DDF Quick Start

Version 2.9.2. Copyright (c) Codice Foundation

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1. License

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2. Overview

This quick tutorial will enable install, configuring and using a basic instance of DDF.

These steps will demonstrate:

- Prerequisites

- Installation

- Ingesting into the DDF Catalog

2.1. Prerequisites

- Install/Upgrade to Java 8 [J2SE 8 SDK](#)

  - The recommended version is [8u60](#) or later.

- Supported platforms are *NIX - Unix/Linux/OSX, Solaris, and Windows.

- [JDK8](#) must be installed.

- The `JAVA_HOME` environment variable must be set to the location where the JDK is installed.

*Setting `JAVA_HOME` on *NIX*

```
JAVA_HOME=/usr/java/jdk1.8.0_<BUILDNUMBER>
export JAVA_HOME
```

Setting `JAVA_HOME` on Windows

```
set JAVA_HOME=C:\Program Files\Java\jdk1.8.0
```

WARNING	*NIX* Unlink `/usr/bin/java` if it is already linked to a previous version of the JRE: `unlink /usr/bin/java`

> **TIP**
>
> Verify that the `JAVA_HOME` was set correctly.
>
> **NIX*
>
> ```
> echo $JAVA_HOME
> ```
>
> *Windows*
>
> ```
> echo %JAVA_HOME%
> ```

- DDF installation zip file.

- A web browser.

- For Linux systems, increase the file descriptor limit by editing `/etc/sysctl.conf` to include or change the following:

File Descriptor Limit

```
fs.file-max = 6815744
```

> **WARNING**
>
> *Restart*
>
> For the change to take effect, a restart is required.

Restart Command

```
init 6
```

2.2. Installing DDF

1. Install DDF by unzipping the zip file.

2. This will create an installation directory, which is typically created with the name and version of the application. This installation directory will be referred to as `<DISTRIBUTION_INSTALL_DIR>`. (Substitute the actual directory name.)

3. Start DDF by running the `<DISTRIBUTION_INSTALL_DIR>/bin/ddf` script (or `ddf.bat` on Windows).

4. The Command Console will display.

Command Console Prompt

```
ddf@local>
```

2.3. Configuring

a. Go to https://localhost:8993/admin.

b. Enter the default username of `admin` and the password of `admin`.

c. Follow the prompts installer prompts for a standard installation.

    i. Click start to begin the setup process.

    ii. Configure guest claims attributes or use defaults.

    iii. Select Standard Installation.

    iv. On the System Configuration page, configure any port or protocal changes desired and add any keystores/truststores needed.

    v. Click **Next**

    vi. Click **Finish**

2.4. Catalog Capabilities

1. Download a sample valid GeoJson file here.

2. Navigate in the browser to the Search UI at https://localhost:8993/search.

3. Click the **upload** icon in the upper right corner.

4. Select the file to upload.

2.5. Using the Catalog Content Directory Monitor

Using the Catalog framework's directory monitor, ingest a file so that it is stored in the content repository with a metacard created and inserted into the Catalog.

1. In the {admin-console}, select the **DDF Catalog** application.

2. Select **Configuration** tab.

3. Select the **Content Directory Monitor**.

4. Set the directory path to `inbox`.

5. Set **Processing Directive** to `Store and Process` (default).

6. Click the **Save** button.

7. Copy the attached geojson file to the `<DISTRIBUTION_INSTALL_DIR>/inbox` directory.

The Catalog Framework will:

a. ingest the file,

b. store it in the content repository at
`<DISTRIBUTION_INSTALL_DIR>/data/content/store/<GUID>/geojson_valid.json`,

c. look up the GeoJson Input Transformer based on the mime type of the ingested file,

d. create a metacard based on the metadata parsed from the ingested GeoJson file, and

e. insert the metacard into the Catalog using the `CatalogFramework`.

NOTE   XML metadata for text searching is not automatically generated from GeoJson fields.

Querying from the Search UI (https://localhost:8993/search) will return the record for the file ingested.