System Configuration

sentinel-2

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Data Sources Configuration

Datasource Name	Satellite	Scope	Mode	Download Path	Local Archive Path	Max Connections	Max Retries	Retry Interval [min]	User	Password	Specific Parameters
Scientific Data Hub	*sentinel2*	**Query**	Overwrite	/mnt/archive		2	3	1440	kraftek	******	{parameters":{"dsParameter":[{"type":"java.lang.Double","name":"**cloudcoverpercentage**","value":"**100.0**"}, {"type":"java.lang.String","name":"platformName","value":"Sentinel-2"}, {"type":"java.lang.String","name":"productType","value":"S2MSI1C"}]}}"
Amazon Web Services	*sentinel2*	**Download**	**Symlink**	/mnt/archive	/mnt/eodata/s2l1c	4	3	1440			{parameters":{"dsParameter":[{"type":"java.lang.Double","name":"cloudcoverpercentage","value":"100.0"}, {"type":"java.lang.String","name":"platformName","value":"Sentinel-2"}]}}"
Amazon Web Services	landsat8	Download	Overwrite	/mnt/archive		4	3	1440			{parameters":{"dsParameter":[{"type":"java.lang.Double","name":"cloudcoverpercentage","value":"100.0"}, {"type":"java.lang.String","name":"collection","value":"COLLECTION_1"}, {"type":"java.lang.String","name":"platformName","value":"Landsat-8"}]}}"
USGS	landsat8	Query	Overwrite	/mnt/archive		1	3	1440	kraftek	******	{parameters":{"dsParameter":[{"type":"java.lang.Double","name":"cloud_from","value":"0.0"}, {"type":"java.lang.Double","name":"cloud_to","value":"100.0"}, {"type":"java.lang.String","name":"satellite_name","value":"landsat-8"}]}}"

Actual values for:

- Satellite: sentinel2 = 1, landsat8 = 2 (sentinel1 = 3, not used)
- Scope: query = 1, download = 2, query & download = 3
- Mode: overwrite = 1 (default), resume = 2, copy = 3, symlink = 4 => 3 and 4 are used in case of local products archive, like IPT

Above, for Sentinel-2 products:

- SciHub is used for querying only, with a maximum of 2 connections; cloudcoverpercentage is set to 100.0
- AWS is used only for download, with a maximum of 4 connections; it will download the products returned by SciHub

For a satellite, there should be either 2 data sources as above (one for query, one for download) or a single data source (for both query and download), but not both

Data Sources Configuration

See it via a web browser on the Sen2Agri machine:

- http://localhost:8080/downloader/sources/
  - Lists the configuration of all defined data sources
- http://localhost:8080/downloader/sources/{satId}/
  - Lists the configuration of the given satellite (sentinel2 = 1, landsat8 = 2)
- http://localhost:8080/downloader/sources/{satId}/{name}
  - Lists the configuration of the given source (name can be found in the [datasource] table: Scientific Data Hub, USGS, Amazon Web Services)

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Other Useful REST APIs

- http://localhost:8080/downloader/
  - Lists the downloads in progress (and their progress)
- http://localhost:8080/downloader/{siteId}
  - Lists the downloads in progress for a given site (to obtain the site identifiers, use http://localhost:8080/sites/)
- http://localhost:8080/downloader/{siteId}/count
  - Returns an estimate of the products to be downloaded for a given site
- http://localhost:8080/downloader/stop
  - Stops the downloads in progress and disables the download for all sites
- http://localhost:8080/downloader/stop/{siteId}
  - Stops the downloads in progress for a given site and disables the download for this site
- http://localhost:8080/downloader/stop/{siteId}/{satelliteId}
  - Stops the downloads in progress for a given site and satellite and disables the download for this site and only for the given satellite
- http://localhost:8080/downloader/start
  - Re-enables the download for all sites
- http://localhost:8080/downloader/stop/{siteId}
  - Re-enables the download for a site
- http://localhost:8080/downloader/stop/{siteId}/{satelliteId}
  - Re-enables the download for a site only for the given satellite

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