How to Boot an SP node into Maintenance Mode

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About this Document

This document describes booting a sp node into the maintenance mode.

How to Boot a sp node into Maintenance Mode

1. On the control workstation, enter smit and select:

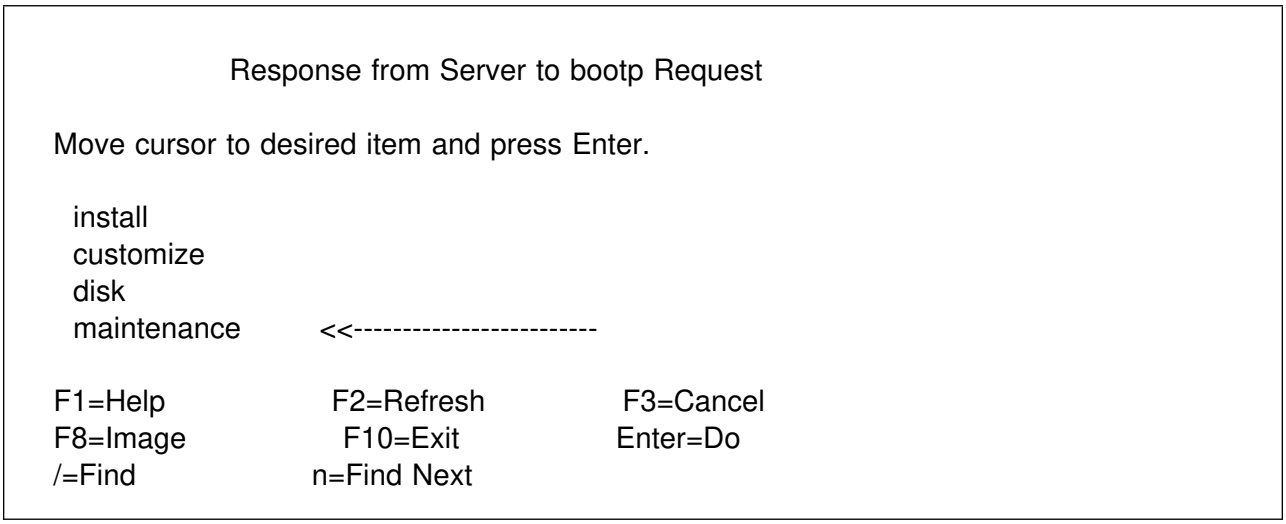
   ```
   9076 SP System Management
   9076 SP Configuration Database Management
   Enter Database Information
   Node Database Information
   Boot/Install/usr Server Information
   ```

   Enter the node in either the Start Frame/Start Slot/ Node Count fields OR the Node List field. Then, press F4 in the "Response from Server to bootp Request" field and select "maintenance". Make sure the last field is set to "yes" so setup_server will run.

   ```
                                          [Entry Fields]
   Start Frame                            [ ]              #
   Start Slot                             [ ]              #
   Node Count                             [ ]              #

   OR

   Node List                              [ ]

   Boot/Install Server Node Identifier    [ ]
   Network Install Image Name             [ ]
   Destination Hard Disk(s)               [ ]
   Response from Server to bootp Request        maintenance   +
   /usr Server's Hostname or IP Address   [ ]
   Gateway to /usr Server                 [ ]
   /usr Client Adapter Name                                     +
   Run setup_server on the Control Workstation?   yes           +
   ```

2. Use the F4 key to select:

```
Response from Server to bootp Request
```



3. Now that the screen is filled out, press enter. This will update the database, and run the setup_server command.
4. When it finishes, start the spmon gui with:

```
spmon -g
```

5. Then select:

```
SP
Display Layouts
```

6. Select the frame and node from the buttons above the columns, and then select the node's Node Front Panel Layout.
7. Click on Display Node Layout

```
>From the front panel, click on Open TTY. Put the key in Secure.
```

8. Power off the node from the spmon node front panel and power it back on.
9. When the led's show 200, switch the key to service mode and press "reset" on the spmon node front panel.
10. At led 260 or 262, the tty will become active and you will see a MAIN MENU. Select the BOOT STARTUP menu option and you will see a screen that will ask you what interface to use. Select the appropriate ethernet adapter for en0: either integrated "built-in" adapter on thin nodes or the bnc adapter (most likely) on the wide nodes.
11. Then it will ask for the IP address of the CLIENT (the node you are trying to boot), the SERVER (the appropriate Boot/Install server for the client), and the GATEWAY (which may be left blank). If you are unsure of the correct Boot/Install server for the client, run "splstdata -b" on the control workstation and look at the fourth field of the line for the client's node#. The value in

this field specifies the node_number of the Boot/Install server for that node. Be sure to use leading and trailing zeros when entering the IP addresses.

12. Select 99 to save the addresses and return to the MAIN MENU, and then select "3" to send a test transmission ping between the client and server network interfaces.
13. Select "4" to start the ping test. If the ping test is unsuccessful you have a network connectivity problem or have entered an invalid IP address. Do not proceed until you correct the problem and receive a successful ping test.
14. Select "99" to go back to the main menu and select "4" to start the System Boot.
15. At this point, put the key in "Normal" mode (via the spmon "Node Front Panel") and press <Enter> in the tty screen.
16. You should see bootp packets sent and received and then tftp packets sent and received.
17. Soon you will see an AIX maintenance menu. Proceed as with any AIX RS/6000 workstation.

    NOTE: When you are done, be sure to set the node back to "disk" on the control workstation.

Reader's Comments

Please fax this form to (512) 823-4009, attention "AIXServ Information". You may also e-mail comments to: elizabet@austin.ibm.com. These comments should include the same customer information requested below.

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Be sure to print your name and fax number below if you would like a reply:

Name: Fax Number:

12/10/96

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