



Migration Guide

AWS Elemental Live



AWS Elemental Live: Migration Guide

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About this guide

This guide describes how to upgrade a AWS Elemental Live to a version in the range of 2.26.1 to 2.26.5. It applies to a standalone deployment of Elemental Live. (If you are using Elemental Live in a cluster, see the [AWS Elemental Conductor Live Migration Guide](#).)

This special guide exists because an upgrade to a version in that range requires that you install the RHEL 9 version of the Linux operating system.

See [AWS Elemental Live Upgrade Guide](#) if the following situations apply:

- You are upgrading to a version earlier than 3.26.1.
- You have migrated to a 3.26 version, and you now want to upgrade to a higher 3.26.x version to 3.27.x or higher.

Note

For assistance with your AWS Elemental appliances and software products, see the [AWS Elemental Support Center](#).

Important notes

Following is some key advice about migration.

Monitor ongoing migration issues

Before you start the migration, read the [current Release Notes](#). The Essential Notes section of the release notes includes topics about recently discovered issues.

For each issue, the release notes initially describe the issue and specify the conditions for continuing with the migration. These issues might affect assets such as the lifeboat script that you use to create a database backup. We can often fix issues without waiting for a new release of the AWS Elemental software.

When an issue is fixed, we either revise the current release notes or include new information in the release notes for the new software release.

Test in a lab

We strongly recommend that you test the entire migration procedure in your lab. This strategy lets you test the migration process itself, and test the entire workflow on the new software.

Migrating to AWS Elemental Live version 2.26

This procedure describes how to upgrade an appliance that is running AWS Elemental Live from a version below x.26.0 and migrate them to version x.26.1 or higher.

Important

We strongly recommend that you test the entire migration procedure in your lab. This strategy lets you test the migration process itself, and test the entire workflow on the new software.

In this procedure, we show how to upgrade Elemental Live version 2.25.5 to version 2.26.0. Modify the commands you enter to match your versions.

Topics

- [Step A: Get ready for Elemental Live migration](#)
- [Step B: Prepare the Elemental Live node for migration](#)
- [Step C: Stop running events](#)
- [Step D: Create a Elemental Live backup](#)
- [Step E: Switch boot mode to UEFI](#)
- [Step F: Install RHEL 9 on an Elemental Live node](#)
- [Step G: Install worker software on an Elemental Live node](#)
- [Step H: Restore the database on a Elemental Live node](#)
- [Step I: Configure the Elemental Live node after migration](#)

Step A: Get ready for Elemental Live migration

Read the essential notes

Refer to the essential notes in the [current Release Notes](#) to identify key changes to the behavior of Elemental Live.

⚠ Important

Make sure that you have the latest version of the Release Notes. If you downloaded the file more than a few days ago, we recommend that you download it again.

Follow the instructions in the Release Notes to prepare for these changes. Make a note of all the decisions that you make, particularly:

- If you have Elemental Live nodes that have a Mellanox NIC, you must decide whether you will include the `-skip-mellanox` option in the install command on the node.
- If you have Elemental Live nodes that handle SMPTE 2110 inputs or outputs, you must a new license for each. The procedure for obtaining a new license is described in the essential notes.

Modify your automation system for HTTPS

After a node has been migrated, it uses HTTPS. By default, the nodes are set up with self-signed certificates. Make sure of the following points:

- You might need to change your automation system to use HTTPS.
- In addition, if you decide not to provide custom certificates, use HTTPS with the `-k` option.

Verify installer type

The software installer that you use depends on whether you have GPU-accelerated software type, or CPU-only. To determine the type of software, look at any page on the web interface of each worker node. At the top, look for these icons:

- CPU and GPU icons: the software is *GPU-accelerated*.
- CPU icon only: the software is *CPU-only*.

Create a boot USB drive

On Dell hardware, you have the option to install RHEL 9 by using a boot USB drive or by using or iDRAC (for Dell). (Note that SuperMicro hardware, you can only install RHEL 9 by using IPMI.)

If you want to use a boot USB drive with Dell, you should make the drive now. You might want to make several drives, depending on how many people will be performing the migration tasks.

To create a boot drive, follow these steps:

1. Obtain the RHEL 9 .iso file from [AWS Elemental Software Download page](#).

Find the AWS Elemental product and version they are planning to use. The appropriate ISO file appears beside that version.

2. At your workstation, use a third-party utility (such as PowerISO or ISO2USB) to create a bootable USB drive from your .iso file. For help, go to the [AWS Elemental Support Center](#), and read the Knowledge article [Creating Bootable Recovery \(kickstart\) Media](#).

Obtain information

When you install RHEL 9, the *elemental* password will be reset to the global default value. When you install the AWS Elemental software, you will need to enter this default password.

If your organization had previously kickstarted an AWS Elemental appliance, someone in your organization might have the global default password. Note that this global default password isn't the same as the unique default password that applied when you first obtained the appliance.

If you need help finding the password, go to the [AWS Elemental Support Center](#), and read the Knowledge article [Unique passwords for AWS Elemental appliances](#) or open a case.

Verify space on the node

As part of the upgrade, you create a backup of the data on the node. You must make sure that you have enough free space for the backup. Follow these guidelines:

- The backup for a freshly kickstarted and licensed appliance generates a 5 MB backup directory and a 2 MB zipped version of the backup (<hostname>_lifeboat-archive.zip).
- Your configuration will generate larger files because of the data that you create, so review available space before starting.
- Check the contents of the /home partition, and clear out old files, unnecessary files, and old installers.

Step B: Prepare the Elemental Live node for migration

Upgrade to the latest 2.25 minor version

To upgrade to version 2.26.0 or higher, the software currently installed on the node must be version 2.25.5 or higher. For instructions about how to upgrade to that version, see the [AWS Elemental Live Upgrade Guide](#).

Verify access to the BMC on the appliances

Make sure that you have access to the BMC on each appliance:

- On a Dell server, make sure that iDRAC is installed and that you can start it.
- On an SMC server, make sure that IPMI is installed and that you can install it.

You can install iDRAC or IPMI even when Elemental Live is running events.

Update firmware

Both the BIOS firmware and the BMC firmware (IPMI for SuperMicro, iDRAC for Dell) must be at the latest versions that have been qualified by AWS Elemental. They must be at the latest versions before you can set the [boot mode to UEFI](#). To obtain the versions, go to the [AWS Elemental Support Center](#), and read the Knowledge article [Latest AWS Elemental Qualified Remote Management and BIOS Firmware](#) or open a case.

We recommend that you update the firmware on all your nodes at the same time. We also recommend that you perform this update during a maintenance window. After you install the firmware, you must reboot the node. For more information, see [the section called "Update firmware"](#).

Make a note of router information

This information applies if the appliance is connected to an SDI input using a router. After you upgrade, the node will still have information about the SDI inputs and about the router, but it will be missing the mapping from the inputs to the router.

In order to reconfigure the information accurately, make a note of the current configuration: on the Elemental Live web interface, hover over **Settings** and choose **Routers**.

Move custom files

You might have custom files in `/opt/elemental_se/scripts` on the node. These are files that you created. They aren't part of the installation of the Elemental Live software, and they aren't backed up and restored.

Copy these files to storage off the node, so that you can copy the files back to the node after you've upgraded it.

Step C: Stop running events

Stop all the events that are running on the node.

Step D: Create a Elemental Live backup

You must create a backup of the data on the node. You back up data using the special lifeboat script.

Topic

Important

The lifeboat script creates a backup of multiple files that are relevant to the AWS Elemental software. These files might include credentials and other sensitive system information. Handle the backup according to your organization's best practices for handling sensitive data.

About the backup process

The script backs up the following data:

- Licenses.
- Network settings for the node, including Ethernet configurations, DNS information, and host addresses.
- Timecode configuraton such as NTP, PTP, and chronyd.
- Firewall settings.

- SSL certificates.
- Optionally, the user credentials used in various components on the node. It is convenient to include these credentials, if your organization's policies allow them to be handled in this way.
- Configuration files for features of the AWS Elemental software.
- Remote storage mounts.
- Node data. Data such as data about the events and MPTSes.

Step D1: Verify hostnames

RHEL 9 (specifically `systemd`) doesn't support underscores in hostnames. If the node contain underscores, there are two ways to proceed:

- Continue with this procedure. When you run the lifeboat script, a prompt will appear that will force you to change the hostname if it includes an underscore.
- Change the hostname before you run the lifeboat script. To change a hostname, see the Red Hat documentation.

If your migration process means that you don't run the lifeboat script for any reason, make sure that you change the hostname before you boot the node after installing RHEL 9.

Step D2: Download the lifeboat script

You must copy the lifeboat script onto every node.

1. Download the latest version of the lifeboat script from <https://a.co/ElementalRHEL9Lifeboat> to your laptop. The lifeboat file is called `elemental_lifeboat_el.tar`.

Important

Download the script just before you are ready to create the backup. AWS Elemental is continually making improvements to the script, therefore you want to make sure that you always have the latest version.

2. Copy the lifeboat file to the `/home/elemental` directory.
3. From the Linux prompt, use the `elemental` user to start a remote terminal session with the node. Don't log in as `sudo`.

4. Untar the lifeboat file.

```
[elemental@hostname ~]$ cd /home/elemental && tar xvf elemental_lifeboat_e19.tar
```

5. Change to the elemental_lifeboat_e19 directory.

```
[elemental@hostname ~]$ cd elemental_lifeboat_e19
```

Step D3: Create the backup

Important

Make sure that you have stopped all running events on the node. The script temporarily stops `elemental_se` and `httpd` services.

Enter the backup command as follows:

```
[elemental@hostname ~]$ ./lifeboat.sh --backup --include-creds
```

Where `--include-creds` (optional) includes the following credentials in the backup: SSH, AWS, SMB/CIFs.

Results of the backup

The script creates the following assets:

- Asset 1. One version of the data that is compatible with 2.26.0 or later. When you restore the backup after you've installed RHEL 9, the lifeboat script will automatically select and copy over this version.
- Asset 2. One version of the data that is compatible with 2.25.x and earlier. You might later decide to downgrade a node back to a version below 2.26.0. When you restore the backup after you've installed RHEL 7 or CentOS 7, the lifeboat script will automatically select and copy over this version.
- Asset 3. An MD5 checksum of the contents of asset 3.
- Asset 4. A SHA1 checksum of the content of asset 3.

The script also creates the following files:

- File 1. A file that contains assets 1 and 2. The file has this name, where `hostname` is the name of the current node:

```
<hostname>_lifeboat-archive.zip
```

- File 2. A file that contains assets 3 and 4. The file has this name, where `hostname` is the name of the current node:

```
<hostname>_lifeboat-archive_export-checksum.txt
```

- File 3. A file that contains assets 1, 2, 3 and 4. The file is stored on the current node at this location:

```
/opt/upgrade-backups/system-backup.tar.gz
```

Step D4: Store the backup archive

Copy two files to storage off the node, so that you can copy them back to the node when you want to perform the restore operation. The files to store off the node are the following:

- `<hostname>_lifeboat-archive.zip` (File 1)
- `<hostname>_lifeboat-archive_export-checksum.txt` (File 2)

Important

The lifeboat script creates a backup of multiple files that are relevant to the AWS Elemental software. These files might include credentials and other sensitive system information. Handle the backup according to your organization's best practices for handling sensitive data.

Step D5: Verify the backup

Verify the integrity of the backup archive. This step is optional but we strongly recommend that you follow it because the restore operation that you [later perform](#) might fail if the backup file is corrupted.

You verify the integrity by comparing the checksum that the backup script creates to the checksum that you perform on the `<hostname>_lifeboat-archive_export-checksum.txt` file. You can compare an MD5 or a SHA1 checksum.

1. Enter the `cat` command to view the checksums currently listed in the checksum file.:

```
~]$ cat <hostname>_lifeboat-archive_export-checksum.txt
```

The `cat` command simply displays the file contents on your screen.

2. Now run a checksum command on the `lifeboat-archive.zip` file.

On a Linux system, enter this command:

```
~]$ md5sum /home/elemental/<hostname>_lifeboat-archive.zip
```

On a macOS system, enter this command:

```
~]$ shasum /home/elemental/<hostname>_lifeboat-archive.zip
```

On a Windows system, enter this command:

```
~]$ certutil -hashfile <hostname>_lifeboat-archive.zip MD5
```

3. Compare the results from step 1 to the results from step 2. If the checksums don't match, copy the archive file to remote storage again and compare the results again.

Step E: Switch boot mode to UEFI

RHEL 9 requires that the boot mode for the appliance is UEFI. You can change the boot mode from BIOS (or Legacy mode) to UEFI.

Topics

- [Switch to UEFI on a Dell](#)
- [Switch to UEFI on a SuperMicro](#)

Switch to UEFI on a Dell

There are three ways to switch the boot mode from Legacy mode to UEFI.

Topics

- [Switch using the iDRAC user interface](#)
- [Switch using RACADM](#)
- [Switch using the F2 boot menu](#)

Switch using the iDRAC user interface

iDRAC is a system for controlling Dell servers remotely. It is already installed and enabled on the Dell server. However, you might need to configure it. For more information about configuring iDRAC, see the official [Dell iDRAC User Guide](#).

This procedure is identical to the procedure for switching to BIOS, except that you choose **UEFI** instead of **BIOS**.

1. Log into the iDRAC user interface as an administrative user.
2. On the iDRAC menu, choose **Configuration**, then **BIOS Settings**, then **Boot Settings**.
3. On the **Boot Mode** line, change the **Current Value** from **BIOS** to **UEFI**.
4. Scroll down to the **Apply** button and choose that button. The **Pending Value** changes to **UEFI**.
5. Scroll down to the bottom of the page and choose **Apply And Reboot**.

The system reboots. UEFI is now enabled.

Switch using RACADM

You can switch to UEFI mode by logging into RACADM, which is the iDRAC command line interface.

This procedure is identical to the procedure for switching to BIOS, except that you specify **UEFI** instead of **BIOS**.

1. Start a Linux session and log into the iDRAC command line interface as a Linux Admin user. For example:

```
ssh ADMIN@<iDRAC hostname or IP>
```

The iDRAC command line interface appears, with the **racadm>>** prompt.

2. To verify that the current boot environment is BIOS, enter this command:

```
get BIOS.biosBootSettings.BootMode
```

If the environment is BIOS, a message similar to the following appears:

```
[Key=BIOS.Setup.1-1#biosBootSettings]  
BootMode=Bios
```

3. Set the **BIOS settings** to **UEFI**:

```
set BIOS.BiosBootSettings.BootMode Uefi
```

4. Apply and reboot:

```
jobqueue create BIOS.Setup.1-1 -r Forced
```

The system reboots. UEFI is now enabled.

Switch using the F2 boot menu

You can use the boot menu from a direct connection to the server, or through the iDRAC virtual console.

This procedure is identical to the procedure for switching to BIOS, except that you specify **UEFI** instead of **BIOS**.

1. This step applies only if you want to use the virtual console: log into the iDRAC user interface and launch the Virtual Console.
2. Reboot the appliance.

```
sudo reboot
```

3. The appliance starts to reboot using BIOS, which is currently enabled.
4. As soon as the reboot starts, repeatedly press **F2** on the keyboard, until the message **Entering System Setup** appears. Then wait for the **System Setup** screen to appear.

5. Choose **System BIOS**, then choose **Boot Settings**.
6. On the **Boot Mode** line, choose **UEFI**.
7. Choose the **Exit** option and follow the prompts to save. At the success message, choose **OK**.

The system reboots. UEFI is now enabled.

Switch to UEFI on a SuperMicro

To switch the boot mode from BIOS (Legacy mode) to UEFI, you can use the IPMI interface, or you can work when directly connected to the server.

Step 1: Install Java applet

Decide if you want to use the IPMI management console, or if you plan to connect directly to the server. If you want to use the console, decide if you want to use the Java remote console applet to access the console, or if you want to use HTML5.

If you want to use the IPMI management console and you want to use the Java remote console applet, you must install the applet.

1. Make sure you have the IP address of the IPMI. If you don't have it, connect to the appliance using SSH, then type the following command:

```
sudo ipmiutil lan | grep Param\{3\}
```

The IP address appears in the response. For example:

```
Lan Param(3) IP address: 10 4 130 12
```

2. Log in to the IPMI management console via a web browser. Use the ADMIN credentials, with the user name entered in uppercase.
3. From the menu bar, choose **Console Redirection**, then **Launch Console**. The download of a JNLP file starts.
4. When the download is complete, open the applet. The applet is self signed. Typically, this file is already associated with Java so you should just be able to open it directly.
5. Change the security level in the Java control panel in order for the applet to run:
 - a. In Windows, open **Control Panel**, **Programs**, and then **Java**.

- b. Choose the **Security** tab. Move the slider to the lowest setting: **Medium**.
- c. Choose **OK**.

You can now open the remote console window.

Step 2: Change the mode to UEFI

This procedure is nearly identical to the procedure for switching to BIOS. You change the same fields on the **Setup Utility** screen.

1. From the IPMI management console, sign in to the server as the *elemental* user.
2. Reboot the system:

```
[elemental@hostname]$ sudo reboot
```

The system starts to reboot. The window size might change as the system is rebooting.

3. While the system is rebooting, repeatedly press the **Delete** key on the keyboard (or the **del** button on the virtual keyboard). The **Setup Utility** screen appears.

You can use these keys to work on the screen:

- The arrow keys
 - Enter to select
 - ESC to return to the previous screen.
4. On the main menu, choose **Advanced**.
 5. In **sSATA Configuration**, look for fields that have one of these values:
 - **BIOS**
 - **DUAL**
 - **Legacy**
 - **Legacy BIOS**

Change the value to **EFI**. If there are no fields with these values, go to the next step.

6. In **PCIe/PCI/PnP Configuration**, find every field that has one of these values:
 - **BIOS**
 - **DUAL**
 - **Legacy**

- **Legacy BIOS**

In each of these fields, change the value to **EFI**.

7. On the main menu, choose **Boot**. In **Boot Mode Select**, change the value from **DUAL** to **UEFI**.
8. Select **F4**. On the **Save & Exit** dialog, choose **Yes**.

Step F: Install RHEL 9 on an Elemental Live node

Topics

- [Install on a Dell](#)
- [Install on an SMC](#)

Install on a Dell

You can install RHEL 9 on a Dell chassis either from the iDRAC interface or using a USB stick.

Install using the iDRAC interface

Get Ready

1. Make sure that there are no physical USB drives plugged into the system.
2. Make sure that you are at a workstation that has direct access to the network that the iDRAC interface is on. (So don't use a VPN connection.)
3. Log into iDRAC through the web interface. Use an administrative username and password.
4. Launch the Virtual Console. On the main menu, select **Virtual Media**. On the next screen, select **Connect Virtual Media**. The **Virtual Media** screen appears.
5. In the **Map CD/DVD** section, in **Image File**, choose **Choose File**. In the window that appears, navigate to the kickstart .iso file, select it, and choose **Open**. The **Image File** field in the **Virtual Media** screen now specifies the image file.
6. Choose **Map Device**. Then at the bottom of the screen, choose **Close**.

The kickstart .ISO image file is now mapped to the virtual CD/DVD drive.

1. On the main menu of the Virtual Console, choose **Boot**. On the **Boot Controls** list, choose **Virtual CD/DVD/ISO**. Then at the **Confirm Boot Action** prompt, choose **Yes**.

2. On the main menu of the Virtual Console, choose **Power**, then choose **Reset System (warm boot)**, and at the **Confirm** prompt, choose **Yes**.

The system reboots into the kickstart .iso. Lines of text appear, and finally the prompt **Enter the server complete hostname** appears.

Install the operating system

1. At the **Enter the server complete hostname** prompt, enter the hostname that already applies to this node, then press **Enter**. The installation starts.
2. When the installation is complete, press **Enter** to quit and reboot.

Finishing steps

1. Installation of the RHEL 9 operating system will remove all network configurations. You must manually configure at least one interface before you can install the Elemental Live software. For information, go to the [AWS Elemental Support Center](#), and read the Knowledge article [What to do if kickstart removes on-disk network configuration](#) or open a case.
2. Sometimes, a kickstart or upgrade generates incorrect mappings for Ethernet ports. For information about how to fix this issue, go to the [AWS Elemental Support Center](#), and read the Knowledge article [How to restore default ethernet port order on an Elemental appliance](#) or open a case.
3. You can now install any third-party packages. AWS Elemental maintains an RPM repository for use with RHEL 9. The repository contains the following types of third-party packages:
 - Packages that are stored in the Red Hat BaseOS repository, and that are required to run AWS Elemental software.
 - Packages that are stored in the Red Hat AppStream repository, that aren't required but that you want to include.

For more information about the packages that you must obtain from the AWS Elemental RPM repository and for instructions about configuring the repository, go to the [AWS Elemental Support Center](#) and read the Knowledge article [about the introduction of RHEL 9](#).

Install using a USB stick

Install the operating system

1. Make sure that you have created a boot USB drive. See [the section called "Create a boot USB drive"](#).
2. Insert the USB drive into an available USB port. You might need to press **F2** while booting in order to select the boot device. The recovery (kickstart) screen appears.
3. Enter the hostname that already applies to this node, then press **Enter**. The installation starts.
4. When the installation is complete, remove the USB drive from the system and store it in a secure location.
5. Then on the screen, press the reboot button shown or press the **Enter** key.

Finishing steps

1. Installation of the RHEL 9 operating system will remove all network configurations. You must manually configure at least one interface before you can install the Elemental Live software. For information, go to the [AWS Elemental Support Center](#), and read the Knowledge article [What to do if kickstart removes on-disk network configuration](#) or open a case.
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For more information about the packages that you must obtain from the AWS Elemental RPM repository and for instructions about configuring the repository, go to the [AWS Elemental Support Center](#) and read the Knowledge article [about the introduction of RHEL 9](#).

Install on an SMC

You install RHEL 9 on an SMC chassis from the IPMI interface.

Install the operating system

1. Install the Java applet and change the security level, if necessary. For information, see [the section called “Step 1: Install Java applet”](#).
2. Make sure that there are no physical USB drives plugged into the system.
3. Make sure that you are at a workstation that has direct access to the network that the IPMI interface is on.

Note

Don't use a VPN connection.

4. Copy the ISO file for RHEL 9 to your laptop.
5. Open the IPMI remote console viewer. On the main menu, choose **Virtual Media** or **Media**, then choose **Virtual Storage/Virtual Media Wizard**.
6. Choose **CD/ISO media** and browse to the ISO that you want to use. Choose **Connect/Plug in**.
7. Reboot the system. The image should start to boot.

If the image does not start to boot, choose the **F11** key while the splash screen is displaying. Then when the **Please select boot device** prompt appear, choose **UEFI: Virtual CDROM**. Move this item to the top of the list by pressing the **+** key repeatedly.

8. The installer starts. At the prompt, enter the hostname of the appliance and press **Enter**. The installation starts and takes 20 to 30 minutes.
9. When the installation completes, press the **Enter** key to reboot.
10. Plug out the ISO before it reboots, otherwise you return to the kickstart menu.

Finishing steps

1. Installation of the RHEL 9 operating system will remove all network configurations. You must manually configure at least one interface before you can install the Elemental Live software. For information, go to the [AWS Elemental Support Center](#), and read the Knowledge article [What to do if kickstart removes on-disk network configuration](#) or open a case.

2. Sometimes, a kickstart or upgrade generates incorrect mappings for Ethernet ports. For information about how to fix this issue, go to the [AWS Elemental Support Center](#), and read the Knowledge article [How to restore default ethernet port order on an Elemental appliance](#) or open a case.
3. You can now install any third-party packages. AWS Elemental maintains an RPM repository for use with RHEL 9. The repository contains the following types of third-party packages:
 - Packages that are stored in the Red Hat BaseOS repository, and that are required to run AWS Elemental software.
 - Packages that are stored in the Red Hat AppStream repository, that aren't required but that you want to include.

For more information about the packages that you must obtain from the AWS Elemental RPM repository and for instructions about configuring the repository, go to the [AWS Elemental Support Center](#) and read the Knowledge article [about the introduction of RHEL 9](#).

Step G: Install worker software on an Elemental Live node

This install procedure isn't the same as the install procedure on a newly obtained appliance (as described in [AWS Elemental Live Installation Guide](#)). You don't have to configure the node.

This install procedure is very similar to the upgrade procedure (as described in [AWS Elemental Live Upgrade Guide](#)), but there are significant differences in the options you include.

1. From the Linux command line, log in to the worker node. Use the **elemental** user credentials.
2. Run the installer. Use the appropriate command:
 - For GPU and CPU versions of the software (for Elemental Live only):

```
[elemental@hostname ~]$ sudo sh ./elemental_live_cpu__2.26.0.12345.run --skip-mellanox --skip-all --start -xeula
```

- For CPU-only versions of the software:

```
[elemental@hostname ~]$ sudo sh ./elemental_live_cpu_2.26.0.12345.run --skip-mellanox --skip-all --start -xeula
```

Where:

`--skip-mellanox`. Optional. Applies only to Elemental Live. Skips installation of the Mellanox driver, even if the script detects that a Mellanox NIC is installed in the appliance. For more information, see [current Release Notes](#).

`--skip-all` skips all the prompts. There is no need to view prompts about configuration because when you restore the database to the node, all the configuration data is copied over and overwrites any configuration data already on the node.

`--start` restarts the software after installation.

`--xeula` skips the display of the license agreement. There is no need to view this prompt because you have previously accepted the agreement.

3. When the installation is complete, restart the node:

```
[elemental@hostname ~] sudo reboot
```

Step H: Restore the database on a Elemental Live node

You restore data using the same lifeboat script that you used to create the backup.

Topics

- [Step H1: Perform the restore](#)
- [Step H2: Perform manual restore tasks](#)

Step H1: Perform the restore

1. Download the lifeboat script, following the procedure that you followed when you [created the backup](#).

Important

Make sure that you have latest version of the script. AWS Elemental is continually making improvements to the script.

2. Enter the restore command.

```
[elemental@hostname ~]$ ./lifeboat.sh --restore --import-database
```

The script tries to extract the version of the backup that is stored in this folder:

```
/opt/upgrade-backups/system-backup.tar.gz
```

This file was created when you created the backup. The script automatically copied it to this directory. The installation of RHEL 9 should not have deleted this file. Therefore, it should be in this location.

If this file doesn't exist or if there is a problem with it, the scripts stops. See the recovery steps below to continue.

The script tries to extract the version of the backup that is stored in this folder: /opt/upgrade-backups/system-backup.tar.gz This file was created when you created the backup. The script automatically copied it to this directory. The installation of RHEL 9 should not have deleted this file. Therefore, it should be in this location. If this file doesn't exist or if there is a problem with it, the scripts stops. See the recovery steps below to continue.

3. After the restore has succeeded, reboot the node:

```
[elemental@hostname ~]$ sudo reboot
```

Recovery steps

Read this information if there was a problem with the file, as mentioned in step two earlier on this page.

1. Locate the other copies of the backup and of the checksum files that you should have copied to storage off the node. The files to locate are:
 - <hostname>_lifeboat-archive.zip
 - <hostname>_lifeboat-archive_export-checksum.txt
2. Copy the files to /home/elemental
3. Enter the restore command again:

```
[elemental@hostname ~]$ ./lifeboat.sh --restore
```

This time the script looks for the files that are in `/home/elemental`, and restores those files.

Step H2: Perform manual restore tasks

After you have run the lifeboat script, you might need to perform some manual steps.

SSL certificates

Read this section if your organization uses custom SSL certificates.

The lifeboat script backs up and restores the SSL certificates, both the default certificates and custom certificates you previously set up. However, the script doesn't update the Apache configuration file to point to the certificates. You must update the Apache configuration to include these paths.

Follow these steps on each node.

1. Determine where the custom certificates are located on the node. If you originally followed the recommendation from AWS Elemental, then the certificates are in `/home/elemental/cert`.
2. Enter this command:

```
cd /opt/elemental_se
```

3. Enter the configure command:

```
sudo ./configure -xeula --skip-all <certificate options>
```

There are three certificate options:

```
--https-crt <path to Apache SSLCertificateFile
```

```
--https-key <path to Apache SSLCertificateKeyFile
```

```
--https-chain <path to Apache SSLCertificateChainFile
```

Typically you need to enter either the first two options (to specify the location of the certificate and the key file) or all three options.

For example, to specify the location of the certificate and the key:

```
sudo ./configure -xeula --skip-all --https --https-cert /home/elemental/cert --https-key /home/elemental/cert
```

Firewall configuration

Read this section if the cluster was previously configured to use HTTP. Starting with versions 2.26.0 (and 3.26.0), HTTPS is always enabled by default. For more information, see [current Release Notes](#).

You must open port 443 on every node to allow access to the web interfaces for the AWS Elemental software. See the section about opening ports in the [AWS Elemental Live Configuration Guide](#). When you save, the port is added and the firewall is started.

Step I: Configure the Elemental Live node after migration

Install new licenses

Install new licenses.

If a specific node handles SMPTE 2110 inputs or outputs, you should have obtained a new license that includes the SMPTE 2110 add-on package. (The procedure for obtaining a new license is described in the essential notes in the [current Release Notes](#).) To deploy the license, see the section about configuring licenses in the [AWS Elemental Live Configuration Guide](#).

Set up worker features

Configuration information about some features isn't included in the database, so you must set them up again. The features are:

- Enabling OCR conversion to handle captions
- Disabling RTMP inputs in order to release processing resources
- Setting the maximum for virtual input switching

See the section about features in the [AWS Elemental Live Configuration Guide](#).

Note

You might want to voluntarily change the configuration of the appliance. We strongly recommend that you don't make any voluntary changes to the configuration until you have tested your workflows in the new setup.

Reconfigure routers

This section applies if the node was connected to an SDI input using a router. After you upgrade, the node still has information about the SDI inputs and about the router, but it is missing the mapping from the inputs to the router. You must reconfigure this information. You should have [made a note of the configuration](#).

For more information see the section about configuring routers in the [AWS Elemental Live Configuration Guide](#).

Document history for migration guide

The following table describes the main changes to this guide.

Change	Description	Date
Corrections	General corrections and additions have been made to the guide.	July 29, 2024
New guide	First release of this guide	March 25, 2024