Large Image Solution Pack

Overview

The Large Image Solution Pack module supports ingesting and viewing TIF/TIFF files, which by nature tend to be extremely large in both filesize and resolution. The module supports creation of derivatives for use when a smaller filesize is necessary, and also supports the installation of image viewers that can accommodate the larger resolution.

Dependencies

- Islandora
- Tuque
- ImageMagick is required to create image derivatives
- Kakadu (bundled with Djatoka)

To successfully create derivative data streams ImageMagick (TN & JPG) and Kakadu (JP2) need to be installed on the server.

Downloads

Release Notes and Downloads

Configuration

The Large Image Solution Pack module's configuration page can be found at http://**path.to.your.site**/admin/islandora/solution_pack_config/large_image, and contains the following settings:

- **Lossless Derivative Creation?**: Enabling this will force the Large Image Solution Pack to use no compression when creating derivatives.
- **Use Kakadu for Image Compression?**: The Kakadu software suite can be installed on your server to take advantage of its much faster kdu_compress program. Check the official website at http://www.kakadusoftware.com/ for download and installation instructions

Configure the image-tool kit to use ImageMagick rather than GD in Administration > Configuration > Media > Image Toolkit (admin/config/media/image-toolkit). If GD is selected, TN and JPG datastreams will not be generated.

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Select configuration options and viewer in Administration > Islandora > Large Image Collection (admin/islandora/solution_pack_config/large_image).

To use Kakadu, make sure that `kdu_compress` and `kdu_expand` are avaliable to the Apache user. Often users will create symbolic links from `/usr/local/bin/kdu_compress` to their installation of Kakadu that comes bundled with Adore-Djatoka. Make sure that the required dynamic libriraries that come with Kakadu are excessible to `kdu_compress` and `kdu_expand`. If they are not present, attempting to run either command from the terminal will inform you it's libraries are missing. You can also use a symbolic link from `/usr/local/lib` to include these libraries, remember to restart the terminal so your changes take affect. Also, make sure the php settings allow for enough memory and upload size: upload_max_filesize, post_max_size and memory_limit.

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Viewers

If no viewers are installed, the Large Image Solution Pack module will use its standard viewer to display images. For better results, the OpenSeadragon library can be installed; check that page for further instructions. If it is installed, it can be selected here.

Content Models, Prescribed Datastreams and Forms

The Large Image Solution Pack comes with the following objects in http://**path.to.your.site**/admin/islandora/solution_pack_config/solution_packs:

- Islandora Large Image Content Model (islandora:sp_large_image_cmodel)
- Islandora Large Image Collection (islandora:sp_large_image_collection)

An image ingested using the Large Image Solution Pack's content model using ImageMagick will have the following datastreams:

RELS-EXT	Default Fedora relationship metadata
MODS	MODS record filled out during ingest
DC	Dublin Core record
OBJ	Original TIFF file uploaded
JP2	JPEG 2000 derivative created by ImageMagick or Kakadu
JPG	Medium-sized JPEG created by ImageMagick and used in the standard image viewer

TN	Thumbnail icon created from the image during the ingest process

The Large Image Solution Pack comes with the Large image MODS form.