



Installation Guide

Version 2.4

Thank You for Choosing Ross

You've made a great choice. We expect you will be very happy with your purchase of Ross Technology. Our mission is to:

1. Provide a Superior Customer Experience
 - offer the best product quality and support
2. Make Cool Practical Technology
 - develop great products that customers love

Ross has become well known for the Ross Video Code of Ethics. It guides our interactions and empowers our employees. I hope you enjoy reading it below.

If anything at all with your Ross experience does not live up to your expectations be sure to reach out to us at solutions@rossvideo.com.



David Ross
CEO, Ross Video
david.ross@rossvideo.com

Ross Video Code of Ethics

Any company is the sum total of the people that make things happen. At Ross, our employees are a special group. Our employees truly care about doing a great job and delivering a high quality customer experience every day. This code of ethics hangs on the wall of all Ross Video locations to guide our behavior:

1. We will always act in our customers' best interest.
2. We will do our best to understand our customers' requirements.
3. We will not ship crap.
4. We will be great to work with.
5. We will do something extra for our customers, as an apology, when something big goes wrong and it's our fault.
6. We will keep our promises.
7. We will treat the competition with respect.
8. We will cooperate with and help other friendly companies.
9. We will go above and beyond in times of crisis. *If there's no one to authorize the required action in times of company or customer crisis - do what you know in your heart is right. (You may rent helicopters if necessary.)*

Horizon · Installation Guide

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Patents

Ross Video products are protected by patent numbers US 7,034,886; US 7,508,455; US 7,602,446; US 7,802,802 B2; US 7,834,886; US 7,914,332; US 8,307,284; US 8,407,374 B2; US 8,499,019 B2; US 8,519,949 B2; US 8,743,292 B2; GB 2,419,119 B; GB 2,447,380 B. Other patents pending.

Notice

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Warranty and Repair Policy

Ross Video Limited (Ross) warrants its Horizon Server systems to be free from defects under normal use and service a time period of 15 months from the date of shipment:

If an item becomes defective within the warranty period Ross will repair or replace the defective item, as determined solely by Ross.

Warranty repairs will be conducted at Ross, with all shipping FOB Ross dock. If repairs are conducted at the customer site, reasonable out-of-pocket charges will apply. At the discretion of Ross, and on a temporary loan basis, plug in circuit boards or other replacement parts may be supplied free of charge while defective items undergo repair. Return packing, shipping, and special handling costs are the responsibility of the customer.

This warranty is void if products are subjected to misuse, neglect, accident, improper installation or application, or unauthorized modification.

In no event shall Ross Video Limited be liable for direct, indirect, special, incidental, or consequential damages (including loss of profit). Implied warranties, including that of merchantability and fitness for a particular purpose, are expressly limited to the duration of this warranty.

This warranty is TRANSFERABLE to subsequent owners, subject to Ross' notification of change of ownership.

Extended Warranty

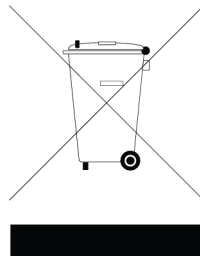
For customers that require a longer warranty period, Ross offers an extended warranty plan to extend the standard warranty period by one year increments. For more information about an extended warranty for your Horizon Server system, contact your regional sales manager.

Environmental Information

The equipment that you purchased required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment.

To avoid the potential release of those substances into the environment and to diminish the need for the extraction of natural resources, Ross Video encourages you to use the appropriate take-back systems. These systems will reuse or recycle most of the materials from your end-of-life equipment in an environmentally friendly and health conscious manner.

The crossed-out wheeled bin symbol invites you to use these systems.



If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You can also contact Ross Video for more information on the environmental performances of our products.

Use of Hazardous Substances in Electrical and Electronic Products (China RoHS)

Ross Video Limited has reviewed all components and processes for compliance to:

“Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products” also known as China RoHS.

The “Environmentally Friendly Use Period” (EFUP) and Hazardous Substance Tables have been established for all products. We are currently updating all of our Product Manuals.

The Hazardous substances tables are available on our website at:

<http://www.rossvideo.com/about-ross/company-profile/green-practices/china-rohs.html>

电器电子产品中有毒物质的使用

Ross Video Limited 按照以下的标准对所有组件和流程进行了审查:

“电器电子产品有害物质限制使用管理办法” 也被称为中国RoHS。

所有产品都具有“环保使用期限”(EFUP)和有害物质表。目前,我们正在更新我们所有的产品手册。

有害物质表在我们的网站:

<http://www.rossvideo.com/about-ross/company-profile/green-practices/china-rohs.html>

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Introduction

A Word of Thanks

Thank you for choosing Ross Video Horizon as your meeting control solution.

We are committed to providing you with the highest level of customer satisfaction possible. If, for any reason, you have questions or comments, please call Ross Video at +1-613-652-4886 or send us an e-mail at techsupport@rossvideo.com.

We hope that you visit our website www.rossvideo.com to stay up to date with ongoing software releases, join our customer forum and learn more about the complete range of Ross Video products.

Note that software maintenance and extended warranties are available for your system to protect and extend the life of your investment. Our sales team are more than happy to provide further information on the plans available. Members of our sales team promptly respond to e-mails sent to: solutions@rossvideo.com.

Again, thank you for your purchase of a Horizon meeting control solution from Ross Video. We are confident of your future pleasure with your choice.

Yours Sincerely,



Shawn Snider
Vice President - Production Workflow & Cloud Services
shawn.snider@rossvideo.com

About This Guide

This guide contains the following chapters that cover the installation and configuration of Horizon Server software:

1. “**Introduction**” summarizes the guide and explains important terms, conventions, and features.
2. “**System Requirements**” provides the recommended minimum hardware and software requirements to ensure that the Horizon software functions correctly.
3. “**Software Installation**” provides instructions for installing your Horizon software after a system re-image.
4. “**Software Licensing**” provides instructions for licensing Horizon Server software.
5. “**System Configuration**” provides instructions on how to configure Horizon software options.

If you have questions pertaining to the operation of the Ross Video product, please contact us at the numbers listed in the section “**Contacting Technical Support**” on page 1–3. Our technical staff is always available for consultation, training, or service.

Documentation Conventions

This guide uses special text formats to identify parts of the user interface, text that a user must enter, or a sequence of menus and submenus that a user must follow to reach a particular command.

Interface Elements

Bold text identifies a user interface element such as a dialog box, a menu item, or a button. For example:

In the **Media Manager Client**, click **Channel 1** the **Channels** section.

User Entered Text

Courier text identifies text that a user must enter. For example:

In the **File Name** box, enter `Channel01.property`.

Referenced Guides

Italic text identifies the titles of referenced guides, manuals, or documents. For example:

For more information, refer to the section “**Twitter Configuration**” on page 3–6 in the *Horizon User Guide*.

Menu Sequences



Menu arrows identify a sequence of menu items that a user must follow to reach a particular command. For example: if a procedure step contains “**Server > Save As**,” a user should click the **Server** menu and then click **Save As**.

Important Instructions

Star icons identify important instructions or features. For example:

- ★ After installing Horizon Server software, you must obtain Horizon feature licenses from Ross Video Technical Support before users can access Horizon features.

Getting Help

To access the Horizon Server Online Help system, click the  **Help** icon in the main toolbar. For help about the currently open panel, click the  **Help** button in a panel title bar to view a help topic about the panel.

The Online Help system contains the following navigation tabs to locate and access Online Help topics:

- **Contents** — table of contents
- **Search** — full text search
- **Favorites** — preferred information storage and access

Ross Video also supplies print-ready PDF files of the *Horizon Server Installation Guide*, *Horizon Server Configuration Guide*, and the *Horizon User Guides* on the Horizon Server Software Installation DVD.

The Horizon Online Help system contains information about how to configure various aspects of your Horizon application. There are two separate Horizon Online Help systems; one for the Configuration interface, and one for the User interface.

Contacting Technical Support

Technical Support is staffed by a team of experienced specialists ready to assist you with any question or technical issue.

Ross Video has technical support specialists strategically located around the globe to ensure a prompt response to technical inquiries. Our primary technical support center is located in Ottawa, Ontario, Canada. In addition, we have offices in The United Kingdom (London), Australia (Sydney), and Singapore with satellite locations in New York City, The Netherlands, and China. As we expand our presence globally, we are constantly evaluating other key locations to have a local technical support specialist in order to better service our customers.

North America

Our North America center located in Ottawa, Ontario, Canada and is open Monday to Friday 8:30 a.m. to 6:00 p.m. EST, with 24/7/365 on-call service after hours.

Our telephone number is: +1-613-686-1557

Toll free within North America: +1 833-859-0499

EMEA

Our EMEA center is open Monday to Friday 8:30 a.m. to 5:00 p.m. GMT. After hours support is provided by our North America location.

Our telephone number is: +44 (0)1189502446

International toll free: +800 3540 3545

If the local support specialist is not available, your call will be transferred automatically to our North America center.

Australia

Our Sydney, Australia office is located in Alexandria, NSW.

Our local support telephone number is: 1300 007 677

If the local support specialist is not available, your call will be transferred automatically to our North America center.

Online

E-mail: techsupport@rossvideo.com

Website: open a support request using the link <https://support.rossvideo.com/> to open a support request.

System Requirements

Ross video base Horizon products on mainstream PC hardware that use the Windows® operating system. To ensure that Horizon software functions correctly, verify that the computer selected to run Horizon software meets the recommended minimum requirements described in the following sections:

- Hardware
- Software
- Ports

Hardware

Ross Video recommends the following minimum computer hardware configuration to run Horizon software:

- **CPU** — quad-core Intel® Core™ i7
- **RAM** — 8 to 12GB
- **Hard Drive** — Minimum 100 GB free
- **LAN** — 1000 MB/s

Software

Ross Video recommends the following minimum computer software configuration to run Horizon software:

- Microsoft® Windows® Server 2022 64-bit English only with latest patches, or
Microsoft® Windows® Server 2019 64-bit English only with latest patches, or
Microsoft® Windows® Server 2016 64-bit English only with latest patches

Horizon can be accessed using one of the following web browsers:

- Microsoft Edge
- Google Chrome™ browser version 51 or greater
- Mozilla Firefox® version 52 or greater
- Apple Safari® version 10.2 or greater

Ports

As part of the Horizon Server software installation process, the installer automatically creates the required firewall exceptions locally for the ports that Horizon uses to communicate with Horizon clients and MOS devices.

- ★ If an external firewall separates your Horizon Server from your Horizon clients and MOS devices, you may need to update the port exceptions on your external firewall to enable communication with the Horizon Server.

The following table lists the ports on the Horizon Server computer that Horizon uses to communicate with Horizon clients and MOS devices:

Table 2.1 Horizon Server Ports

Port	Type	Description
80 443	HTTP/HTTPS	Horizon requires HTTP/HTTPS ports to be open between Horizon Client computers and the Horizon Server computer.

Software Installation

This chapter provides instructions for installing Horizon software on a Horizon Server computer for the first time or after a system re-image.

This chapter discusses the following topics:

- Before You Install Software
- Installing Horizon Database Software
- Installing Horizon Server Software
- After You Install Horizon Server Software

Before You Install Software

Before you install Horizon software on a Horizon computer, perform the following tasks:

- Have a qualified Ross Video technician perform any required maintenance or repairs on the Horizon computer.
- Exit all other Windows® programs currently running on the Horizon computer.
- Temporarily disable antivirus software running on the Horizon computer. Some heuristic-based intrusion detection systems prevent the installation of Horizon software. Re-enable antivirus software after installing Horizon software.

Contact a Ross Video sales representative for information about Horizon Commissioning, Training, and Update services.

- ★ After installing Horizon Server software, you must obtain Horizon feature licenses from Ross Video Technical Support before users can access Horizon features. For information about

For More Information on...

- contacting Ross Video Technical Support, refer to the section “**Contacting Technical Support**” on page 1–3.

Installing Horizon Database Software

Horizon uses the MariaDB database to store and manage application data. Only the initial installation or recovery installations of Horizon Server software on a computer require the installation of the MariaDB database software.

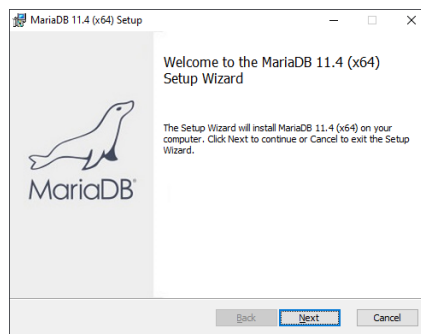
- ★ You must install and configure MariaDB database software on the Horizon Server computer before installing Horizon Server software on the computer.

Upgrading Horizon Server software to a new version does not require a re-installation of the MariaDB database software.

To install MariaDB database software for an initial install of Horizon software

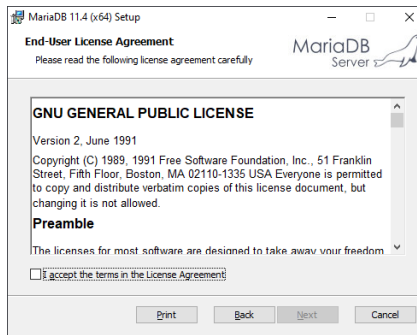
1. On the Horizon Server computer, exit all currently running Windows® applications.
2. Locate the MariaDB database software installer, **mariadb-11.4.4-winx64.msi**, that you obtained from Ross Video Technical Support.
3. Double-click the **mariadb-11.4.4-winx64.msi** icon.

The **Setup** wizard opens.



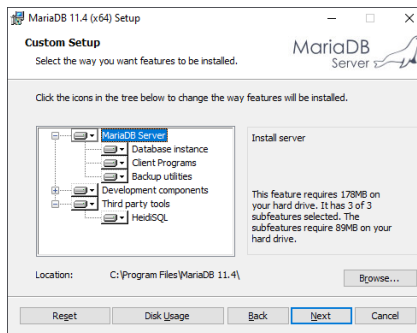
4. Click **Next**.

The **End-User License Agreement** screen opens.



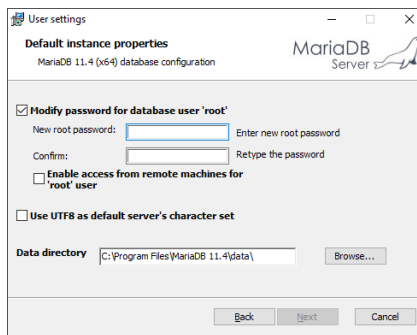
5. Read the **GNU GENERAL PUBLIC LICENSE**.
6. Select the **I accept the terms of the license agreement** check box.
7. Click **Next**.

The **Custom Setup** screen opens.



8. Click **Next**.

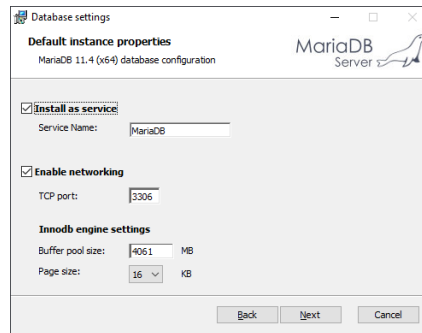
The **Default instance properties** screen opens.



9. Select the **Modify password for database user 'root'** check box.
10. In the **Password** box, enter a password that meets the password security requirements set by your organization.
Record the entered password to replace the password `mariaadb` with your password when installing, reinstalling, or upgrading Horizon Server software.
11. In the **Confirm** box, enter the same password as entered in the **Password** box.

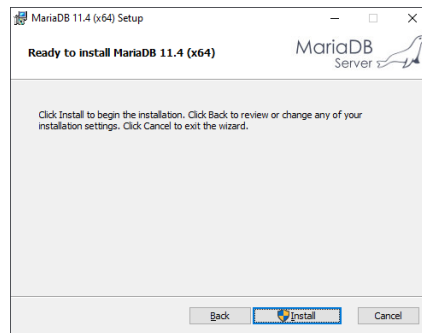
12. Record the **root** user **password** in a safe place.
13. Select the **Enable access from remote machines for 'root' user** check box.
14. Click **Next**.

The second **Default instance properties** screen opens.



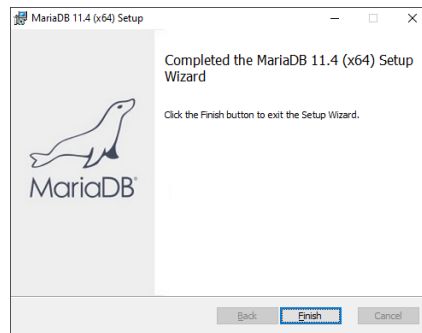
15. Click **Next**.

The **Ready to Install** screen opens.

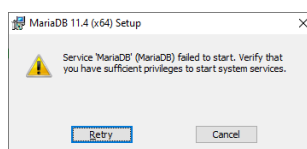


16. Click **Install**.

The **Installing MariaDB 11.4 (x64)** screen opens. A progress bar displays the installation status. After the installer finishes installing the required files, the **Completed the MariaDB 11.4 (x64) Setup Wizard** screen opens.



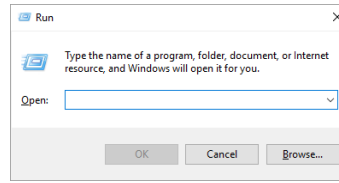
When the **Setup** wizard cannot start the **MariaDB** service, it displays the following alert:



Follow these steps to continue the MariaDB installation:

- a. From the Windows Desktop, press **Windows Key R**.

The **Run** dialog box opens.

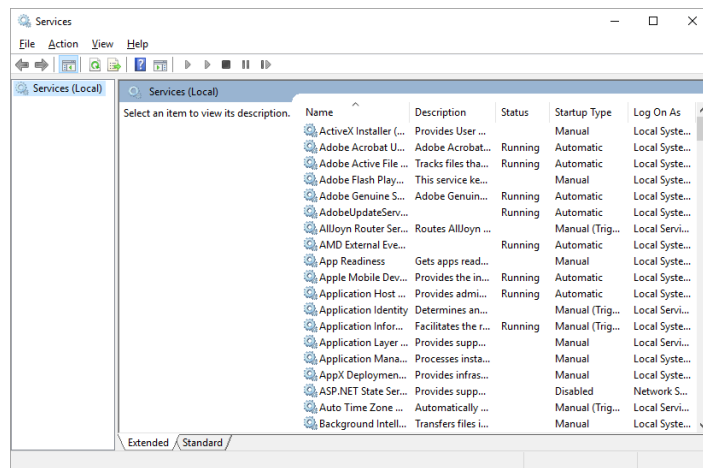


- b. In the **Open** box, type the following application name:

`services.msc`

- c. Click **OK**.

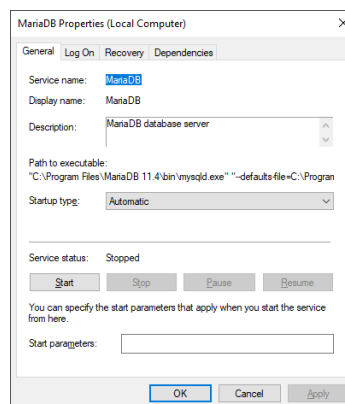
The **Services** window opens.



- d. In the **Services** list, locate the **MariaDB** service.

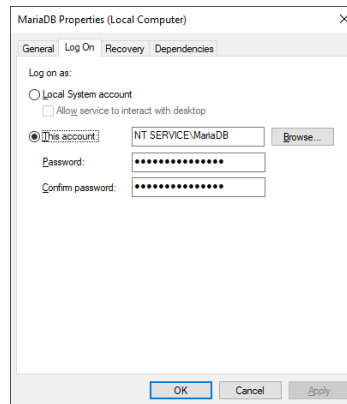
- e. Right-click the **MariaDB** service and select **Properties** from the shortcut menu.

The **MariaDB** dialog box opens.



- f. Click the **Log On** tab.

The **Log On** tab opens.



- g. Select the **Local System Account** option.

- h. Click **OK**.

The **MariaDB** dialog box closes.

- i. In the **Services** window, click Restart for the **MariaDB** service.

- j. Use the **File** menu to select **Exit**.

The **Services** window closes.

- k. In the open **alert**, click **Retry**.

17. Click **Finish**.

The **Setup** wizard closes.

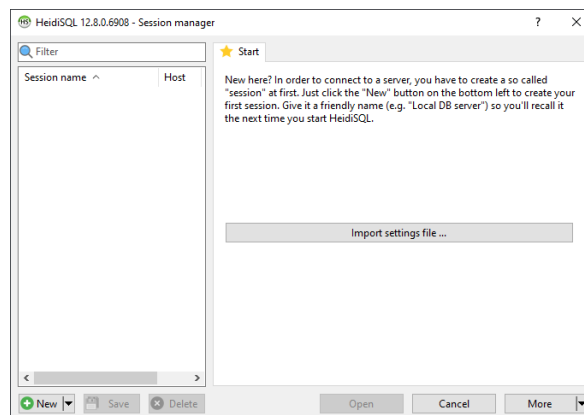
Horizon Database

You must create a MariaDB database named “horizon” before you install Horizon Server software.

To create the database for Horizon

1. From the Windows Desktop, use the **Windows** menu to select **All Programs > MariaDB 11.4 (x64) > HeidiSQL**.

The **HeidiSQL Session Manager** window opens.



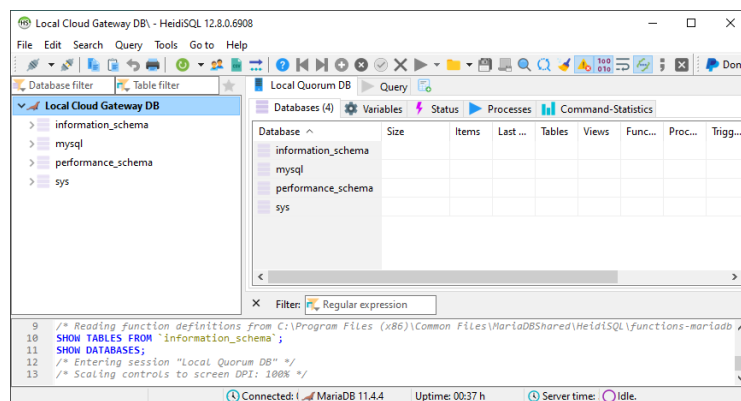
The first time you open HeidiSQL, you must create a session to connect to the MariaDB Server. Complete the following steps to create a MariaDB Server session:

- a. In the **Session name** column, right-click the **Unnamed** session name and select **Rename** from the shortcut menu.
- b. Enter a name that describes the session, for example: `Local Horizon DB`.
- c. In the **Password** box of the **Settings** tab, enter the **password** that was set in step 10 of the “**To install MariaDB database software for an initial install of Horizon software**” on page 3–2.
- d. Click **Save**.

The Session Manager saves the defined session.

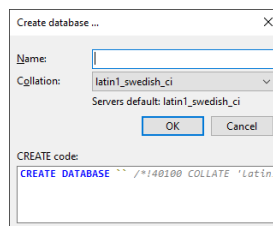
2. In the **Session name** column, select the session to connect to the MariaDB Server.
3. Click **Open**.

The HeidiSQL Session Manager window closes, and the Session window opens.



4. In the **Object Browser** tree view, right-click the **session name** and select **Create new > Database** from the shortcut menu.

The **Create database** dialog box opens.



5. In the **Name** box, enter the following name:

`horizon`

6. Click **OK**.

The **Create database** dialog box closes, and HeidiSQL adds the **horizon** database to the **Object Browser** tree view.

7. In the **Session** window, use the **File** menu to select **Exit**.

The **Session** window closes.

Installing Horizon Server Software

After installing and configuring the MariaDB database software on the Horizon Server computer, you can install the Horizon Server software.

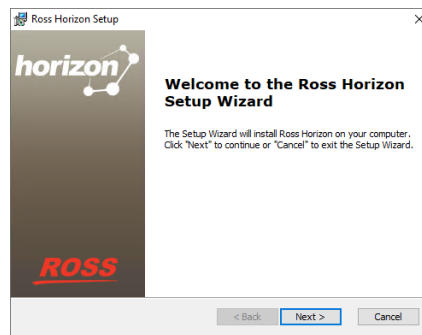
- ★ After installing Horizon Server software, you must obtain Horizon feature licenses from Ross Video Technical Support before users can access Horizon features.

To install Horizon Server software

1. On the Horizon Server computer, exit all currently running Windows® applications.
2. Temporarily disable antivirus software running on the Horizon Server computer.
Some heuristic-based intrusion detection systems prevent the installation of Horizon software.
3. Locate the HorizonServer software installer, **Horizon-2.4.x-xxx-xxx.msi**, that you obtained from Ross Video Technical Support.
4. Double-click **Horizon-2.4.x-xxx-xxx.msi**.

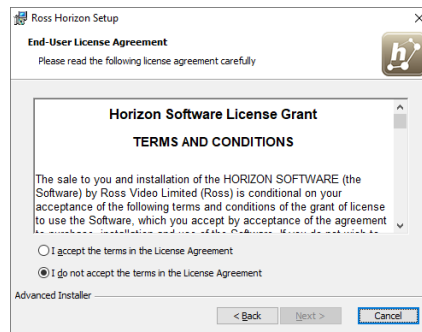
If a **Security Warning** message displays, click **Run**.

The **Ross Horizon Setup** wizard opens.



5. Click **Next**.

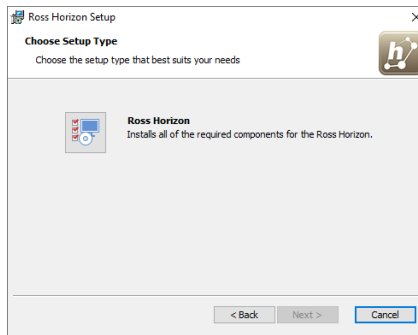
The **End-User License Agreement** screen opens.



6. Read the **Horizon Software License Grant**.
7. Select the **I accept the terms of the license agreement** option.

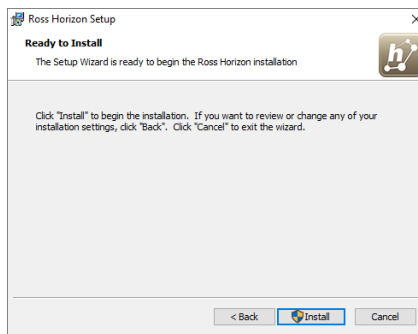
8. Click **Next**.

The **Choose Setup Type** screen opens.



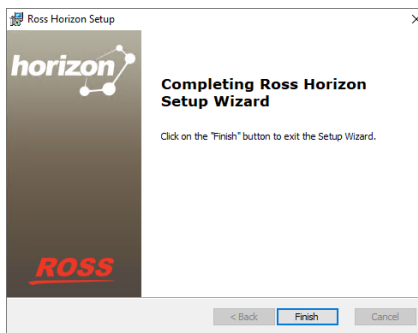
9. Click the **Ross Horizon** icon.

The **Ready to Install** screen opens.



10. Click **Install**.

After installation of the Horizon Server is complete, the **Installation Complete** screen opens.



11. Click **Finish**.

The **Ross Horizon Setup** wizard closes and adds the **Ross Horizon** icon to the Desktop. The Horizon Server starts automatically after the installation of the Horizon Server software.

12. Re-enable antivirus software.

Setting a Custom Password for the Database Superuser

During the installation of the MariaDB database, you must set the password for the database superuser and service account named `root`. If the password set for `root` is not the standard password of `root`, the installer must configure Horizon Server software to use the custom `root` password.


To set a custom root password:

1. Use one of the following methods to open the **Horizon** web page:
 - On the Desktop, double-click the **Ross Horizon** icon.
 - Use the **Start** menu to select **All Programs > Ross Horizon > Ross Horizon**.

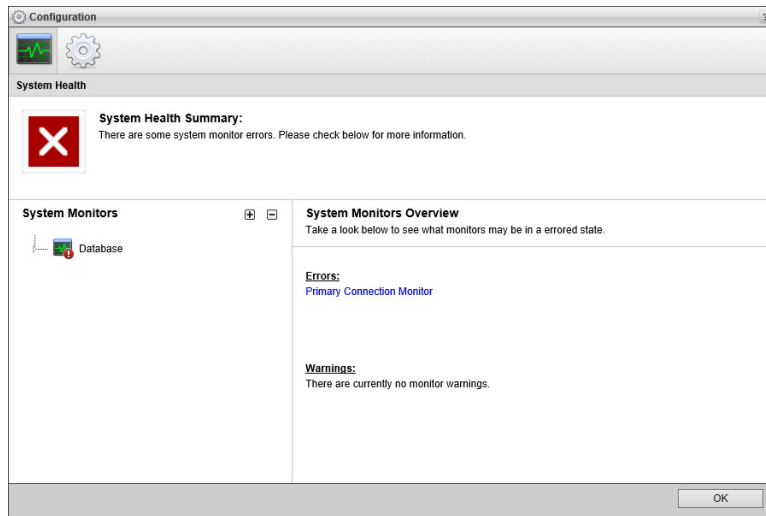
The **Horizon Login** screen opens. If the **Horizon Login** screen does not open, please contact Ross Video Technical Support.


2. At the **Horizon Login** screen, enter the following user name and password in the provided boxes:
 - **Username** — maintenance
 - **Password** — maintenance
3. Click **Login**.

You are logged into the Horizon Server.

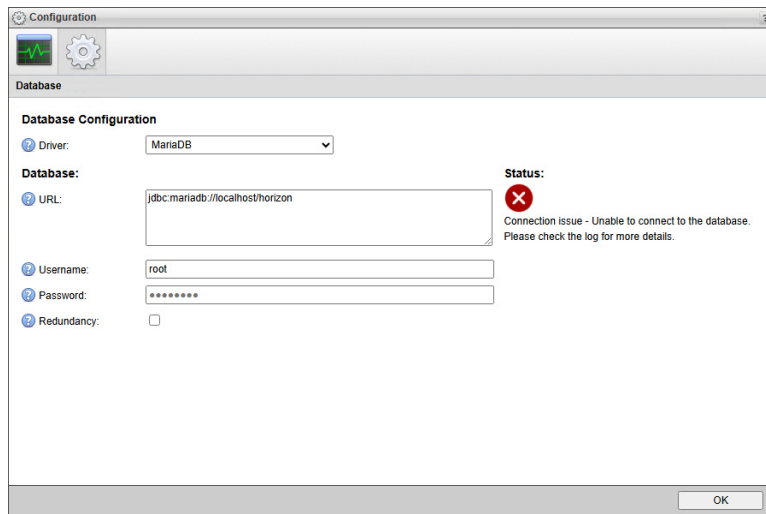
4. In the **Tools** section of the Horizon toolbar, click the  **Configuration** icon.

The **System Monitor** panel of the **Configuration** window opens.

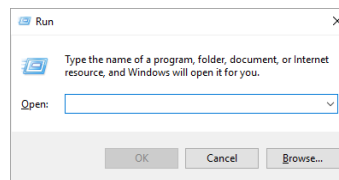


5. On the **Configuration** window toolbar, click the  **System** icon.

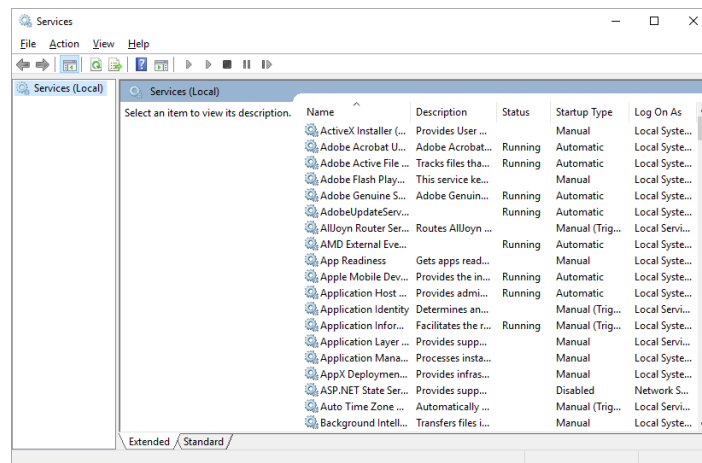
The **System** panel opens.



6. In the **Password** box of the **Database** tab, enter the custom password set for the database superuser named root.
7. Click **OK**.
An **Alert** dialog box opens.
8. In the **Alert** dialog box, click **OK**.
The **Alert** and **Configuration** dialog boxes close.
9. On the Horizon toolbar, click the **Logout** icon.
A **Message** dialog box opens.
10. In the **Message** dialog box, click **OK** to log out of Horizon.
11. Close the web browser.
12. From the Windows Desktop, press **Windows Key R**.
The **Run** dialog box opens.



13. In the **Open** box, type the following application name:
`services.msc`
14. Click **OK**.
The **Services** window opens.



15. In the **Services** list, locate and select the **Ross Horizon** service.
16. Click **Restart** for the **Ross Horizon** service.
17. Use the **File** menu to select **Exit**.
The **Services** dialog box closes.
18. License the Horizon Server software by completing the procedures in the chapter “**Software Licensing**” on page 5–1.

After You Install Horizon Server Software

After successfully installing Horizon Server software, perform the following tasks:

- Re-boot the Horizon Server computer.
- Read the *Horizon Software Release Notes* document in the `C:\program files\Ross Video\Horizon` folder.
- Obtain a license activation key from Ross Video Technical Support for Horizon features.
- Activate your Horizon product key in Ross Platform Manager.

For More Information on...

- licensing Horizon Server software, refer to chapter “**Software Licensing**” on page 4–1.

Software Licensing

Ross Video uses a product key and feature license keys to control user access to Horizon features. You can obtain an Horizon product key from Ross Video Technical Support. This chapter provides instructions for licensing an Horizon Server.

- ★ When an Horizon Server computer has multiple active network adapters (wireless, wired, or multiple NIC cards), disabling an adapter after licensing the Horizon Server may invalidate your Horizon product key. To re-license your Horizon Server, restart the server and reactivate the product key.

This chapter discusses the following topics:

- Activating a Product Key for Horizon Server Software
- Reactivating a Product Key
- Deactivating a Product Key

Activating a Product Key for Horizon Server Software

Ross Video uses product keys to manage user licenses for Horizon features. You can use your Horizon product key with the following licensing servers to license your Horizon Server software:

- **Ross Activation Licensing Server** — the Horizon Server must have access to the Internet to use the Ross Activation Licensing Server.
- **Ross Platform Manager** — use this licensing server when your Horizon Server does not have access to the Internet. The Ross Platform Manager must be installed on a computer in your local network that the Horizon Server can access. For information on setting up the Ross Platform Manager, refer to the ***Ross Platform Manager Installation Guide***.

You can obtain an Horizon Server product key from Ross Video Technical Support.

For More Information on...

- contacting Ross Video Technical Support, refer to the section “**Contacting Technical Support**” on page 1–3.

Ross Activation Licensing Server

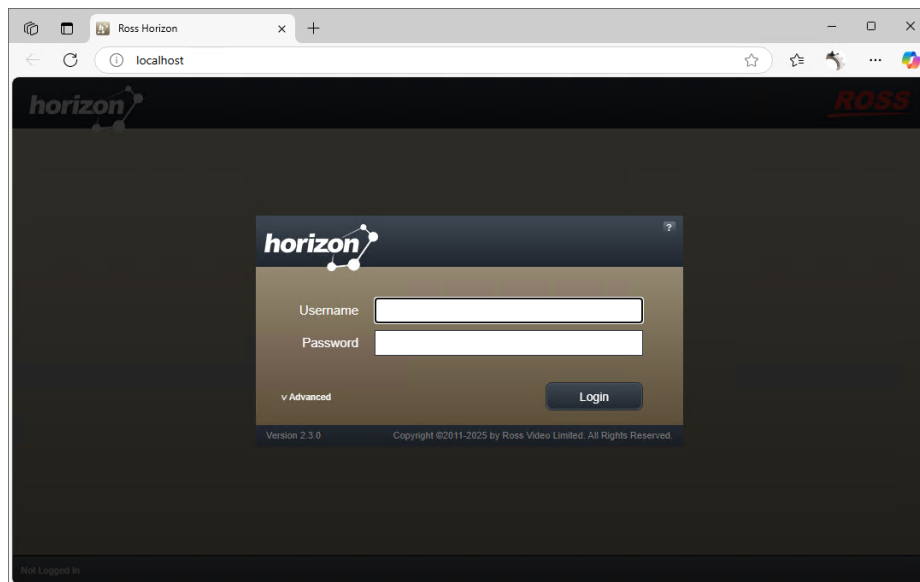
When your Horizon Server has access to the Internet, you can use the Ross Activation Licensing Server to activate your Horizon product key. You can obtain an Horizon product key from Ross Video Technical Support.

- ★ When you activate an Horizon product key, your Horizon Server computer must contact the Ross Activation Licensing Server through the Internet.



To use the Ross Activation Licensing Server to activate an Horizon product key

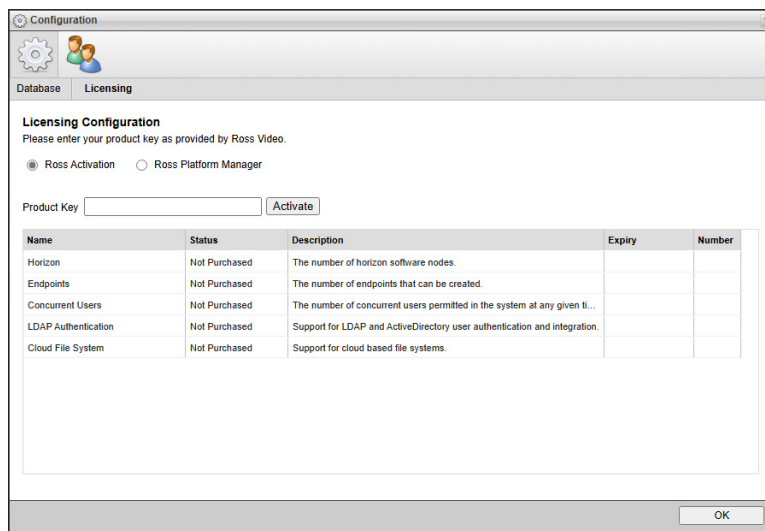
1. Obtain an Horizon product key from Ross Video Technical Support.
2. Verify that the Horizon Server computer can connect to the Internet.
3. Use one of the following methods on the Horizon Server computer to open the Horizon web page:
 - On the Desktop, double-click the **Ross Horizon** icon.
 - Use the **Start** menu to select **All Programs > Ross Horizon > Ross Horizon**.

The **Ross Horizon** web page opens.



- ★ If the **Ross Horizon** web page does not open, please contact Ross Video Technical Support.

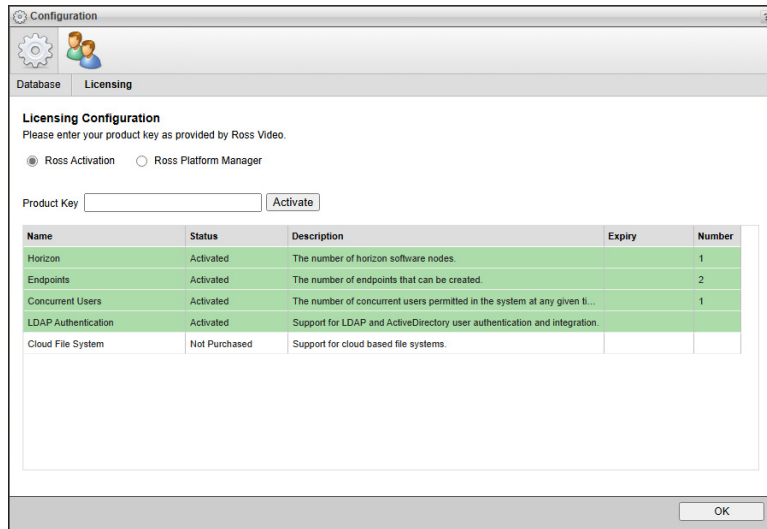
4. At the Horizon **Login** screen, enter the following user name and password in the provided boxes to log in as an Administrator:
 - **Username** — root
 - **Password** — password
5. Click **Login**.
You are logged into the Horizon Server as an **Administrator**.
- ★ If a message displays indicating that the system is in **maintenance** mode, Horizon cannot communication with the database. Please contact Ross Video support.
6. In the **Tools** section of the Horizon toolbar, click the  **Configuration** icon.
The **Configuration** window opens.
7. On the **Configuration** window toolbar, click the  **System** icon.
The **System** panel opens.
8. Click the **Licensing** tab.
The **Licensing Configuration** tab opens.



9. Select the **Ross Activation** option.
10. In the **Product Key** box, enter the product key obtained from Ross Video Technical Support.
11. Click **Activate**.
After activating the entered product key, an **Alert** dialog box opens requesting a web browser window refresh.

12. Click OK.

The **Alert** dialog box closes and the **Licensing Configuration** tab updates to display the feature licenses associated with the activated product key.



The **Status** column displays one of the following states:

Background	Status	Description
Green	Active	The feature is active and available to Horizon users.
Yellow	Expires in # days	The feature availability for Horizon users expires in the displayed number of days.
Red	Expired	The feature has expired and is no longer available to Horizon users.
Red	Invalid MAC	The feature license key is invalid for the active network interface card of the Horizon computer.
White	Not Purchased	The feature is not accessible to Horizon users, but it is available for purchase.

13. Click OK.

The **Configuration** dialog box closes.

14. Refresh your web browser window.

Horizon adds icons to the toolbar for the newly activated features, making the features accessible to Horizon users.

Ross Platform Manager

When your Horizon Server computer does not have access to the Internet, use the Ross Platform Manager licensing server to activate your Horizon product key. You can obtain an Horizon product key from Ross Video Technical Support.

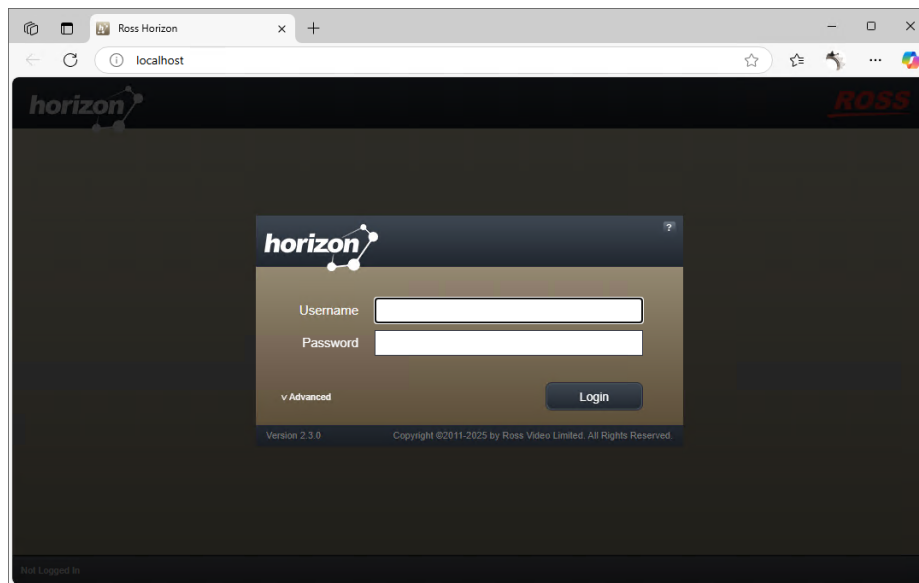
To use the Ross Platform Manager licensing server to activate product keys

1. Obtain an Horizon product key from Ross Video Technical Support.
2. Verify that the **Ross Platform Manager** is installed on a computer in your network to which your Horizon **Server** computer can connect.

For information on installing and configuring the Ross Platform Manager, refer to the *Ross Platform Manager Installation Guide*.

3. Use one of the following methods on the Horizon Server computer to open the Horizon web page:
 - On the Desktop, double-click the **Ross** Horizon icon.
 - Use the **Start** menu to select **All Programs > Ross Horizon > Ross Horizon**.

The **Ross** Horizon web page opens.





★ If the **Ross** Horizon web page does not open, please contact Ross Video Technical Support.

4. At the Horizon **Login** screen, enter the following user name and password in the provided boxes to log in as an Administrator:
 - **Username** — root
 - **Password** — password
5. Click **Login**.

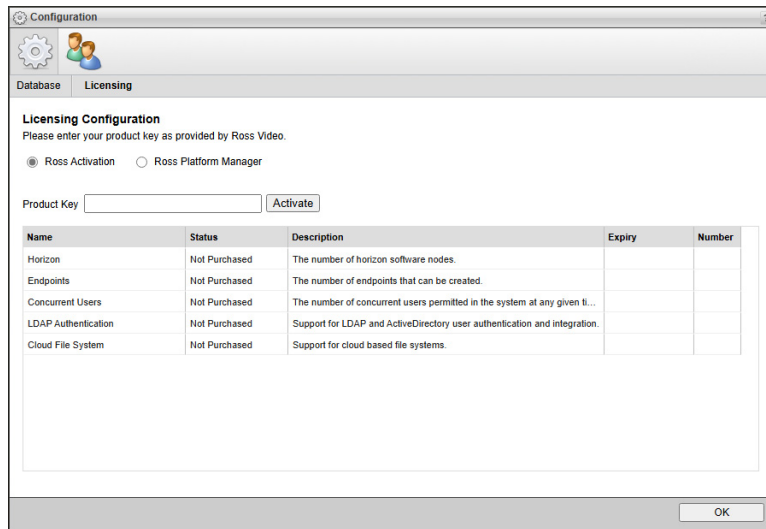
You are logged into the Horizon Server as an **Administrator**.

★ If a message displays indicating that the system is in **maintenance** mode, Horizon cannot communication with the database. Please contact Ross Video support.

6. In the **Tools** section of the Horizon toolbar, click the  **Configuration** icon.
The **Configuration** window opens.
7. On the **Configuration** window toolbar, click the  **System** icon.
The **System** panel opens.

8. Click the **Licensing** tab.

The **Licensing Configuration** tab opens.



9. Select the **Ross Platform Manager** option.

10. In the **Host** box, enter the IP address or hostname of your **Ross Platform Manager Server** computer.

11. In the **Port** box, enter the network port number of your **Ross Platform Manager Server**.

Ross Platform Manager Servers in an Horizon system use port 3030 as the network port for unsecure HTTP connections. **Ross Platform Manager Servers** use port 443 for secure HTTPS connections.

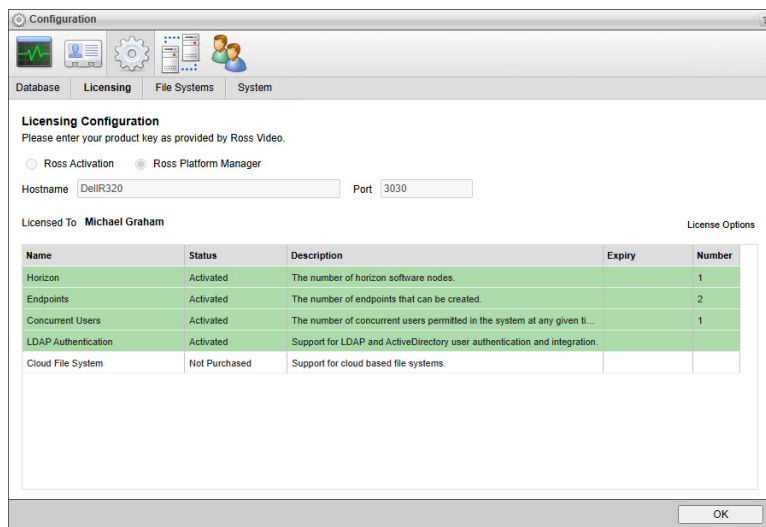
12. In the **Product Key** box, enter the product key obtained from Ross Video Technical Support.

13. Click **Activate**.






After activating the entered product key, an **Alert** dialog box opens requesting a web browser window refresh.

14. Click **OK**.

The **Alert** dialog box closes and the **Licensing Configuration** tab updates to display the feature licenses associated with the activated product key.



The **Status** column displays one of the following states:

Background	Status	Description
 Green	Active	The feature is active and available to Horizon users.
 Yellow	Expires in # days	The feature availability for Horizon users expires in the displayed number of days.
 Red	Expired	The feature has expired and is no longer available to Horizon users.
 Red	Invalid MAC	The feature license key is invalid for the active network interface card of the Horizon computer.
 White	Not Purchased	The feature is not accessible to Horizon users, but it is available for purchase.

15. Click **OK**.

The **Configuration** dialog box closes.


16. Refresh your web browser window.

Horizon adds icons to the toolbar for the newly activated features, making the features accessible to Horizon users.


Reactivating a Product Key

After purchasing new features for an Horizon system, the Horizon product key requires reactivation to make the purchased features available to Horizon users.

To reactivate an Horizon product key

1. Log into Horizon as an **Administrator**.
2. In the **Tools** section of the Horizon toolbar, click the  **Configuration** icon.

The **Configuration** window opens.

3. On the **Configuration** window toolbar, click the  **System** icon.

The **System** panel opens.

4. Click the **Licensing** tab.

The **Licensing Configuration** tab opens.

5. Click the **License Options** link.

The **Product Key** field displays the currently activate product key.

6. Click **Reactivate**.

After reactivating the product key, an **Alert** dialog box opens requesting a refresh of the web browser window.

7. Click **OK**.

The **Alert** dialog box closes, and the **Licensing Configuration** tab is updates to display with new feature licenses associated with the reactivated product key.

8. Click **OK**.

The **Configuration** dialog box closes.


9. Refresh your web browser window.

Horizon adds icons to the toolbar for the newly activated features, making them accessible to Horizon users.


Deactivating a Product Key

When you want to move Horizon Server software on another computer, you must first deactivate the Horizon Server product key on the current Horizon computer.

To deactivate an Horizon product key

1. Log into Horizon as an **Administrator**.
2. In the **Tools** section of the Horizon toolbar, click the  **Configuration** icon.

The **Configuration** window opens.

3. On the **Configuration** window toolbar, click the  **System** icon.

The **System** panel opens.

4. Click the **Licensing** tab.

The **Licensing Configuration** tab opens.

5. Click the **License Options** link.

The **Product Key** field displays the currently activate product key.

6. Click **Deactivate**.

After deactivating the product key, an **Alert** dialog box opens.

7. Click **OK**.

The **Alert** dialog box closes, and the product key displayed in the **Product Key** box deactivates. You can use the deactivated product key to activate Horizon Server software on another computer.

Deactivating a product key unlicenses and removes Horizon user access to all the Horizon features associated with the product key.

8. Click **OK**.

The **Configuration** dialog box closes.

System Configuration


This chapter discusses the following topics:

- Changing the root User Password
- Accessing the Configuration Interface
- Changing the Horizon Wallpaper

Changing the root User Password

For security reasons, we recommend you change the default root user password.

Change the root user password


1. At the **Horizon Login** screen, enter the following user name and password in the provided boxes to log in as Administrator:
 - **Username** — root
 - **Password** — password
2. In the **Tools** section of the Horizon toolbar, click the  **Change Password** icon.
3. The **Change Password** panel opens.
4. In the **Old Password** box, type the root user password (password).
5. The **New Password** box, type a new password that you are able to remember.
6. In the **Verify Password** box, type the new password again.
7. Click **Change Password**.

The login password for the root user changes to the newly set password.

Accessing the Configuration Interface

Use the Configuration interface to monitor Horizon, set default preferences, set system properties, set network properties, and configure users.

Access the Configuration interface

1. Log into Horizon as an **Administrator**.
2. In the **Tools** section of the Horizon toolbar, click the  **Configuration** icon.
The **Configuration** interface opens.

Changing the Horizon Wallpaper

You can set the Horizon wallpaper graphic as the Desktop background image for your Horizon system. The Horizon wallpaper features the Horizon logo, and clearly identifies the computer as the Horizon computer.

Install Horizon wallpaper

1. Use a supported web browser to open the following URL:
`http://localhost/resources/horizon/images/wallpaper/1920x1080.jpg`
The Horizon wallpaper graphic opens.
2. To replace your current **Desktop** wallpaper with **Horizon** wallpaper, do one of the following:
 - **Internet Explorer** —right-click the wallpaper graphic file and then select **Set as background**.
 - **Chrome** — right-click the wallpaper graphic and then select **Save image as....** Save the image to your Desktop. Navigate to the image, right-click it, and then select **Set as Desktop background**.