Configuration  |---/  |    |                                 |
      | --------------------   |      |    |                                 |
      |v                        |      |    |                                 |
      \-------------------------/    \-------------------------------/

Use <^|v> to scroll     <ENTER> to Select     <ESC> or <X/x> for Previous Menu
Add Boot Entry
```
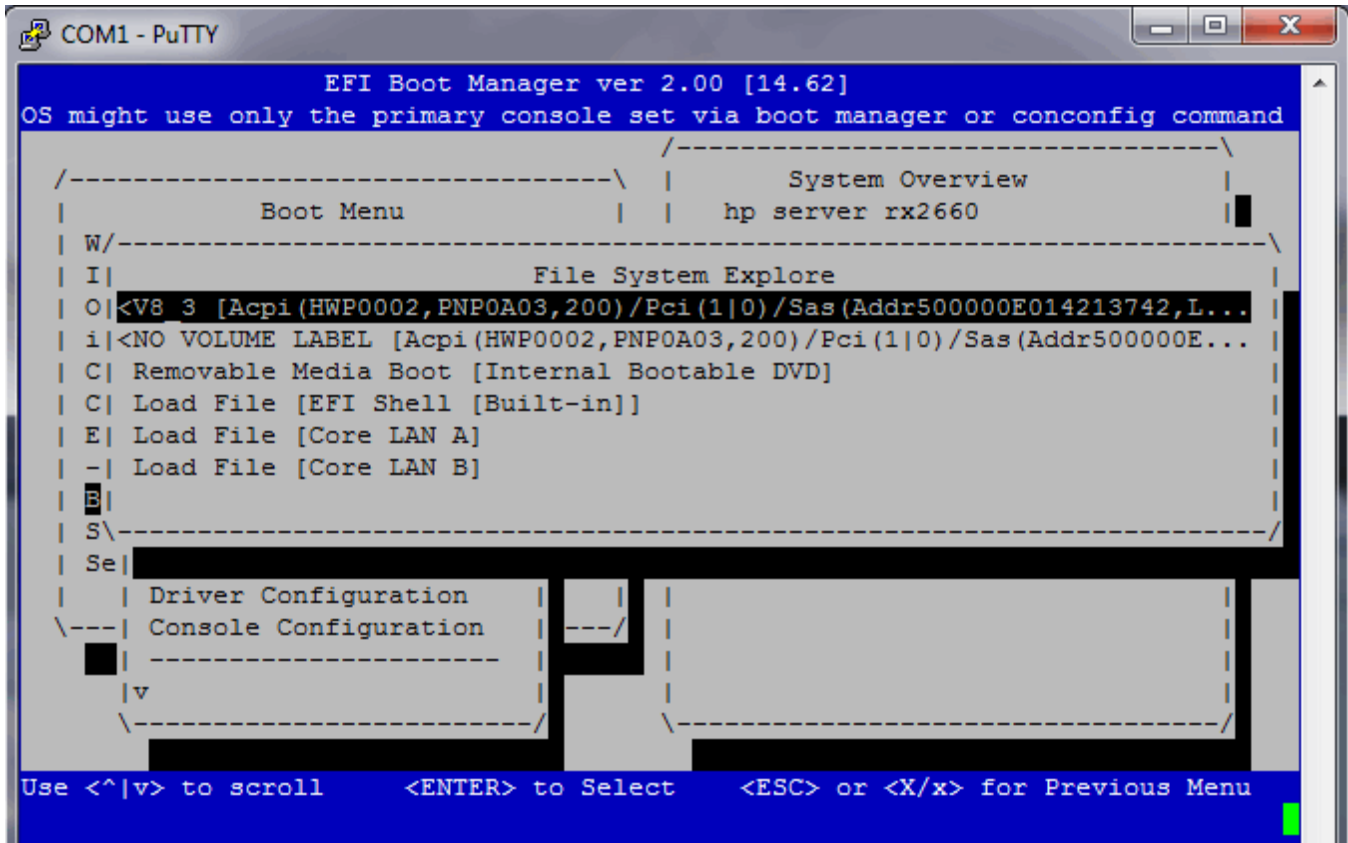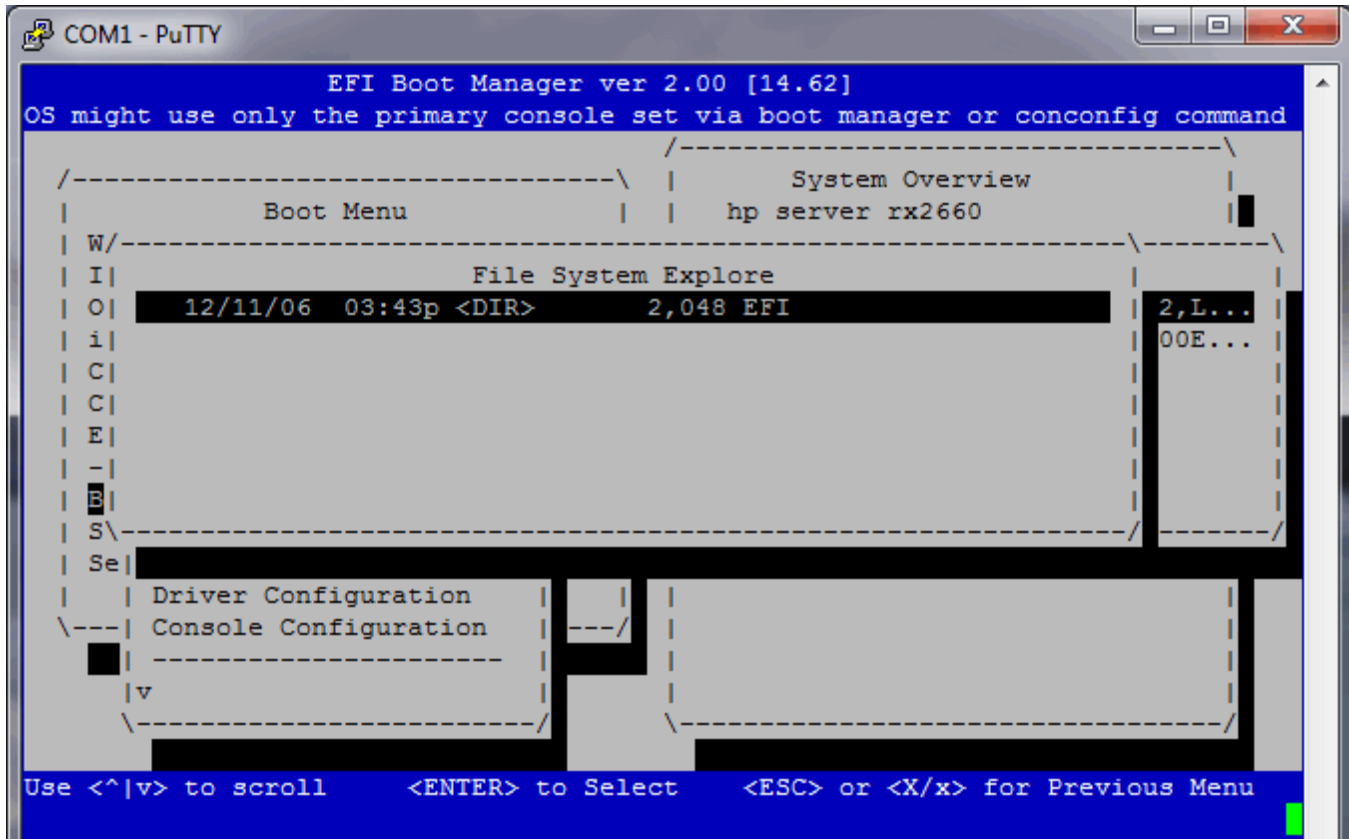
7. In the dialog box, navigate to "Add Boot Entry" and press Enter. A message will display while the machine searches for a bootable device (this should take less than 30 seconds).

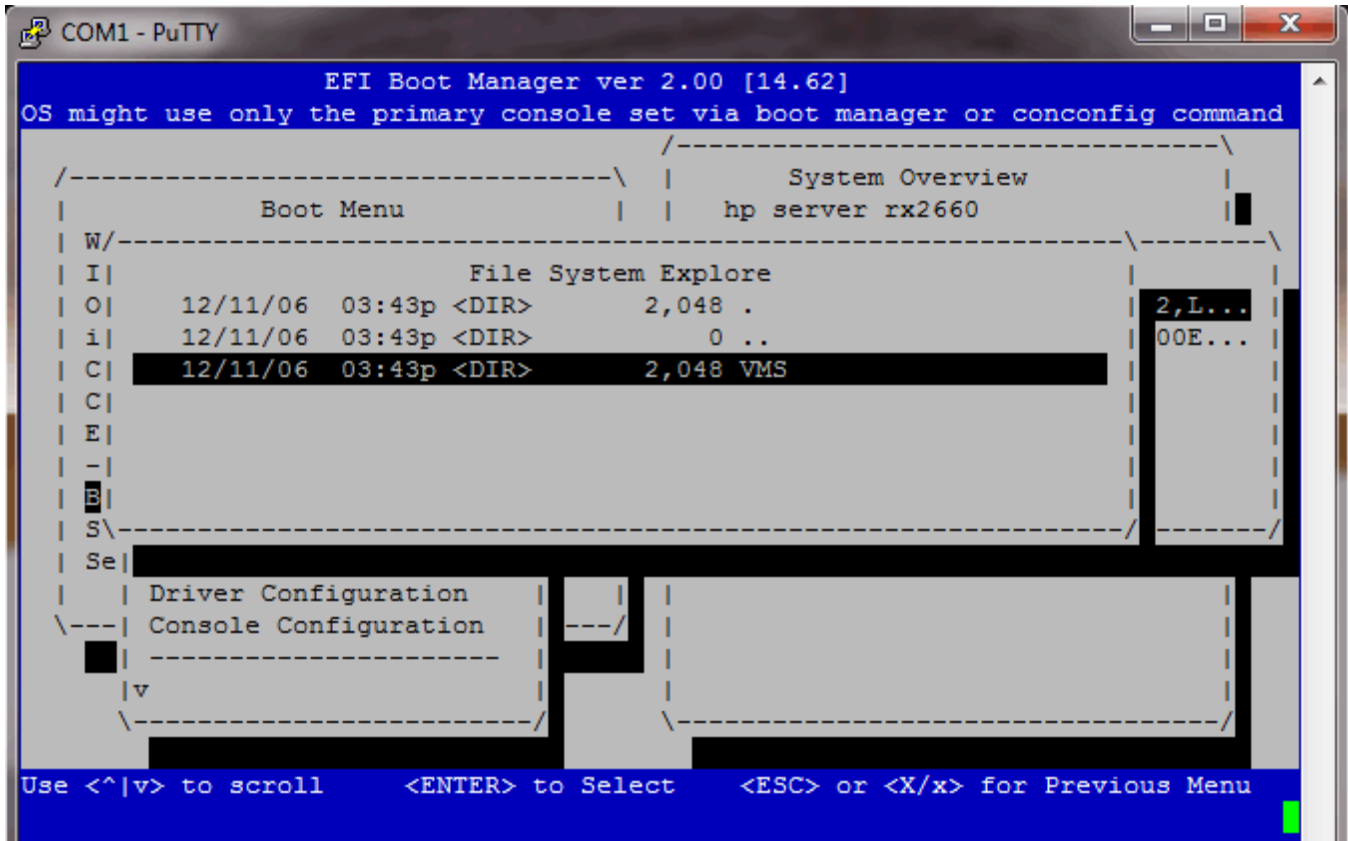8.   Navigate to the proper device (typically the top entry) and press Enter.

9. There is no option on this step, you must select EFI. Press Enter again and wait for the screen to refresh.

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```
COM1 - PuTTY
                EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                          /-------------------------------\
    /-----------------------------\ |  |          System Overview        |
    |        Boot Menu            | |  |        hp server rx2660          |
 |  W/--------------------------------------------------------\--------\
 |  I|              File System Explore                       |        |
 |  O|    12/11/06  03:43p <DIR>         2,048 .              | 2,L... |
 |  i|    12/11/06  03:43p <DIR>             0 ..             | 00E... |
 |  C|    12/11/06  03:43p <DIR>         2,048 VMS            |        |
 |  C|                                                        |        |
 |  E|                                                        |        |
 |  -|                                                        |        |
 |  B|                                                        |        |
 |  S\--------------------------------------------------------/--------/
 |  Se|
 |    | Driver Configuration    | |  |
 \---| Console Configuration    | |--/  |
     |  --------------------     |      |
     |v                          |      |
     \---------------------------/      \--------------------------------/

Use <^|v> to scroll     <ENTER> to Select     <ESC> or <X/x> for Previous Menu
```

10. Navigate to the "VMS" line and press Enter.

```
COM1 - PuTTY                                                    _  □  X

                    EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                          /--------------------------------\
  /--------------------------------\ |  |        System Overview         |
  |            Boot Menu           | |  |       hp server rx2660         ||
  | W/-----------------------------------------------------------\--------\
  | I|^                 File System Explore                       |        |
  | O|    12/11/06  03:43p <DIR>       2,048 ..                   | 2,L... |
  | i|    12/11/06  03:43p <DIR>       2,048 UPDATE               | 00E... |
  | C|    12/11/06  03:44p <DIR>       2,048 TOOLS                |        |
  | C|    04/14/08  11:26p          300,544 VMS_SET.EFI           |        |
  | E|    04/14/08  11:26p          326,656 VMS_BCFG.EFI          |        |
  | -|    04/14/08  11:26p        1,213,952 VMS_LOADER.EFI        |        |
  | E|v                                                           |        |
  | S\-----------------------------------------------------------/-------/
  | Se|
  |     | Driver Configuration   |   |  |                                 |
  \---| Console Configuration   | ---/  |                                 |
   E|  -------------------      |       |                                 |
    |v                          |       |                                 |
     \-------------------------/        \--------------------------------/

Use <^|v> to scroll     <ENTER> to Select     <ESC> or <X/x> for Previous Menu
VMS_LOADER.EFI
```
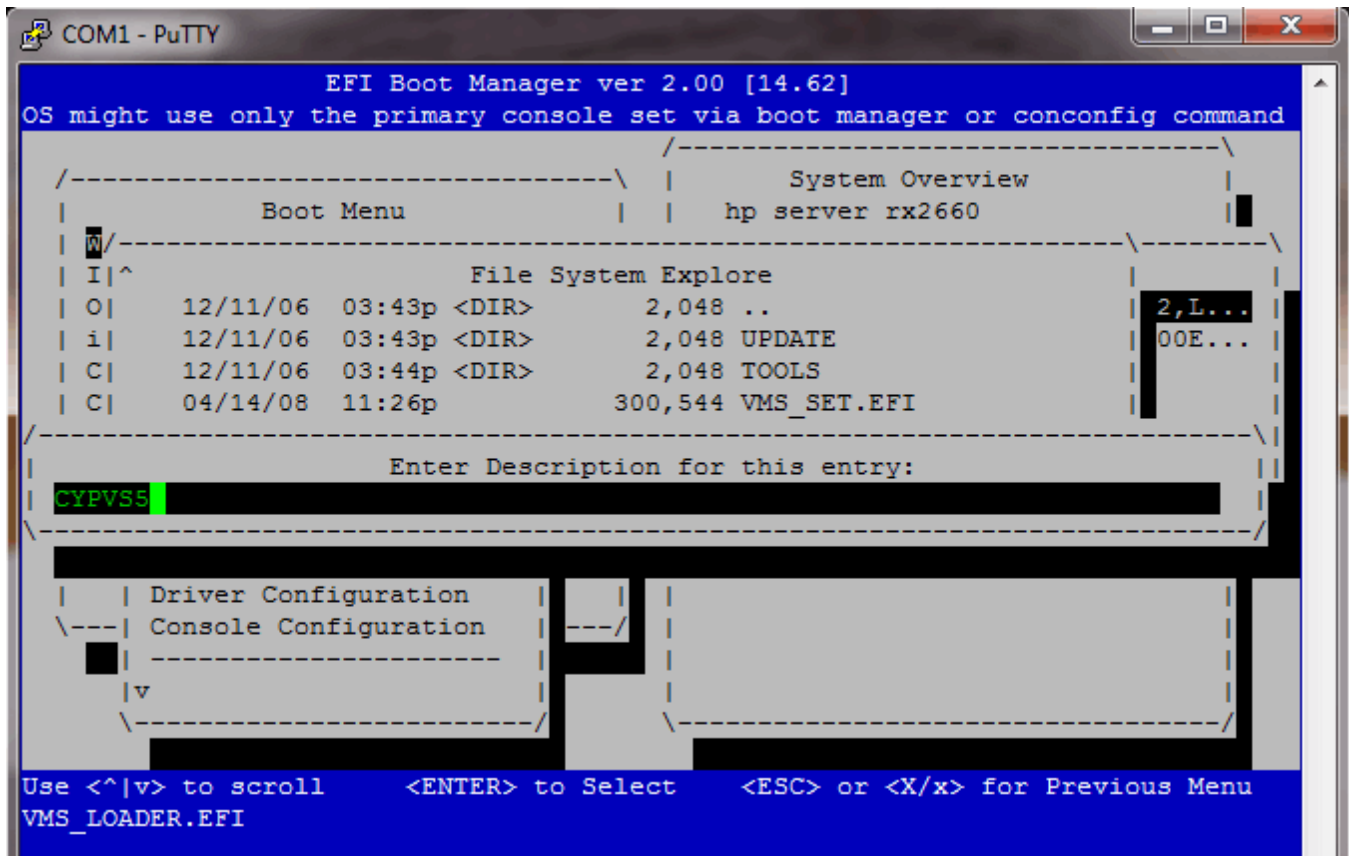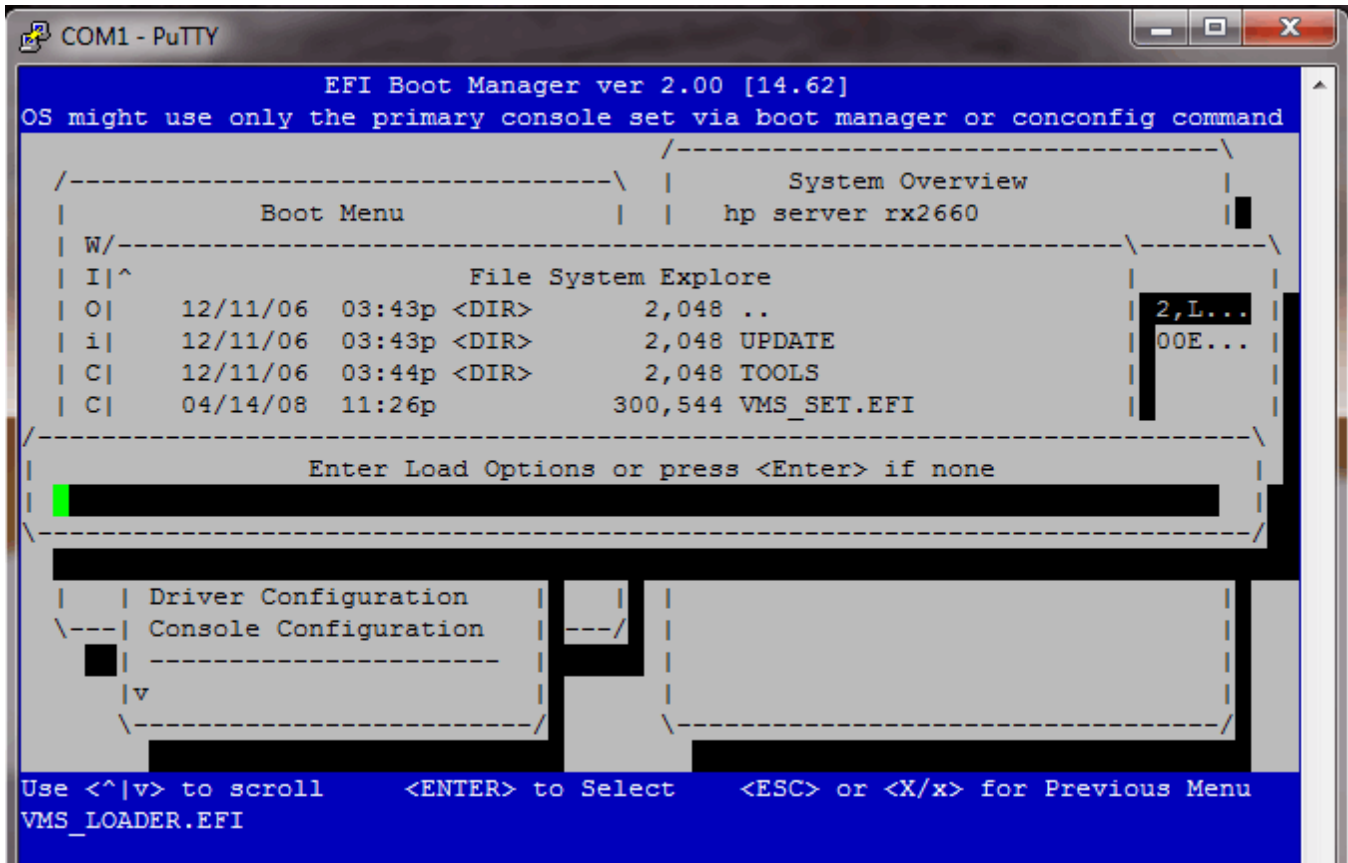
11. Navigate down to the line that reads "VMS_LOADER.EFI" (this may be down a page) and press Enter.

```
COM1 - PuTTY
                    EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                           /-------------------------------\
       /--------------------------------\  |        System Overview         |
       |            Boot Menu            |  |       hp server rx2660         |
     | W/--------------------------------------------------------\---------\
     | I|^                 File System Explore                    |         |
     | O|    12/11/06  03:43p <DIR>       2,048 ..                | 2,L...  |
     | i|    12/11/06  03:43p <DIR>       2,048 UPDATE            | 00E...  |
     | C|    12/11/06  03:44p <DIR>       2,048 TOOLS             |         |
     | C|    04/14/08  11:26p          300,544 VMS_SET.EFI        |         |
    /-----------------------------------------------------------------\|
    |              Enter Description for this entry:                    ||
    | CYPVS5                                                           |
    \-----------------------------------------------------------------/
       |   | Driver Configuration   |    |  |                          |
       \---| Console Configuration  |----/  |                          |
        |  | --------------------    |       |                          |
        |v                           |       |                          |
        \---------------------------/        \--------------------------/
Use <^|v> to scroll     <ENTER> to Select     <ESC> or <X/x> for Previous Menu
VMS_LOADER.EFI
```

12. Enter a description for the hard drive (e.g., CYPVS5).

```
COM1 - PuTTY                                                    [_] [□] [X]
                    EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command

                                        /-------------------------------\
      /------------------------------\  |        System Overview        |
      |         Boot Menu          |  |  |      hp server rx2660        |
   |  W/--------------------------------------------------------\---------\
   |  I|^                 File System Explore                    |        |
   |  O|     12/11/06  03:43p <DIR>       2,048 ..              | 2,L... |
   |  i|     12/11/06  03:43p <DIR>       2,048 UPDATE          | 00E... |
   |  C|     12/11/06  03:44p <DIR>       2,048 TOOLS           |        |
   |  C|     04/14/08  11:26p         300,544 VMS_SET.EFI       |        |
   /-------------------------------------------------------------------\
   |           Enter Load Options or press <Enter> if none             |
   |                                                                   |
   \-------------------------------------------------------------------/

      |   | Driver Configuration    |    |  |                          |
      \---| Console Configuration   | ---/  |                          |
         |  ---------------------   |       |                          |
         |v                         |       |                          |
         \--------------------------/       \--------------------------/

Use <^|v> to scroll     <ENTER> to Select    <ESC> or <X/x> for Previous Menu
VMS_LOADER.EFI
```
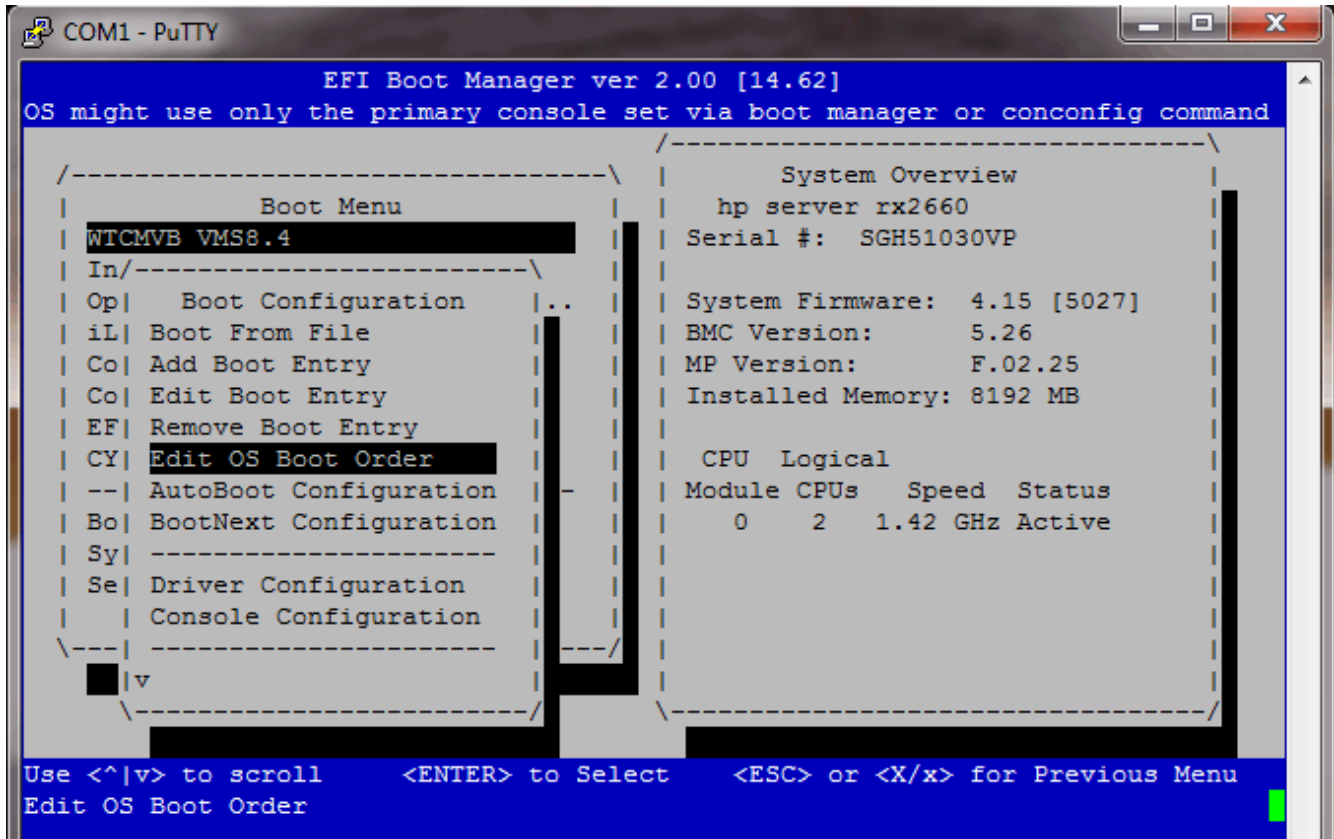
13. On the next screen, leave the Load Options blank and press Enter.

```
COM1 - PuTTY                                                    _  □  X
                    EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                          /-------------------------------------\
      /-----------------------------------\  |          System Overview          |
      |          Boot Menu                |  |        hp server rx2660           |
      | W/-----------------------------------------------------------\  |  |-\
      | I|^              File System Explore                          |  |  |
      | O|     12/11/06  03:43p <DIR>          2,048 ..               |  |  |
      | i|     12/11/06  03:43p <DIR>          2,048 UPDATE           |  |  |
      | C|     12/11/06  03:44p <DIR>          2,048 TOOLS            |  |  |
      | C|     04/14/08  11:26p            300,544 VMS_SET.EFI        |  |  |
      | E|     04/14/08  11:26p/----------------------\G.EFI          |  |  |
      | -|     04/14/08  11:26p| Save changes to NVRAM? |DER.EFI       |  |  |
      | B|v                    |        [Y/N]?         |              |  |
      | S\--------------------\----------------------/--------------------/  |
      | Se|                                                                  |
      |   | Driver Configuration   |  |  |                                  |
      \---| Console Configuration  |  |---/  |                               |
      █ |  ----------------------  |      |                                 |
        |v                         |      |                                 |
        \--------------------------/      \---------------------------------/
Use <^|v> to scroll     <ENTER> to Select      <ESC> or <X/x> for Previous Menu
VMS_LOADER.EFI
```

14. Type "Y" at the "Save changes to NVRAM?" prompt.

```
                     EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                    /-------------------------------\
  /-----------------------------------\   |           System Overview          |
  |              Boot Menu            |   |     hp server rx2660                |
  | WTCMVB VMS8.4                     |   |   Serial #:  SGH51030VP            |
  | In/-----------------------\       |   |                                    |
  | Op|  Boot Configuration    |..    |   | System Firmware:   4.15 [5027]     |
  | iL| Boot From File         |       |   | BMC Version:         5.26          |
  | Co| Add Boot Entry         |       |   | MP Version:         F.02.25       |
  | Co| Edit Boot Entry        |       |   | Installed Memory: 8192 MB         |
  | EF| Remove Boot Entry      |       |   |                                    |
  | CY| Edit OS Boot Order     |       |   |  CPU  Logical                     |
  | --| AutoBoot Configuration |  -    |   | Module CPUs    Speed  Status      |
  | Bo| BootNext Configuration |       |   |    0    2   1.42 GHz Active        |
  | Sy| ---------------------  |       |   |                                    |
  | Se| Driver Configuration   |       |   |                                    |
  |   | Console Configuration  |       |   |                                    |
  \---| --------------------- |  |---/  |                                    |
      |  |v                            |                                    |
       \-------------------------/       \------------------------------------/

Use <^|v> to scroll    <ENTER> to Select    <ESC> or <X/x> for Previous Menu
Edit OS Boot Order
```

15. When the screen refreshes, navigate to "Edit OS Boot Order" and press Enter.

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```
COM1 - PuTTY
                    EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                          /-------------------------------\
    /------------------------------\  |  |        System Overview         |
    |          Boot Menu           |  |  |     hp server rx2660           |
    | WTCMVB VMS8.4                 |  |  | Serial #:   SGH51030VP         |
    | In/-----------------------\  |  |  |                                |
    | Op|   Boot Configuration   |..|  |  | System Firmware:  4.15 [5027]  |
    | iL| Boot From File         |  |  |  | BMC Version:        5.26       |
    | Co| Ad/----------------------------------------------\  F.02.25      |
    | Co| Ed|              Edit OS Boot Order              |: 8192 MB      |
    | EF| Re| WTCMVB VMS8.4                                |               |
    | CY| Ed| Internal Bootable DVD                        |               |
    | --| Au| OpenVMS on DKA800: PKA0.5000-C500-4738-C649  | ed  Status    |
    | Bo| Bo| iLO Virtual Media                            | GHz Active    |
    | Sy| --| Core LAN A                                   |               |
    | Se| Dr| Core LAN B                                   |               |
    |   | Co| EFI Shell [Built-in]                         |               |
    \---| --| CYPVS5                                       |               |
       |v  |                                               |               |
       \---\----------------------------------------------/---------------/
Use <^|v> to scroll    <ENTER> to Select    <ESC> or <X/x> for Previous Menu
Use <^|v> to move option  <ENTER> to select position  <ESC> to Exit
```

16. Navigate to the drive description from before (e.g., CYPVS5) and press Enter. This will change the color of the entry. Now, using the arrow keys on your keyboard, move that selection to the top.

```
COM1 - PuTTY                                                    _  □  X

              EFI Boot Manager ver 2.00 [14.62]
OS might use only the primary console set via boot manager or conconfig command
                                   /------------------------------\
 /------------------------------\  |        System Overview        |
 |         Boot Menu           |  |  |   hp server rx2660           |
 | WTCMVB VMS8.4               |  |  | Serial #:  SGH51030VP        |
 | In/------------------------\|  |  |                              |
 | Op|   Boot Configuration   |..|  | System Firmware:  4.15 [5027]|
 | iL| Boot From File        |■ |  | BMC Version:        5.26      |
 | Co| Ad/----------------------------------------\  F.02.25       |
 | Co| Ed|        Edit OS Boot Order            |: 8192 MB        |
 | EF| Re| CYPVS5                               |                  |
 | CY| Ed| WTCMVB VMS8.4                        |                  |
 | --| Au| Internal Bootable DVD               |ed  Status        |
 | Bo| Bo| OpenVMS on DKA800: PKA0.5000-C500-4738-C649 |GHz Active|
 | Sy| --| iLO Virtual Media                    |                  |
 | Se| Dr| Core LAN A                           |                  |
 |   | Co| Core LAN B                           |                  |
 \---| --| EFI Shell [Built-in]                 |                  |
   ■ |v  |                                      |                  |
     \---\----------------------------------------/----------------/

Use <^|v> to scroll     <ENTER> to Select    <ESC> or <X/x> for Previous Menu
Select option to move using <ENTER> or <ESC> to Exit
```
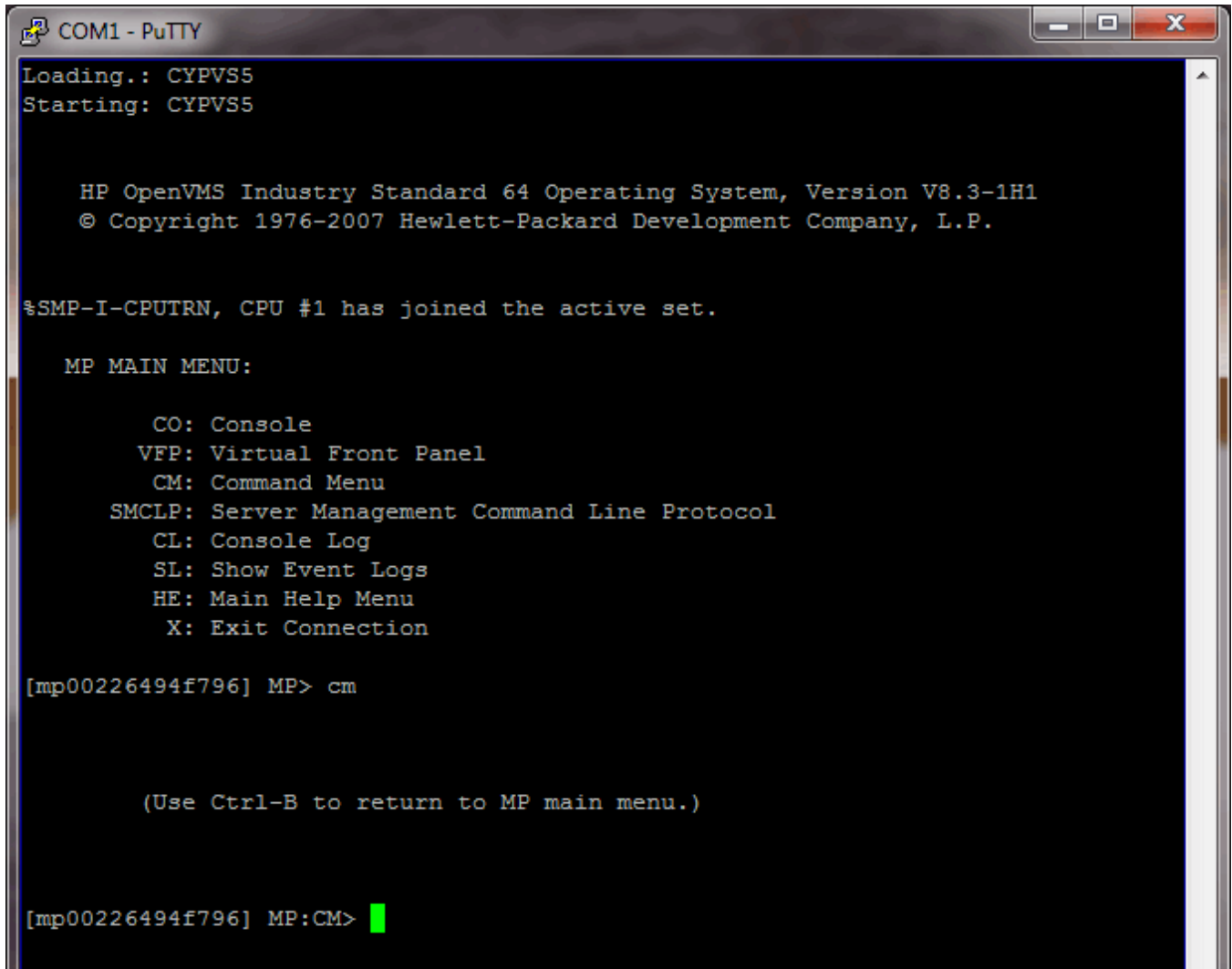
17. Press Enter, the color will change back.
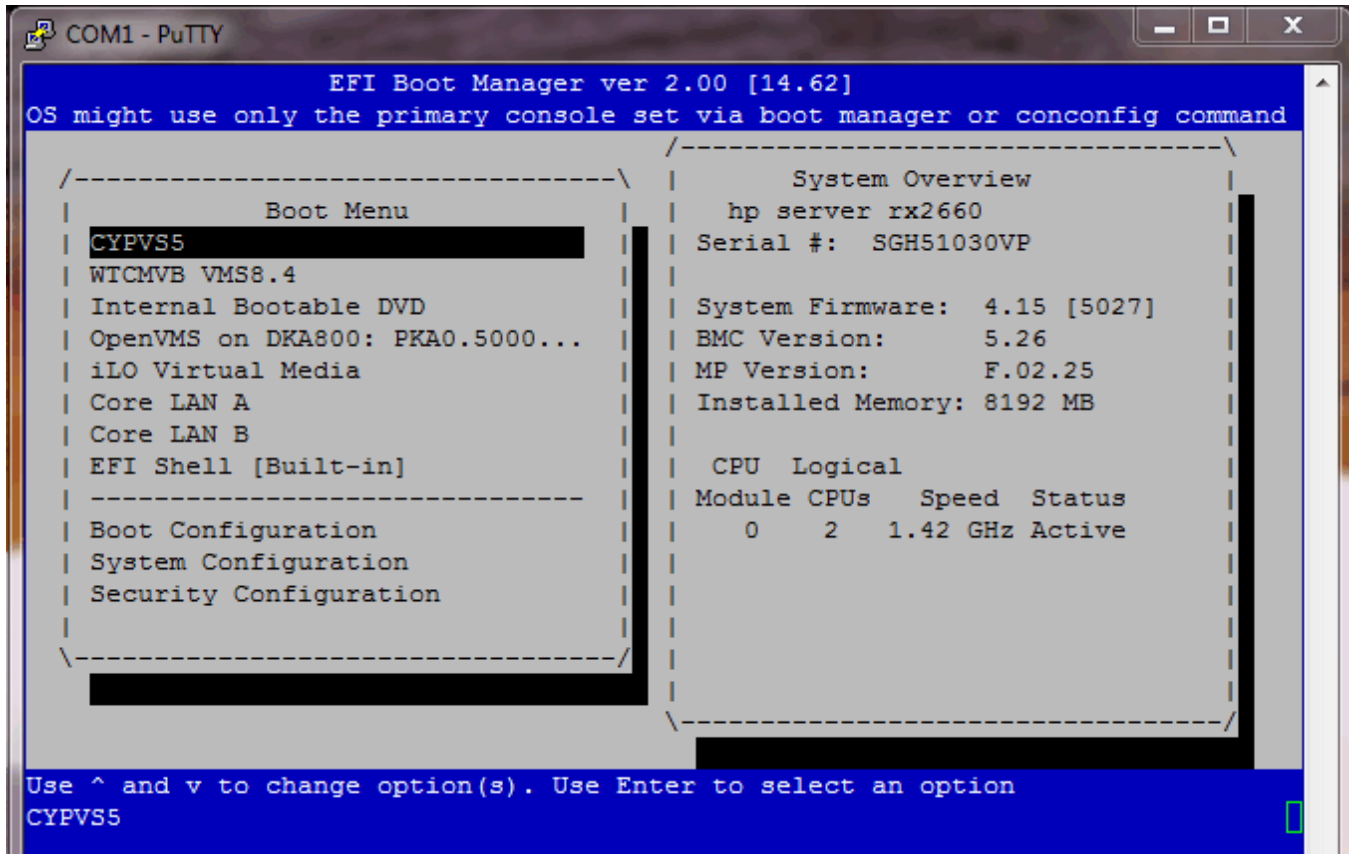
18. Press "X" (twice) until you return to the original screen. Your drive will now display at the top of the list. Press Enter. This will begin re-booting the machine. To ensure that the machine automatically starts after a power cycle you will need to do an additional couple of steps.
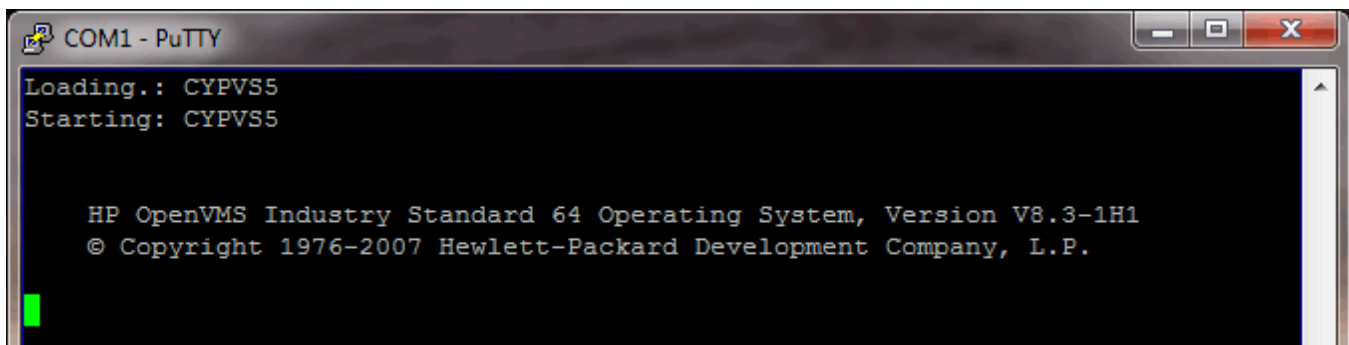
19. After the machine has re-booted, press <Ctrl> B to return to the main menu.

```
COM1 - PuTTY                                                    [ _ ][ □ ][ X ]

Loading.: CYPVS5
Starting: CYPVS5


    HP OpenVMS Industry Standard 64 Operating System, Version V8.3-1H1
    © Copyright 1976-2007 Hewlett-Packard Development Company, L.P.



%SMP-I-CPUTRN, CPU #1 has joined the active set.

   MP MAIN MENU:

         CO: Console
        VFP: Virtual Front Panel
         CM: Command Menu
      SMCLP: Server Management Command Line Protocol
         CL: Console Log
         SL: Show Event Logs
         HE: Main Help Menu
          X: Exit Connection

[mp00226494f796] MP> cm



        (Use Ctrl-B to return to MP main menu.)



[mp00226494f796] MP:CM>
```

20. Type "CM" for Command Menu and press Enter.

```
[mp00226494f796] MP:CM> pr


PR



Power Restore Policy Configuration:
   Current -> ON  - Automatically Power On
              OFF - Remain Powered Off
              P   - Restore Previous Power State

Enter new value, or [Q] to Quit: █
```

21. Type "PR" to bring up the Power Restore Policy Configuration. Verify the current option is set to "ON – Automatically Power On". If not, type "ON" and press Enter.

```
COM1 - PuTTY                                                    _  □  X


Power Restore Policy Configuration:
   Current -> ON  - Automatically Power On
              OFF - Remain Powered Off
              P   - Restore Previous Power State

Enter new value, or [Q] to Quit: q
q

   -> Current Power Restore Policy Configuration has been retained


[mp00226494f796] MP:CM>

   MP MAIN MENU:

        CO: Console
       VFP: Virtual Front Panel
        CM: Command Menu
     SMCLP: Server Management Command Line Protocol
        CL: Console Log
        SL: Show Event Logs
        HE: Main Help Menu
         X: Exit Connection

[mp00226494f796] MP> x
```

22. Type "Q" to quit and then <Ctrl> B to return to the main menu. Type "X" to exit the connection.