

milestone 5 - Installing the Islandora Essential Modules

There are 2 essential modules, and they are part of the Islandora Minimum Viable Functionality.

- Islandora Core Module
- Islandora Basic Collection Solution Pack

Pre-installation software checklist

The Islandora framework relies upon a number of other open source applications. Before beginning the installation of any Islandora modules, ensure:

1. You have [Fedora installed and properly configured](#):

Ensure you can use the admin tools in Fedora to ingest and purge (e.g. <http://localhost:8080/fedora/admin>).

2. You have [Drupal installed and properly configured](#) with:

Clean URLs enabled (admin/config/search/clean-urls) - requires the Apache mod_rewrite module to be enabled.

The Drupal file system set to public (admin/config/media/file-system)

3. You have the [Tuque library properly installed](#):

Solution Pack Dependencies

Any Islandora Module or Solution Pack may come with a specific set of requirements and dependencies outside of the scope of the Islandora Essential Functionality Installation. You will need to install any dependencies specific to a Module or Solution Pack in order for them to function properly.

Installing the Islandora Core Module for Drupal

To install the module, use the standard Drupal module installation structure. Get the module from the [Release Notes and Downloads](#) page.

- Place the unpackaged module in your site's 'modules' folder, with the name stripped out of the version. For single-site installations, this should almost always be in **/var/www/drupal/sites/all/modules**.

Unzip method

```
Save the downloaded islandora-7.x-1.5.zip file into /opt/downloads
# cd /var/www/drupal/sites/all/modules
# unzip /opt/downloads/islandora-7.x-1.5.zip
# mv islandora-7.x-1.5 islandora
# chown -R www-data:www-data islandora
```

- Change the permissions on Drupal sub-directories to match the webserver daemon and restart tomcat:

fix permissions

```
# cd /var/www/drupal/sites/all
# chown -R www-data:www-data *

# $FEDORA_HOME/tomcat/bin/shutdown.sh
# $FEDORA_HOME/tomcat/bin/startup.sh
```

- Enable the uploaded module by navigating to **base-site-url/admin/modules**, scrolling down to the Islandora Core Module (in the 'Islandora' category), checking the box to the left of it, and then scrolling to the bottom of the page and clicking the 'Save configuration' button.

ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
<input checked="" type="checkbox"/>	Islandora	7.x-dev	View and manage Fedora objects Requires: Image (enabled), File (enabled), Field (enabled), Field SQL storage (enabled)	Permissions Configure

Save configuration

Configuration

Once installed, configuration options for the Islandora module can be found on your site at <http://path.to.your.site/admin/islandora/configure>. The configuration panel is depicted in the screenshot below.

General Configuration

Namespaces

Excluded DSID

Fedora base URL *

The URL to use for REST connections
✓ Successfully connected to Fedora Server (Version 3.8.1).

Root Collection PID *

The PID of the Root Collection Object

☒ **Generate/parse datastream HTTP cache headers**
HTTP caching can reduce network traffic, by allowing clients to use cached copies.

☐ **Defer derivative generation during ingest**
Prevent derivatives from running during ingest, useful if derivatives are to be created by an external service.

☐ **Show print option on objects**
Displays an extra print tab, allowing an object to be printed

☐ **UUID PID Generation**
Generate Fedora object PIDs with v4 UUIDs.

[Save configuration](#)

The **Tuque library installation test** from [milestone 4](#) is the green check mark in `/admin/islandora/configure`. It is as simple as that.

Test the Islandora Core Module installation:

- Once Islandora Core is enabled, you should be able to test. Ensure that the 'testing' module is enabled in Drupal (it is not by default), then go to [Configuration > Development > Testing](#) and click the link.
- This will pop up a new window with a list of tests to run. Scroll down to Islandora, then click the checkbox. Scroll down to the bottom and click "Run Tests". This will take about 30 minutes to run, so go grab a coffee.

Installing the Islandora Basic Collection Solution Pack

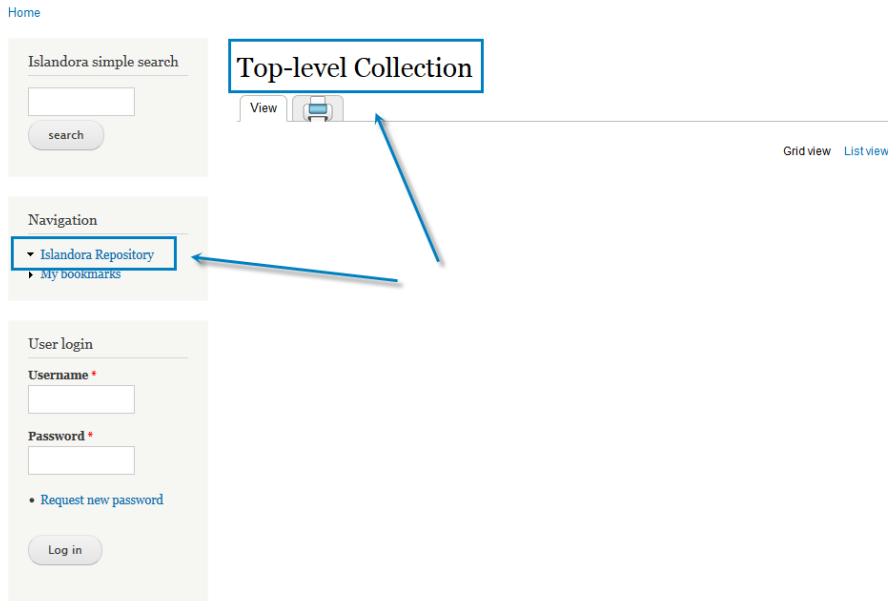
- Download the **Basic Collection Solution Pack** from the [Release Notes and Downloads](#) page. Unzip the contents and rename the directory such that the version number is stripped out, then copy it to `/var/www/drupal/sites/all/modules` and change the owner to `www-data`.

Install Basic Collection Solution Packs

```
# cd /opt/downloads
# unzip islandora_solution_pack_collection-7.x-1.5.zip
...
# mv islandora_solution_pack_collection-7.x-1.5 islandora_solution_pack_collection
# cd /var/www/drupal/sites/all/modules
# cp -R /opt/downloads/islandora_solution_pack_collection .
# chown -R www-data:www-data islandora_solution_pack_collection
```

- Now, go into the Drupal modules menu. At the bottom, turn on Basic Collection Solution pack, and save the configuration. Make sure the package is enabled without error.

- Then go to the main page of the Drupal site. Click the link on the bottom left of the screen that says Islandora Repository. You should see a "Islandora Repository" link on the Navigation Pane and a window titled "Top-level Collection".



Test the Basic Collection Solution Pack installation:

- Once Basic Collection is enabled, you should be able to test. Go to [Configuration > Development > Testing](#) and click the link.
- This will pop up a new window with a list of tests to run. Scroll down to Islandora, then click the checkbox. Scroll down to the bottom and click "Run Tests".

Installing the Starter Kit

- The Starter Kit is a way to add some very basic functionality to your Islandora repository, so that you can ingest some material and test your installation. For that we chose the Islandora Basic Image Solution Pack and the Islandora PDF Solution Pack. They are very easy to install and have very few dependencies.
- Download the [Islandora Basic Image Solution Pack](#) and the [Islandora PDF Solution Pack](#) from the [Release Notes and Downloads](#) page. Unzip the contents and rename them without the version numbers, then copy them to `/var/www/drupal/sites/all/modules` and change the owner to `www-data`

Install the Starter Kit

```
# cd /opt/downloads
# unzip islandora_solution_pack_image-7.x-1.5.zip
...
# unzip islandora_solution_pack_pdf-7.x-1.5.zip
...
# mv islandora_solution_pack_image-7.x-1.5 islandora_solution_pack_image
# mv islandora_solution_pack_pdf-7.x-1.5 islandora_solution_pack_pdf
# cd /var/www/drupal/sites/all/modules
# cp -R /opt/downloads/islandora_solution_pack_image .
# cp -R /opt/downloads/islandora_solution_pack_pdf .
# chown -R www-data:www-data islandora_solution_pack*
```

- Download and install the [ImageMagick Drupal module](#).

Install the ImageMagick Drupal Module

```
# cd /opt/downloads
# unzip imagemagick-7.x-1.0.zip
# mv imagemagick-7.x-1.0 imagemagick
# cd /var/www/drupal/sites/all/modules
# cp -R /opt/downloads/imagemagick .
# chown -R www-data:www-data imagemagick
```

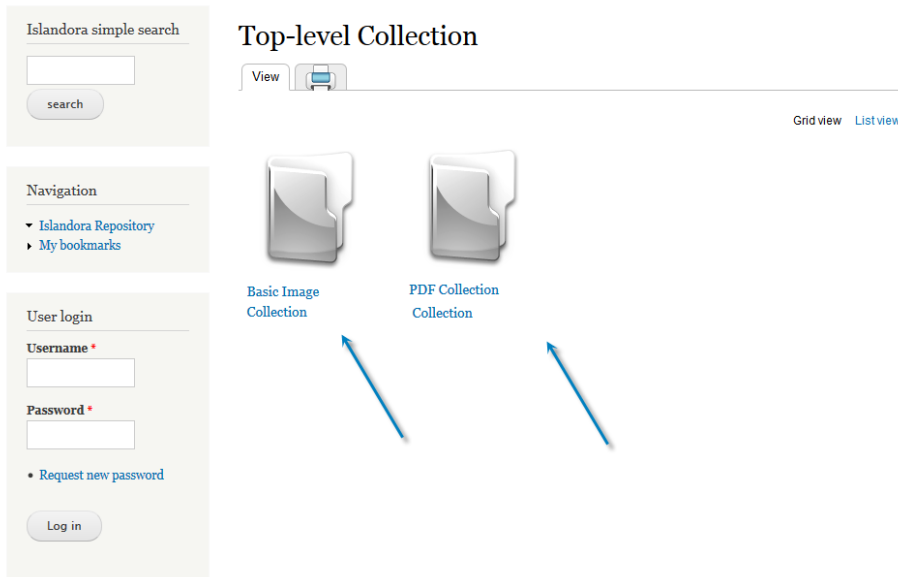
- Install the OS related dependencies for the PDF Solution Pack (imagemagick, pdftotext and ghostscript):

Install dependencies

```
# apt-get install imagemagick
# apt-get install pdftotext poppler-utils
# apt-get install gs
```


- Now, go into the Drupal modules menu. At the bottom, turn on Basic Image and and PDF solution packs, and save the configuration. Make sure the packages are enabled without error.
- Go to the main page of the Drupal site. Click the link on the bottom left of the screen that says Islandora Repository. You should see in the "Top-level Collection" pane the two folders titled "Basic Image Collection" and "PDF Collection Collection"

[Home](#)



Test the Starter Kit installation

- As with the Islandora Core, you should be able to test both the Basic Image and PDF Collection solution packs.

 At the end of this installation, you will be ready to populate your site with some digital assets (images or PDF files) for testing purposes. Your root Islandora repository can be found at **base-site-url/islandora** (Check [How to Add an Item to a Digital Collection](#)). If you can not see the Basic Image Collection or the PDF Collection folders on your Islandora repository then something is wrong with the installation. Please retrace your steps.

Create a milestone 5 snapshot backup:

```
# $FEDORA_HOME/tomcat/bin/shutdown.sh
# /etc/init.d/mysql stop
# /etc/init.d/apache2 stop

# cd /usr/local
# tar -cvzf fedora-milestone5.tar.gz fedora

# cd /var/lib
# tar -cvzf mysql-milestone5.tar.gz mysql

# cd /var/www
# tar -cvzf drupal-milestone5.tar.gz drupal

# /etc/init.d/mysql start
# $FEDORA_HOME/tomcat/bin/startup.sh
# /etc/init.d/apache2 start
```