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04/06/2023

FortiSIEM 6.6.0 FIPS Support

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Change Log

Date	Change Description
06/30/2020	Initial version of this manual.
03/23/2021	6.2.0 release.
05/06/2021	6.2.1 release.
07/06/2021	6.3.0 release.
08/26/2021	6.3.1 release.
10/15/2021	6.3.2 release.
12/22/2021	6.3.3 release.
01/18/2022	6.4.0 release.
05/09/2022	6.5.0 release.
07/26/2022	6.6.0 release.
09/12/2022	6.5.1 release.
09/14/2022	6.6.1 release.
09/19/2022	6.6.2 release.
01/03/2023	6.6.3 release.
04/06/2023	Minor re-structuring of guide.

FIPS Support

- Cryptographic Algorithms
- Erasing Disk Contents

Cryptographic Algorithms

The following table displays the certificate numbers for Red Hat Enterprise Linux 7, because Red Hat Enterprise Linux 8 is under certification.

Rocky Linux 8 Module	Version in FortiSIEM 6.6.0
NSS	nss-3.44.0-8.el8.x86_64
OpenSSL	openssl-1.1.1c-2.el8_1.1.x86_64
OpenSSH and OpenSSH Server	openssh-8.0p1-3.el8.x86_64 openssh-server-8.0p1-3.el8.x86_64
libSSH	libssh-0.9.0-4.el8.x86_64 libssh-0.9.0-4.el8.i686
OpenJDK	java-1.8.0-openjdk-1.8.0.252.b09-2.el8_1.x86_64

The following table displays the cryptographic algorithms and their use in various Rocky Linux 8 modules used by FortiSIEM 6.6.0.

Algorithm	Used By Rocky Linux 8 Module
SHA256	NSS, OpenSSL
SHA384	NSS, OpenSSL
SHA512	NSS,
HMAC-SHA1	NSS, OpenSSH
HMAC-SHA1-ETM	OpenSSH, libSSH
HMAC-SHA256	NSS,
HMAC-SHA2-256	OpenSSH
HMAC-SHA2-256-ETM	OpenSSH, libSSH
HMAC-SHA2-512	OpenSSH, libSSH

HMAC-SH2-512-ETM OpenSSH, libSSH HMAC-SHA384 NSS HMAC-SHA512 NSS HMAC-SH2-512 OpenSSH SECP256R1 NSS, SECP384R1 NSS, SECP521R1 NSS, aes128-gcm NSS, OpenSSL, OpenSSH aes128-dcr NSS, OpenSSH aes128-dcbc OpenSSH aes256-gcm NSS, OpenSSL, OpenSSH aes256-dcbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha512 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH	Algorithm	Used By Rocky Linux 8 Module
HMAC-SHA512 NSS HMAC-SHA2-512 OpenSSH SECP256R1 NSS, SECP384R1 NSS, SECP521R1 NSS, ses128-gcm NSS, OpenSSL, OpenSSH ses128-dcr NSS, OpenSSH ses128-bcb OpenSSH ses256-gcm NSS, OpenSSL, OpenSSH ses256-bcb NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS sedh-sha2-nistp256 OpenSSH sedh-sha2-nistp384 OpenSSH sedh-sha2-nistp521 OpenSSH bdfffe-hellman-group-exchange-sha256 OpenSSH, libSSH ddfffe-hellman-group14-sha256 OpenSSH, libSSH ddfffe-hellman-group16-sha512 OpenSSH, libSSH ddfffe-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH	HMAC-SHA2-512-ETM	OpenSSH, libSSH
HMAC-SHA2-512 OpenSSH SECP256R1 NSS, SECP384R1 NSS, SECP521R1 NSS, aes128-gcm NSS, OpenSSH, OpenSSH aes128-dcr NSS, OpenSSH aes128-bc OpenSSH aes256-gcm NSS, OpenSSL, OpenSSH aes256-bc OpenSSH aes256-bc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	HMAC-SHA384	NSS
SECP256R1 NSS, SECP384R1 NSS, SECP521R1 NSS, aes128-gcm NSS, OpenSSI, OpenSSH aes128-ctr NSS, OpenSSH aes128-cbc OpenSSH aes256-gcm NSS, OpenSSI, OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha526 OpenSSH, libSSH diffie-hellman-group16-sha512 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	HMAC-SHA512	NSS
SECP384R1 NSS, SECP521R1 NSS, aes128-gcm NSS, OpenSSI, OpenSSH aes128-ctr NSS, OpenSSH aes128-cbc OpenSSH aes256-gcm NSS, OpenSSI, OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS difffe-hellman-group-exchange-sha256 OpenSSH, libSSH difffe-hellman-group14-sha526 OpenSSH, libSSH difffe-hellman-group16-sha512 OpenSSH, libSSH difffe-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	HMAC-SHA2-512	OpenSSH
SECP521R1 NSS, aes128-gcm NSS, OpenSSL, OpenSSH aes128-ctr NSS, OpenSSH aes128-cbc OpenSSH aes256-gcm NSS, OpenSSL, OpenSSH aes256-ctr OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	SECP256R1	NSS,
aes128-gcm NSS, OpenSSH aes128-ctr NSS, OpenSSH aes128-cbc OpenSSH aes256-gcm NSS, OpenSSL, OpenSSH aes256-ctr OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffle-hellman-group-exchange-sha256 OpenSSH, libSSH diffle-hellman-group14-sha256 OpenSSH, libSSH diffle-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	SECP384R1	NSS,
aes128-ctr NSS, OpenSSH aes128-cbc OpenSSH aes256-gcm NSS, OpenSSL, OpenSSH aes256-ctr OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	SECP521R1	NSS,
aes128-cbc OpenSSH aes256-gcm NSS, OpenSSL, OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	aes128-gcm	NSS, OpenSSL, OpenSSH
aes256-gcm NSS, OpenSSL, OpenSSH aes256-ctr OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH rsa-sha2-sha2-nistp256 OpenSSH, libSSH	aes128-ctr	NSS, OpenSSH
aes256-ctr OpenSSH aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	aes128-cbc	OpenSSH
aes256-cbc NSS, OpenSSH ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH rsa-sha2-sha2-nistp256 OpenSSH, libSSH	aes256-gcm	NSS, OpenSSL, OpenSSH
ECDHE-RSA NSS ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha512 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	aes256-ctr	OpenSSH
ECDHE-ECDSA NSS ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group16-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	aes256-cbc	NSS, OpenSSH
ecdh-sha2-nistp256 OpenSSH ecdh-sha2-nistp384 OpenSSH ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group16-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	ECDHE-RSA	NSS
ecdh-sha2-nistp384 ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH OpenSSH, libSSH	ECDHE-ECDSA	NSS
ecdh-sha2-nistp521 OpenSSH DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group16-sha512 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	ecdh-sha2-nistp256	OpenSSH
DHE-RSA NSS diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group16-sha512 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	ecdh-sha2-nistp384	OpenSSH
diffie-hellman-group-exchange-sha256 OpenSSH, libSSH diffie-hellman-group14-sha256 OpenSSH diffie-hellman-group16-sha512 OpenSSH, libSSH diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	ecdh-sha2-nistp521	OpenSSH
diffie-hellman-group14-sha256 OpenSSH, libSSH diffie-hellman-group16-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	DHE-RSA	NSS
diffie-hellman-group16-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	diffie-hellman-group-exchange-sha256	OpenSSH, libSSH
diffie-hellman-group18-sha512 OpenSSH, libSSH rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	diffie-hellman-group14-sha256	OpenSSH
rsa-sha2-256 OpenSSH, libSSH rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	diffie-hellman-group16-sha512	OpenSSH, libSSH
rsa-sha2-256-cert-v01 OpenSSH, libSSH rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	diffie-hellman-group18-sha512	OpenSSH, libSSH
rsa-sha2-512 OpenSSH, libSSH rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	rsa-sha2-256	OpenSSH, libSSH
rsa-sha2-512-cert-v01 OpenSSH, libSSH ecdsa-sha2-nistp256 OpenSSH, libSSH	rsa-sha2-256-cert-v01	OpenSSH, libSSH
ecdsa-sha2-nistp256 OpenSSH, libSSH	rsa-sha2-512	OpenSSH, libSSH
·	rsa-sha2-512-cert-v01	OpenSSH, libSSH
	ecdsa-sha2-nistp256	OpenSSH, libSSH
ecdsa-sha2-nistp256-cert-v01 OpenSSH, libSSH	ecdsa-sha2-nistp256-cert-v01	OpenSSH, libSSH
ecdsa-sha2-nistp384 OpenSSH, libSSH	ecdsa-sha2-nistp384	OpenSSH, libSSH

Algorithm	Used By Rocky Linux 8 Module
ecdsa-sha2-nistp384-cert-v01	OpenSSH, libSSH
ecdsa-sha2-nistp521	OpenSSH, libSSH
ecdsa-sha2-nistp512-cert-v01	OpenSSH, libSSH

Erasing Disk Contents

- Run the prepare_boot_loader Script
- Run the boot_loader_operations Script
- · Verify the Disk is Erased

One of the requirements for FIPS compliance is the ability to erase the contents of any disk. The Disk Zerioization feature removes the contents of the disk by replacing it with zeros (0).

The shell scripts prepare_boot_loader.sh and boot_loader_operations.sh erase all of the data from all of the disks in the FortiSIEM system. The prepare_boot_loader.sh script loads the FortiSIEM boot loader. The boot_loader_operations.sh script automatically reads all the disks, including OS disk, and iteratively fills them with zeros twice to ensure that no data remains on the disk.

Only the root user can run the <code>prepare_boot_loader.sh</code> and <code>boot_loader_operations.sh</code> scripts. Once the scripts complete the erasing, the user will not be able to login into the system. No utilities will be able to fetch data from the erased disks.

Run the prepare_boot_loader Script

Follow these steps to run the prepare boot loader.sh script:

- 1. Log in to the system as user root and password ProspectHills. **Note:** you might be required to change your password after logging in.
- 2. Navigate to /usr/local/bin in the FortiSIEM server.

```
localhost login: root
Password:
You are required to change your password immediately (administrator enforced)
Current password:
New password:
Retype new password:
[root@localhost ~]# cd /usr/local/bin
[root@localhost bin]# _
```

- 3. Run the script prepare_boot_loader.sh. The system will be rebooted.
 # prepare boot loader.sh
- 4. Use the arrow keys on the keyboard to select FortiSIEM Boot Loader from the boot menu. Press Enter.

```
CentOS Linux (4.18.0-147.8.1.el8_1.x86_64) 8 (Core)
CentOS Linux (4.18.0-147.el8.x86_64) 8 (Core)
CentOS Linux (0-rescue-c9d73af0d5f746ceba8ad499bdb6c990) 8 (Core)
FortiSIEM Boot Loader
```

5. After some minutes, the Boot Loader shell will appear.

Run the boot_loader_operations Script

Follow these steps to run the boot loader operations.sh script:

- 1. Log in to the Boot Loader shell as user root, with the default password. If you changed the password above, use the new password instead.
- 2. Navigate to /usr/bin.
- 3. Run the boot_loader_operations.sh script.
 # boot loader operations.sh

A simple UI will open where you can initiate the Zeroize operation.

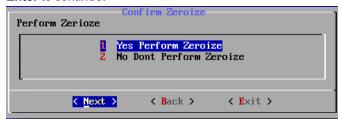
4. In the Select Operations to Perform dialog box, select 1 Zerioze. Select Next and press Enter to continue.



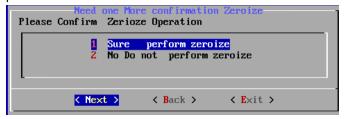
5. Read the contents In the **AGREEMENT** dialog box carefully. Select **Yes** and press **Enter** to continue. Otherwise, select **No** and press **Enter** to exit the script.



6. If you click **Yes**, a dialog box to confirm Zeroize appears. Click **1 Yes Perform Zeroize**. Select **Next** and press **Enter** to continue.



7. If you click **Next**, another dialog box to reconfirm Zeroize appears. Click **1 Sure perform zeroize**. Select **Next** and press **Enter** to continue.



8. The Zeroize process starts:

Depending on the size of disks and amount of data present, it may take a long time to complete the Zeroize operation. After the script completes, you should not be able to boot the system.

Verify the Disk is Erased

Run the following command for each disk to verify that the script has erased all of the data. The purpose of the command is to determine if any non-zero characters exist.

```
dd if=/dev/sdx 2>/dev/null | /iszero >sdx-nonzerochars.txt
```

Where \mathbf{x} represents the name of the disk you attached. The contents of the $sd\mathbf{x}$ -nonzerocharars.txt file should be empty.

For example, if you attached a disk b:

```
dd if=/dev/sdb 2>/dev/null | /iszero >sdb-nonzerochars.txt
```

If you attached a disk c:

```
dd if=/dev/sdc 2>/dev/null | /iszero >sdc-nonzerochars.txt
```



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