



# Using the InterSystems Container Registry

Version 2020.2  
2020-09-17

*Using the InterSystems Container Registry*

InterSystems IRIS Data Platform Version 2020.2 2020-09-17

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# Using the InterSystems Container Registry

Many InterSystems products, including InterSystems IRIS<sup>®</sup>, can be deployed in containers. This document describes the container images provided by InterSystems, and explains how to obtain them from the InterSystems Container Registry (ICR).

## 1 Container Images Available from InterSystems

The following sections list the public and limited access images available from the ICR. The full identifier, including registry, repository, name, and tag is provided for each image so you can copy it and paste it into your command or file.

### 1.1 Public Images

The following ICR images can be pulled without authentication.

#### 1.1.1 InterSystems IRIS Community Edition

2020.2	containers.intersystems.com/intersystems/iris-community:2020.2.0.211.0
2020.2, ARM64	containers.intersystems.com/intersystems/iris-community-arm64:2020.2.0.211.0
2020.3 (preview)	containers.intersystems.com/intersystems/iris-community:2020.3.0.200.0
2020.3, ARM64 (preview)	containers.intersystems.com/intersystems/iris-community-arm64:2020.3.0.200.0
IntegratedML (preview)	containers.intersystems.com/intersystems/iris-aa-community:2020.3.0AA.331.0

Documentation: [Deploy InterSystems IRIS Community Edition on Your Own System](#) in *Deploy and Explore InterSystems IRIS*

#### 1.1.2 InterSystems IRIS for Health Community Edition

2020.2	containers.intersystems.com/intersystems/irishealth-community:2020.2.0.211.0
2020.2, ARM64	containers.intersystems.com/intersystems/irishealth-community-arm64:2020.2.0.211.0
2020.3 (preview)	containers.intersystems.com/intersystems/irishealth-community:2020.3.0.200.0
2020.3, ARM64 (preview)	containers.intersystems.com/intersystems/irishealth-community-arm64:2020.3.0.200.0
IntegratedML (preview)	containers.intersystems.com/intersystems/irishealth-aa-community:2020.3.0AA.331.0

Documentation: [Deploy InterSystems IRIS Community Edition on Your Own System](#) in *Deploy and Explore InterSystems IRIS*

### 1.1.3 System Alerting and Monitoring

1.0	containers.intersystems.com/intersystems/sam:1.0.0.115
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Documentation: [System Alerting and Monitoring Guide](#)

## 1.2 Limited Access Images

Access to the following ICR images requires [authentication](#):

### 1.2.1 InterSystems IRIS

2020.1	containers.intersystems.com/intersystems/iris:2020.1.0.215.0
2020.1, ARM64	containers.intersystems.com/intersystems/iris-arm64:2020.1.0.215.0
2020.2	containers.intersystems.com/intersystems/iris:2020.2.0.211.0
2020.2, ARM64	containers.intersystems.com/intersystems/iris-arm64:2020.2.0.211.0
2020.3 (preview)	containers.intersystems.com/intersystems/iris:2020.3.0.200.0
2020.3, ARM64 (preview)	containers.intersystems.com/intersystems/iris-arm64:2020.3.0.200.0

Documentation: [Running InterSystems IRIS Containers](#) in *Running InterSystems Products in Containers*

### 1.2.2 InterSystems IRIS for Health

2020.1	containers.intersystems.com/intersystems/irishealth:2020.1.0.217.0
2020.1, ARM64	containers.intersystems.com/intersystems/irishealth-arm64:2020.1.0.217.0
2020.2	containers.intersystems.com/intersystems/irishealth:2020.2.0.211.0
2020.2, ARM64	containers.intersystems.com/intersystems/irishealth-arm64:2020.2.0.211.0
2020.3 (preview)	containers.intersystems.com/intersystems/irishealth:2020.3.0.200.0
2020.3, ARM64 (preview)	containers.intersystems.com/intersystems/irishealth-arm64:2020.3.0.200.0

Documentation: [Running InterSystems IRIS Containers](#) in *Running InterSystems Products in Containers*

### 1.2.3 Health Connect

2020.1	containers.intersystems.com/intersystems/healthconnect:2020.1.0.215.0
2020.3, ARM64 (preview)	containers.intersystems.com/intersystems/healthconnect-arm64:2020.3.0.200.0

Documentation: [Running InterSystems IRIS Containers](#) in *Running InterSystems Products in Containers*

## 1.2.4 InterSystems Cloud Manager (ICM)

2020.1	containers.intersystems.com/intersystems/icm:2020.1.0.215.0
2020.2	containers.intersystems.com/intersystems/icm:2020.2.0.211.0
2020.2, ARM64	containers.intersystems.com/intersystems/icm-arm64:2020.2.0.211.0
2020.3 (preview)	containers.intersystems.com/intersystems/icm:2020.3.0.200.0

Documentation: [Launch ICM](#) in the *InterSystems Cloud Manager Guide*

## 1.2.5 Arbiter

2020.1	containers.intersystems.com/intersystems/arbiter:2020.1.0.215.0
2020.2	containers.intersystems.com/intersystems/arbiter:2020.2.0.211.0
2020.3 (preview)	containers.intersystems.com/intersystems/arbiter:2020.3.0.200.0
2020.3, ARM64 (preview)	containers.intersystems.com/intersystems/arbiter-arm64:2020.3.0.200.0

Documentation: [Mirroring with InterSystems IRIS Containers](#) in *Running InterSystems Products in Containers*.

## 1.2.6 Web Gateway

2020.1	containers.intersystems.com/intersystems/webgateway:2020.1.0.215.0
2020.2	containers.intersystems.com/intersystems/webgateway:2020.2.0.211.0
2020.3 (preview)	containers.intersystems.com/intersystems/webgateway:2020.3.0.200.0
2020.3, ARM64 (preview)	containers.intersystems.com/intersystems/webgateway-arm64:2020.3.0.200.0

Documentation: [Using the InterSystems Web Gateway Container](#) in *Running InterSystems Products in Containers*

## 1.2.7 PasswordHash

1.0	containers.intersystems.com/intersystems/passwordhash:1.0
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Documentation: [Authentication and Passwords](#) in *Running InterSystems Products in Containers*

# 2 Authenticating to the ICR

To log into the ICR, take the following steps:

1. Load <https://containers.intersystems.com/> in your browser and log in with your InterSystems/WRC credentials. The Credentials for [User] page displays with your Docker login credentials for the ICR.
2. In your Docker interface (for example, your PowerShell window or Linux command line), authenticate to the ICR using the provided credentials. You can do this by copying and pasting the full *docker login* command displayed on the Credentials page, for example:

```
docker login -u="bbinstoc" -p="<provided-password>" containers.intersystems.com
```

For security reasons, however, you may want to instead enter the command `docker login containers.intersystems.com`, then enter your username at the *Username* prompt and paste your password into the *Password:* prompt.

**Note:** If you are logged into another Docker registry, the **docker login** command may result in an error; log out of the other registry before logging into `containers.intersystems.com`.

3. You can now pull images from the ICR, for example:

```
docker pull containers.intersystems.com/intersystems/iris:2020.2.0.211.0
```

## 3 Listing the ICR Inventory

Various APIs are available to list images and tags in a Docker registry. An example of an open source third-party utility that can be used to list a registry's inventory is **docker-ls**, available at <https://github.com/mayflower/docker-ls>.

There are several ways to obtain this utility. You can:

- Download [precompiled docker-ls binaries](#) for a variety of platforms.
- Install the utility directly on some platforms, for example on Linux systems with the command

```
sudo snap install docker-ls
```

- Pull and run the image **carinadigital/docker-ls:latest** on Linux platforms to install the utility, for example:

```
docker run --rm carinadigital/docker-ls:latest
```

Once **docker-ls** is installed, you can use the following command to list the repositories in the ICR:

```
docker-ls repositories --registry https://containers.intersystems.com --user <username> --password <password>
```

**Note:** To avoid exposing your password on the command line, you can use the **--interactive-password** option to be prompted for it password instead.

If you want to list limited access images, you must include your credentials in the **docker-ls repositories** command regardless of whether you are logged into `containers.intersystems.com`, for example

```
$ docker-ls repositories --registry https://containers.intersystems.com -u "bbinstoc"
--interactive-password
Password:
requesting list . done
repositories:
- intersystems/arbitrator
- intersystems/arbitrator-arm64
- intersystems/healthconnect
- intersystems/healthconnect-arm64
- intersystems/icm
- intersystems/icm-arm64
- intersystems/iris
- intersystems/iris-aa-community
- intersystems/iris-arm64
- intersystems/iris-community
- intersystems/iris-community-arm64
- intersystems/irishealth
- intersystems/irishealth-aa-community
- intersystems/irishealth-arm64
- intersystems/irishealth-community
- intersystems/irishealth-community-arm64
- intersystems/passwordhash
- intersystems/sam
- intersystems/webgateway
- intersystems/webgateway-arm64
```



To list the tags of all the images in a specific repository within the registry, you can use the **docker-ls tags** command. For example, to list the publicly available InterSystems IRIS for Health images without logging into the registry, use the following command:

```
docker-ls tags --registry https://containers.intersystems.com intersystems/irishealth-community
requesting list . done
repository: intersystems/irishealth-community
tags:
- 2020.1.0.217.1
- 2020.2.0.211.0
- 2020.3.0.200.0
```

```
docker-ls tags --registry https://containers.intersystems.com --user "" --password "" intersystems/irishealth-community
```

Further examples are available at <https://github.com/mayflower/docker-ls>.

