



STORMSHIELD



TECHNICAL NOTE

STORMSHIELD NETWORK SECURITY

MANAGING SECURE BOOT IN SNS FIREWALLS' UEFI

Product concerned: SN-S-Series-220, SN-S-Series-320, SN-M-Series-520, SN-M-Series-720, SN-M-Series-920, SN1100, SN3100 and SNi20

Document last updated: May 25, 2023

Reference: [sns-en-SecureBoot_activation_technical_note](#)



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Change log

Date	Description
May 25, 2023	Add SN-S-Series-220, SN-S-Series-320, SN-M-Series-520, SN-M-Series-720 and SN-M-Series-920 firewalls Add section Disabling Secure Boot in the SNS firewall's UEFI
June 13, 2022	New document



Getting started

This document explains how to enable and disable the Secure Boot feature in the UEFI on SNS firewalls. Secure Boot increases the security of the system, in particular by verifying the signature of the system loaded when the SNS starts up.

This procedure applies to the following products: SN-S-Series-220, SN-S-Series-320, SN-M-Series-520, SN-M-Series-720, SN-M-Series-920, SN1100, SN3100 and SNI20.

NOTE

For security reasons, before enabling Secure Boot, you are advised to protect your firewall's UEFI control panel with a password.

 [Protecting access to the configuration panel of the UEFI on SNS firewalls](#)



Requirements and operation

SNS firewall models on which Secure Boot is enabled by default

Secure Boot is enabled by default on the following SNS firewall models: SN-S-Series-220, SN-S-Series-320 and SN-M-Series-520.

Important information regarding the activation of Secure Boot

Do note that you can no longer perform the following operations on your SNS firewall after you enable Secure Boot:

- Reset the administrator password in *single user* mode,
- Start the SNS firewall on a backup partition in a version of SNS lower than 4.2.1,
- Start the SNS firewall on a USB key when restoring the program via USB key (*USB Recovery*),
- Install a version of SNS lower than 4.2.1.

Secure Boot cannot be enabled on all SNS firewall models. Refer to the list below to know which models are affected.

Required equipment

Depending on the SNS firewall model used, you will need the following items. Continue according to the model of your SNS firewall.

Model used	Elements
SN-S-Series-220 SN-S-Series-320 SN-M-Series-520 SN-M-Series-720 SN-M-Series-920	<ul style="list-style-type: none">• A computer with a terminal emulator installed, e.g., Putty,• A USB-A to USB-C cable (provided with the product).
SN1100 SN3100 SNi20	<ul style="list-style-type: none">• A computer with a terminal emulator installed, e.g., Putty,• An RJ45 to RS232 serial cable (provided with the product).



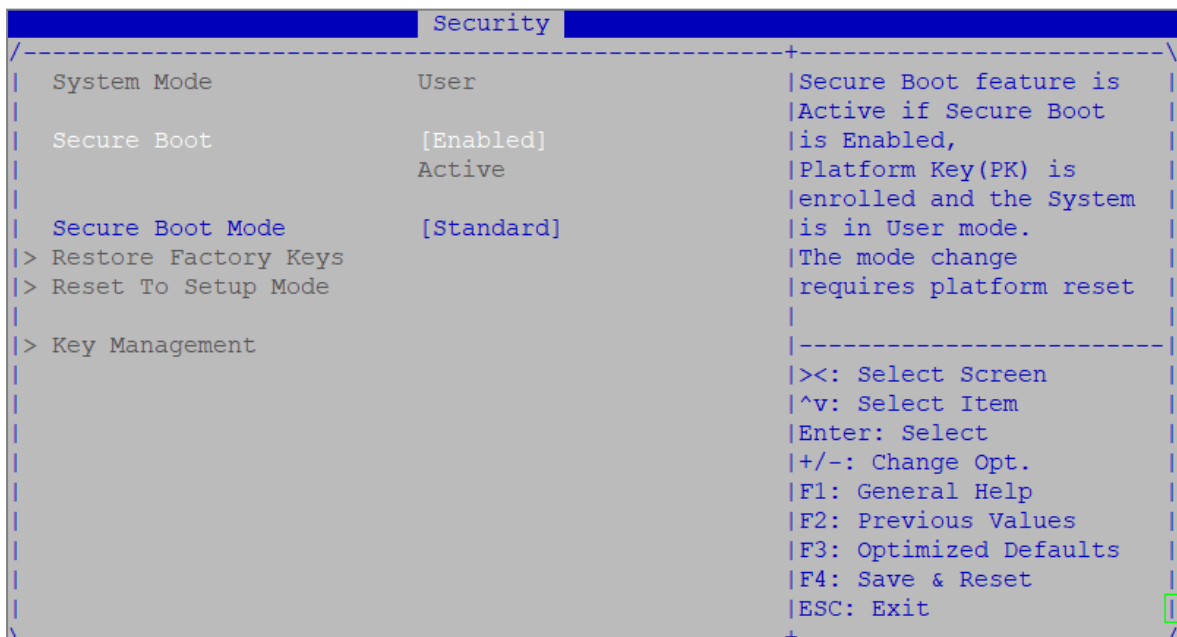
SN-S-Series-220 and SN-S-Series-320

Enabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the USB-A to USB-C cable.
2. Open the terminal emulator and enter the serial port and baud rate [115200].
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.

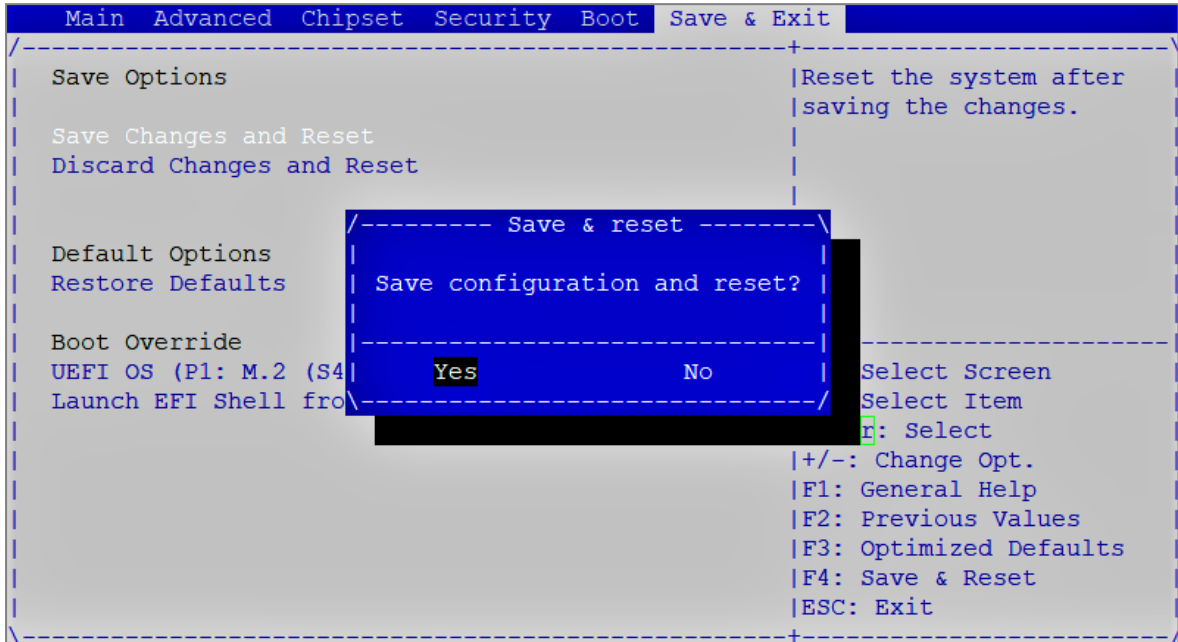


6. Change the status of the **Secure Boot** parameter to **Enabled**.
7. Change the status of the **Secure Boot Mode** parameter to **Standard**.



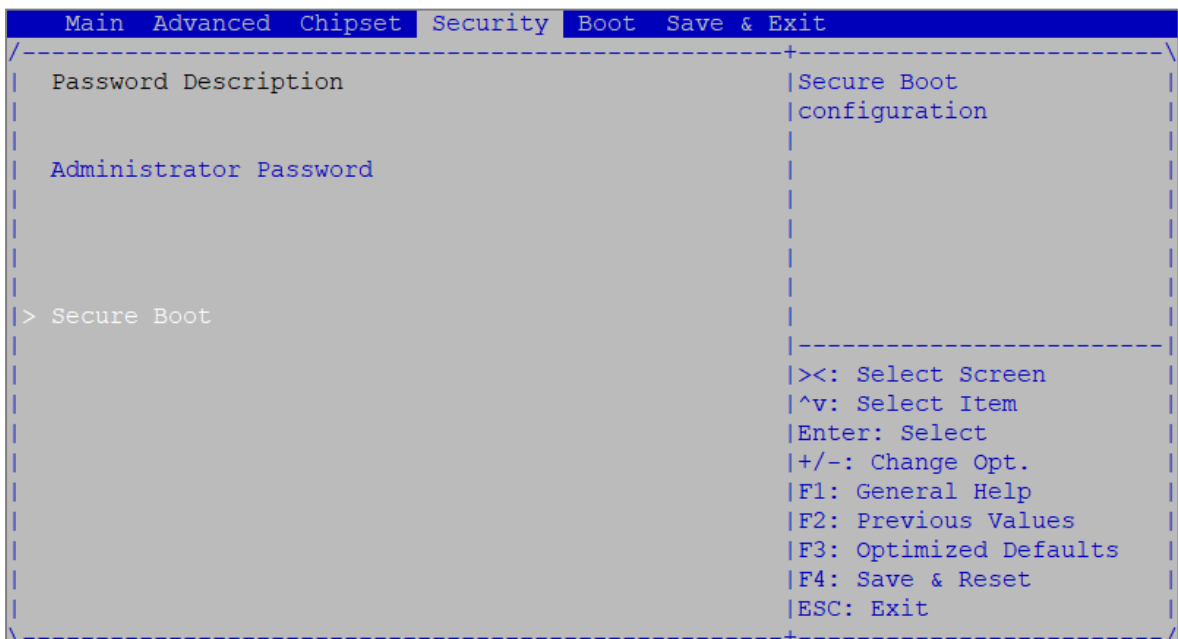


8. Press **[Esc]** and go to the **Save & Exit** tab.
9. Select **Save Changes and Reset** and press **[Enter]**.
10. In the *Save & Reset* window, select **Yes** then press **[Enter]**.



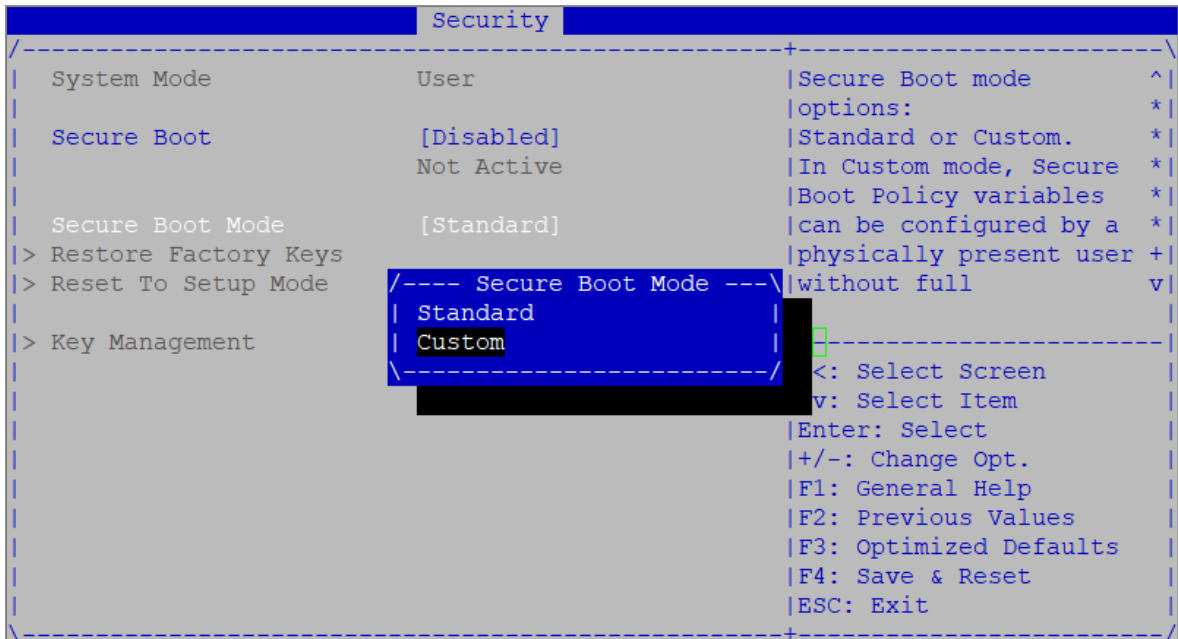
Disabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the USB-A to USB-C cable.
2. Open the terminal emulator and enter the serial port and baud rate (115200).
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.

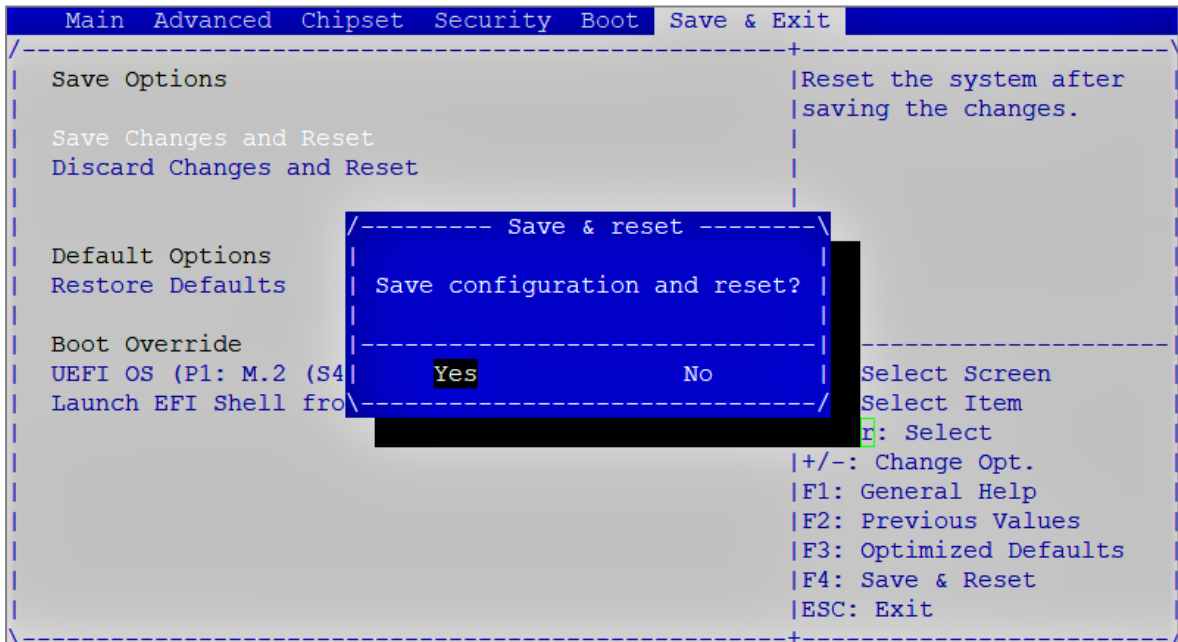




- 6. Change the status of the **Secure Boot** parameter to **Disabled**.
- 7. Change the status of the **Secure Boot Mode** parameter to **Custom**.

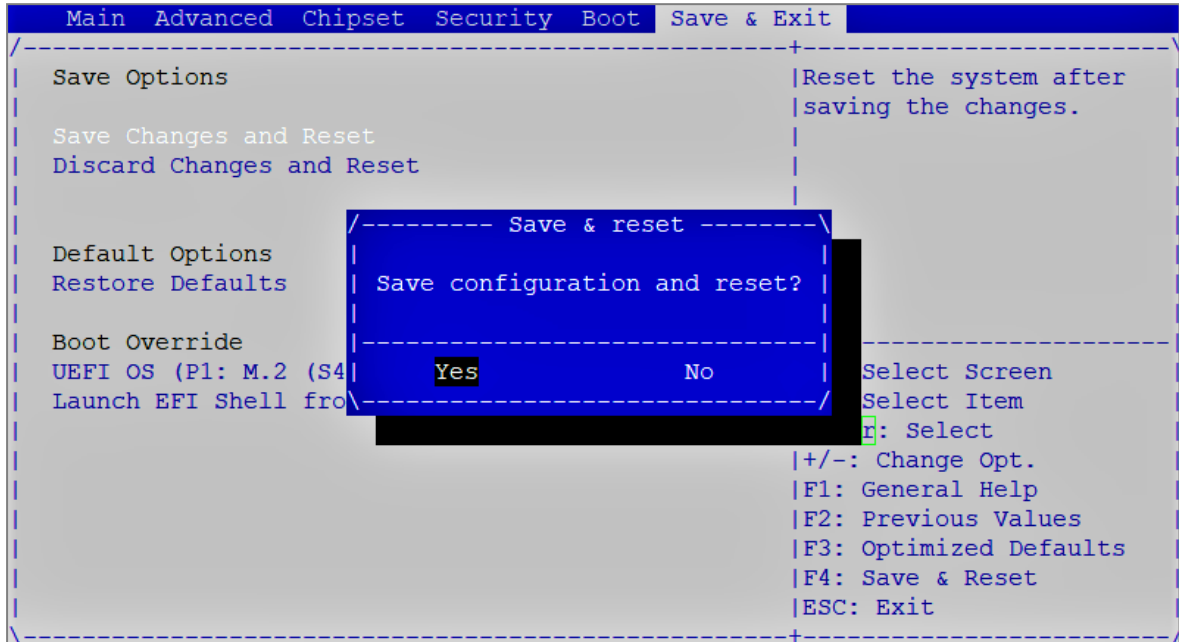


- 8. Press **[Esc]** and go to the **Save & Exit** tab.
- 9. Select **Save Changes and Reset** and press **[Enter]**.
- 10. In the *Save & Reset* window, select **Yes** then press **[Enter]**.



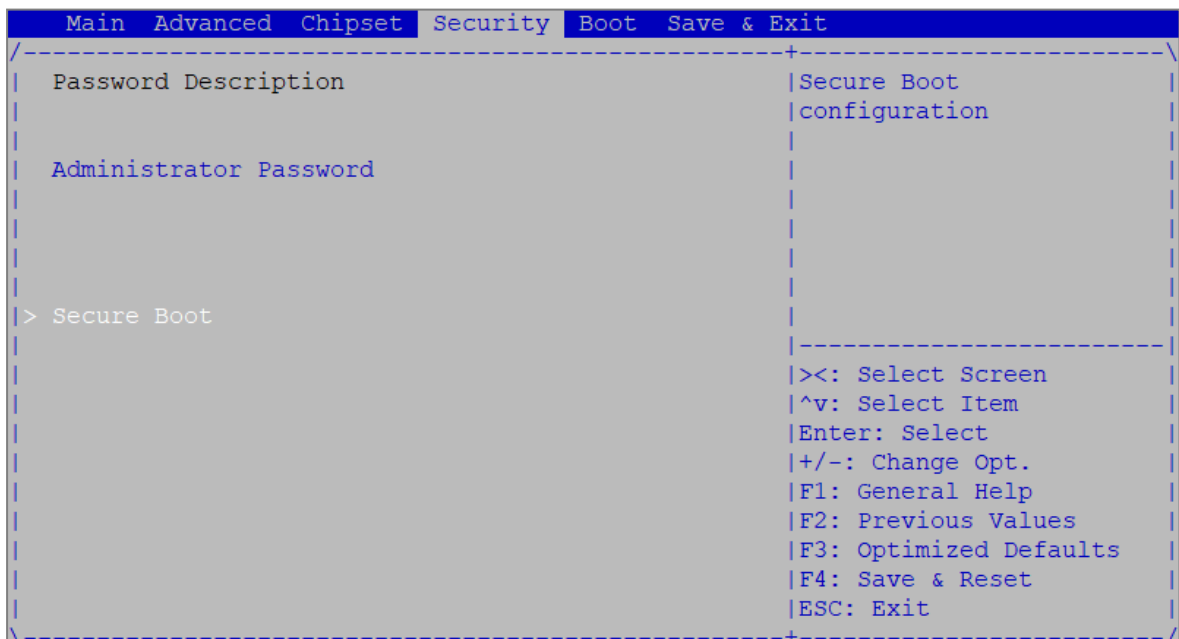


8. Press **[Esc]** and go to the **Save & Exit** tab.
9. Select **Save Changes and Reset** and press **[Enter]**.
10. In the *Save & Reset* window, select **Yes** then press **[Enter]**.



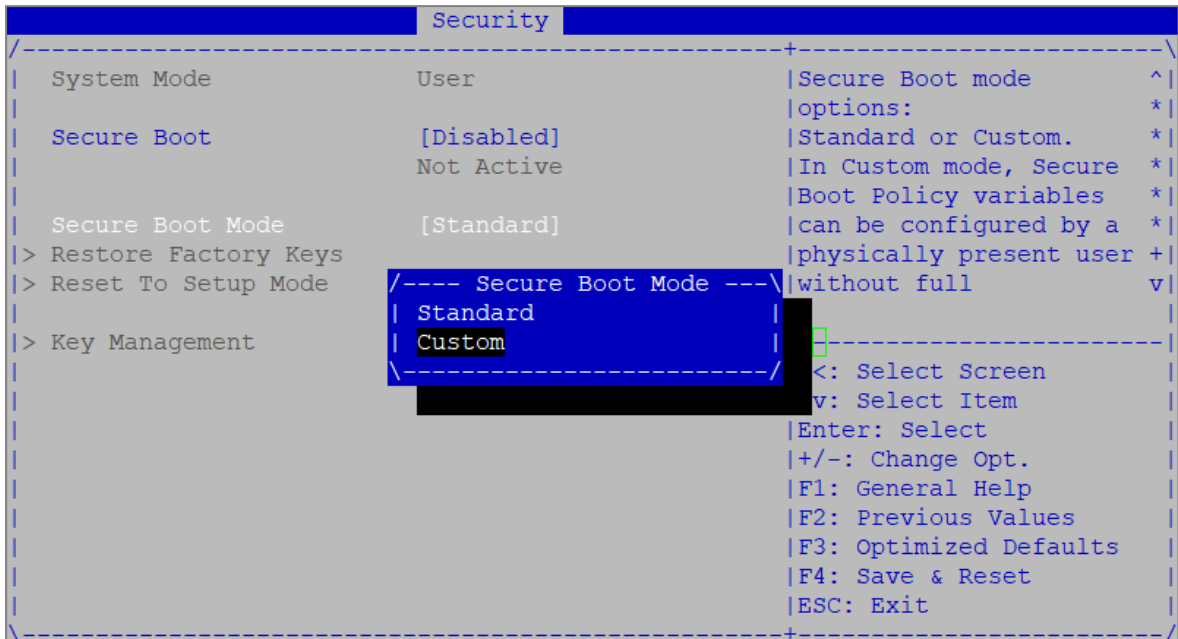
Disabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the USB-A to USB-C cable.
2. Open the terminal emulator and enter the serial port and baud rate (115200).
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.

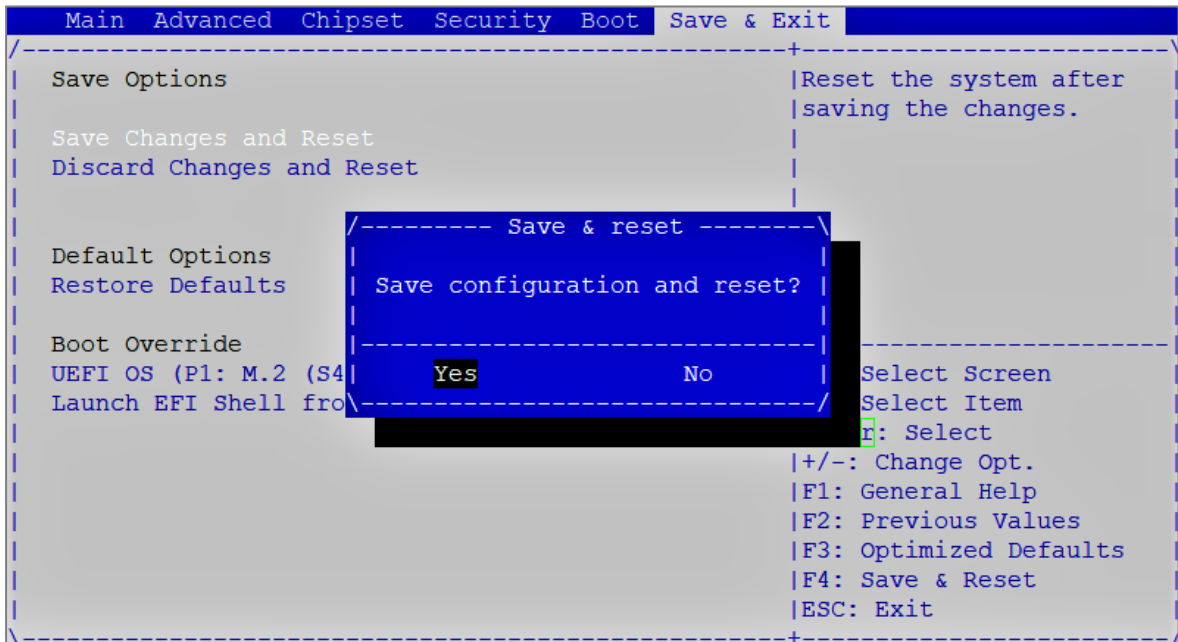




- 6. Change the status of the **Secure Boot** parameter to **Disabled**.
- 7. Change the status of the **Secure Boot Mode** parameter to **Custom**.



- 8. Press **[Esc]** and go to the **Save & Exit** tab.
- 9. Select **Save Changes and Reset** and press **[Enter]**.
- 10. In the *Save & Reset* window, select **Yes** then press **[Enter]**.





SN-M-Series-720 and SN-M-Series-920

Enabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the USB-A to USB-C cable.
2. Open the terminal emulator and enter the serial port and baud rate [115200].
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.

```

Main  Advanced  Chipset  Security  Boot  Save & Exit
-----
| Password Description | Set Administrator |
|                      | Password         |
| Administrator Password |                  |
|> Secure Boot        |                  |
|                      |                  |
|                      |><: Select Screen |
|                      | ^v: Select Item  |
|                      | Enter: Select    |
|                      | +/-: Change Opt. |
|                      | F1: General Help |
|                      | F2: Previous Values |
|                      | F3: Optimized Defaults |
|                      | F4: Save & Exit  |
|                      | ESC: Exit       |
|                      |                 |
+-----+

```

6. Change the status of the **Secure Boot** parameter to **Enabled**.

```

Security
-----
| System Mode          | User              | Secure Boot feature is |
|                      |                   | Active if Secure Boot |
| Secure Boot          | [Enabled]         | is Enabled,           |
|                      | Active           | Platform Key(PK) is   |
|                      |                   | enrolled and the System |
| Secure Boot Mode     | [Custom]          | is in User mode.     |
|> Restore Factory Keys |                   | The mode change       |
|> Reset To Setup Mode |                   | requires platform reset |
|                      |                   |                         |
|> Key Management      |                   | -----             |
|                      |                   |><: Select Screen     |
|                      |                   | ^v: Select Item      |
|                      |                   | Enter: Select        |
|                      |                   | +/-: Change Opt.    |
|                      |                   | F1: General Help     |
|                      |                   | F2: Previous Values  |
|                      |                   | F3: Optimized Defaults |
|                      |                   | F4: Save & Exit      |
|                      |                   | ESC: Exit           |
|                      |                   |                     |
+-----+

```



7. Press **[Esc]** and go to the **Save & Exit** tab.
8. Select **Save Changes and Reset** and press **[Enter]**.
9. In the *Save & Reset* window, select **Yes** then press **[Enter]**.

```
  Main  Advanced  Chipset  Security  Boot  Save & Exit
-----+-----
| Save Options                                     |Reset the system after|
| Save Changes and Exit                           |saving the changes.  |
| Discard Changes and Exit                         |                     |
| Save Changes and Reset                           |                     |
| Discard Changes and /----- Save & reset -----\|
| Default Options                                 | Save configuration and reset? |
| Restore Defaults                               |                               |
| Boot Override                                  | Yes           No           | Select Screen
| UEFI OS (P4: M.2 (S4)\                         |-----/| Select Item
| Launch EFI Shell from                          | | : Select
|                                               | +/ -: Change Opt.
|                                               | F1: General Help
|                                               | F2: Previous Values
|                                               | F3: Optimized Defaults
|                                               | F4: Save & Exit
|                                               | ESC: Exit
-----+-----
```

Disabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the USB-A to USB-C cable.
2. Open the terminal emulator and enter the serial port and baud rate (115200).
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall's startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.

```
  Main  Advanced  Chipset  Security  Boot  Save & Exit
-----+-----
| Password Description                             |Set Administrator    |
|                                                    |Password             |
| Administrator Password                           |                     |
|> Secure Boot                                     |                     |
|                                                    |-----|
|><: Select Screen
|^v: Select Item
|Enter: Select
|+/-: Change Opt.
|F1: General Help
|F2: Previous Values
|F3: Optimized Defaults
|F4: Save & Exit
|ESC: Exit
-----+-----
```



- 6. Change the status of the **Secure Boot** parameter to **Disabled**.
- 7. Change the status of the **Secure Boot Mode** parameter to **Custom**.

```
Security
-----+-----
System Mode      User      | Secure Boot feature is
Secure Boot      [Disabled] | Active if Secure Boot
                  Not Active | is Enabled,
Secure Boot Mode [Custom]  | Platform Key(PK) is
> Restore Factory Keys | enrolled and the System
> Reset To Setup Mode  | is in User mode.
> Key Management      | The mode change
                       | requires platform reset
                       |
                       | ><: Select Screen
                       | ^v: Select Item
                       | Enter: Select
                       | +/-: Change Opt.
                       | F1: General Help
                       | F2: Previous Values
                       | F3: Optimized Defaults
                       | F4: Save & Exit
                       | ESC: Exit
-----+-----
```

- 8. Press **[Esc]** and go to the **Save & Exit** tab.
- 9. Select **Save Changes and Reset** and press **[Enter]**.
- 10. In the **Save & Reset** window, select **Yes** then press **[Enter]**.

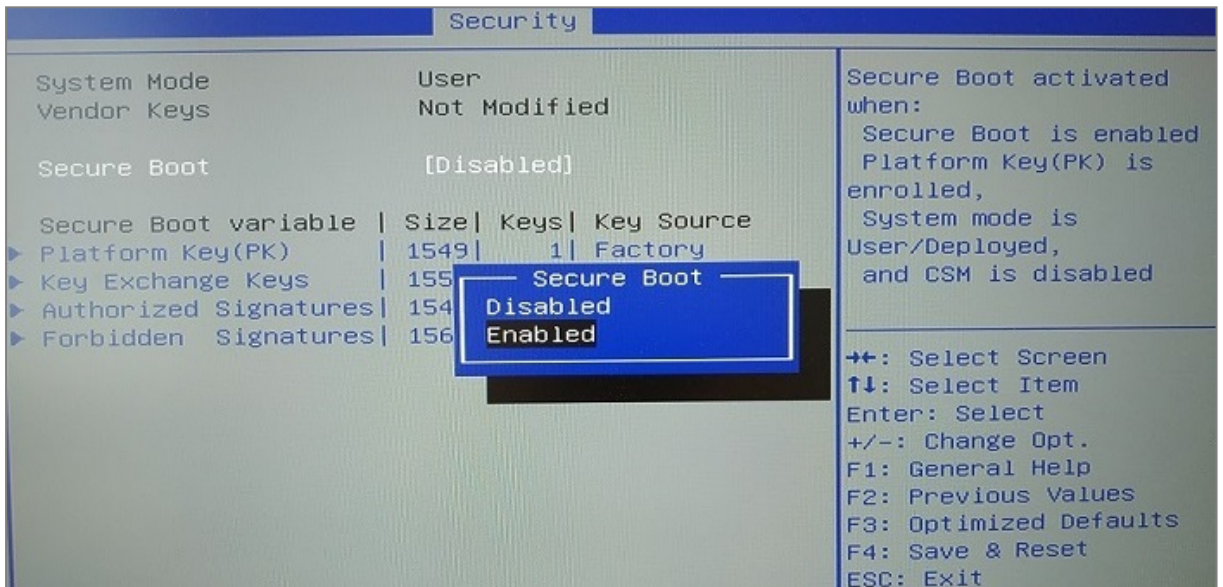
```
Main Advanced Chipset Security Boot Save & Exit
-----+-----
Save Options      | Reset the system after
Save Changes and Exit | saving the changes.
Discard Changes and Exit
Save Changes and Reset
Discard Changes and /----- Save & reset -----\
Default Options  | Save configuration and reset? |
Restore Defaults |
Boot Override    | Yes          No          |
UEFI OS (P4: M.2 (S4\-----/
Launch EFI Shell from
                       | Select Screen
                       | Select Item
                       | [E]: Select
                       | +/-: Change Opt.
                       | F1: General Help
                       | F2: Previous Values
                       | F3: Optimized Defaults
                       | F4: Save & Exit
                       | ESC: Exit
-----+-----
```



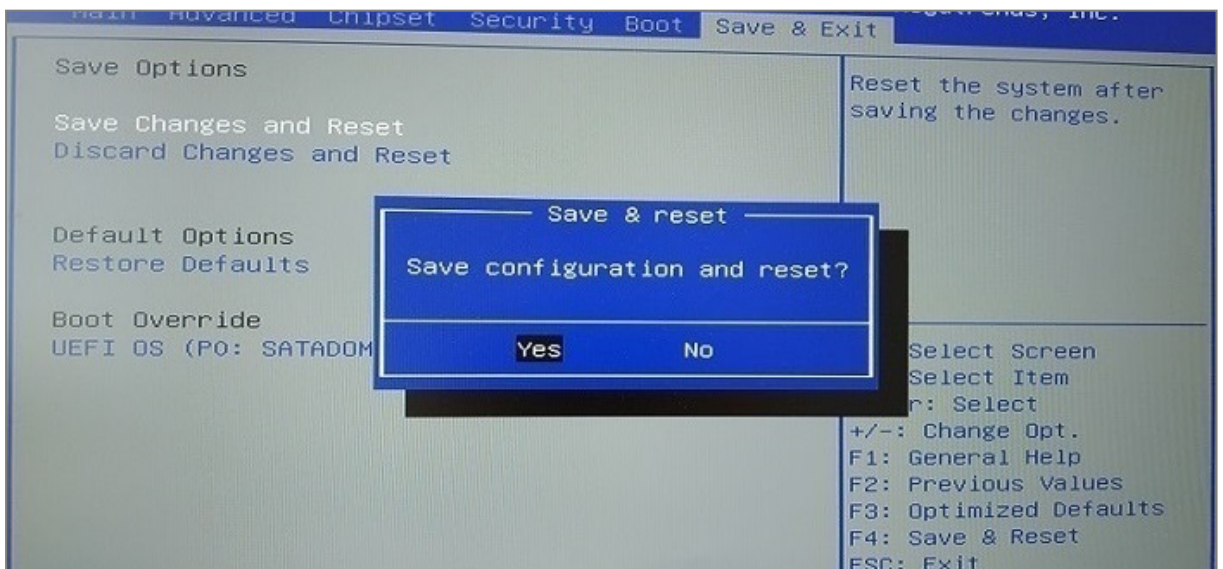

SN1100 and SN3100

Enabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the RJ45 to RS232 serial cable.
2. Open the terminal emulator and enter the serial port and baud rate (115200).
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.
6. Select **Secure Boot** again and press **[Enter]**.
7. Select **Enabled** and press **[Enter]**.



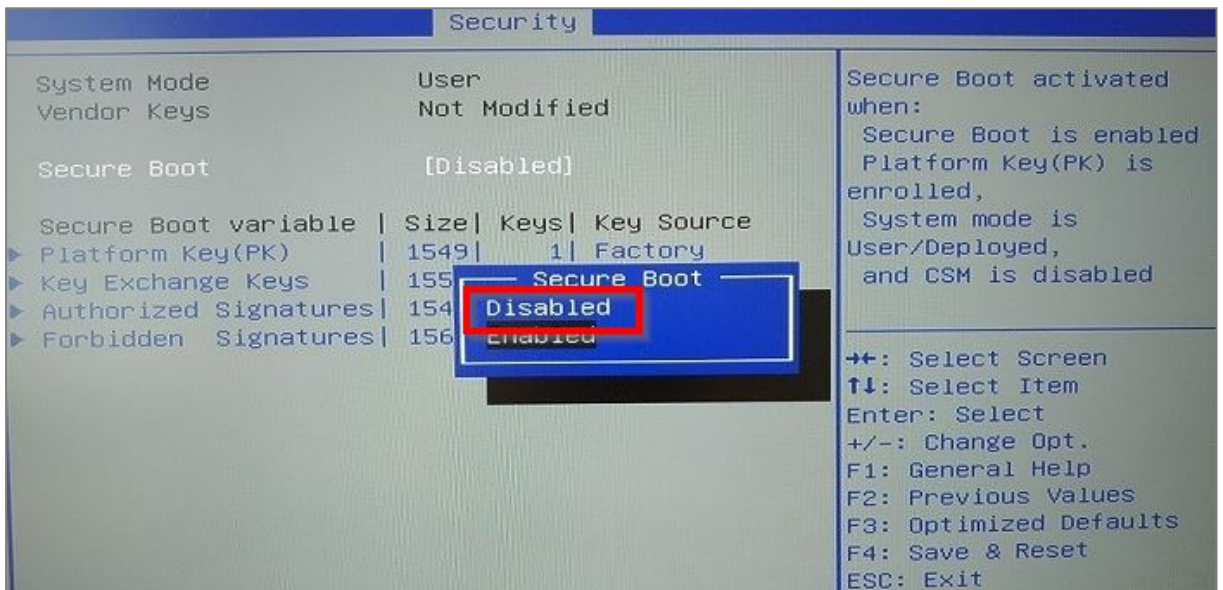
8. Press **[Esc]** and go to the **Save & Exit** tab.
9. Select **Save Changes and Reset** and press **[Enter]**.
10. In the *Save & Reset* window, select **Yes** then press **[Enter]**.



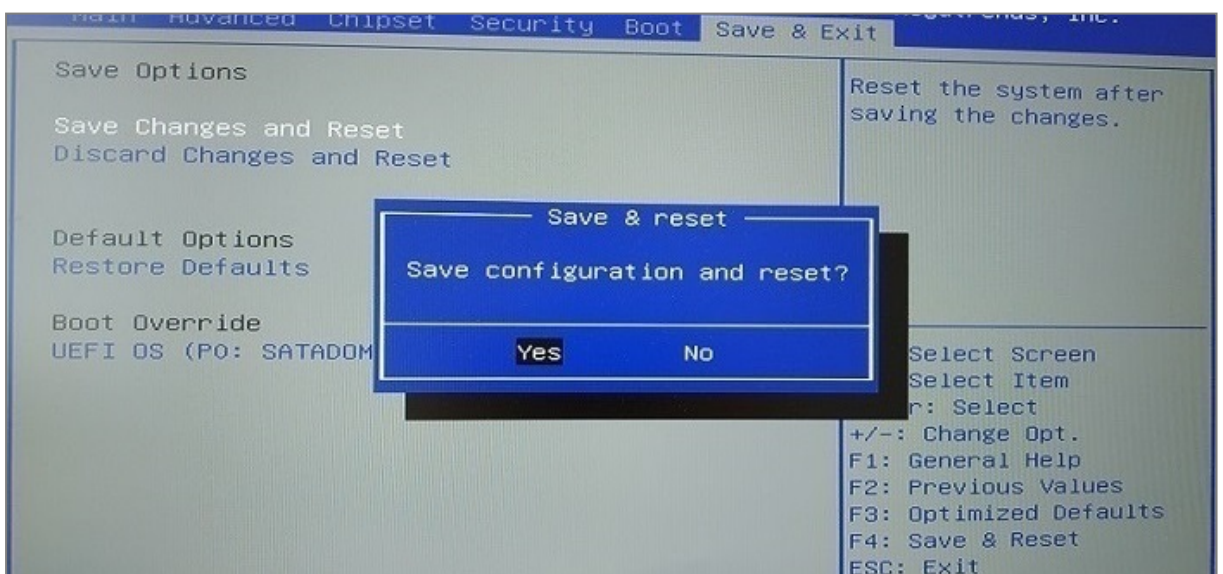


Disabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the RJ45 to RS232 serial cable.
2. Open the terminal emulator and enter the serial port and baud rate (115200).
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.
6. Select **Secure Boot** again and press **[Enter]**.
7. Select **Disabled** and press **[Enter]**.



8. Press **[Esc]** and go to the **Save & Exit** tab.
9. Select **Save Changes and Reset** and press **[Enter]**.
10. In the **Save & Reset** window, select **Yes** then press **[Enter]**.

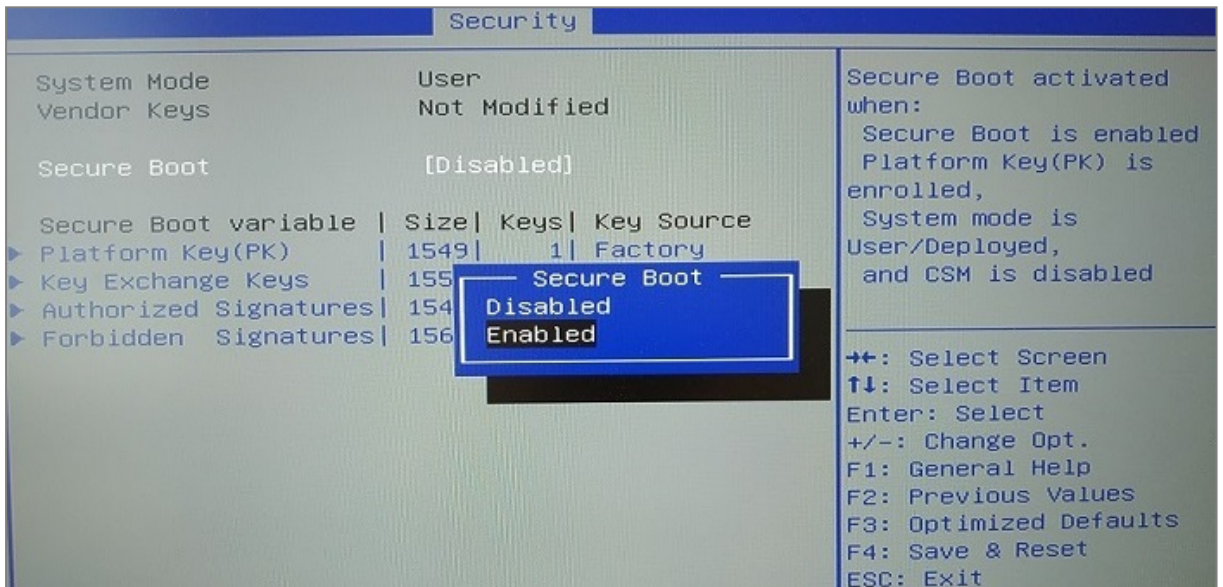




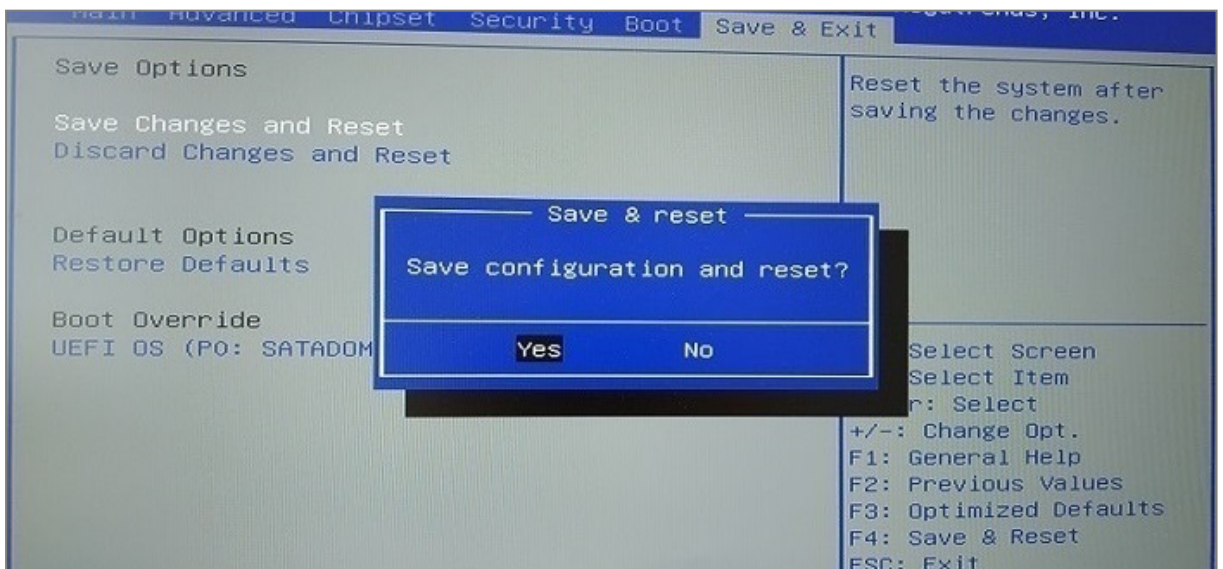
SNi20

Enabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the RJ45 to RS232 serial cable.
2. Open the terminal emulator and enter the serial port and baud rate (115200).
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.
6. Select **Secure Boot** again and press **[Enter]**.
7. Select **Enabled** and press **[Enter]**.



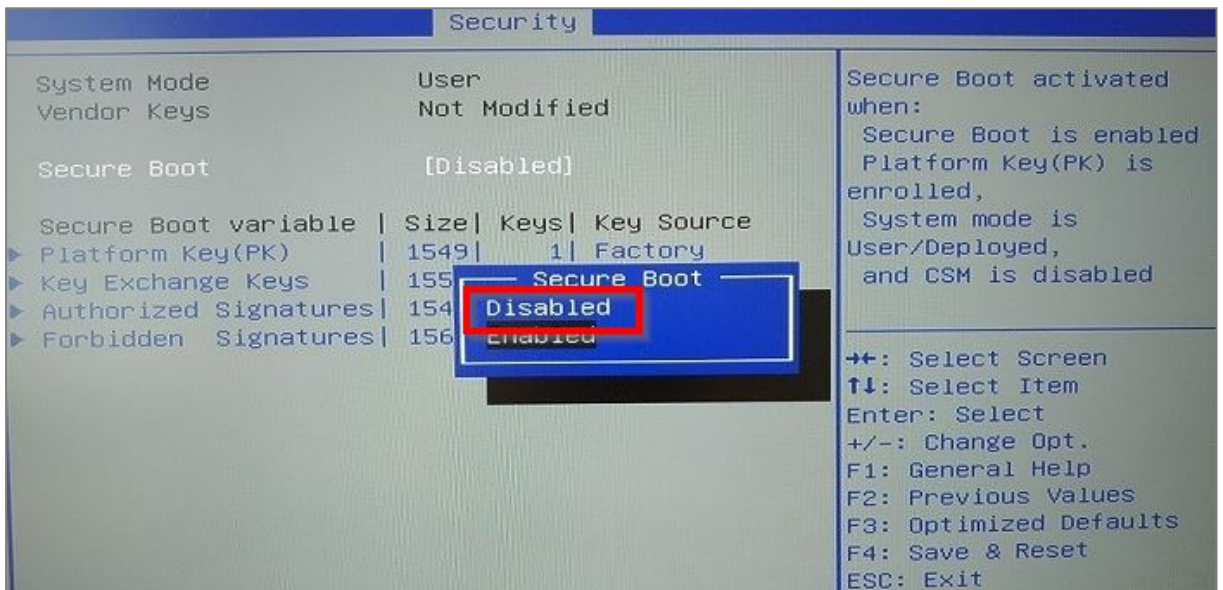
8. Press **[Esc]** and go to the **Save & Exit** tab.
9. Select **Save Changes and Reset** and press **[Enter]**.
10. In the **Save & Reset** window, select **Yes** then press **[Enter]**.



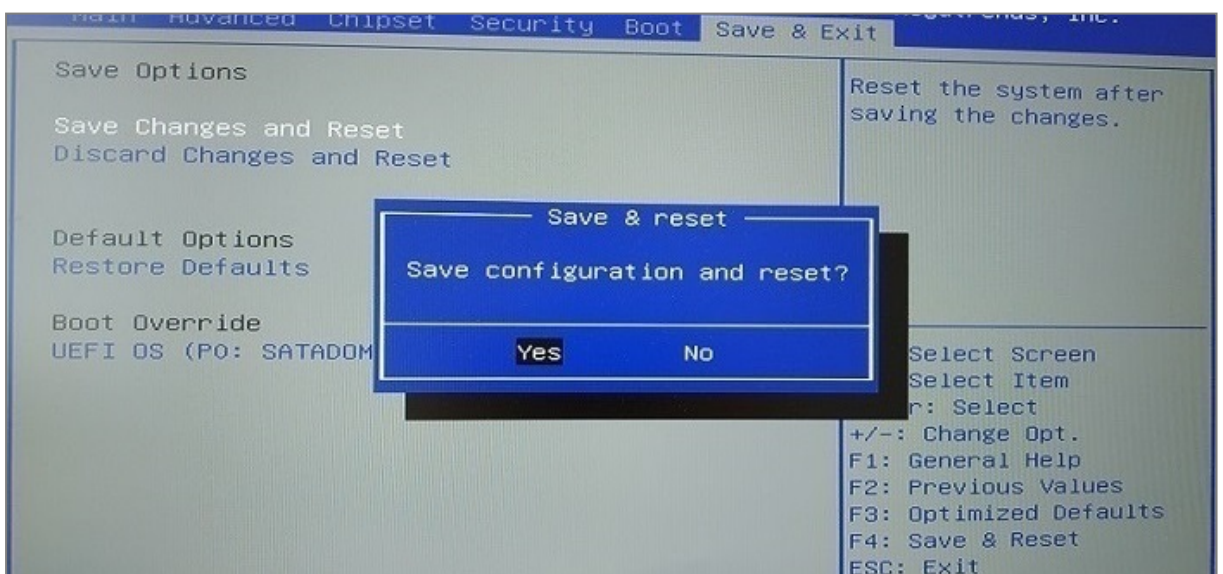


Disabling Secure Boot in the SNS firewall's UEFI

1. Connect the computer to the SNS firewall using the RJ45 to RS232 serial cable.
2. Open the terminal emulator and enter the serial port and baud rate (115200).
3. Restart the SNS firewall and immediately press **[Del]** several times to stop the SNS firewall startup sequence.
4. Go to the **Security** tab by using the arrow keys.
5. Select **Secure Boot** and press **[Enter]**.
6. Select **Secure Boot** again and press **[Enter]**.
7. Select **Disabled** and press **[Enter]**.



8. Press **[Esc]** and go to the **Save & Exit** tab.
9. Select **Save Changes and Reset** and press **[Enter]**.
10. In the **Save & Reset** window, select **Yes** then press **[Enter]**.





Further reading

Additional information and answers to questions can be found in the [Stormshield knowledge base](#) (authentication required).



STORMSHIELD

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