



Installation Guide for Linux Ubuntu

Version 3.8

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 - · offer the best product quality and support
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David Ross CEO, Ross Video dross@rossvideo.com

Ross Video Code of Ethics

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- 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.
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- 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.)*

Ross Platform Manager · Installation Guide for Linux Ubuntu

• Ross Part Number: 7900DR-005-3.8

• Release Date: December 3, 2024. Printed in Canada.

• Software Issue: 3.8

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Patent numbers 4,205,346; 5,115,314; 5,280,346; 5,561,404; 7,034,886; 7,508,455; 7,602,446; 7,834,886; 7,914,332; 8307284, 2039277; 1237518; 1127289 and other patents pending.

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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 Ross Platform Manager system, contact your regional sales manager.

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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.

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The Hazardous substances tables are available on our website at:

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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 the Ross Platform Manager as your product orchestration 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 Ross Platform Manager from Ross Video. We are confident of your future pleasure with your choice.

Yours Sincerely,

Gabriel Duschinsky

Product Manager - Enterprise Management

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About This Guide

This guide contains the following chapters that cover the installation and configuration of Ross Platform Manager software:

- Chapter 1, "Introduction" summarizes the guide and provides important terms, conventions, and features.
- Chapter 2, "System Requirements" provides the recommended minimum hardware and software requirements to ensure that the Ross Platform Manager software functions correctly.
- Chapter 3, "**Software Installation for Linux Ubuntu**" provides instructions on how to install Ross Platform Manager software on a Linux Ubuntu operating system.
- Chapter 4, "Optional Configuration" provides instructions on optional configurations that you may choose to use depending on how you are using Ross Platform Manager.
- Chapter 5, "Installing Dependencies" provides instructions on how to install Ross Platform Manager software dependencies.

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 Channel 01. 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 Ross Platform Manager 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 Ross Platform Manager software, you must obtain Ross Platform Manager feature licenses from Ross Video Technical Support before users can access Ross Platform Manager features.

Getting Help

To access the Ross Platform Manager 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 a print-ready PDF file of the *Ross Platform Manager User Guide* on the Ross Platform Manager Software Installation DVD.

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: +1-613-652-4886

Toll free within North America: +1 844-652-0645

EMEA

Our EMEA center is located in Buckinghamshire, England, United Kingdom and 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 1005 0100

Emergency After-hours Support

Our telephone number is: +1-613-349-0006

Toll free within North America: +1 844-652-0645

International toll free: +800 1005 0100

Online

E-mail: techsupport@rossvideo.com

Website: use the link http://www.rossvideo.com/support/tech-support.html to open a support request.



System Requirements

To ensure that Ross Platform Manager software functions correctly, verify that the computer selected to run Ross Platform Manager software meets the recommended minimum requirements described in this chapter.

This chapter discusses the following topics:

- Hardware
- Software
- Supported Ross Products
- Ports Ross Platform Manager
- · Dependencies

Hardware

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

- VM or customer-supplied machine that meets the following minimum requirements:
- CPU quad-core Intel® Core™ i7, 2GHz
- RAM 8GB to 16GB (16GB recommended)
- Hard Drive Minimum 64 GB free
- LAN 100 Mb/s

Software

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

• Operating System: Ubuntu 22.04.5 LTS

• Database: PostgreSQL11

• Hardware: VM or customer supplied machine

Supported Ross Products

Please refer to the supported version below or the Release Notes to ensure compatibility. RPM supports the following Ross products:

- XPression 10.5+
- OverDrive 18.2 +
- Carbonite
- · Acuity
- · SDPE Blade

Ports Ross Platform Manager

As part of the Ross Platform Manager software installation process, the installer automatically creates the required firewall exceptions locally for the ports that Ross Platform Manager uses to communicate with Ross Platform Manager Servers.

★ If an external firewall separates your Ross Platform Manager system from your Ross Platform Manager Servers, you may need to update the port exceptions on your external firewall to enable communication with the Ross Platform Manager system.

The following table lists the ports on the Ross Platform Manager computer that Ross Platform Manager uses to communicate with Ross Platform Manager Servers:

Table 2.1 Ross Platform Manager System Ports

Type Description

Port	Type	Description
80	HTTP/HTTPS	Ross Platform Manager requires HTTP/HTTPS ports to be open
443		between Ross Platform Manager computers and the Ross Platform Manager computer.
22	SSH	Orchestration functionality will require Port 22 to be open via SSH on the management computer to communicate within the customer's internal network, but not to reach the Internet externally.

Dependencies

Ross Platform Manager requires some dependencies to be installed to support orchestration.

Table 2.2 Ross Platform Manager Dependency Map

Name	Description	Туре
PostgreSQL Version 11	RDBMS Data Storage for RPM.	Mandatory
Python3	Language interpreter for Ansible.	Optional, only required for orchestration.
Ansible v2.9.22	Orchestration and configuration engine.	Optional, only required for orchestration.
sshpass	ssh utilities.	Optional, only required for orchestration.



Software Installation for Linux Ubuntu

This chapter provides instructions for installing Ross Platform Manager software for the first time on a Linux Ubuntu system.

This chapter discusses the following topics:

- Before a Software Install
- Installing and Configuring PostgreSQL Database Software
- Installing Ross Platform Manager
- Upgrading Ross Platform Manager

Before a Software Install

Before you install Ross Platform Manager software on a Ross Platform Manager computer, perform the following tasks:

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

If you need help during this installation, Ross Video is happy to help. Here are some options to explore:

- Difficulties getting through the installation yourself? Contact Technical Support.
- Prefer to have Ross Commissioners perform this installation for you? Contact Ross Video Sales.

For More Information on...

> contacting Ross Video Technical Support, refer to the section "Contacting Technical Support" on page 1–3.

Installing and Configuring PostgreSQL Database Software

Ross Platform Manager uses the PostgreSQL database to store and manage application data.

★ You must install and configure PostgreSQL database software before installing RPM.

The steps below use RPM on Ubuntu version 22.04.

To Install PostgreSQL 11 database software on Ubuntu:

Note: Each of the following commands must be entered as a single line.

1. To add the PostgreSQL repository on the operating system, enter the following commands:

```
    a. wget --quiet -0 - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
    b. RELEASE=$(lsb_release -cs)
    c. echo "deb http://apt.postgresql.org/pub/repos/apt/ ${RELEASE}"-pgdg main | sudo tee /etc/apt/sources.list.d/pgdg.list
```

2. Install OS updates using the command:

```
sudo apt-get update
```

3. Install PostgreSQL version 11 and start the services using the following commands:

```
a. sudo apt -y install postgresql-11b. pg_ctlcluster 11 main start
```

4. Enable PostgreSQL service using the command:

```
systemctl enable postgresql@11-main
```

5. Navigate to the PostgreSQL data directory:

```
cd /etc/postgresql/11/main
```

6. Open pg_hba.conf with a text editor, such as nano/vi/vim, and modify the local IPv4 connection settings so that lines 79 - 83 match the following:

```
local is for Unix domain socket connections only
local all trust
```

IPv4 local connections:

host all all 127.0.0.1/32 trust
host all all 0.0.0.0/0 trust

If you reach the IPv6 section you've scrolled down too far.

- 7. If using vi or vim editor, save the file using the following sequence:
 - a. Press the esc key.
 - b. Enter the command `:wq`
 - c. Press enter.
- 8. Restart the *postgresql* service:

```
systemctl restart postgresql@11-main
```

9. If you want to access Postgres from a remote machine, open the firewall to accept incoming connections for port 5432:

```
firewall-cmd --zone=public --add-port=5432/tcp --permanent ; firewall-cmd
--reload
```

- 10. Create an RPM database using the steps below.
 - a. To create an RPM database, use the following command:

```
psql -U postgres
```

b. Create a database for the Ross plaform manager, in this example named platform manager:

```
CREATE DATABASE platform manager;
```

c. To verify that the database was created, enter:

\1

d. To exit enter:

/q

To configure the PostgreSQL Database for Ross Platform Manager

1. Log in to the PostgreSQL console as the default "postgres" system user:

```
sudo -u postgres psql
```

2. Create the **platform_manager** database:

```
CREATE DATABASE platform manager
```

3. Exit the **Postgres CLI**:

١q

Note: Upgrading Ross Platform Manager software to a new version does not require a re-installation of the PostgreSQL database software.

Installing Ross Platform Manager

After installing and configuring the PostgreSQL database software on the Ross Platform Manager computer, you can install the Ross Platform Manager software.

To install Ross Platform Manager

1. Enter the following command to install dmidecode. This is necessary for RPM to retrieve hardware serial numbers.

```
sudo apt-get install dmidecode
```

2. Create the application directory:

```
sudo mkdir /opt/platform manager/
```

- 3. Copy the **PlatformManager-3.3.0-*.tar.gz** file from the commissioning package to the system. You can use FileZilla to place it into the /opt/platform manager/ directory.
- 4. Extract the file using this command:

```
sudo tar -xvf PlatformManager-3. 3. 0-*. tar. qz
```

5. Set the permissions on the /opt/platform manager directory by enter the following command:

```
sudo chmod -R 755 /opt/platform manager/
```

6. Run Ross Platform Manager:

```
sH Install
```

7. View Ross Platform Manager's process status by entering the following command:

```
systemctl status PlatformManager
```

Note: If systemctl command doesn't work first time, then issue the following command. Once executed, repeat the systemctl command above:

```
service PlatformManager stop
```

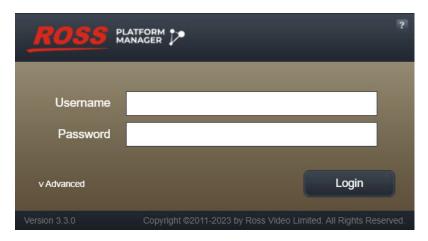
Note: You can monitor the launch process in real time by following the steps below:

```
cd /opt/platform_manager
tail -f workspace/.metadata/logs/application-yyyymmdd. log
```

8. Access Ross Platform Manager via web browser, and enter the IP address of one of the network interfaces:

```
Example: http:/192.168.3.150
```

Ross Platform Manager's login page appears:



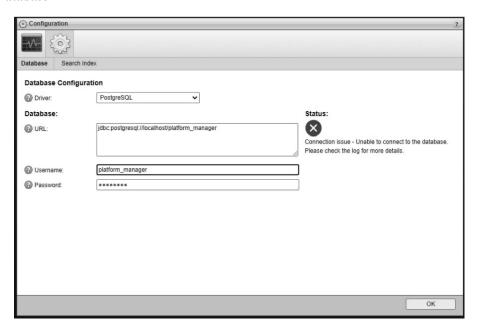
★ If the RPM login page displays a message that says "System is in maintenance mode", follow the procedure below.

To configure the database in maintenance mode

1. Log in to Ross Platform Manager - Maintenance Mode using the following credentials:

Username: maintenance
Password: maintenance

- 2. Click the **Configuration** icon in the top menu bar.
- 3. Select the **Gear** icon in the dialog box that appears.
- 4. Enter the **Database** tab.



Note: This will be when the database is installed locally.

5. Set the **Database Configuration** to the values configured in the **To Configure the PostgreSQL Database for Ross Platform Manager**.

```
Driver: PostgreSQL
URL: jdbc:postgresql://localhost/platform_manager
```

6. Click OK.

A warning appears to indicate that you have modified the database settings. Click OK.

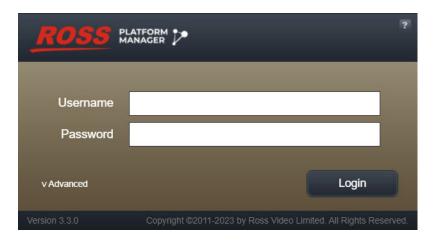
7. Issue the following command at the Ross Platform Manager server to restart the application:

```
sudo systemctl restart PlatformManager
```

8. Access Ross Platform Manager via web browser, and enter the IP address of one of the network interfaces:

```
Example: http:/192.168.3.150
```

Ross Platform Manager's login page appears:



9. Log in to Ross Platform Manager using the following credentials:

```
Username: root
Password: password
```

Once Ross Platform Manager is successfully configured, change the default password.

After installing Ross Platform Manager software, you must obtain a Ross Platform Manager license from Ross Video Technical Support before users can access Ross Platform Manager features.

Upgrading Ross Platform Manager

You can upgrade RPM by following the steps outlined in this section. You must have access to the RPM server, database, and the latest RPM version package.

To back up the database

1. On the database server, execute the command:

```
pg_dump -U postgres platform_manager > rpm.sql
```

To perform the upgrade

- 1. Upload the RPM package to /home/[user] via WinSCP or a similar process. Replace user with the user name on the server.
- 2. Login to the RPM server via SSH.
- 3. Execute the following command:

```
sudo su

tar -zcvf /home/[user]/PlatformManager_Backup2023-X-X.tar.gz /opt/PlatformManager

cp /home/[user]/PlatformManager-NEW_BUILD.tar.gz /opt/PlatformManager

cd /opt/PlatformManager

systemctl stop PlatformManager

cp -r /opt/PlatformManager/configuration/ /home/[user]/configbk/

tar -xvf PlatformManager-NEW_BUILD.tar.gz --overwrite

sh Install
```

4. Open RPM in a web browser, and start the upgrade using the prompt that appears.

To restore the PostgreSQL database

- **★** This procedure is only required if the RPM interface displays an upgrade error.
- 1. Execute the following command:

```
psql -U postgres <db_to_restore> < rpm.sql</pre>
```



Optional Configuration

This chapter provides instructions on optional configurations that you may choose to use depending on how you are using Ross Platform Manager.

This chapter discusses the following topics:

• Setting up SSL/TLS Certificates

Setting up SSL/TLS Certificates

It is recommended that you configure web applications with HTTPs, as it is more secure, and the industry standard practice. To configure RPM for HTTPs transport, a certificate is required. Ross Platform Manager can use either a Self Signed Certificate, or a CA Signed Certificate.

To properly set up SSL/TLS certificates in order to configure RPM for HTTPs transport, follow the procedures in the following sections:

- "Generating Certificates" on page 4–2
- "Configuring Ross Platform Manager with an SSL/TLS Certificate" on page 4–2

Generating Certificates

The first step in setting up SSL/TLS certificates for RPM is to generate the certificate, and convert it to the required format. Follow the procedures in this section before continuing on to "Configuring Ross Platform Manager with an SSL/TLS Certificate" on page 4–2.

To generate a certificate using Java keytool

1. Navigate to the RPM directory and access "keytool" using the command:

```
cd /opt/platform manager/jre/bin/
```

2. Give the file keytool execute permissions using the command:

```
chmod +x keytool
```

3. Begin to generate the certificate using the command:

```
./keytool -genkey -keyalg RSA -alias RPM -keystore RPM.keystore -storepass R0ssVid30 -validity 3800 -keysize 2048 -ext SAN=DNS:<servername>.rossvideo.com -dname "CN=, OU=RossVideo, O=RossVideo, L=Ottawa, ST=ON, C=CA" -noprompt
```

For the following definitions in the command, enter the appropriate info for your system:

- CN Customer first and Last name
- · OU Organizational Unit
- O Organization
- L Location
- ST State or Province
- C Country
- 4. Press ENTER to set the password as the same as the keystore password, or input your desired password.

The certificate has been generated.

To convert a CA signed certificate to the required format

1. Convert the CA signed certificate to PEM format using the following commands in Java keytool:

```
keytool -keystore RPM.keystore -alias RPM -genkey -keyalg RSA
keytool -certreq -alias RPM -keystore RPM.keystore -file RPM.csr
keytool -keystore RPM.keystore -import -alias RPM -file RPM.crt -trustcacerts
```

The CA signed certificate has been converted to the required format.

Configuring Ross Platform Manager with an SSL/TLS Certificate

Now that the certificate has been generated and converted to the required format, RPM must be configured with an SSL/TLS certificate.

To configure Ross Platform Manager with an SSL/TLS certificate

1. Navigate to the RPM install location using the command:

```
cd /opt/platform manager/configuration
```

2. Open the **http.conf** file using the command:

```
vim http.conf
```

3. In the **http.conf** file, change lines 7-19 to the following:

```
wrapper.java.additional.50=-Dorg.eclipse.equinox.http.jetty.https.enabled=true
wrapper.java.additional.51=-Dorg.eclipse.equinox.http.jetty.https.port=443
wrapper.java.additional.52=-Dorg.eclipse.equinox.http.jetty.ssl.keystore=path_to.k
eystore
wrapper.java.additional.53=-Dorg.eclipse.equinox.http.jetty.ssl.password=
<keystore password>
wrapper.java.additional.54=-Dorg.eclipse.equinox.http.jetty.ssl.keypassword=
<keystore password>
wrapper.java.additional.55=-Dorg.eclipse.equinox.http.jetty.ssl.needclientauth=fal
se
wrapper.java.additional.56=-Dorg.eclipse.equinox.http.jetty.ssl.wantclientauth=tru
e
wrapper.java.additional.57=-Dorg.eclipse.equinox.http.jetty.ssl.protocol=TLS
wrapper.java.additional.58=-Dorg.eclipse.equinox.http.jetty.ssl.algorithm=RSA
wrapper.java.additional.59=-Dorg.eclipse.equinox.http.jetty.ssl.keystoretype=JKS
```

- 4. Save the **http.conf** file.
- 5. Restart Ross Platform Manager using the command:

```
sudo systemctl restart platform manager
```

Ross Platform Manager has been configured.



Installing Dependencies

This chapter provides instructions for installing dependencies.

This chapter discusses the following topics:

• Installing Dependencies

Installing Dependencies

Ross Platform Manager requires a number of dependencies to be installed in order to support orchestration. See below for a list of required dependencies.

Dependency	Version
Python	>=3.6
python-pip	3
Ansible	2.9.22
sshpass	1.0.9

To install Python dependency

1. Python comes pre-installed on Linux OS.

To install Python-pip dependency

1. Issue the following command:

sudo apt-get install python3-pip

To install Ansible dependency

1. Issue the following command for Ansible version 2.9.22:

sudo python3 -m pip install ansible==2. 9. 22

To install SSHPASS dependency

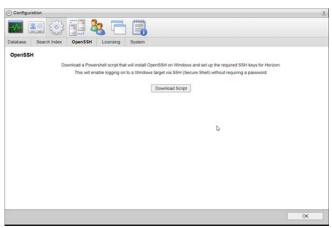
1. Issue the following command:

sudo apt-get install sshpass

To configure openSSH for a client setup on a remote host

- 1. Navigate to the Ross Platform Manager configuration settings for OpenSSH. From the upper menu, go to Tools **Solution** Configuration and the Configuration dialog opens.
- In the Configuration dialog menu, select **System** > **OpenSSH**.





- 3. Transfer openssh-download.zip to the remote target.
- Unzip the compressed file.
- 5. Follow the steps in the **readme** file.