How to Boot Secure Malware Analytics Appliance into Recovery Mode with EFI Shell and Add Recovery Mode to Boot Options

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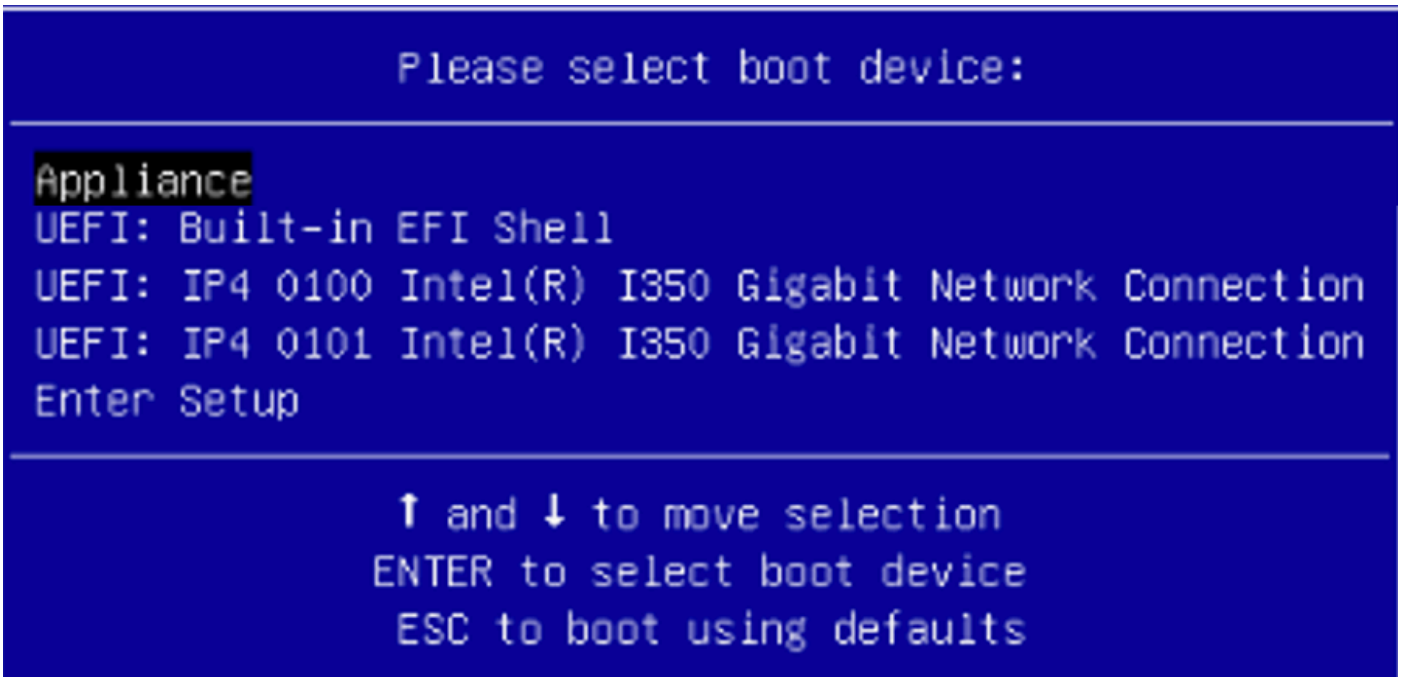
Introduction

This document describes the steps on how to boot the Secure Malware Analytics® Appliance into recovery mode with EFI Shell and Add Recovery Mode to Boot Options.

Problem

You would be able to see as shown in the image, that we don't have the Recovery Mode displayed up in the BIOS window:



In order for us to boot into Recovery Mode in this scenario, we have to use the steps described in the next section.

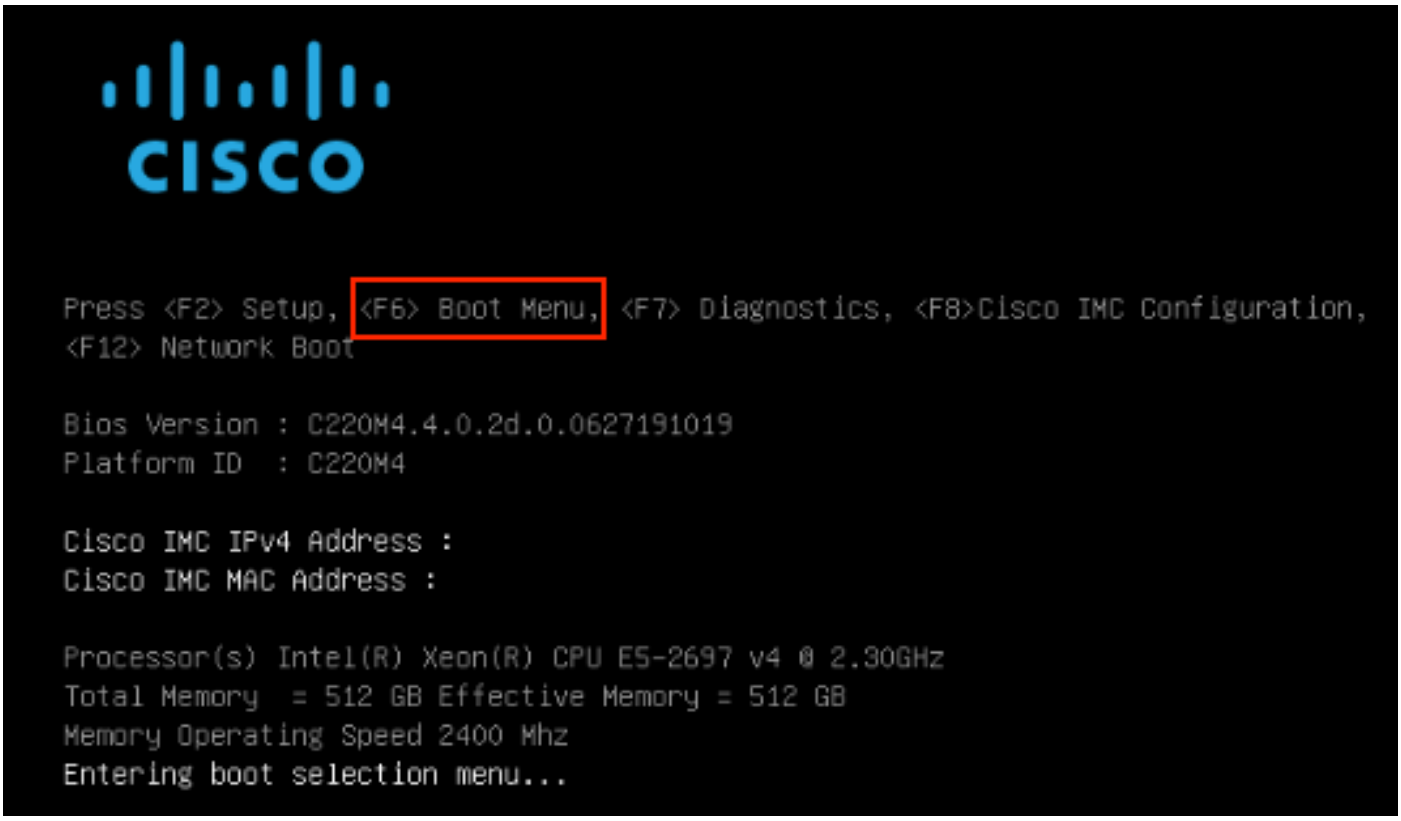
Solution

EFI Shell

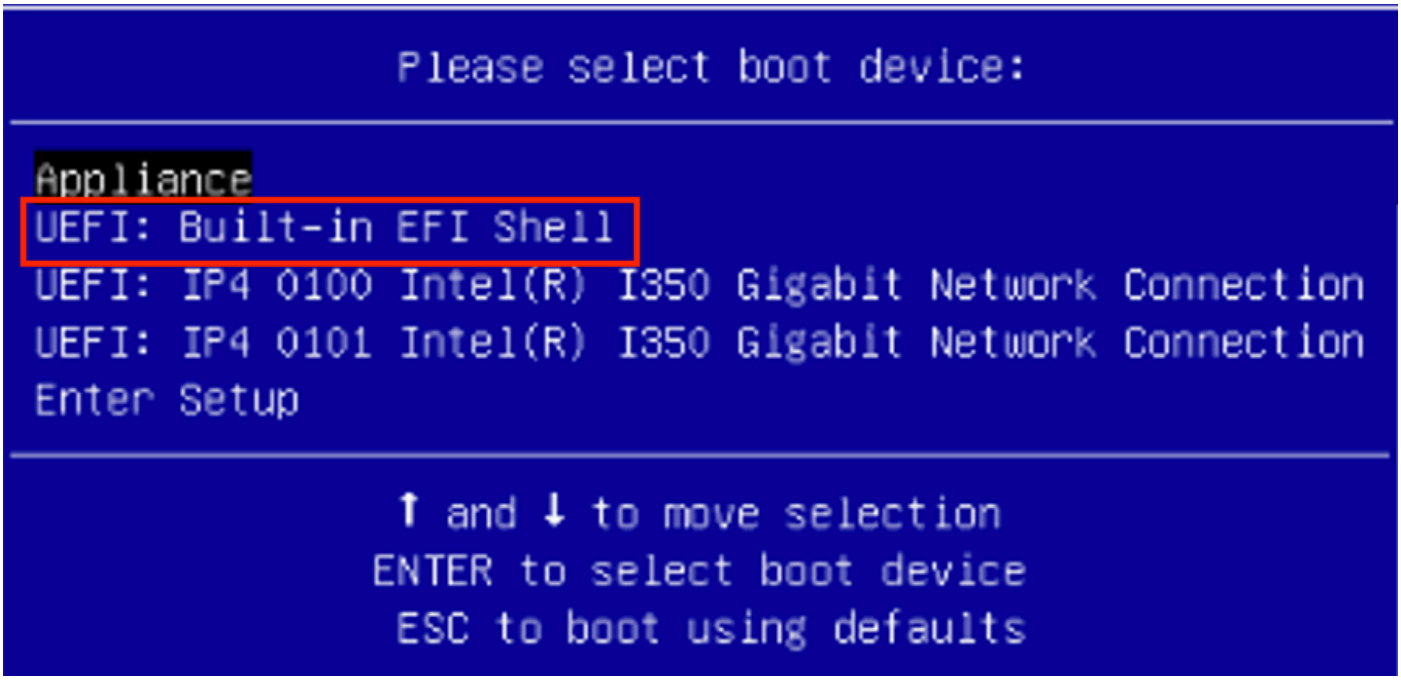
Step 1. Connect the KVM adapter to an external monitor and keyboard, and plug it into the KVM port located at the front of the device. If CIMC is available and configured, you can use a remote KVM.

Step 2. Reboot the device.

Step 3. Press **F6** at the BIOS window for a list of possible boot targets.

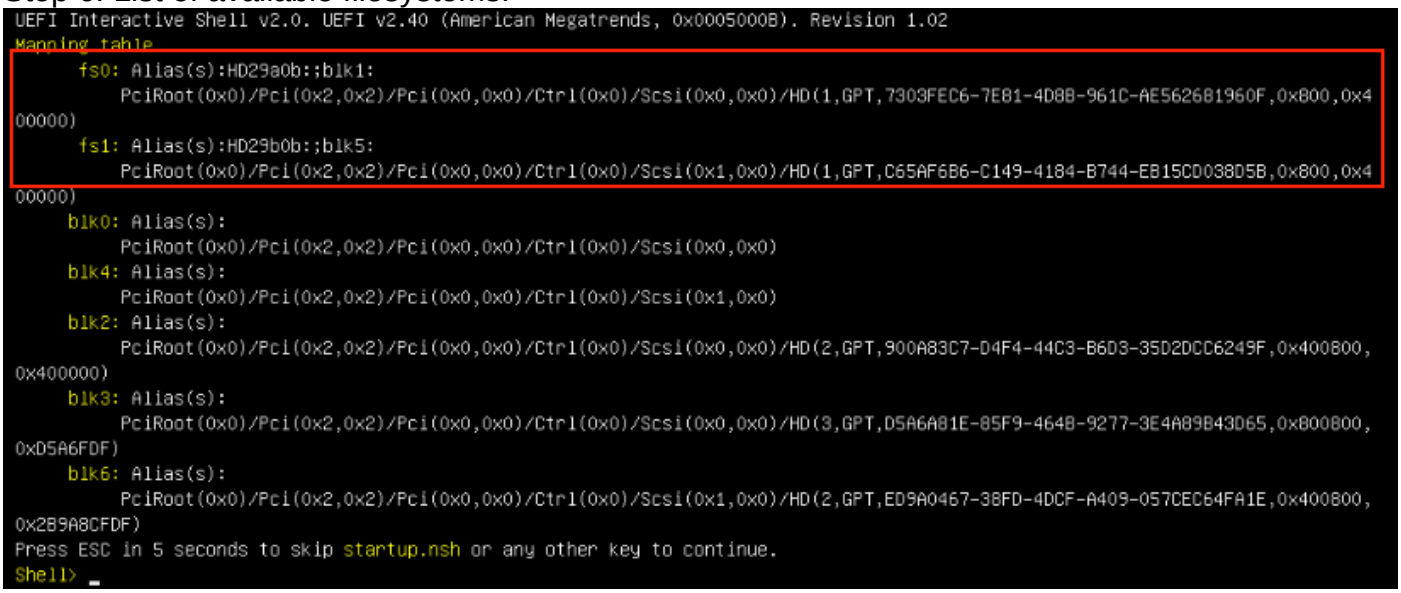


Step 4. Select **UEFI: Built-in EFI Shell**.



Step 5. Right after, press **ESC** before the startup script finishes to move into the EFI Shell.

Step 6. List of available filesystems.



Step 7. At this point, you need to locate the **Recovery** directory which is in one of the filesystems.

Step 8. Navigate into that directory.

```
Shell> fs1:
fs1:\> dir
Directory of: fs1:\
03/16/2022  17:12              31,736  meta_contents.tar.xz
10/26/2020  11:29                 149  startup.nsh
12/21/2016  23:42 <DIR>         4,096  efi
04/30/2021  08:28         836,030,464  recovery.rosfs
          3 File(s)  836,062,349 bytes
          1 Dir(s)
fs1:\> cd efi
fs1:\efi\> dir
Directory of: fs1:\efi\
12/21/2016  23:42 <DIR>         4,096  .
12/21/2016  23:42 <DIR>             0  ..
04/30/2021  08:28 <DIR>         4,096  Recovery
          0 File(s)          0 bytes
          3 Dir(s)
fs1:\efi\> cd Recovery
fs1:\efi\Recovery\> dir
Directory of: fs1:\efi\Recovery\
12/21/2016  23:42 <DIR>         4,096  .
12/21/2016  23:42 <DIR>         4,096  ..
04/30/2021  08:28          18,255,144  boot.efi
          1 File(s)  18,255,144 bytes
          2 Dir(s)
```

Step 9. Execute the command **fs1:\efi\Recovery\boot.efi**

Step 10. Device boots into Recovery Mode.

```
>>
>>
>> help
   COMMANDS:
         configure -- show|set: View or modify configuration variables
             conns -- listening|open|all: Show open connections
      destroy-data -- Reset appliance to be a target for the restore process
              exit -- Exit tgsh.
           graphql -- Following content until the next empty line is treated as a GraphQL query to run
              halt -- Halt appliance
              help -- List available commands, or 'help COMMAND' for details.
         netconfig -- Update configured network settings
   netconfig-apply -- Modify active network configuration to match saved settings
           netinfo -- routes|firewall|addrs|stats: Show network configuration and status
           opadmin -- import|check: Sync from, or validate, new configuration format
            passwd -- Change password for this account
              ping -- ping [-c count] [-I interface] host: ping a remote host
          poweroff -- Power off appliance
            reboot -- Reboot appliance
       reconfigure -- simple|with-reinstall: Nondestructively rerun configuration in single-user mode, with or without precedin
g reinstall
           service -- {status|start|stop|restart} [svc-name]: Toggle ThreatGRID services
      support-mode -- status|start|stop: Toggle support mode
        traceroute -- Determine the path used to a network location
           version -- Shows appliance version
>>
```

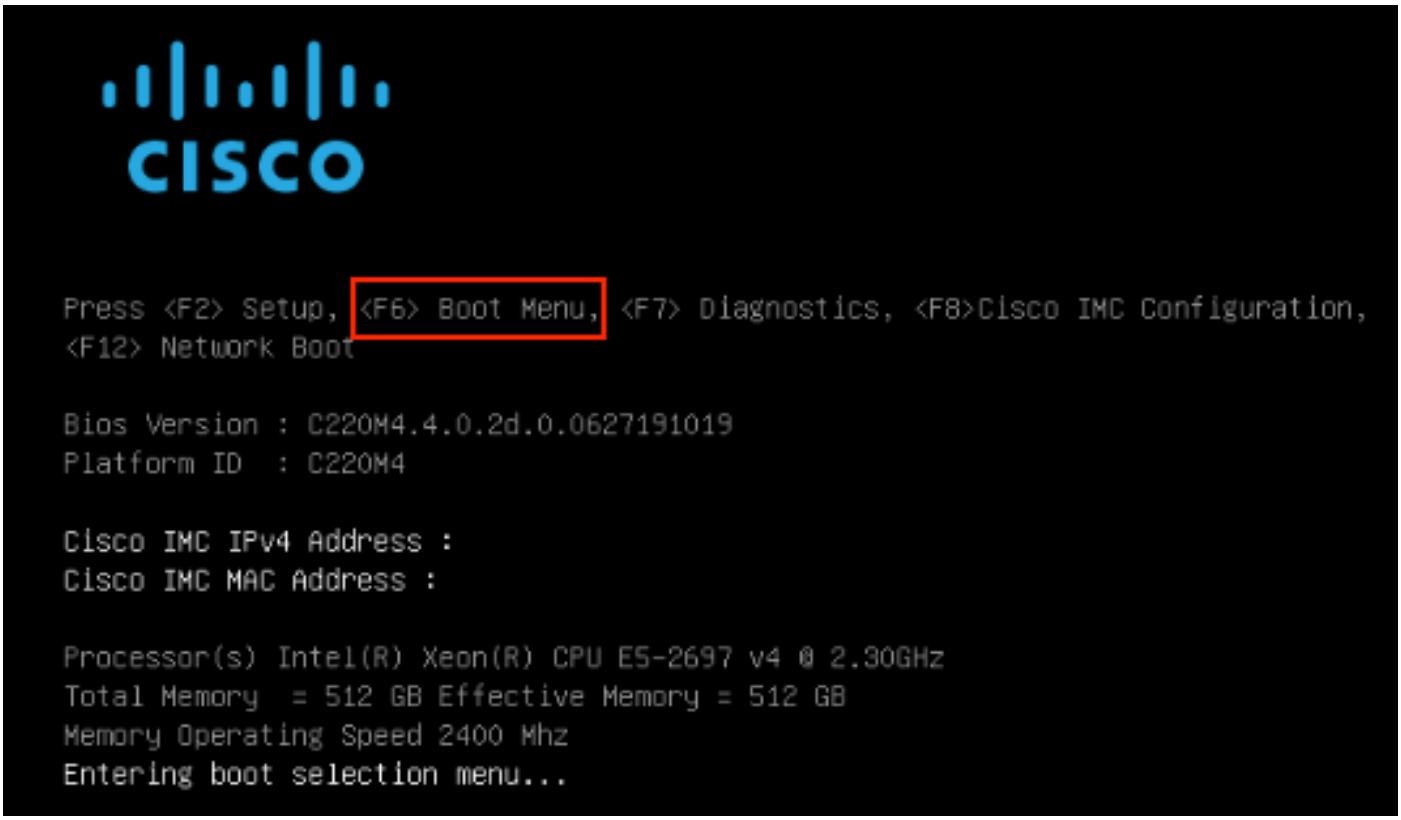
Add Recovery Mode to Boot Options

Step 1. Connect the KVM adapter to an external monitor and keyboard, and plug it into the KVM

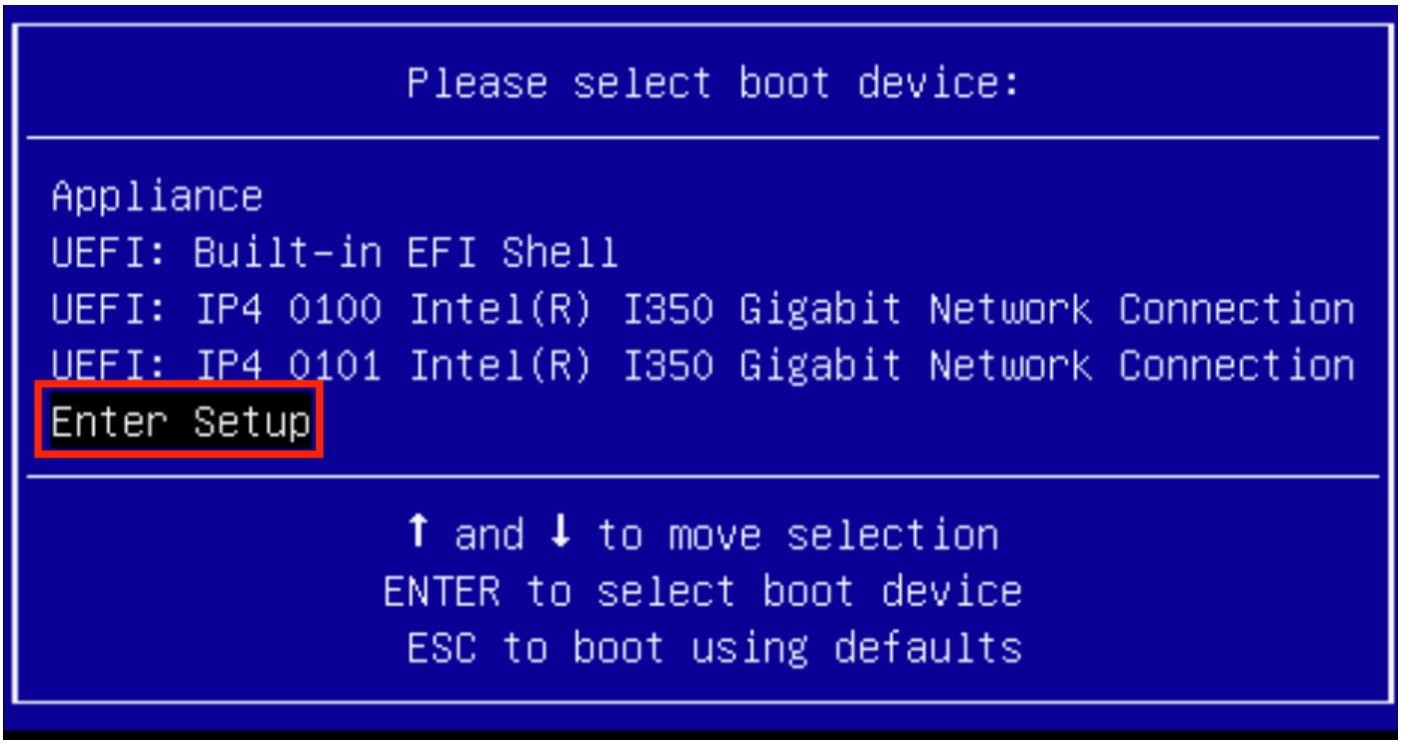
port located at the front of the device. If CIMC is available and configured, you can use a remote KVM.

Step 2. Reboot the device.

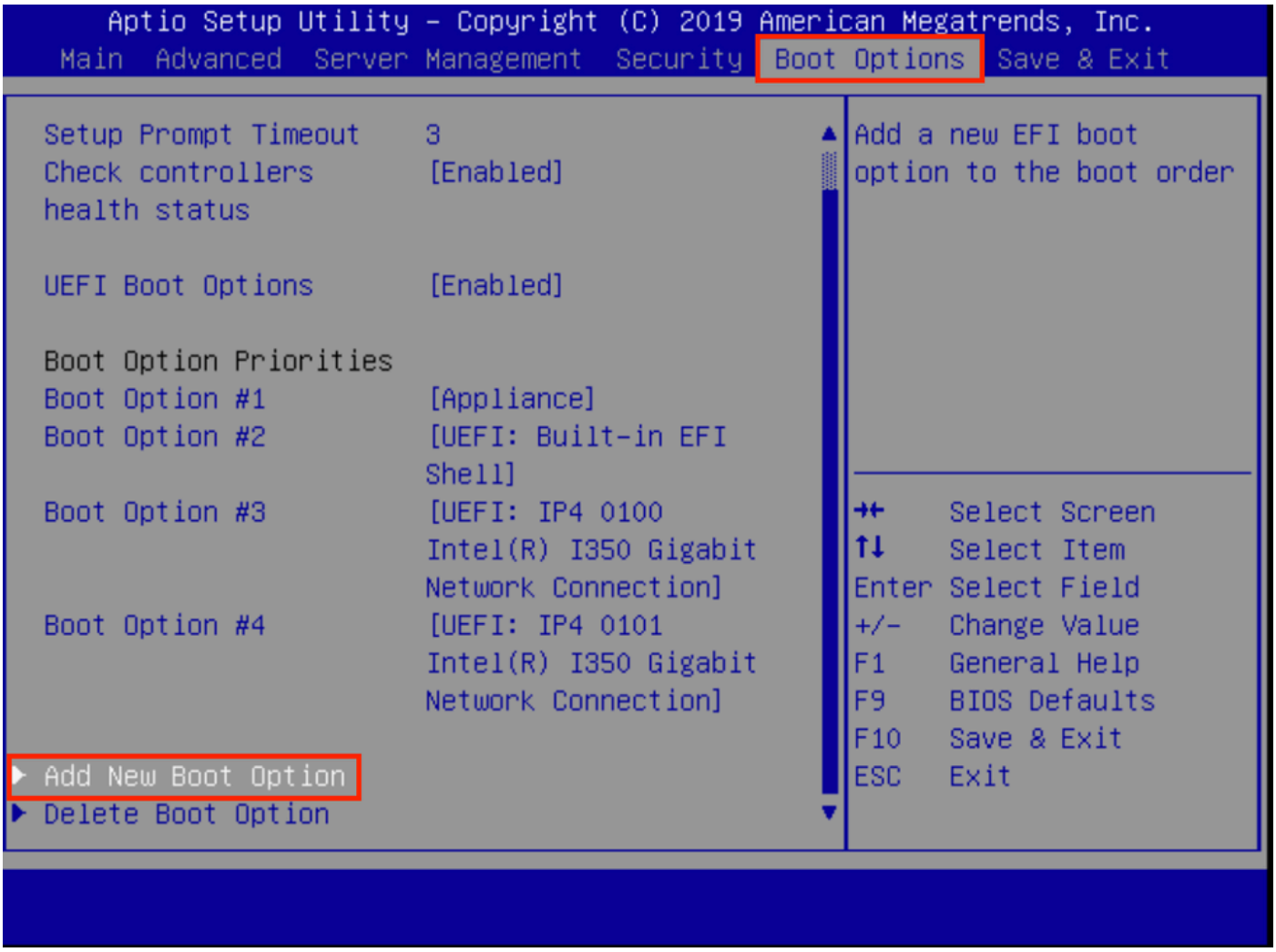
Step 3. Press **F6** at the BIOS window for a list of possible boot targets.



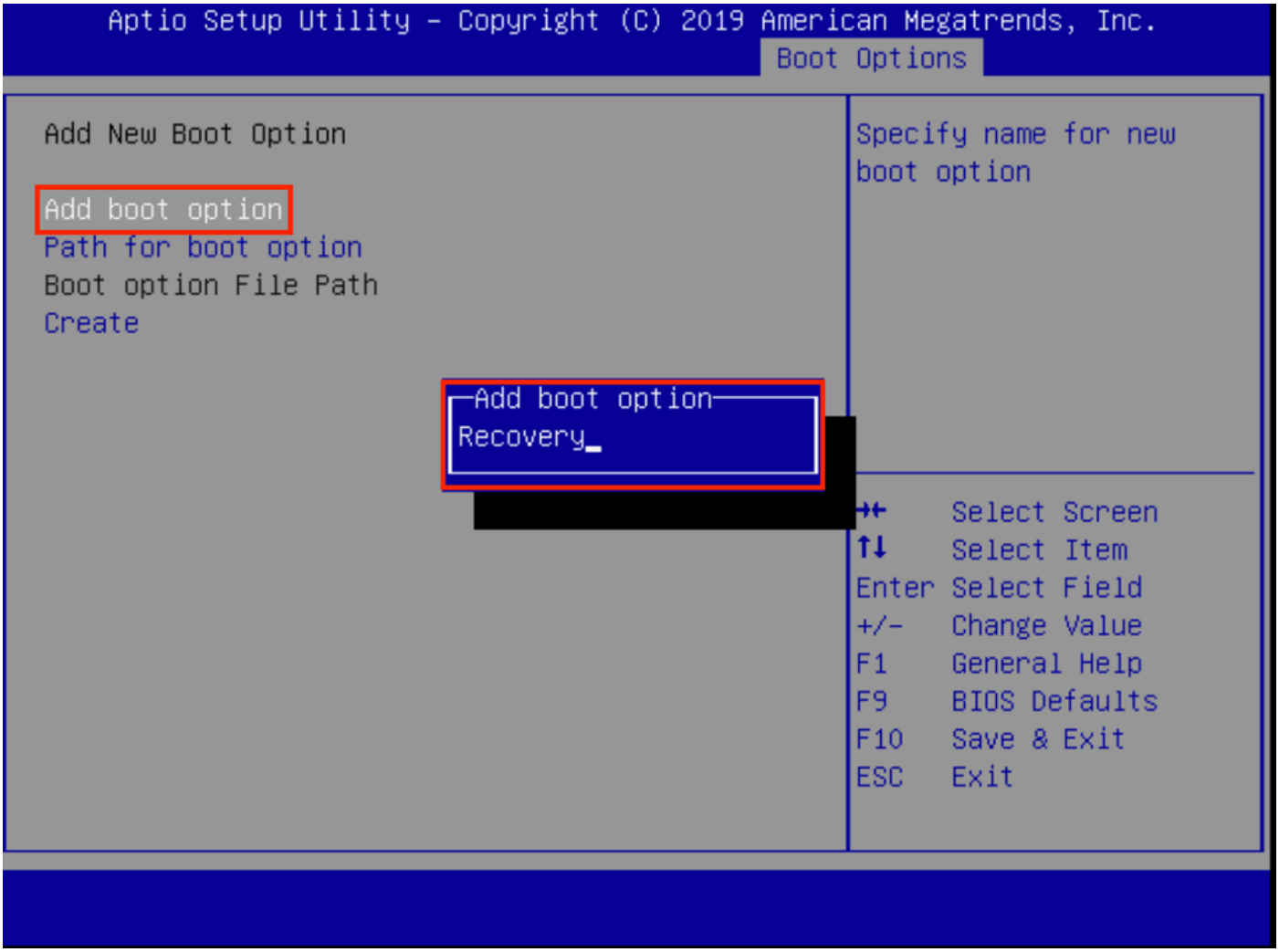
Step 4. Select **Enter Setup**.



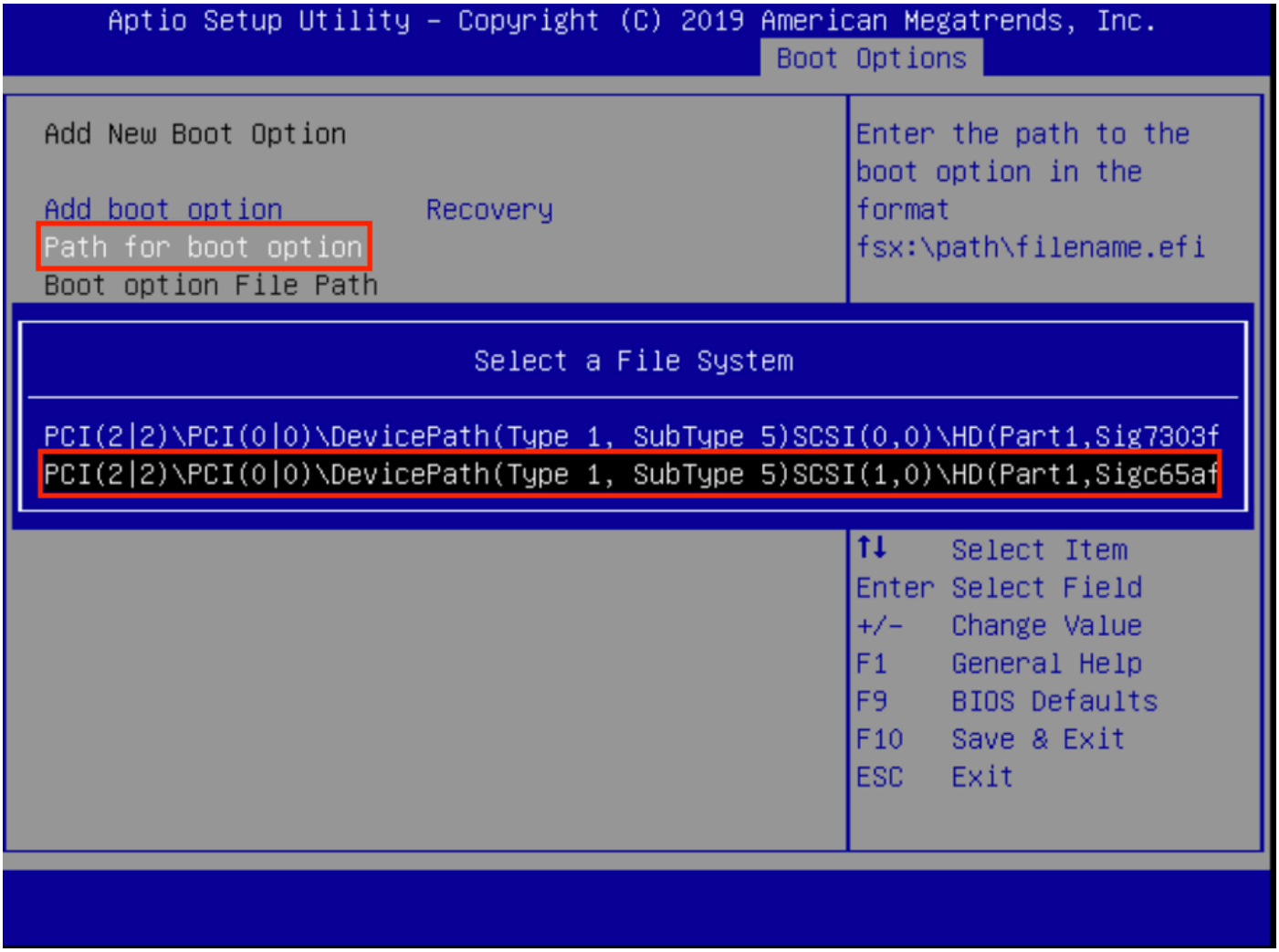
Step 5. Navigate into **Boot Options**, scroll to the bottom, and select **Add New Boot Option**.



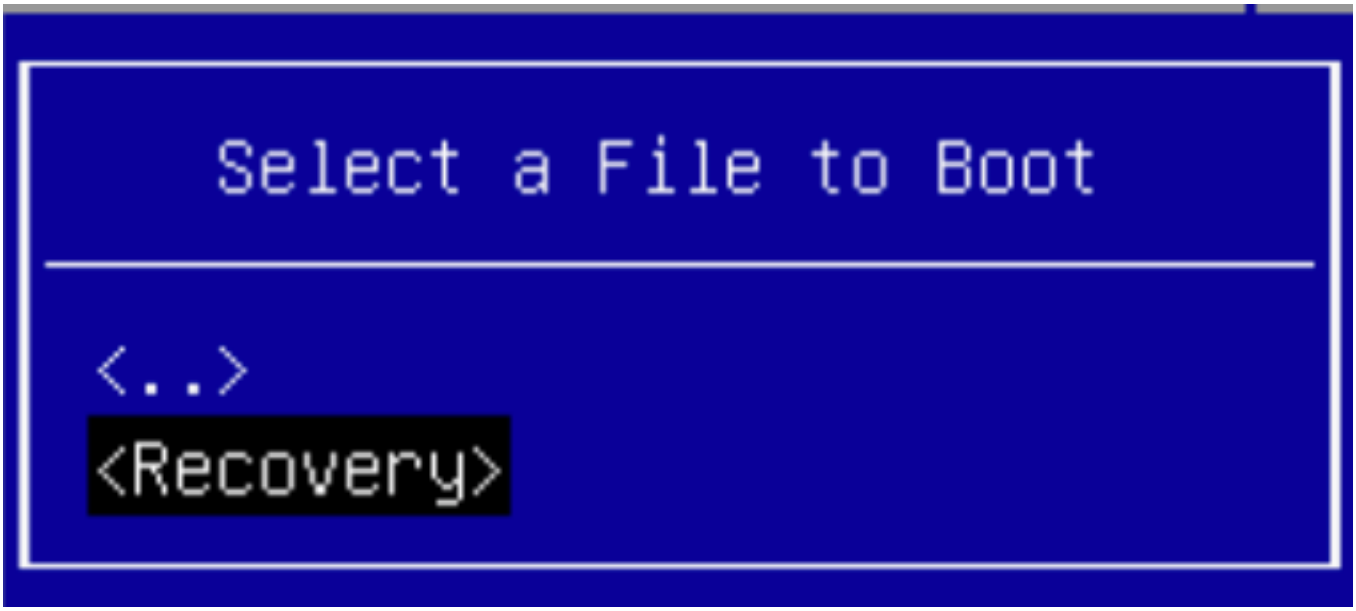
Step 6. Select **Add boot option** and type **Recovery**.

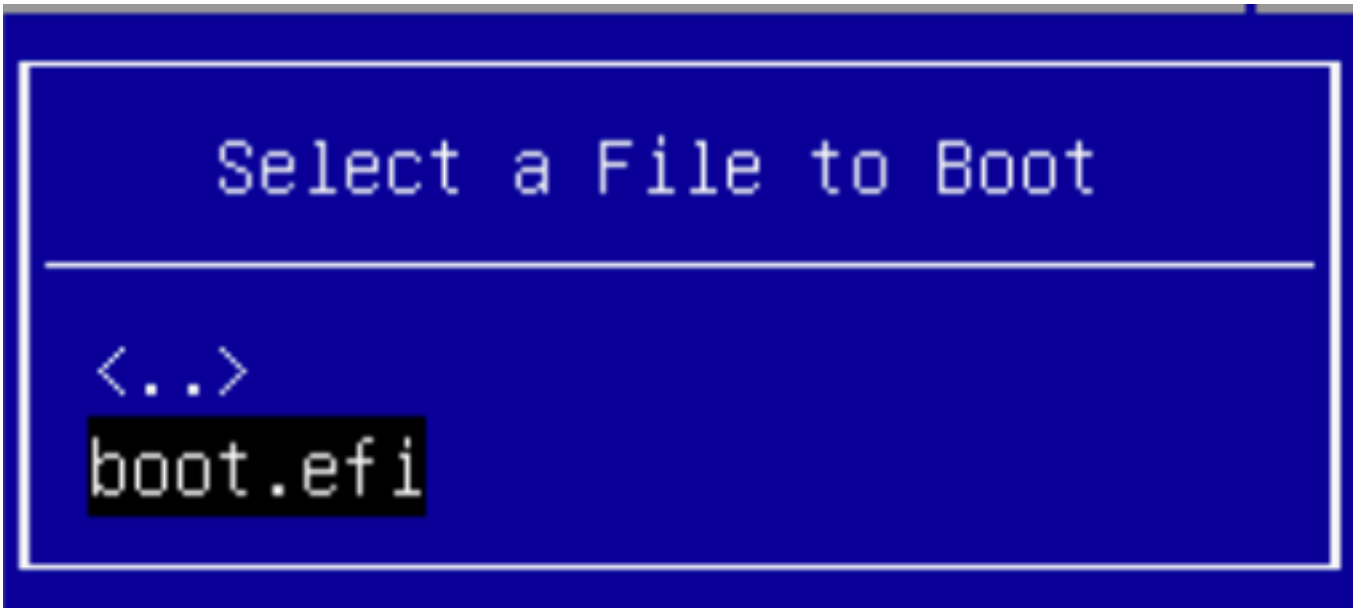


Step 7. Select **Path for boot option** and select proper **File System**.

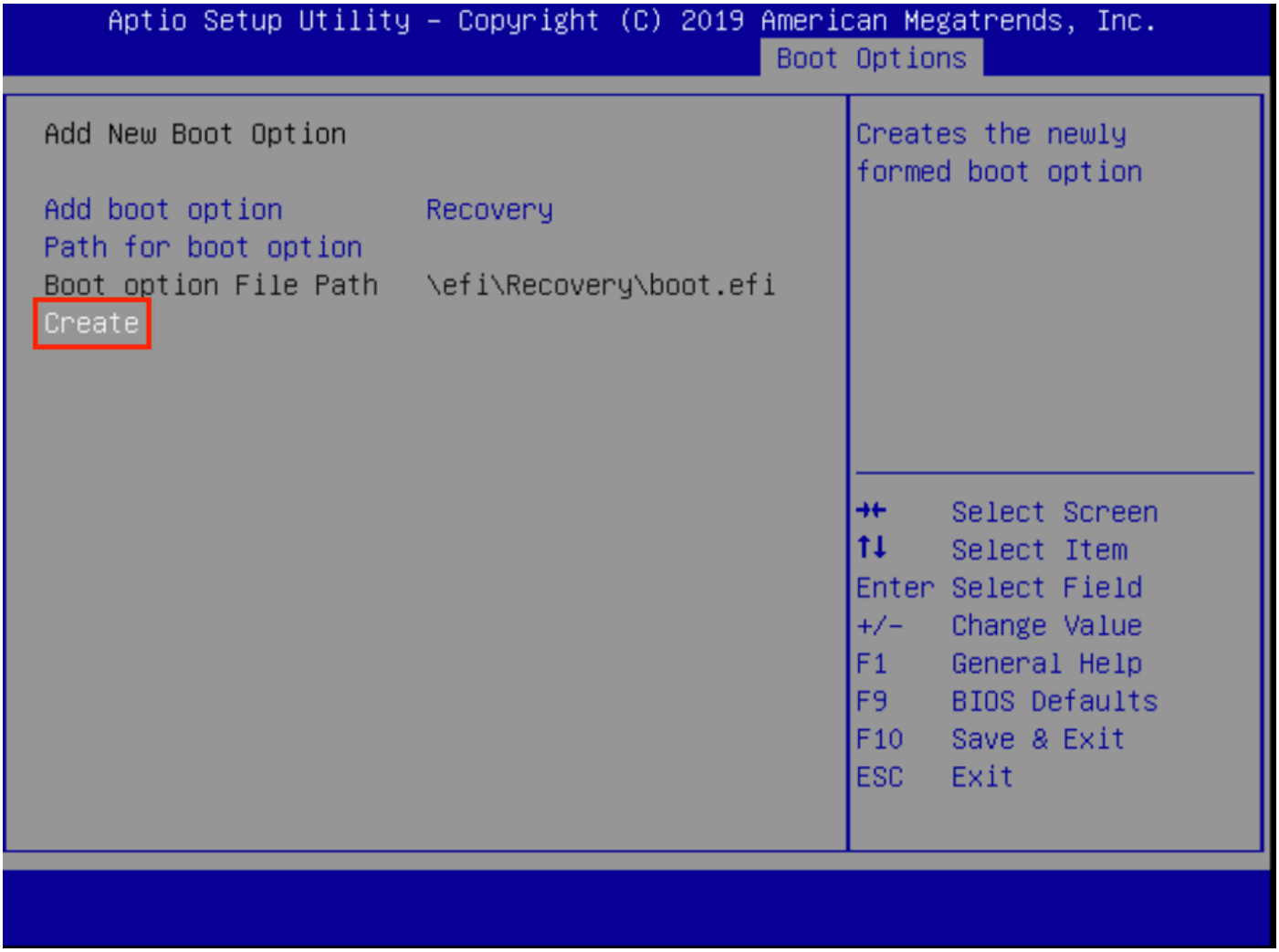


Step 8. Select **<efi>**, **<Recovery>** and **<boot.efi>**.

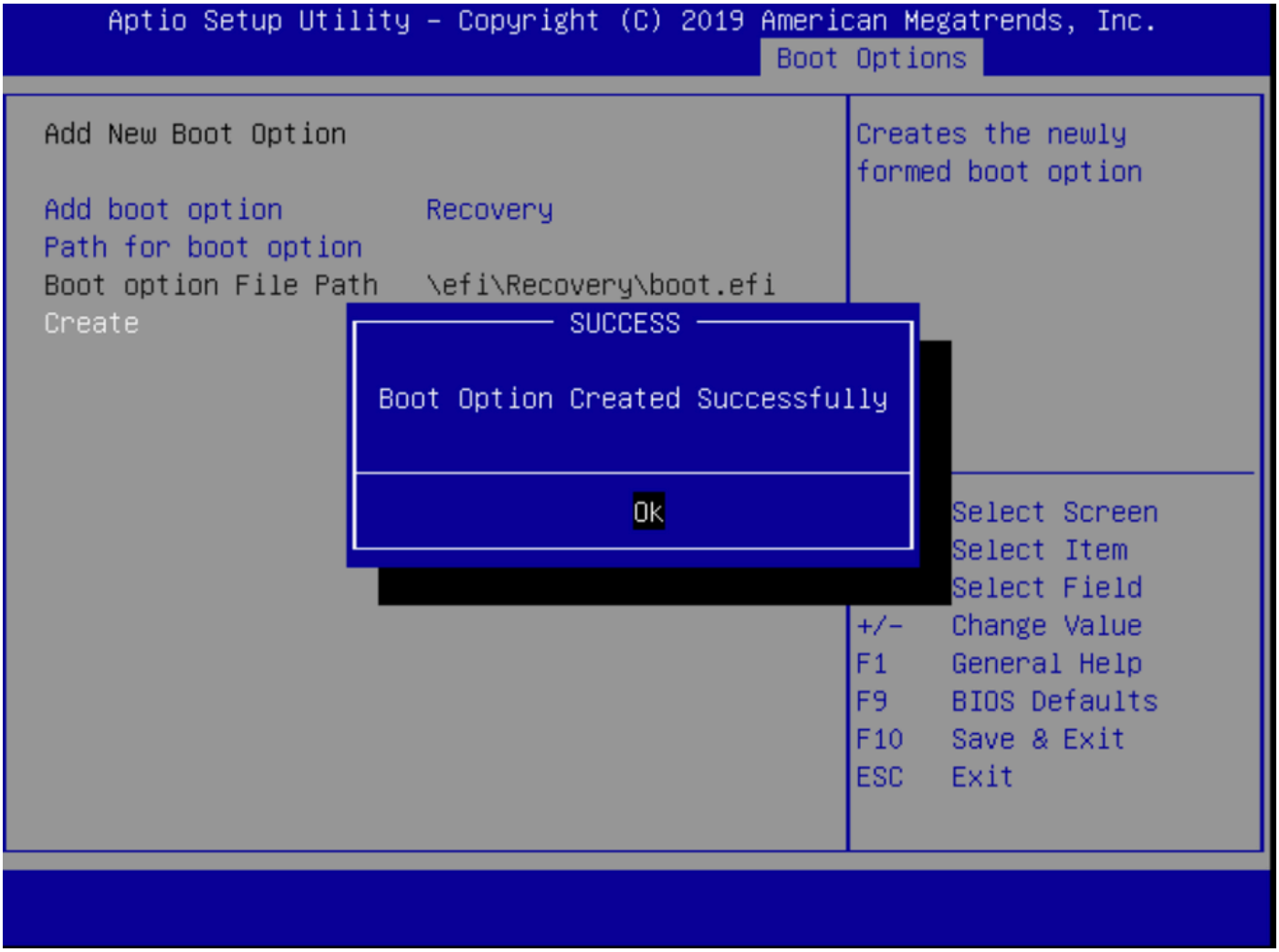




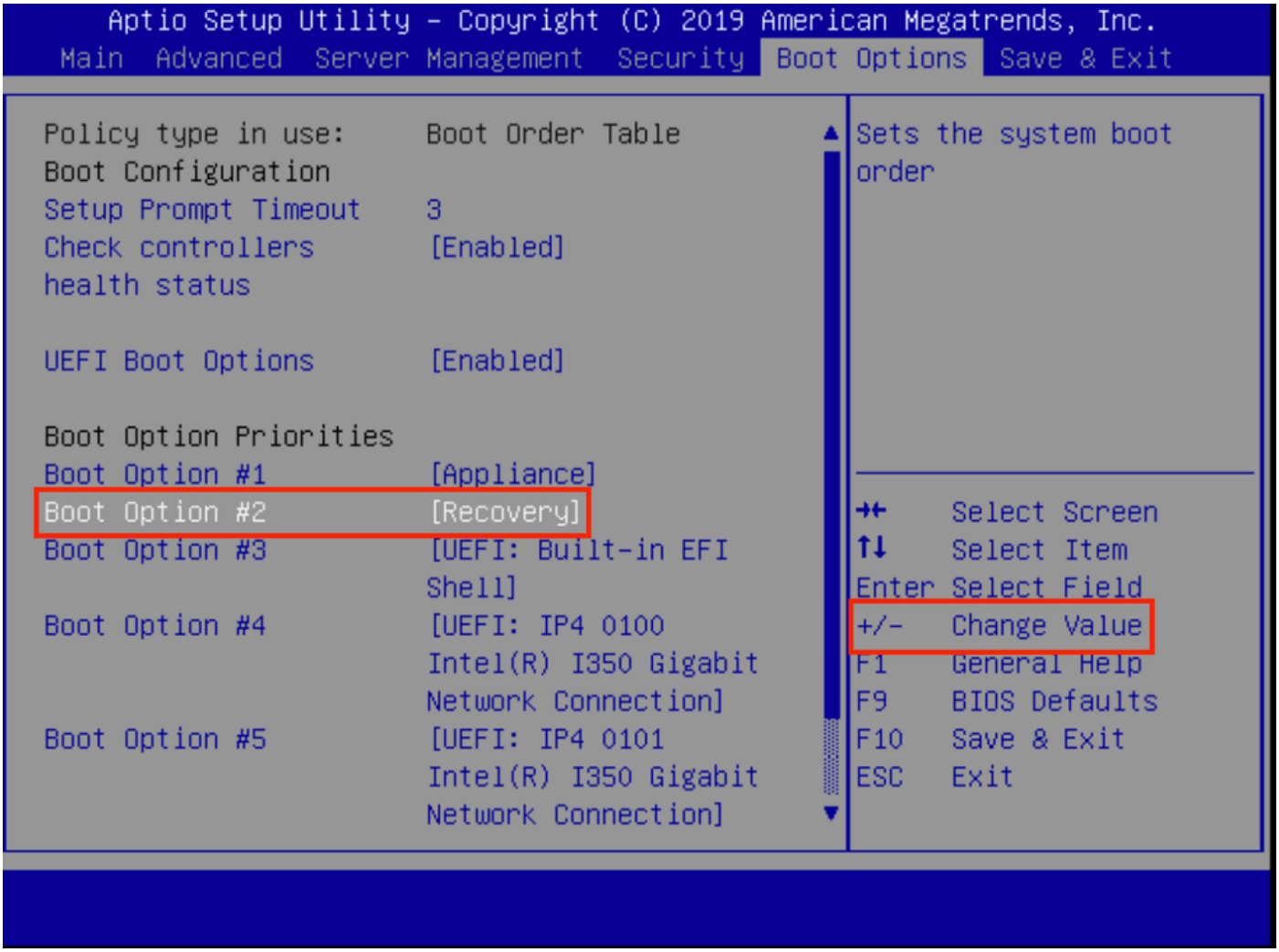
Step 9. Select **Create**.



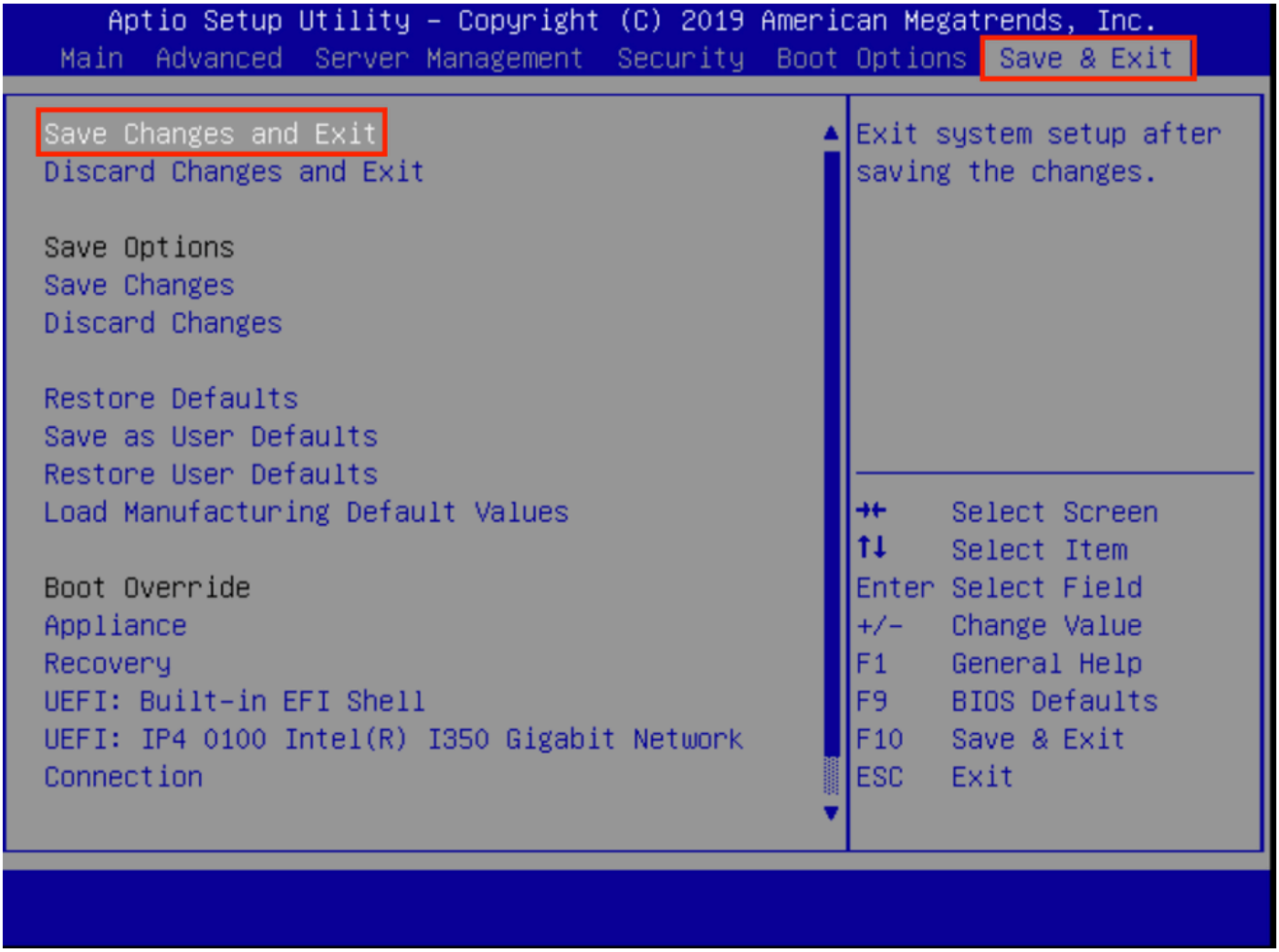
Step 10. New Boot Option creates.



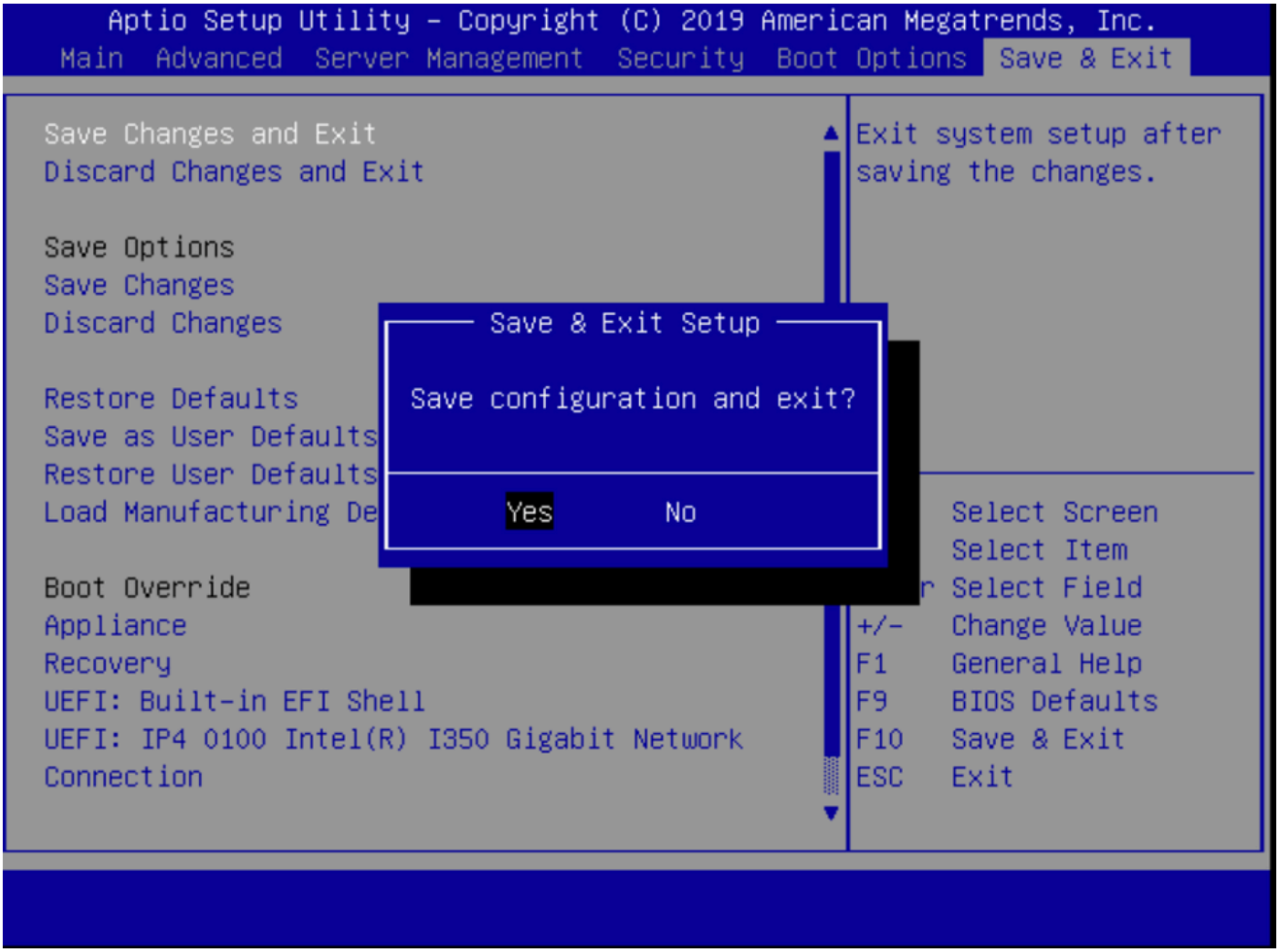
Step 12. Put **Recovery** option at #2 place with **+/- buttons**.



Step 13. Navigate into **Save & Exit** and select **Save Changes and Exit**.



Step 14. Confirm changes.



Step 15. The device boots normally.

For more information, see the Secure Malware Analytics Appliance Administration Guide.