

Lambda Functions

Use **handler.py** for Python code that defines lambda function. Please match function inside handler.py with source code (directory) name under src/.

Name	Source code name	Input Trigger	Output bucket	Deployed by	Purpose	Performance (second)
cmr2ncml-dev-cmr2ncmllambda	cmr2ncml	API Gateway	ncml	Serverless	Generate NcML based on CMR search result. Write NcML to ncml-lambda bucket to trigger ncml-dev-ncmllambda.	0.3
cog2geos-dev-cog2geoslambda	cog2geos	mop03t-007-cog	n/a	Serverless	Update Mosaic dataset in AWS RDS via GeoServer REST API call	3
mop02j2tif-dev-mop02j2tiflambda	mop02j2tif-mop02j2tif-layer	mop02j-007	mop02j-007-tif	Serverless	Generate GeoTIFF from 1-d Swath using the (unreleased) latest GDAL.	1.1
mop03t2tif-dev-mop03t2tiflambda	mop03t2tif	mop03t-007	mop03t-007-tif	Serverless	Run GEE vsis3 driver to create GeoTIFF file.	1.9
mdcs-dev-mdcslambda	mrf2mdcs	sdt-data	n/a	Serverless	Run MDCS batch file to create mosaic dataset on Windows Server via SSM. It doesn't work because there is no ArcGIS Portal license. Use Powershell service instead.	n/a
mrf2vrt-dev-mrf2vrt	mrf2vrt	ceres-mrf	ceres-vrt	Serverless	Generate 24 VRT files from a single MRF for GeoServer Mosaic.	2.9
ncml2sync-dev-ncml2sync	ncml2sync	ncml	ncml2tif ncml2mrf	Serverless	Make ssh connection to Hyrax server and synchronize local ncml directory with ncml2tif and ncml2mrf S3 buckets.	2
ncml2tif-dev-ncml2tif	ncml2tif	ncml2tif	cer-syn1deg-1hour-terra-aqua-modis-tif	Serverless	Generate CERES GeoTIFF from Hyrax NcML module. This uses GDAL DODS driver.	40
tif2cog-dev-tif2coglambda	tif2cog	mop03t-007-tif	mop03t-007-cog	Serverless	Generate CoG from GeoTIFF.	0.9
ncml2mrf-dev-HourlyMRF	ncml2mrf	Not Implemented Yet		Serverless	Convert an hourly NCML to MRF and uploads to a user specified S3 bucket.	
ncml2mrf2-dev-ncml2mrf2	ncml2mrf2	ncml2mrf	ceres-mrf	Serverless	Convert an CERES NCML to MRF.	20.6
rasterproxy-dev-HourlyRasterProxy	rasterproxy	Not Implemented Yet		Serverless	Creates 24 individual raster proxy XML files from a 24 hour MRF and uploads to a user specified S3 bucket	3.7

Layers

Name	Source	Deployed by	Purpose	Functions that use the layer	ARN
gdal	gdal-layer	Serverless	Latest GDAL with vsis3 support for 1-d swath HDF-EOS5 and Python 3.6.	mop02j2tif-layer ncml2mrf2-dev-ncml2mrf2	arn:aws:lambda:us-east-1:811315030605:layer:gdal:10
netcdf4-py36			NetCDF4 Python 3.6	ncml2mrf-dev-HourlyMRF ncml2mrf2-dev-ncml2mrf2	arn:aws:lambda:us-east-1:811315030605:layer:netcdf4-py36:2

References

1. <https://docs.aws.amazon.com/lambda/latest/dg/limits.html>