



CURL SITE VERSION 1.0.1 BETA

DEPLOYMENT GUIDE



Data Science to Patient Value (D2V)
UNIVERSITY OF COLORADO **ANSCHUTZ MEDICAL CAMPUS**



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**To obtain a license to use the CURL applications from the University of Colorado, please contact the
CU Innovations office at curl.registration@ucdenver.edu**

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Overview

This document describes the steps required to deploy the CURL Site application. Choose from the following options:

- **Option 1:** Docker image from Docker hub
- **Option 2:** Java application from Github

These options are described in detail in the following sections.

Option 1: Docker Based Deployment

Requirements

- Desktop Operating System:
 - MAC OS X Yosemite 10.10.3 or above
 - Windows 10
 - Ubuntu (14.04, 16.04, 16.10, 17.04)
 - CentOS
 - Debian
 - Fedora
- Docker CE (latest stable)
- 64-bit Operating System

NOTE: For previous versions, download Docker Toolbox at <https://www.docker.com/products/docker-toolbox>.

Installing Docker Software

1. Download Docker for your platform at www.docker.com
2. Install Docker by opening the installation file.

Deploying CURL Site Docker Image

To deploy using this option, please email your Docker Hub username to curl.registration@ucdenver.edu

From a terminal window, use the following components to deploy the CURL Site Docker image.

1. Login to Docker Hub using your Docker ID and password:

```
$ docker login
```

Login with your Docker ID to push and pull images from



Docker Hub. If you don't have a Docker ID, go to <https://hub.docker.com> to create one.

Username: ***your docker username***

Password: ***your docker password***

Login Succeeded

2. Download file "docker-compose.yml" from <https://github.com/CUD2V/curl-site-releases/tree/master/docker> to a folder on your computer.
3. Go back to the terminal. Change to the folder where the docker-compose file is located and use the following command to pull and deploy the CURL Site Docker image from Docker Hub:
\$ docker-compose up -d

From a browser window, go to: <http://localhost:8060> to access the CURL Site application.

Stopping Docker CURL Site Container

From a terminal window, use the following commands to stop the CURL Site Docker container:

1. Go back to the terminal. Change to the folder where the docker-compose file is located and use the following command to stop Docker CURL Site container:
\$ docker-compose down --volumes --rmi all

Removing CURL Site Application

From a terminal window, use the following commands to remove the CURL Site Docker container:

1. Determine the container ID of the CURL Site container:
\$ docker ps -a

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
11f46bd042ef	cudd2v/curl-keymaster:0.0.5-SNAPSHOT	"java -jar curl-ke..."	3 days ago	Up 5 seconds	0.0.0.0:8060->8080/tcp	serene_wiles
2. Stop the container using its container ID (NOTE: Your container ID will be different):

\$ docker stop 11f46bd042ef

11f46bd042ef.



3. Remove the container (NOTE: Your container ID will be different):

```
$ docker rm 11f46bd042ef
11f46bd042ef
```
4. Remove the volume:

```
$ docker volume rm curl-site-data
curl-site-data
```
5. Remove the image:

```
$ docker image rm cudd2v/curl-site:0.0.8-SNAPSHOT
```

Running on a Different Network Port

If you are already running an application on network port 8060, you may configure CURL Site to use a different port.

1. Edit the *docker-compose.yml* file and change the left occurrence of 8060 to another number, such as 9090 in the following example:

```
version: "3"
services:

  app:
    image: cudd2v/curl-site:0.0.8-SNAPSHOT
    ports:
      - 9090:8080
    volumes:
      - curl-site:/curl-site

volumes:
  curl-site:
```

2. Use docker-compose to deploy a container that will now use the new network port:

```
$ docker-compose up -d
Creating network "docker_default" with the default driver
Creating docker_app_1 ...
Creating docker_app_1 ... done
```

3. Navigate to *http://localhost:9090* or whatever new port you chose.

Option 2: Java JAR Based Deployment

Requirements



- Desktop Operating System:
 - MAC OS X 10.10 or above
 - Windows 7 or 10
 - Ubuntu 14 or above
 - CentOS
 - Debian
 - Fedora
- Oracle Java JRE 1.8

Installing Oracle Java JRE 1.8

1. From a terminal window, use the following commands to determine if Oracle Java 1.8 is installed (note that update version may be different on your system):

```
$ java -version
java version "1.8.0_121"
Java(TM) SE Runtime Environment (build 1.8.0_121-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.121-b13, mixed
mode)
```

2. If the java command is not found or version 1.8 is not installed, then download it from the Oracle website at:

<http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html>

3. Follow the instructions provided on the Oracle website to install Java JRE 1.8.

Deploying CURL Site Application

MAC OS X or Linux

1. Create a directory where you will install the CURL Site application files, e.g. ~/curl-site.
2. From a browser window, go to <https://github.com/CUD2V/curl-site-releases/tree/master/jar> and download the curl-site.jar, curl-site mv.db, and curl-site.sh files into the curl-site directory.
3. Edit the curl-site.sh file and set the **CURL_SITE_BASE_DIRECTORY** variable to point to the directory you created in step 1.
4. From a terminal window, enable execute permission for the curl-site.sh file:

```
$ chmod u+x ~/curl-site/curl-site.sh
```



Windows

1. Create a directory where you will install the CURL Site application files, e.g. `C:\Users\username\curl-site`.
2. From a browser window, go to <https://github.com/CUD2V/curl-site-releases/tree/master/jar> and download the `curl-site.jar`, `curl-site.mv.db`, and `curl-site.bat` files into the `curl-site` directory.
3. Edit the `curl-site.bat` file and set the `CURL_SITE_BASE_DIRECTORY` variable to point to the `curl-site` directory.

Starting CURL Site Application

MAC OS X or Linux

- Execute the `curl-site.sh` script.

Windows

- Execute the `curl-site.bat` file.

Stopping CURL Site Application

- Type CTRL-C in the terminal window where the CURL Site application is running.

Removing CURL Site Application

- Delete the `curl-site` directory and its contents.

Running on a Different Network Port

If you are already running an application on network port 8080, you may configure CURL Site to use a different port.

1. Change the directory to where you copied the CURL Site files.
2. Edit `curl-site.sh` (Linux) or `curl-site.bat` (Windows) and change the `server.port` value to another number, such as 9090 in this example:

```
java -jar $CURL_SITE_BASE_DIRECTORY/curl-site.jar --  
server.port=9090
```

3. Execute the `curl-site.sh` (Linux) or `curl-site.bat` (Windows) to start the CURL Site application and then navigate to `http://localhost:9090` or whatever new port you chose.