

# Local asset installations

Helm CONNECT gives your users the freedom to continue working while disconnected from shore-side internet. For assets that move out of range for hours or days at a time, you can install Helm CONNECT as a desktop application that synchronizes with our shore-side server. Your crews can use Helm CONNECT onboard on a single computer or over multiple devices connected by a network.

## Install locally

The local installation on your asset is a simplified version of the regular Helm CONNECT server, which can be installed on almost any standard Windows computer, including most laptops and Windows tablets.

A lightweight Windows Service controls the web server, database, and background tasks. Our installer creates the Windows Service and puts a Helm CONNECT icon on your desktop. Clicking this icon takes you to the URL of the local web server.

The local server runs continuously, handling all data transfer and synchronization with the shore-side server when an internet connection is available. Having a local server means you can set up your onboard environment to best meet your crew's needs. You can use Helm CONNECT:

- On a single computer
- On multiple computers connected over a wired network
- On multiple computers or devices connected over a WIFI network

## Stay connected onboard

With multiple computers on a local network, your crew can continue working together even when the asset is disconnected from shore.

For example, drills can be recorded and sent to the captain for approval, and tasks can be created, assigned to different departments and completed onboard.

When the connection to shore is re-established, all activities from the asset are seamlessly transferred to the shore-side server.

## Concurrent users

When setting up a local asset installation, you need to consider the number of concurrent users you expect to have.

**Concurrent users** refer to the total number of people using a local asset installation of Helm CONNECT at the same time from all connected devices.

## Hardware and software

We require and recommend the following hardware and software configurations for your local asset installations. The minimum and recommended specifications are higher for installations with more than three concurrent users to account for the additional data and processor load.

### MINIMUM

#### *Three or less concurrent users*

##### **Hardware**

- 50 GB of free hard drive space
- 4 GB of RAM
- i5 (2 cores @ 2.4 GHz) processor

##### **Software**

###### Operating System

- Windows 7
- Windows 8.1
- Windows 10

###### Browser

- Chrome - current version
- Internet Explorer 11

#### *More than three concurrent users*

##### **Hardware**

- 50 GB of free hard drive space
- 8 GB of RAM
- i5 (2 cores @ 2.4 GHz) processor

##### **Software**

###### Operating System

- Windows 7
- Windows 8.1
- Windows 10

###### Browser

- Chrome - current version
- Internet Explorer 11

### RECOMMENDED

#### *Three or less concurrent users*

##### **Hardware**

- 100 GB of free hard drive space - SSD
- 8 GB of RAM
- i7 (4 cores @ 3.2 GHz) processor or better

##### **Software**

###### Operating System

- Windows 10

###### Browser

- Chrome - current version

#### *More than three concurrent users*

##### **Hardware**

- 100 GB of free hard drive space - SSD
- 16 GB of RAM
- i7 (4 cores @ 3.2 GHz) processor or better

##### **Software**

###### Operating System

- Windows 10

###### Browser:

- Chrome - current version

As your organization grows on Helm CONNECT with more products and/or transactions, you may need to augment your server hardware on asset installations to handle increasing load.

# On-premise deployments

Helm CONNECT is typically deployed in our Amazon Web Service (AWS) environment. Some customers want to host Helm CONNECT on their own IT infrastructure. We recommend the following server configurations for a typical company with an on-premise deployment (75 to 100 assets using 1 or 2 product lines).

## Database server

### Hardware

- 16 GB RAM\*
- 8 vCPUs Xeon E52640+\*
- 200 GB disk space\*

### Software

- SQL Server 2012 or newer

## Load balancer

- Used for SSL termination

## Document store

- Network share or local directory
- Document store with the ability to expand over time

## Web server

### Hardware

- 16GB RAM\*
- 8 vCPUs Xeon E52640+\*
- 200 GB disk space\*
- 10 Gigabit network connectivity

### Software

- Windows Server 2012R2 or newer
- 7zip

## Connection speed

- Latency between web server and database server in the single millisecond range

\*As your organization grows on Helm CONNECT, you may need to augment your server hardware to handle increasing load:

- RAM: +8GB for each additional product line or 100 additional assets
- CPU count: +4 CPU for each additional product line or 100 additional assets
- Disk space: +50GB for each additional product line or 100 additional assets