

Hitachi Content Intelligence

Getting Started Guide

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About the HCI Getting Started Guide

About this document

This Getting Started Guide is intended to provide guidance for installing a single-instance HCM deployment with a basic configuration. For more complex deployments and additional information, see *Installing HCI* bundled with your product.

Accessing product documentation

Product user documentation is available on Hitachi Vantara Support Connect: <https://knowledge.hitachivantara.com/Documents>. Check this site for the most current documentation, including important updates that may have been made after the release of the product.

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Chapter 1: Planning and preparation

This section of the HCI Getting Started guide helps you prepare for installation of HCI.

Items you need

To install a system, you need the `HCI-<version-number>.tgz` file.

This archive file includes the software installation files needed to install your HCI instance.

Chapter 2: Environment setup

This section of the HCI Getting Started guide helps you prepare your environment for the HCI product.

Install Docker on the server or virtual machine

Procedure

1. In a terminal window, check whether Docker 1.13.1 or later is installed:
`docker -version`
2. If Docker is not installed or if you have a version prior to 1.13.1, install the current Docker version suggested by your operating system.

The installation method you use depends on your operating system. See the [Docker website](#) for instructions.

Configure Docker on the server or virtual machine

Before installing HCI, configure Docker with settings suitable for your environment. For guidance on configuring and running Docker, see the applicable Docker documentation.

Procedure

1. Ensure that the Docker installation directory on the instance has at least 20 GB available for storing the HCI Docker images.
2. Ensure that the Docker storage driver is configured correctly on the instance.
After installation, changing the Docker storage driver requires reinstallation of HCI.
To view the current Docker storage driver on an instance, run: `docker info`.
3. If you want to enable SELinux on the system instances, use a Docker storage driver that supports it.
The storage drivers that SELinux supports differ depending on the Linux distribution you're using. For more information, see the Docker documentation.
4. If you are using the Docker `devicemapper` storage driver, ensure that there's at least 40 GB of Docker metadata storage space available on the instance. HCI requires 20 GB to install successfully and an additional 20 GB to successfully update to a later version.
To view Docker metadata storage usage on an instance, run: `docker info`



Note: On a production system, do not run `devicemapper` in `loop-lvm` mode. This can cause slow performance or, on certain Linux distributions, HCI may not have enough space to run.

Configure the mmap count

To configure the mmap count, add the following line to the `/etc/sysctl.conf` file:

```
vm.max_map_count = 262144
```

If the line already exists, ensure that the value is greater than or equal to 262144.

Configure the firewall rules on the server or virtual machine

Procedure

1. Edit the firewall rules to allow communication over all network ports that you want your system to use. You do this using a firewall management tool such as `firewalld`.
2. Restart the server or virtual machine.

Run Docker on the server or virtual machine

To unpack your installation package, Docker needs to be both started and kept running. You can use whatever tools you typically use for keeping services running in your environment.

For example, to run Docker using `systemd`:

Procedure

1. Verify that Docker is running:

```
systemctl status docker
```
2. If Docker is not running, start the `docker` service:

```
sudo systemctl start docker
```
3. (Optional) Configure the Docker service to start automatically when you restart the server or virtual machine:

```
sudo systemctl enable docker
```

Chapter 3: Software installation

This section of the HCI Getting Started guide helps you with the software installation of the HCI product.

Unpack the installation package

1. Download the installation package `HCI-<version_number>.tgz` and store it in a directory on the server or virtual machine.
2. In the largest disk partition on the server or virtual machine, create a directory named `/hci`:

```
mkdir /<path>/hci
```

3. Move the installation package to the directory `/hci`:

```
mv /<path>/HCI-<version_number>.tgz /<path>/hci
```

4. Navigate to the installation directory:

```
cd /<path>/hci
```

5. Unpack the installation package:

```
tar -xzf HCI-<version_number>.tgz
```

This creates a number of directories and folders within the installation directory.

6. Run the installation script `install`, located within the directory matching the version number of the installation package:

```
sudo ./cluster/<version_number>/bin/install
```



Note:

- Don't change directories after running the installation script. The following steps are performed in your current directory, not under the version-specific directory.
- The installation script can be run only once on an instance. You cannot rerun this script to try to repair or upgrade a system instance.

Start the application on your server or virtual machine

Procedure

1. Start the application script `run` using whatever methods you usually use to run scripts.



Important: Ensure that the method you use can keep the `run` script running and can automatically restart it in case of a server reboot or other availability event.

Here are some examples of how you can start the script:

- You can run the script in the foreground:

```
sudo /<path>/hci/bin/run
```

When you run the `run` script this way, the script does not automatically complete, but instead remains running in the foreground.

- You can run the script as a service using `systemd`:

- a. Copy the `hci.service` file to the appropriate location for your OS. For example:

```
cp /<path>/hci/bin/hci.service /etc/systemd/system
```

- b. Enable and start the `hci.service` service:

```
sudo systemctl enable hci.service
sudo systemctl start hci.service
```



Note: When you enable the search service, `systemctl` may display this message:

The unit files have no [Install] section. They are not meant to be enabled using `systemctl`. Possible reasons for having this kind of units are:

- 1) A unit may be statically enabled by being symlinked from another unit's `.wants/` or `.requires/` directory.
- 2) A unit's purpose may be to act as a helper for some other unit which has a requirement dependency on it.
- 3) A unit may be started when needed via activation (socket, path, timer, D-Bus, udev, scripted `systemctl` call, ...).

Depending on your OS, the search service may or may not have successfully been enabled.

To avoid this, make sure that you moved the `HCI.service` to the appropriate location, typically `/etc/systemd/system`.

Chapter 4: HCI deployment

This section of the HCI Getting Started guide helps you with the service deployment wizard of the HCI product.

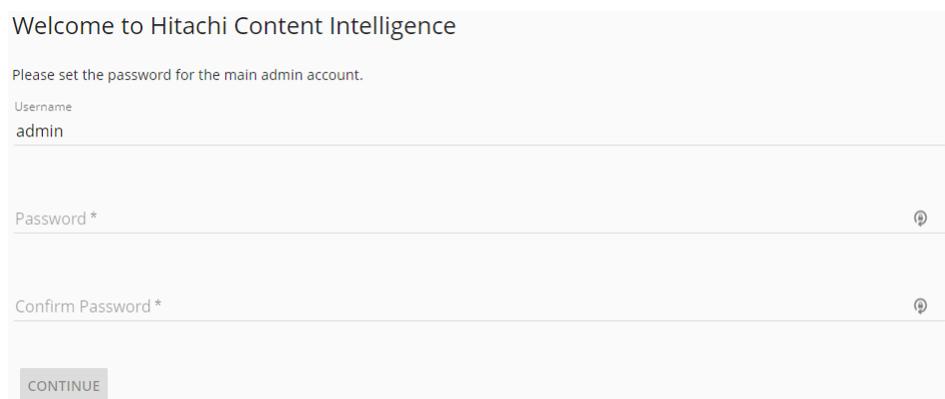
Access deployment wizard

After creating your instance, you need to go to the service deployment wizard in the Admin App.

To access the service deployment wizard:

Procedure

1. Open a web browser and go to: `https://instance_ip_address:8000`
2. On the **Welcome** page, set a password for the admin user account. Then click **CONTINUE**.



Welcome to Hitachi Content Intelligence

Please set the password for the main admin account.

Username
admin

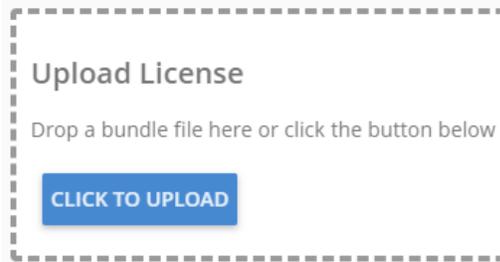
Password *

Confirm Password *

CONTINUE

3. On the **Licensing** page:

- If you have your purchased license file, drag and drop it into the **Upload License** section. Alternatively, you can use the **CLICK TO UPLOAD** button to browse for your license file.



- If you've purchased a license but have not yet received it, make note of the value in the System ID section on the **Licensing** page and contact your sales representative.
- To use the system for a limited amount of time with the pre-installed trial license, click **Next**.

If for some reason the trial license failed to install, there is a copy included in the HCI-
<version-number>.tgz installation package that you can upload to the **Licensing** page.
The trial license is located in the installation package at:

/product/<version>/trial-<version>.plk

4. On the **Set Cluster Hostname/IP** page, specify the hostname for your system. Omitting this can cause links in the Admin App to function incorrectly. Then click **CONTINUE**.

Set the hostname or IP Address

The address entered below will be used to access Hitachi Content Intelligence and all associated apps.

Cluster Hostname/IP Address

cluster119bi.lab.archivas.com

Cluster Hostname or Primary IP Address used to access the apps in this system.

CONTINUE

BACK

5. On the **Choose Deployment** page, select the HCI deployment type that you purchased, either Hitachi Content Search or Hitachi Content Monitor. Then click **CONTINUE**. The **Confirm Cluster Topology** page displays and shows the detected instance.



Note: If the instance is not displayed, click the **Click here** link in the **Instance Discovery** panel until they appear.

Deploy the system

When all your instances have been discovered and configured, click **Deploy Single Instance** or **Deploy Cluster**. The system deployment starts. You can click the **View Deployment Details** link to view the process of the deployment.

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