



Gluware® Pro Automation Get Started

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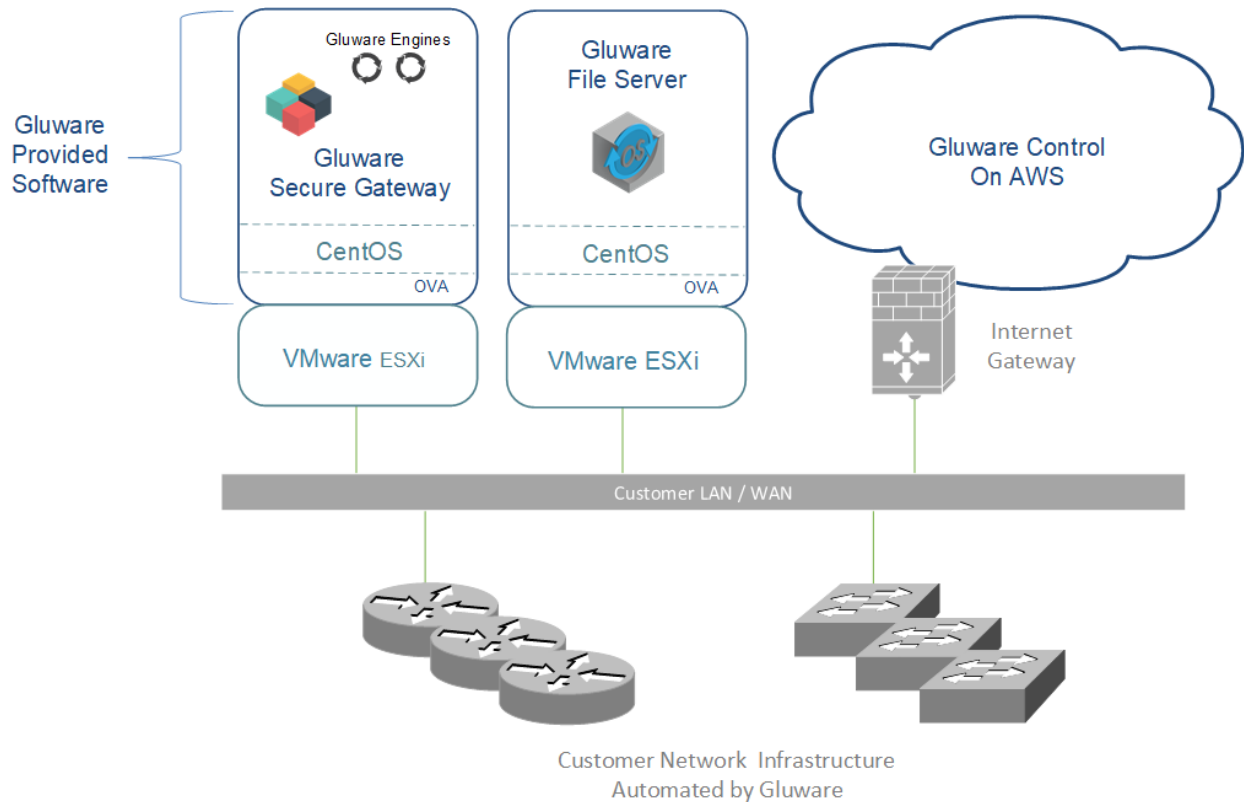
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About Gluware Pro Automation

Gluware Pro Automation includes the Gluware **Device Manager**, **Config Drift and Audit**, and **OS Manager** solutions that form the foundation of the industry leading network automation platform. **Gluware Pro Automation** is designed to get you started using Gluware with little effort.

The **Gluware Secure Gateway** (GSG) and **Gluware File Server** are installed on your network to ensure secure access. Gluware Customer Support maintains an encrypted Gluware instance on AWS that communicates with your GSG and File Server. This architecture ensures maximum uptime and system health while ensuring you control communication to your network infrastructure. To provide redundancy, a second Gluware Secure Gateway may be installed on your network.



Browser requirements

Google Chrome™, desktop versions (not iOS)

Recommended resolution: 1920 x 1080 pixels

Minimum resolution: 1280 x 1024 pixels

Other browsers may work, but the user experience may vary.

System requirements

Gluware Secure Gateway	Minimum requirements
Disk space	128 GB
Memory	6 GB
CPUs/vCPUs	2 CPUs, 2.4 GHz
Other	Unique static IP address

Gluware File Server	Minimum requirements
Disk space	To meet your needs for OS image storage
Memory	2 GB
CPUs/vCPUs	2 CPUs
Other	Unique static IP address

Network connectivity requirements

Gluware Pro Automation requires internet connectivity from the installed **Gluware Secure Gateway**. The Gluware Secure Gateway and Gluware File Server communicate with a Gluware instance on AWS using the following network port numbers.

Internet connectivity

Source	Destination	Ports
Gluware Secure Gateway	AWS	SSH (TCP 22)
Gluware File Server	AWS	SSH (TCP 22)

All communication to your network infrastructure is initiated by the Gluware Secure Gateway residing at your chosen network location.

Customer network device connectivity

Source	Destination	Ports
Gluware Secure Gateway	Customer network device	SSH (TCP 22) or Telnet (TCP 23)
Customer network device	Gluware File Server	SCP - TCP 22, or FTP - TCP 21, or TFTP - UDP 69*

*Default, user-configurable

Supported Platforms

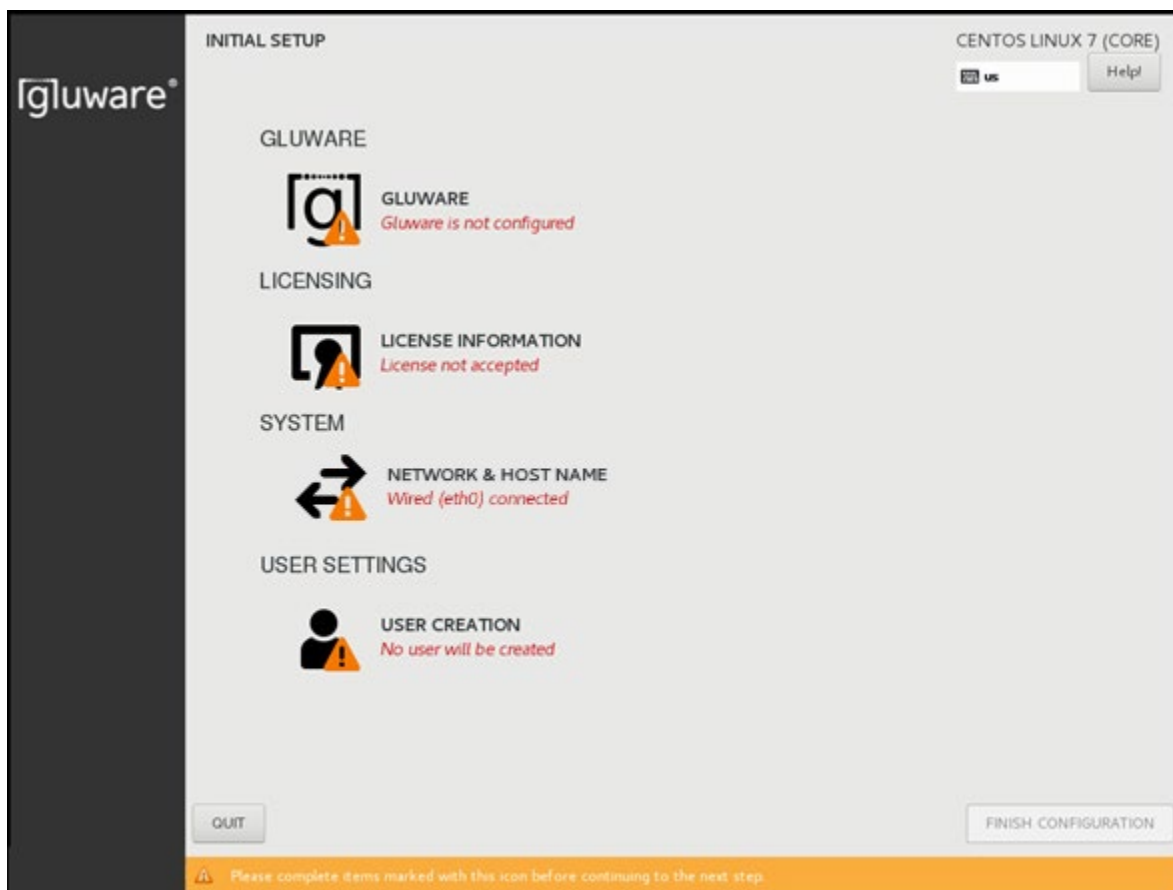
The vendors and network operating systems currently supported are listed at <https://gluware.com/supported-platforms/>.

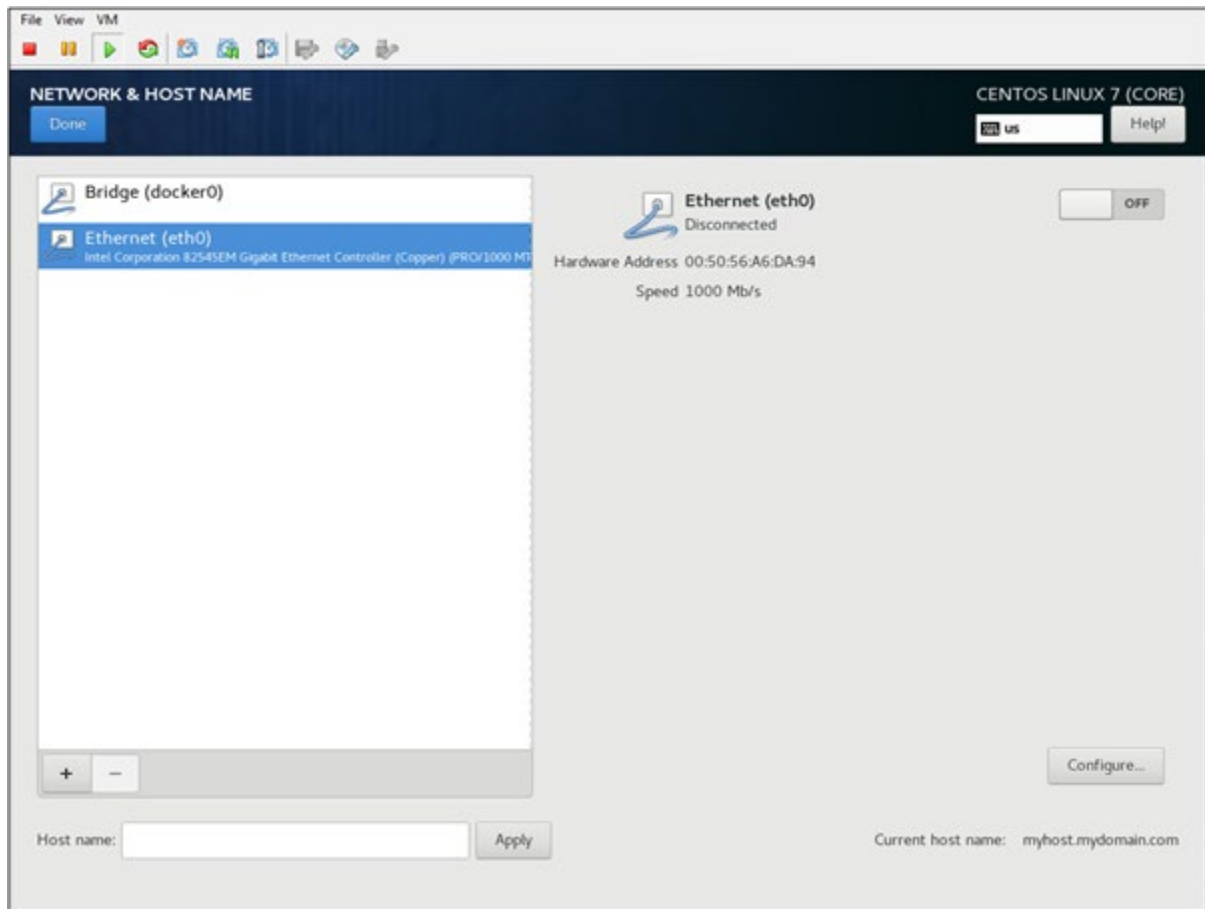
Installing Gluware Pro Automation

A link to download **Gluware Pro Automation** is emailed to the address you used at signup.

Install the Gluware Secure Gateway

1. Install the OVA and power it on.
2. Open the **VMware Console**.
3. On the **INITIAL SETUP** screen, **first** select **NETWORK & HOST NAME**.





4. Ensure that **Ethernet (eth0)** is selected. (Don't change the **Bridge (docker0)** settings.)
5. Enter the fully qualified host name you want for this host and click **Apply**.
6. Click **Configure** to define your network configuration on the eth0 adapter.

Editing System eth0

Connection name: System eth0

General Ethernet 802.1x Security DCB **IPv4 Settings** IPv6 Settings

Method: Manual

Addresses

Address	Netmask	Gateway

Buttons: Add, Delete

DNS servers:

Search domains:

DHCP client ID:

Require IPv4 addressing for this connection to complete

Buttons: Routes..., Cancel, Save

7. Select the **IPv4 Settings** tab.
8. Select **Manual** from the **Method** drop-down list.
9. Click **Add** and enter your network definition: the IP **Address**, **Netmask**, and **Gateway** to assign for this host. It must be consistent with the virtual switch that was assigned for this host when setting up the virtual machine.

NOTE: A static IP address is recommended. Use of DHCP is not recommended.

10. Click **Save** to store your network configuration.
11. Click **Done** to complete your network definition.
The Ethernet (eth0) setting is based on the hypervisor virtual network setup on which the CentOS image has been built. If you need to change the Ethernet settings in CentOS for any reason, from the CentOS desktop select **Applications > System Tools > Settings > Network**, where the network settings can be adjusted for the CentOS system.

12. On the **INITIAL SETUP** screen, select **SECURE GATEWAY**.
13. For **Gluware Host**, enter the IP address Gluware provided.

The screenshot displays the 'SECURE GATEWAY' configuration window. At the top left, there is a blue 'Done' button. At the top right, the system name 'CENTOS LINUX 7 (CORE)' is shown, along with a keyboard layout indicator 'us' and a 'Help!' button. The main content area is titled 'Gluware Credentials' and contains three input fields: 'Gluware Host' with the value 'pro.gluware.com', 'Username' which is empty, and 'Password' which is empty. Below these fields is a grey 'Initialize' button.

14. Enter the **Username** and **Password** Gluware provided.
15. Click **Initialize**.
16. When you see a success message, click **Done**.
17. On the **INITIAL SETUP** screen, select **LICENSE INFORMATION**.
18. Check the box to accept the CentOS license agreement.
19. Click **Done**.

20. On the **INITIAL SETUP** screen, select **USER CREATION**. The system administrator local user account needs to be created. This isn't a Gluware user—it's the CentOS user that will administer the Gluware system.

The screenshot shows the 'CREATE USER' interface. At the top left is a 'Done' button. At the top right, it says 'CENTOS LINUX 7 (CORE)' with a keyboard icon and 'us' language setting, and a 'Help!' button. The main form has the following elements:

- Full name**: A text input field.
- User name**: A text input field. Below it is a tip: "Tip: Keep your user name shorter than 32 characters and do not use spaces."
- Make this user administrator
- Require a password to use this account
- Password**: A text input field. Below it is a strength indicator bar that is empty.
- Confirm password**: A text input field.
- An **Advanced...** button at the bottom.

21. Enter the CentOS user's first and last name (**Full name**).
22. Provide the **User Name** and **Password** the CentOS user will use to administer the Gluware system. Create a strong password to protect access to Gluware.
23. Confirm the password and click **Done**.
24. On the **INITIAL SETUP** screen, click **FINISH CONFIGURATION**.

Sign in to Gluware

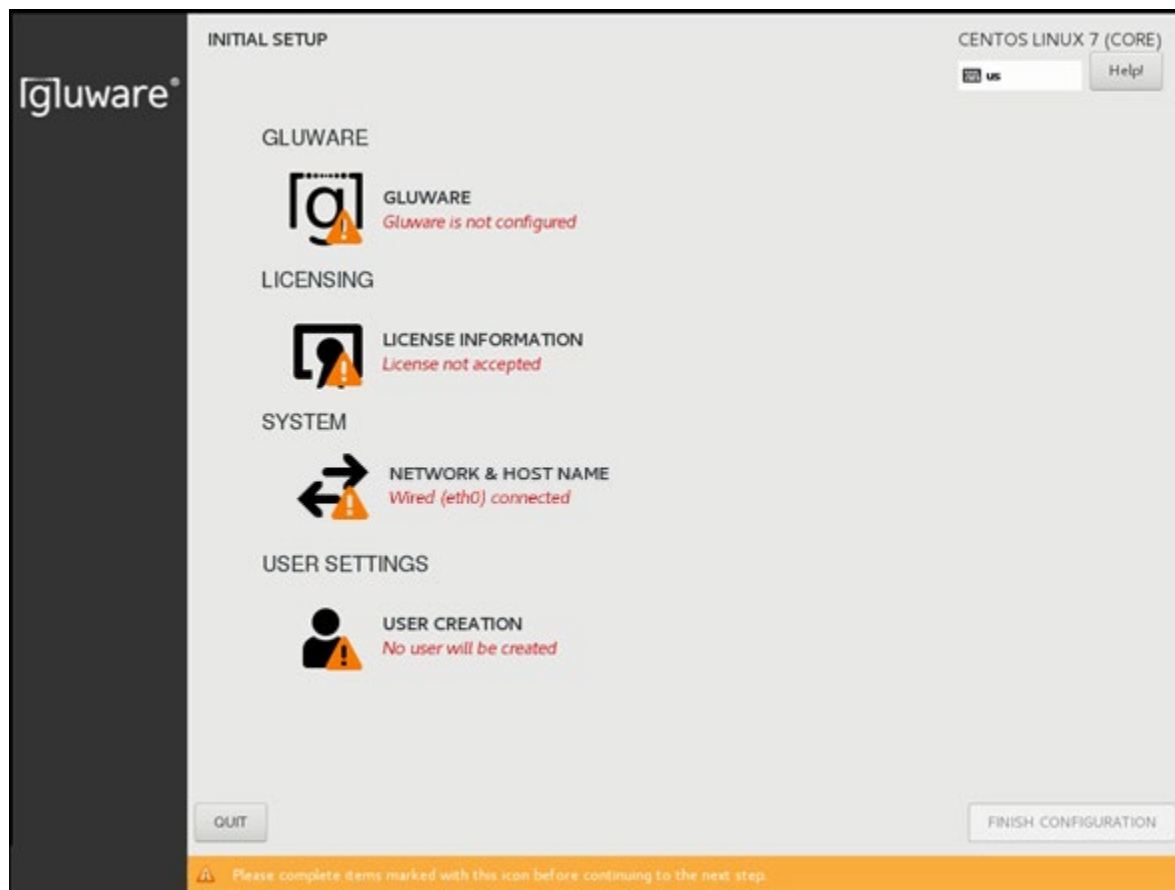
Sign in to Gluware at <https://IP-address-Gluware-provided/>. Use the username and password provided.

Install a Gluware File Server

You'll need the OnPrem installer, available from Gluware Support at support@gluware.com, to install the File Server.

Confirm network settings

1. Open the **VMware Console**.
2. On the **INITIAL SETUP** screen, **first** select **NETWORK & HOST NAME**.

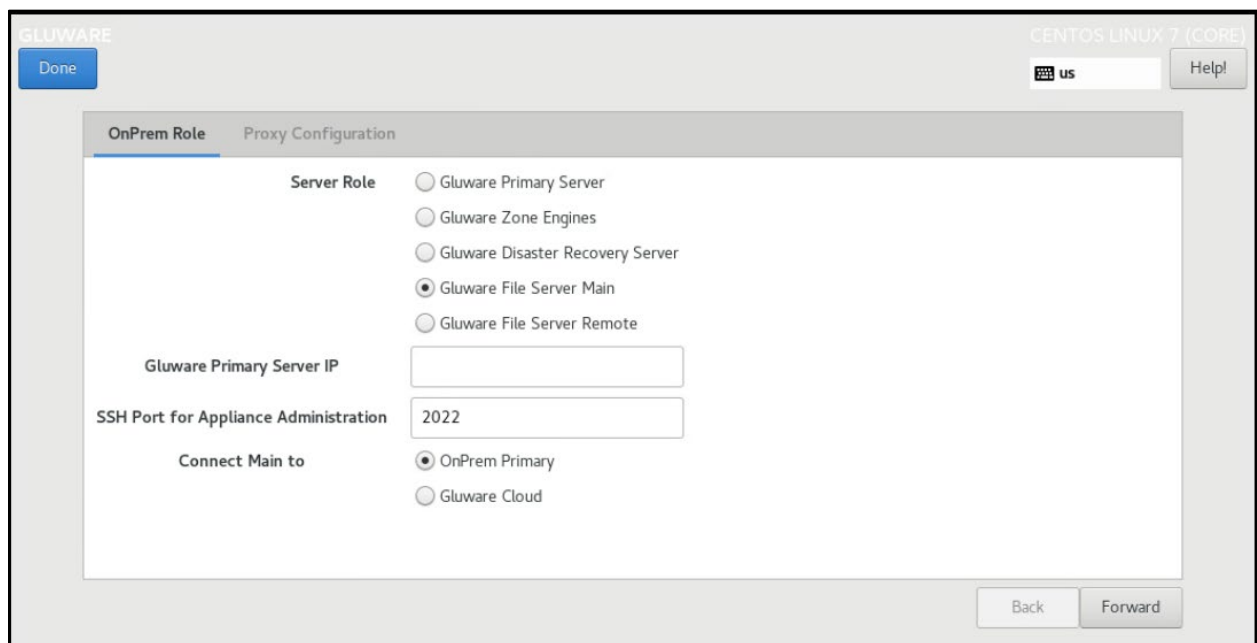


3. Ensure that **Ethernet (eth0)** is selected. (Don't change the **Bridge (docker0)** settings.)
4. Enter the fully qualified host name you want for this host and click **Apply**.
5. Click **Configure** to define your network configuration on the eth0 adapter.
6. Select the **IPv4 Settings** tab.

7. Select **Manual** from the **Method** drop-down list.
8. Click **Add** and enter your network definition: the IP **Address**, **Netmask**, and **Gateway** to assign for this host. It must be consistent with the virtual switch that was assigned for this host when setting up the virtual machine.
9. Click **Save** to store your network configuration and then click **DONE** to complete your network definition.

Configure the File Server

10. On the **INITIAL SETUP** screen, select **GLUWARE**.
11. On the **OnPrem Role** tab, select **Gluware File Server Main**.



The screenshot shows the Gluware OnPrem Role configuration interface. The window title is "GLUWARE" and the system is identified as "CENTOS LINUX 7 (CORE)". A "Done" button is in the top left, and a "Help!" button is in the top right. The main content area is titled "OnPrem Role" and "Proxy Configuration". Under "Server Role", there are five radio button options: "Gluware Primary Server", "Gluware Zone Engines", "Gluware Disaster Recovery Server", "Gluware File Server Main" (which is selected), and "Gluware File Server Remote". Below these are two text input fields: "Gluware Primary Server IP" and "SSH Port for Appliance Administration" (containing the value "2022"). At the bottom, there are two radio button options for "Connect Main to": "OnPrem Primary" (selected) and "Gluware Cloud". "Back" and "Forward" buttons are located at the bottom right of the configuration area.

12. Enter the IP address of the Gluware Primary Server that Gluware provided. At this point, the address is validated, and a connection is tested.
13. Enter the SSH port to use for the administration of the VM. You cannot use port 22 as that port is used to respond to SCP requests for file transfers.
14. Select **Gluware Cloud**.
15. Click **DONE**.

Accept CentOS licensing terms

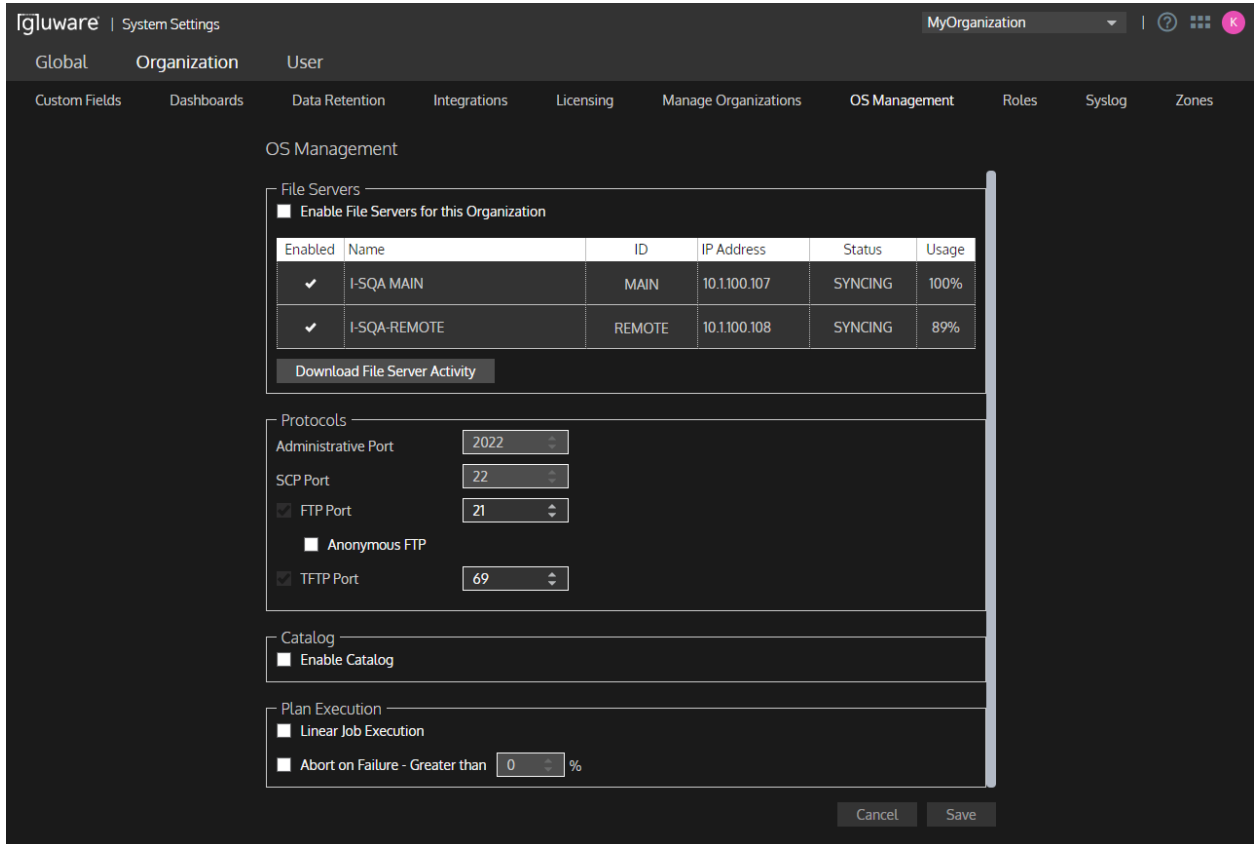
16. On the **INITIAL SETUP** screen, select **LICENSE INFORMATION**.
17. Check the box to accept the CentOS license agreement and click **DONE**.

Create the local user

18. On the **INITIAL SETUP** screen, select **USER CREATION**.
19. Enter the CentOS user's first and last name (**Full name**).
20. Provide the **User Name** and **Password** the CentOS user will use to administer the Gluware system. Create a strong password to protect access to Gluware.
21. Confirm the password and click **DONE**.
22. On the **INITIAL SETUP** screen, click **FINISH CONFIGURATION**.
23. Sign off CentOS and sign in again to ensure the appropriate permissions take effect.

Add the File Server in Gluware System Settings

1. Sign in to Gluware and go to **System Settings**. Ensure you're in the organization you want to add the File Server to.
2. Select **Organization > OS Management**.



3. Ensure the **Administrative Port** and **SCP Port** assignments are correct.
4. Optional: Clear the **FTP Port**, **TFTP Port**, or the **Anonymous FTP** box to disable the port. These ports are not required. Ensure the enabled port assignments are correct.
5. Click **Add File Server +**.
6. Check the **Enable File Server** box.
7. Enter a name and IP address for the File Server.
8. Save.

Exploring Gluware

Tailor your environment

Go to Gluware **Solutions Management** and install the Config Modeling Kits for your devices. See “Install packages” in online Help for how-to info.

Add your devices

Gluware provides a walkthrough of the **Device Manager** and **Config Drift and Audit** solutions at <https://gluware.com/resources/tutorials/>.

Run an audit

Gluware includes example DoD SIG and NIST CIS audit policies for Cisco IOS that you can run against your devices. (These examples may not meet the full requirements of the compliance specifications.) See the Gluware tutorial at <https://gluware.com/resources/tutorials/config-audit/>.

Upgrade your network operating systems

See the tutorial for OS Manager at <https://gluware.com/resources/tutorials/os-manager/> or use Gluware online **Help** for guidance.

Getting help

Tutorials

Gluware provides walkthroughs of the Gluware solutions and how to use them. The tutorials are available at <https://gluware.com/resources/tutorials/>.

Online Help

Click ? on the Gluware title bar for online **Help**.

Gluware User Guide

Access the *Gluware User Guide* in the **Guides & Tech Notes** section of the Gluware Support portal at <https://support.gluware.com/hc/en-us>.

Training

The **Gluware Pro Automation** offer includes web conference training. The training focuses on intermediate and advanced concepts of the **Config Drift and Audit**, **Config Modeling**, and **OS Manager** solutions. Course times and training recordings are posted to the Online Community.

Recorded training is periodically posted to the Gluware Support Community.

Online Community

Your **Gluware Support Community** account is established under the email address you used at signup. The community is available at <https://support.gluware.com>.

Knowledge Base

Gluware publishes a **Knowledge Base** with time-relevant topics for our customers and partners. The Knowledge Base is available at <https://support.gluware.com>.

Gluware Support

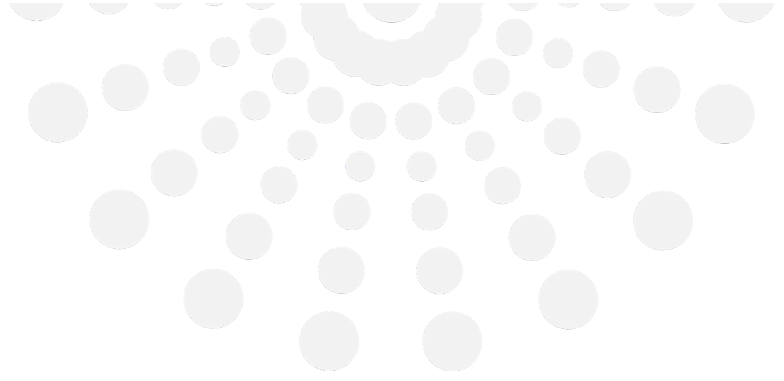
Gluware Pro entitles you to access Gluware Tier 2 and Tier 3 Support. You'll receive an email with a verification link to activate your account from support@gluenetworks.zendesk.com.

You can open a ticket with Gluware on our Support portal at <https://support.gluware.com>, by sending an email to support@gluware.com, or by phone at these toll free numbers:

- US: 1-855-458-3822
- UK: 0808-134-9906
- Netherlands: 0-800-023-2194
- Australia: 1-800-987-824
- NZ + 0800-005-106

Upgrading Support and adding Gluware solutions

To upgrade from 8x5 Gluware Tier 2 or Tier 3 Support to 24x7 or to add the Gluware **Config Modeling** or **Workflow** solutions, contact Gluware at <https://gluware.com/company/contact/> or via email to sales@gluware.com.



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