

# Load Balancing Hologic Unifi Workspace

Version 1.0.0



# Table of Contents

1. About this Brief	3
2. Loadbalancer.org Appliances Supported	3
3. Software Versions Supported	3
3.1. Loadbalancer.org Appliance	3
3.2. Hologic Unifi Workspace	3
4. Hologic Unifi Workspace	3
5. Load Balancing Hologic Unifi Workspace	3
5.1. Load Balancing & HA Requirements	3
5.2. Virtual Service (VIP) Requirements	4
6. Deployment Concept	4
7. Load Balancer Deployment Methods	4
7.1. Layer 7 SNAT Mode	4
8. Loadbalancer.org Appliance – the Basics	5
8.1. Virtual Appliance	5
8.2. Initial Network Configuration	6
8.3. Accessing the Appliance WebUI	6
8.3.1. Main Menu Options	7
8.4. Appliance Software Update	8
8.4.1. Online Update	8
8.4.2. Offline Update	8
8.5. Ports Used by the Appliance	9
8.6. HA Clustered Pair Configuration	10
9. Appliance Configuration for Hologic Unifi Workspace	10
9.1. VIP 1 - VIP_Supernode	10
9.1.1. Virtual Service (VIP) Configuration	10
9.1.2. Configure the Associated Real Servers (RIPs)	11
9.2. VIP 2 - VIP_DicomSCP	11
9.2.1. Virtual Service (VIP) Configuration	11
9.2.2. Configure the Associated Real Servers (RIPs)	12
9.3. Finalizing the Configuration	12
10. Configuring Hologic Unifi Workspace for Load Balancing	12
11. Testing & Verification	15
11.1. Using System Overview	15
11.2. Accessing Hologic Unifi Workspace via the Load Balancer	15
12. Technical Support	16
13. Further Documentation	16
14. Appendix	17
14.1. Configuring HA - Adding a Secondary Appliance	17
14.1.1. Non-Replicated Settings	17
14.1.2. Configuring the HA Clustered Pair	18
15. Document Revision History	20

# 1. About this Brief

This brief outlines the steps required to configure a load balanced Hologic Unifi Workspace environment utilizing Loadbalancer.org appliances. It covers the configuration of the load balancers and also any Hologic Unifi Workspace configuration changes that are required to enable load balancing.

For more information about initial appliance deployment, network configuration and using the Web User Interface (WebUI), please also refer to the [Administration Manual](#).

## 2. Loadbalancer.org Appliances Supported

All our products can be used with Hologic Unifi Workspace. For full specifications of available models please refer to <https://www.loadbalancer.org/products/enterprise>.

Some features may not be available or fully supported in all cloud platforms due to platform specific limitations. For more details, please refer to the "Main Differences to our Standard (Non-Cloud) Product" section in the appropriate cloud platform [Quick Start Guide](#) or check with Loadbalancer.org support.

## 3. Software Versions Supported

### 3.1. Loadbalancer.org Appliance

- V8.9.1 and later

#### Note

The screenshots used throughout this document aim to track the latest Loadbalancer.org software version. If you're using an older version, or the very latest, the screenshots presented here may not match your WebUI exactly.

### 3.2. Hologic Unifi Workspace

- All versions

## 4. Hologic Unifi Workspace

Hologic Unifi Workspace is a comprehensive, multi-modality reading solution designed specifically for breast health diagnostics and radiology workflow efficiency. It enables clinicians to view images from mammography, breast MRI, and ultrasound on a single platform, eliminating the need for multiple, disparate workstations

## 5. Load Balancing Hologic Unifi Workspace

#### Note

It's highly recommended that you have a working Hologic Unifi Workspace environment first before implementing the load balancer.

### 5.1. Load Balancing & HA Requirements

The load balancer is used to distribute connections across a Unifi Workspace cluster.



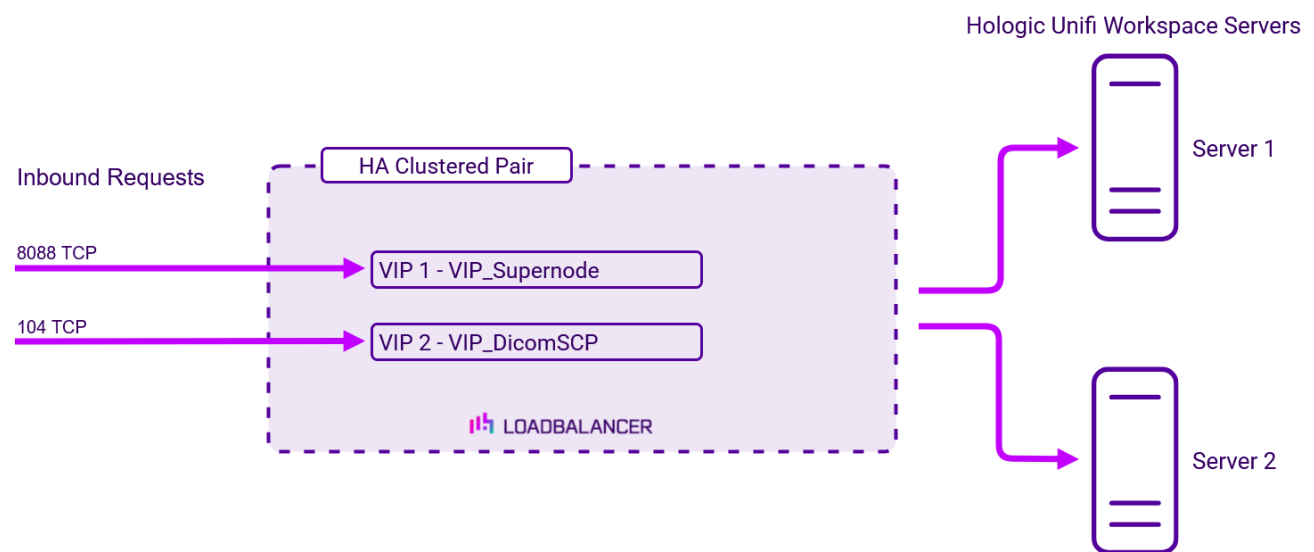
## 5.2. Virtual Service (VIP) Requirements

To provide load balancing and HA for Hologic Unifi Workspace, the following VIPs are required:

Ref.	VIP Name	Mode	Port(s)	Persistence Mode	Health Check
VIP 1	VIP_Supernode	L7 SNAT (TCP)	8088	Source IP	Connect to Port
VIP 2	VIP_DicomSCP	L7 SNAT (TCP)	104	Source IP	Connect to Port

## 6. Deployment Concept

Once the load balancer is deployed, clients connect to the Virtual Services (VIPs) rather than connecting directly to one of the Hologic Unifi Workspace servers. These connections are then load balanced across the Hologic Unifi Workspace servers to distribute the load according to the load balancing algorithm selected.



### Note

The load balancer can be deployed as a single unit, although [Loadbalancer.org](https://loadbalancer.org) recommends a clustered pair for resilience & high availability. Please refer to the section [Configuring HA - Adding a Secondary Appliance](#) in the appendix for more details on configuring a clustered pair.

## 7. Load Balancer Deployment Methods

The load balancer can be deployed in 4 fundamental ways: *Layer 4 DR mode*, *Layer 4 NAT mode*, *Layer 4 SNAT mode*, and *Layer 7 SNAT mode*.

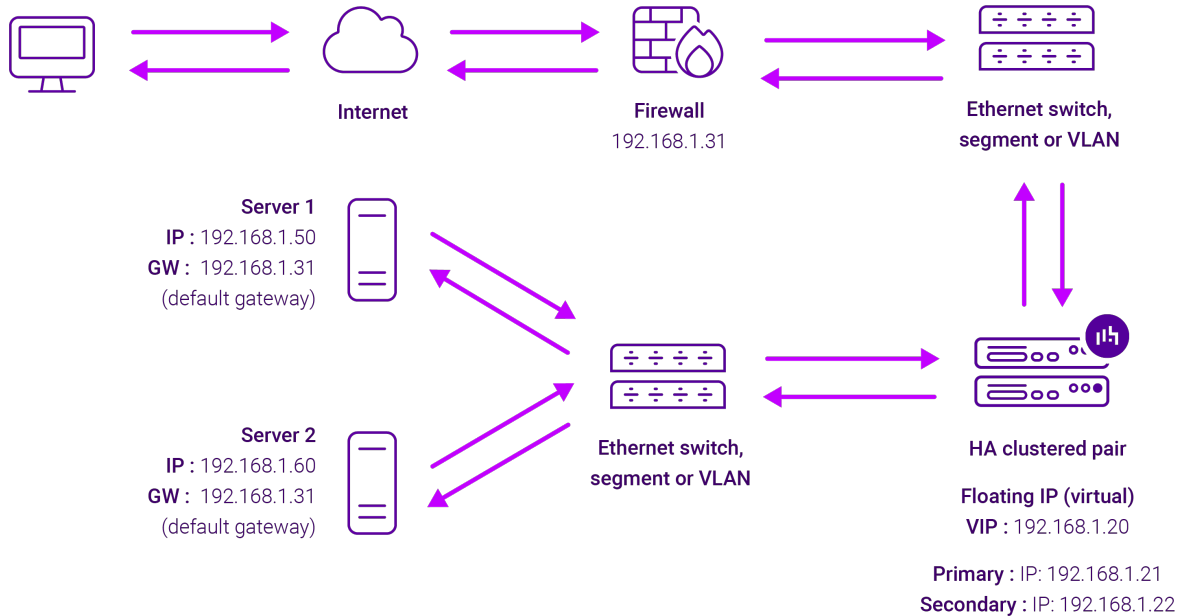
For Hologic Unifi Workspace, layer 7 SNAT mode is recommended. This mode is described below and is used for the configuration presented in this guide.

### 7.1. Layer 7 SNAT Mode

Layer 7 SNAT mode uses a proxy (HAProxy) at the application layer. Inbound requests are terminated on the load balancer and HAProxy generates a new corresponding request to the chosen Real Server. As a result, Layer 7 is typically not as fast as the Layer 4 methods. Layer 7 is typically chosen when either enhanced options such as



SSL termination, cookie based persistence, URL rewriting, header insertion/deletion etc. are required, or when the network topology prohibits the use of the layer 4 methods. The image below shows an example network diagram for this mode.



- Because layer 7 SNAT mode is a full proxy, Real Servers in the cluster can be on any accessible network including across the Internet or WAN.
- Layer 7 SNAT mode is not transparent by default, i.e. the Real Servers will not see the source IP address of the client, they will see the load balancer's own IP address by default, or any other local appliance IP address if preferred (e.g. the VIP address). This can be configured per layer 7 VIP. If required, the load balancer can be configured to provide the actual client IP address to the Real Servers in 2 ways. Either by inserting a header that contains the client's source IP address, or by modifying the Source Address field of the IP packets and replacing the IP address of the load balancer with the IP address of the client. For more information on these methods please refer to [Transparency at Layer 7](#).
- Layer 7 SNAT mode can be deployed using either a one-arm or two-arm configuration. For two-arm deployments, **eth1** is typically used for client side connections and **eth0** is used for Real Server connections, although this is not mandatory since any interface can be used for any purpose.
- Requires no mode-specific configuration changes to the load balanced Real Servers.
- Port translation is possible with Layer 7 SNAT mode, e.g. VIP:80 → RIP:8080 is supported.
- You should not use the same RIP:PORT combination for layer 7 SNAT mode VIPs and layer 4 SNAT mode VIPs because the required firewall rules conflict.

## 8. Loadbalancer.org Appliance – the Basics

### 8.1. Virtual Appliance

A fully featured, fully supported 30 day trial is available if you are conducting a PoC (Proof of Concept) deployment. The VA is currently available for VMware, Virtual Box, Hyper-V, KVM, XEN and Nutanix AHV and has



been optimized for each Hypervisor. By default, the VA is allocated 2 vCPUs, 4GB of RAM and has a 20GB virtual disk. The Virtual Appliance can be downloaded [here](#).

 **Note**

The same download is used for the licensed product, the only difference is that a license key file (supplied by our sales team when the product is purchased) must be applied using the appliance's WebUI.

 **Note**

Please refer to [Virtual Appliance Installation](#) and the ReadMe.txt text file included in the VA download for additional information on deploying the VA using the various Hypervisors.

 **Note**

The VA has 4 network adapters. For VMware only the first adapter (**eth0**) is connected by default. For HyperV, KVM, XEN and Nutanix AHV all adapters are disconnected by default. Use the network configuration screen within the Hypervisor to connect the required adapters.

## 8.2. Initial Network Configuration

After boot up, follow the instructions on the appliance console to configure the management IP address, subnet mask, default gateway, DNS servers and other network and administrative settings.

 **Important**

Be sure to set a secure password for the load balancer, when prompted during the setup routine.

## 8.3. Accessing the Appliance WebUI

The WebUI is accessed using a web browser. By default, users are authenticated using Apache authentication. Users can also be authenticated against LDAP, LDAPS, Active Directory or Radius - for more information, please refer to [External Authentication](#).

 **Note**

There are certain differences when accessing the WebUI for the cloud appliances. For details, please refer to the relevant [Quick Start / Configuration Guide](#).

1. Using a browser, navigate to the following URL:

**<https://<IP-address-configured-during-the-network-setup-wizard>:9443/lbadmin/>**

 **Note**

You'll receive a warning about the WebUI's SSL certificate. This is due to the default self signed certificate that is used. If preferred, you can upload your own certificate - for more information, please refer to [Appliance Security Features](#).

 **Note**

If you need to change the port, IP address or protocol that the WebUI listens on, please refer to [Service Socket Addresses](#).

2. Log in to the WebUI using the following credentials:

**Username:** loadbalancer



**Password:** <configured-during-network-setup-wizard>

**Note** To change the password, use the WebUI menu option: *Maintenance > Passwords*.

Once logged in, the WebUI will be displayed as shown below:

The screenshot shows the Loadbalancer Enterprise VA Max web interface. At the top, there's a navigation bar with 'Primary | Secondary', 'Active | Passive', 'Link', and '8 Seconds'. A left sidebar contains a menu with items: System Overview, Local Configuration, Cluster Configuration, Maintenance, View Configuration, Reports, Logs, Support, and Live Chat. The main content area features a warning box: 'WARNING: YOUR TRIAL IS DUE TO EXPIRE IN 30 DAYS. Buy with confidence. All purchases come with a 90 day money back guarantee. Already bought? Enter your license key here' with a 'Buy Now' button. Below is the 'System Overview' section with a question 'Would you like to run the Setup Wizard?' and 'Accept'/'Dismiss' buttons. A filter bar shows 'VIRTUAL SERVICE', 'IP', 'PORTS', 'CONNS', 'PROTOCOL', 'METHOD', and 'MODE', with a message 'No Virtual Services configured.' Below are three graphs: 'Network Bandwidth' (showing RX and TX bytes), 'System Load Average' (showing 1m, 5m, and 15m averages), and 'Memory Usage'.

- You'll be asked if you want to run the Setup Wizard. Click **Dismiss** if you're following a guide or want to configure the appliance manually. Click **Accept** to start the Setup Wizard.

**Note** The Setup Wizard can only be used to configure Layer 7 services.

### 8.3.1. Main Menu Options

**System Overview** - Displays a graphical summary of all VIPs, RIPs and key appliance statistics



**Local Configuration** - Configure local host settings such as IP address, DNS, system time etc.

**Cluster Configuration** - Configure load balanced services such as VIPs & RIPs

**Maintenance** - Perform maintenance tasks such as service restarts and creating backups

**View Configuration** - Display the saved appliance configuration settings

**Reports** - View various appliance reports & graphs

**Logs** - View various appliance logs

**Support** - Create a support download, contact the support team & access useful links

**Live Chat** - Start a live chat session with one of our Support Engineers

## 8.4. Appliance Software Update

We recommend that the appliance is kept up to date to ensure that you benefit from the latest bug fixes, security updates and feature improvements. Both online and offline update are supported.

### Note

For full details, please refer to [Appliance Software Update](#) in the Administration Manual.

### Note

Services may need to be restarted/reloaded after the update process completes or in some cases a full appliance restart may be required. We therefore recommend performing the update during a maintenance window.

### 8.4.1. Online Update

The appliance periodically contacts the Loadbalancer.org update server ([update.loadbalancer.org](https://update.loadbalancer.org)) and checks for updates. This is the default behavior and can be disabled if preferred. If an update is found, a notification similar to the example below will be displayed at the top of the WebUI:

**Information:** Update 8.13.5 is now available for this appliance.

[Online Update](#)

Click **Online Update**. A summary of all new features, improvements, bug fixes and security updates included in the update will be displayed. Click **Update** at the bottom of the page to start the update process.

### Important

Do not navigate away whilst the update is ongoing, this may cause the update to fail.

The update can take several minutes depending on download speed and upgrade version. Once complete, the following message will be displayed:

**Information:** Update completed successfully. Return to [system overview](#).

If services need to be reloaded/restarted or the appliance needs a full restart, you'll be prompted accordingly.

### 8.4.2. Offline Update



If the appliance does not have access to the Internet, offline update can be used.

To check for the latest version, please refer to our product roadmap page available [here](#). To obtain the latest offline update files contact [support@loadbalancer.org](mailto:support@loadbalancer.org).

To perform an offline update:

1. Using the WebUI, navigate to: **Maintenance > Software Update**.
2. Select **Offline Update**.
3. The following screen will be displayed:

## Software Update

### Offline Update

The following steps will lead you through offline update.

1. Contact **Loadbalancer.org support** to obtain the offline update archive and checksum.
2. Save the archive and checksum to your local machine.
3. Select the archive and checksum files in the upload form below.
4. Click *Upload and Install* to begin the update process.

Archive:  No file chosen

Checksum:  No file chosen

4. Select the *Archive* and *Checksum* files.
5. Click **Upload and Install**.
6. If services need to be reloaded/restarted or the appliance needs a full restart, you'll be prompted accordingly.

## 8.5. Ports Used by the Appliance

By default, the appliance uses the following TCP & UDP ports:

Protocol	Port	Purpose
TCP	22	SSH
TCP & UDP	53	GSLB
TCP & UDP	123	NTP
TCP & UDP	161	SNMP
UDP	6694	Heartbeat between Primary & Secondary appliances in HA mode
TCP	7778	HAProxy persistence table replication
TCP	9000	Gateway service for ADC Portal comms
TCP	9080	WebUI - HTTP (disabled by default)



Protocol	Port	Purpose
TCP	9081	Nginx fallback server
TCP	9443	WebUI - HTTPS
TCP	25565	Shuttle service for ADC Portal comms

**Note**

All ports listed above except port 123 (NTP) can be changed if required.

- To change the port used for heartbeat, refer to [Configuring High Availability](#)
- To change the port used for HAProxy replication, refer to [Layer 7 - Advanced Configuration](#)
- To change other ports, refer to [Service Socket Addresses](#)

## 8.6. HA Clustered Pair Configuration

Loadbalancer.org recommend that load balancer appliances are deployed in pairs for high availability. In this guide a single unit is deployed first, adding a secondary unit is covered in the section [Configuring HA - Adding a Secondary Appliance](#) of the appendix.

# 9. Appliance Configuration for Hologic Unifi Workspace

## 9.1. VIP 1 - VIP\_Supernode

### 9.1.1. Virtual Service (VIP) Configuration

1. Using the WebUI, navigate to *Cluster Configuration > Layer 7 – Virtual Services* and click **Add a new Virtual Service**.

**Virtual Service**
[Advanced +]

Label  ?

IP Address  ?

Ports  ?

**Protocol**
[Advanced +]

Layer 7 Protocol  ?

Cancel
Update

2. Enter an appropriate *Label* (name) for the Virtual Service, e.g. **VIP\_Supernode**.
3. Set the *Virtual Service IP Address* field to the required IP address, e.g. **10.11.40.100**.
4. Set *Ports* to **8088**.
5. Set the *Layer 7 Protocol* to **TCP Mode**.



6. Click **Update**.

## 9.1.2. Configure the Associated Real Servers (RIPs)

1. Using the WebUI, navigate to *Cluster Configuration > Layer 7 – Real Servers* and click on **Add a new Real Server** next to the newly created VIP.

Label	<input type="text" value="Node1"/>	?
Real Server IP Address	<input type="text" value="10.11.40.111"/>	?
Real Server Port	<input type="text" value="8088"/>	?
Re-Encrypt to Backend	<input type="checkbox"/>	?
Weight	<input type="text" value="100"/>	?

**Cancel** **Update**

2. Enter an appropriate *Label* (name) for the Real Server, e.g. **Node1**.
3. Set the *Real Server IP Address* field to the required IP address, e.g. **10.11.40.111**.
4. Set the *Real Server Port* field to **8088**.
5. Leave all other settings at their default value.
6. Click **Update**.
7. Repeat these steps to add additional nodes.

## 9.2. VIP 2 - VIP\_DicomSCP

### 9.2.1. Virtual Service (VIP) Configuration

1. Using the WebUI, navigate to *Cluster Configuration > Layer 7 – Virtual Services* and click **Add a new Virtual Service**.

<b>Virtual Service</b>		<b>[Advanced +]</b>
Label	<input type="text" value="VIP_DicomSCP"/>	?
IP Address	<input type="text" value="10.11.40.110"/>	?
Ports	<input type="text" value="104"/>	?
<b>Protocol</b>		<b>[Advanced +]</b>
Layer 7 Protocol	<input type="text" value="TCP Mode"/>	?

**Cancel** **Update**

2. Enter an appropriate *Label* (name) for the Virtual Service, e.g. **VIP\_DicomSCP**.

3. Set the *Virtual Service IP Address* field to the required IP address, e.g. **10.11.40.110**.
4. Set *Ports* to **104**.
5. Set the *Layer 7 Protocol* to **TCP Mode**.
6. Click **Update**.

### 9.2.2. Configure the Associated Real Servers (RIPs)

1. Using the WebUI, navigate to *Cluster Configuration > Layer 7 – Real Servers* and click on **Add a new Real Server** next to the newly created VIP.

Label	<input type="text" value="Node1"/>	?
Real Server IP Address	<input type="text" value="10.11.40.111"/>	?
Real Server Port	<input type="text" value="104"/>	?
Re-Encrypt to Backend	<input type="checkbox"/>	?
Weight	<input type="text" value="100"/>	?

2. Enter an appropriate *Label* (name) for the Real Server, e.g. **Node1**.
3. Set the *Real Server IP Address* field to the required IP address, e.g. **10.11.40.111**.
4. Set the *Real Server Port* field to **104**.
5. Leave all other settings at their default value.
6. Click **Update**.
7. Repeat these steps to add additional nodes.

### 9.3. Finalizing the Configuration

To apply the new settings, HAProxy must be reloaded. This can be done using the button in the "Commit changes" box at the top of the screen or by using the Restart Services menu option:

1. Using the WebUI, navigate to: *Maintenance > Restart Services*.
2. Click **Reload HAProxy**.

## 10. Configuring Hologic Unifi Workspace for Load Balancing

In a clustered Unifi Workspace environment, each Unifi Workspace server has a specific role in the cluster. These roles are:



- **Supernode** : The primary node within a clustered environment; responsible for keeping the cluster in sync.
- **Standby Supernode** : Backup for the Supernode. Assumes the role of Supernode if/when Supernode goes down.
- **Regular Node** : All other local nodes in the cluster.
- **Remote Node** : An optional node that is remote to the cluster and does not receive studies automatically. Studies must be manually retrieved from the patient list.

Each node in the cluster must be prepared to operate with the load balance. The required steps depend on the node type and are detailed below.

### Note

The load balancer must be configured and running with an IP address before starting the system configuration. If the load balancer is not running, Unifi Workspace will fail to properly register the nodes with the load balancer.

## Step 1 - Initial System Preparation

1. Log into Windows as **Administrator**.
2. Log out of Unifi Workspace by holding **<CTRL>** and selecting **Log Out**.
3. Verify network connectivity:
4. For a **Supernode**, confirm you can ping the Load Balancer IP address from the Unifi Workspace system you are configuring.
5. For a **Standby Supernode, Regular Node** and **Remote Node**, verify that you can ping the VIP\_Supernode IP address on the load balancer from the Unifi Workspace system you are setting up.
6. Configure the following system settings:
  - Hostname
  - Network settings
  - Date and time

### Important

Each node in the Unifi Workspace cluster must have a unique hostname.

## Step 2 - Generate a Security Certificate for the Load Balancer

This certificate secures HTTPS communication between the Supernode and the Load Balancer.

1. Open a Command Prompt as **Administrator**.
2. Navigate to the services directory:
  - For a **Supernode, Standby Supernode** and **Remote Node**:

```
cd E:\Unifi Workspace\services
```



- For a **Regular Node**:

```
cd E:\Program Files\Hologic\Unifi Workspace\services
```



**Tip**

Use the Tab key to auto-complete folder names.

Generate the certificate using:

```
ct https -https -supernodevip=<supernodevip>
```

For example, to generate a certificate for Supernode VIP 192.168.5.100:

```
ct https -https -supernodevip=192.168.5.100
```

### Step 3 - Configure the Supernode in the Web Portal

1. Open a browser.
2. Navigate to: `https://<IP_Address>:8088/admin`
3. Log in as the **Administrator** user.
4. Navigate to: *Configurations* → *Local* → *Cluster Section*.
5. Update the following:
  - **Node Name** – Identify the system at the site
  - **Node Type** – Select the correct node type
  - **Data Store Directory** – Verify (default: F:\Data)
6. Enable **Use Load Balancer**.
7. Enter the following:
  - **Load Balancer IP Address**
  - **Supernode Virtual IP Address**
  - **Cluster SCP Virtual IP Address**
  - **Cluster AE Title**

### Step 4 - Configure System Identification

1. Select the Identification section and enter:
  - **System Serial Number** (Found on the system label – e.g., UWS1120100)
  - **Station Name** (Example: Station-Room1)
  - **Institution Name and Address**
2. Click Save.



3. Attach the Workspace Cluster Node Type label next to the serial number label on the system.

### Step 5 - Verify Supernode Registration on the Load Balancer

1. Open a new browser tab or window.
2. Navigate to: [https://<Load\\_Balancer\\_IP>:9443/](https://<Load_Balancer_IP>:9443/)
3. Log in using user: **holx**
4. On the System Overview page, verify that both VIPs are listed:
  - **VIP\_Supernode**
  - **VIP\_DicomSCP**

### Step 5 - Final Verification

If both VIPs appear correctly and the Supernode is properly configured, the cluster synchronisation setup should be complete.

## 11. Testing & Verification

### Note

For additional guidance on diagnosing and resolving any issues you may have, please also refer to [Diagnostics & Troubleshooting](#).

### 11.1. Using System Overview

The System Overview can be viewed in the WebUI. It shows a graphical view of all Virtual Services & the associated Real Servers (i.e. the Hologic Unifi servers) and shows the state/health of each server as well as the overall state of each cluster. The example below shows that all servers are healthy (green) and available to accept connections:

#### System Overview ?

2026-05-19 10:19:41 UTC

	VIRTUAL SERVICE	IP	PORTS	CONNS	PROTOCOL	METHOD	MODE	
	VIP_Supernode	10.11.40.100	8088	0	TCP	Layer 7	Proxy	
	REAL SERVER	IP	PORTS	WEIGHT	CONNS			
	Node1	10.11.40.111	104	100	0	Drain	Halt	
	Node2	10.11.40.112	104	100	0	Drain	Halt	
	VIP_DicomSCP	10.11.40.110	104	0	TCP	Layer 7	Proxy	

### 11.2. Accessing Hologic Unifi Workspace via the Load Balancer

Verify that you're able to successfully access Hologic Unifi Workspace via the Virtual Services on the load balancer.



 **Note**

Make sure that DNS is updated so that any FQDNs used point to the VIPs rather than individual servers.

## 12. Technical Support

For more details about configuring the appliance and assistance with designing your deployment please don't hesitate to contact the support team using the following email address: [support@loadbalancer.org](mailto:support@loadbalancer.org).

## 13. Further Documentation

For additional information, please refer to the [Administration Manual](#).



# 14. Appendix

## 14.1. Configuring HA - Adding a Secondary Appliance

Our recommended configuration is to use a clustered HA pair of load balancers to provide a highly available and resilient load balancing solution. We recommend that the Primary appliance is fully configured first, then the Secondary appliance can be added to create an HA pair. Once the HA pair is configured, load balanced services must be configured and modified on the Primary appliance. The Secondary appliance will be automatically kept in sync.

 **Note**

For Enterprise Azure, the HA pair should be configured first. For more information, please refer to the Azure Quick Start/Configuration Guide available in the [documentation library](#)

The clustered HA pair uses Heartbeat to determine the state of the other appliance. Should the active device (normally the Primary) suffer a failure, the passive device (normally the Secondary) will take over.

### 14.1.1. Non-Replicated Settings

A number of settings are not replicated as part of the Primary/Secondary pairing process and therefore must be manually configured on the Secondary appliance. These are listed by WebUI menu option in the table below:

WebUI Main Menu Option	Sub Menu Option	Description
Local Configuration	Hostname & DNS	Hostname and DNS settings
Local Configuration	Network Interface Configuration	Interface IP addresses, bonding configuration and VLANs
Local Configuration	Routing	Default gateways and static routes
Local Configuration	System Date & time	Time and date related settings
Local Configuration	Physical – Advanced Configuration	Various appliance settings
Local Configuration	Portal Management	Portal management settings
Local Configuration	Security	Security settings
Local Configuration	SNMP Configuration	SNMP settings
Local Configuration	Graphing	Graphing settings
Local Configuration	License Key	Appliance licensing
Maintenance	Backup & Restore	Local XML backups
Maintenance	Software Updates	Appliance software updates
Maintenance	Firewall Script	Firewall (iptables) configuration
Maintenance	Firewall Lockdown Wizard	Appliance management lockdown settings



**(!) Important**

Make sure that where any of the above have been configured on the Primary appliance, they're also configured on the Secondary.

### 14.1.2. Configuring the HA Clustered Pair

**(!) Important**

During HA pairing, all WebUI users and passwords are synchronized from the Primary to the Secondary. After clustering completes (you will be logged out of the Secondary when this occurs), the Primary's credentials should be used to login to both nodes.

**Note**

If you have already run the firewall lockdown wizard on either appliance, you'll need to ensure that it is temporarily disabled on both appliances whilst performing the pairing process.

1. Deploy a second appliance that will be the Secondary and configure initial network settings.
2. Using the WebUI on the Primary appliance, navigate to: *Cluster Configuration > High-Availability Configuration*.

#### Create a Clustered Pair

LOADBALANCER

Local IP address  
10.11.40.55

IP address of new peer  
10.11.40.56

Password for loadbalancer user on peer  
.....

Add new node

3. Specify the IP address and the *loadbalancer* user's password for the Secondary (peer) appliance as shown in the example above.
4. Click **Add new node**.
5. The pairing process now commences as shown below:

## Create a Clustered Pair

LOADBALANCER Primary IP: 10.11.40.55

Attempting to pair..

LOADBALANCER Secondary IP: 10.11.40.56

Local IP address: 10.11.40.55

IP address of new peer: 10.11.40.56

Password for loadbalancer user on peer: .....

configuring

6. Once complete, the following will be displayed on the Primary appliance:

## High Availability Configuration - primary

LOADBALANCER Primary IP: 10.11.40.55

LOADBALANCER Secondary IP: 10.11.40.56

Break Clustered Pair

7. To finalize the configuration, restart heartbeat and any other services as prompted in the "Commit changes" message box at the top of the screen.

### Note

Clicking the **Restart Heartbeat** button on the Primary appliance will also automatically restart heartbeat on the Secondary appliance.

### Note

For more details on configuring HA with 2 appliances, please refer to [Configuring High Availability](#).

### Note

For details on testing and verifying HA, please refer to [Clustered Pair Diagnostics](#).

## 15. Document Revision History

Version	Date	Change	Reason for Change	Changed By
1.0.0	19 May 2026	Initial version		RJC





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## About Loadbalancer.org

Loadbalancer.org's mission is to ensure that its clients' businesses are never interrupted. The load balancer experts ask the right questions to get to the heart of what matters, bringing a depth of understanding to each deployment. Experience enables Loadbalancer.org engineers to design less complex, unbreakable solutions - and to provide exceptional personalized support.

