ArcGIS Image for ArcGIS Online Tool Talk

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What is ArcGIS Image for ArcGIS Online?

- Software-as-a-Service that lets users in an ArcGIS Online organization host, analyze, and stream imagery and raster collections.
  - Previously limited to tile layer for rasters (picture)
- Expands imagery data management, visualization, and analysis to a hosted environment.

How Long Has This Been Available?

- Summer 2021 – initial release
- Spring 2022 – U of I participated in pilot for higher education
- Summer 2022 – added to Esri Educational Institution Agreement

Next "Big" Transition for Sharing Rasters?

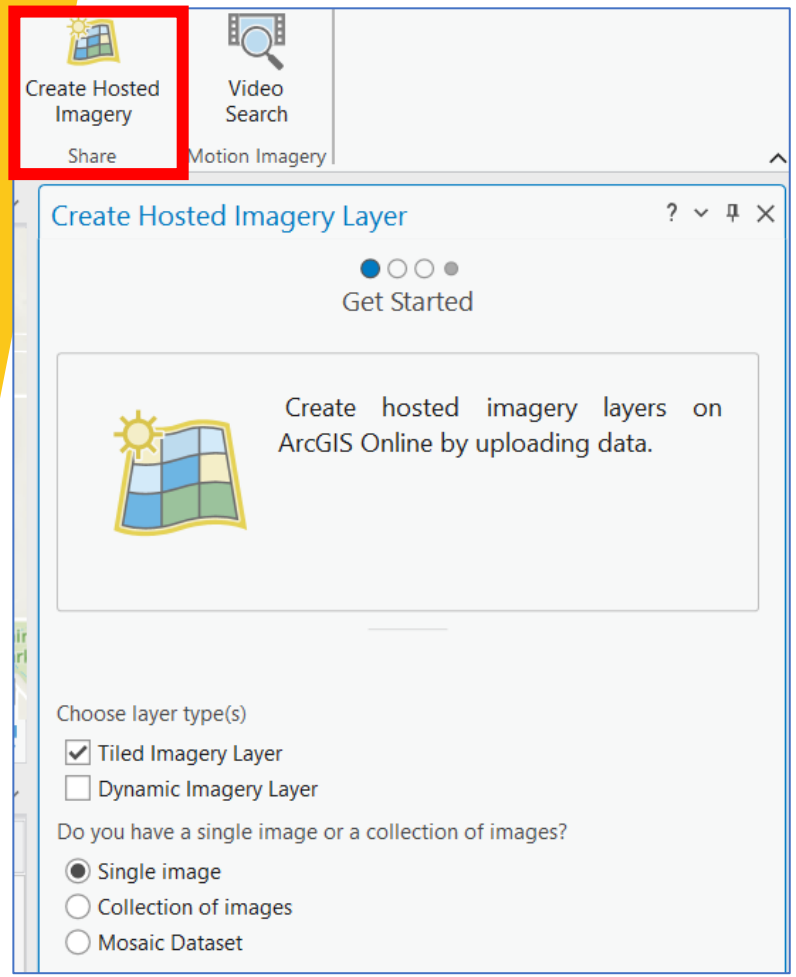
- Early Years – SDE rasters & ArcIMS
- Middle Years - .ISDef files Image Server --> ArcGIS Server
- Recent Years – Mosaic datasets w/ ArcGIS Server --> Enterprise sharing to ArcGIS Online
- Looking Ahead – ArcGIS Image for ArcGIS Online?

Getting started

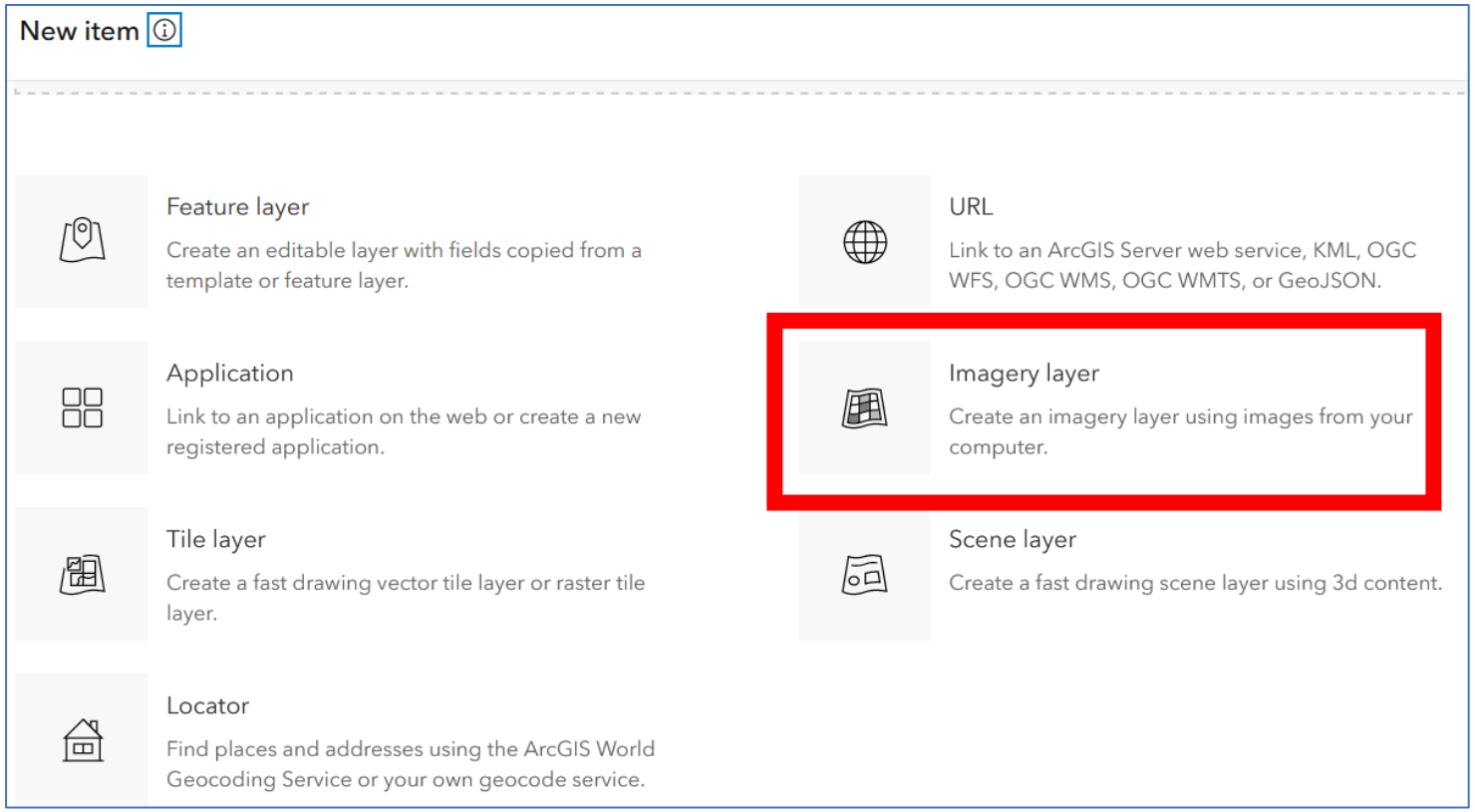
- Licensing
  - Using Vandal NetID sign into the U of I Teaching & Scholarly Research Portal (https://uidaho.maps.arcgis.com) using a web browser or ArcGIS Pro

Publishing Hosted Imagery

ArcGIS Pro



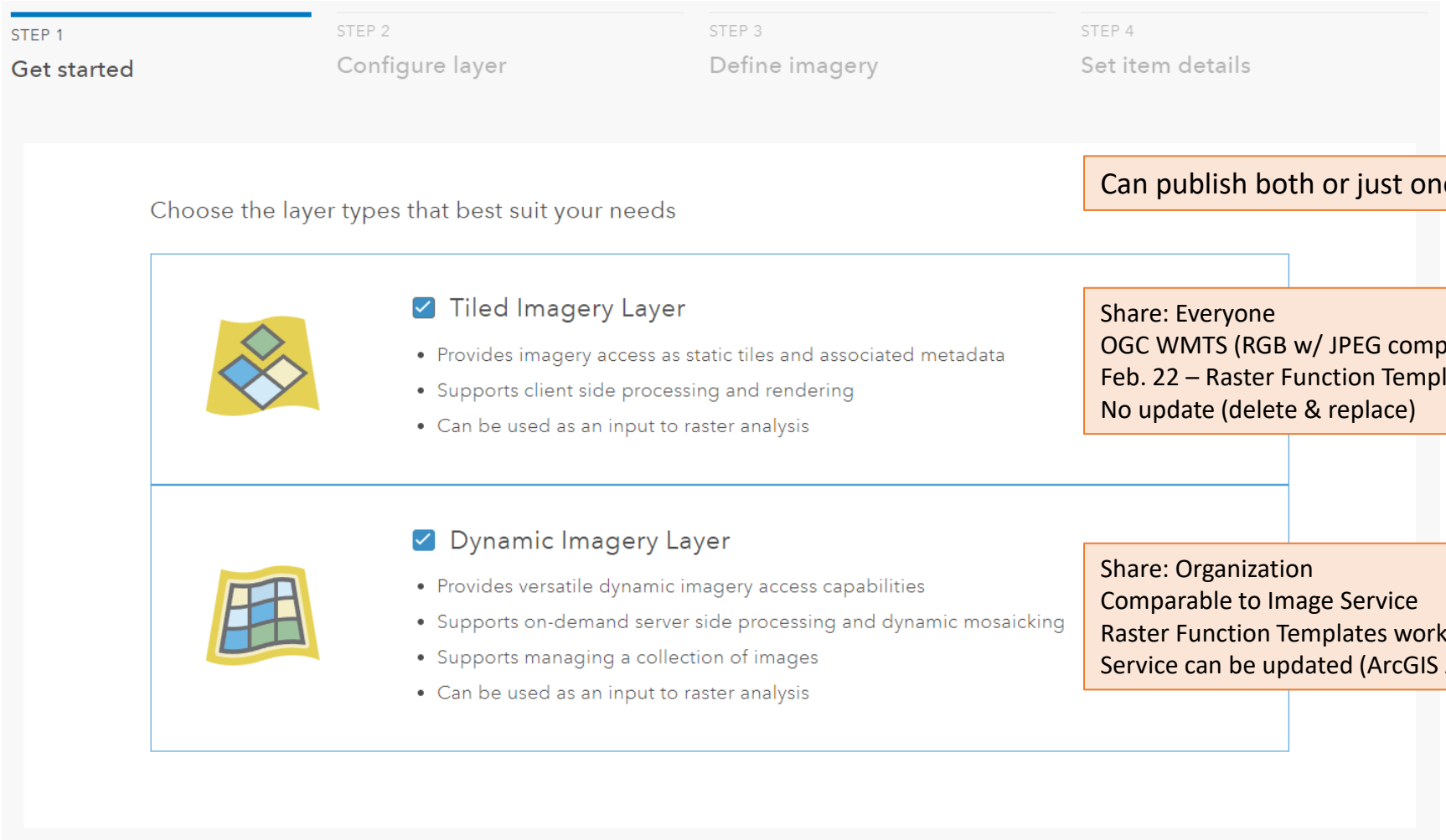
Web Browser



Publishing Hosted Imagery

- General steps:
  - Choose a layer type
  - Choose a layer configuration
  - Select and define imagery
  - Add item description

Publishing – Layer Type (ArcGIS Online)

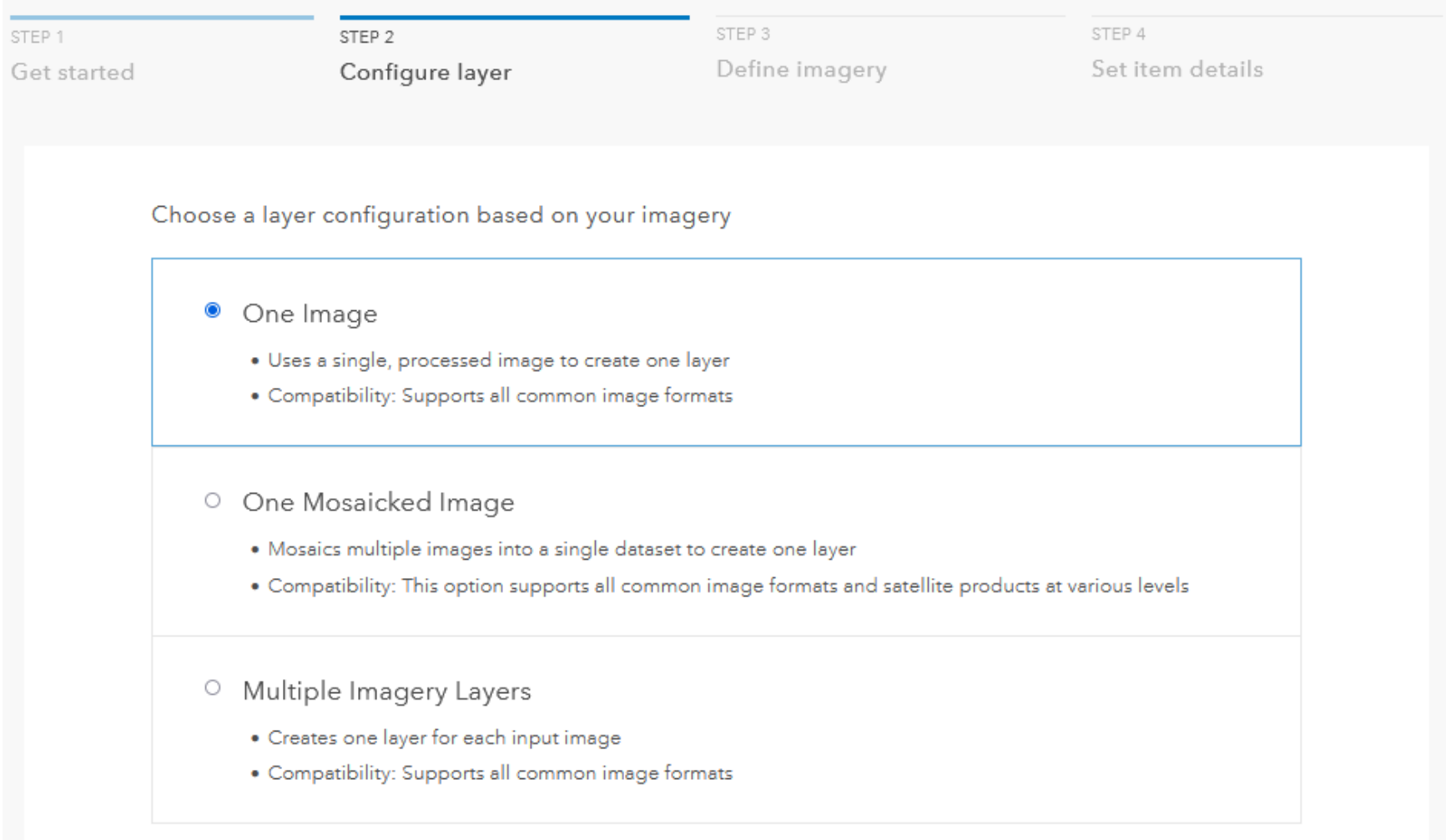


Can publish both or just one

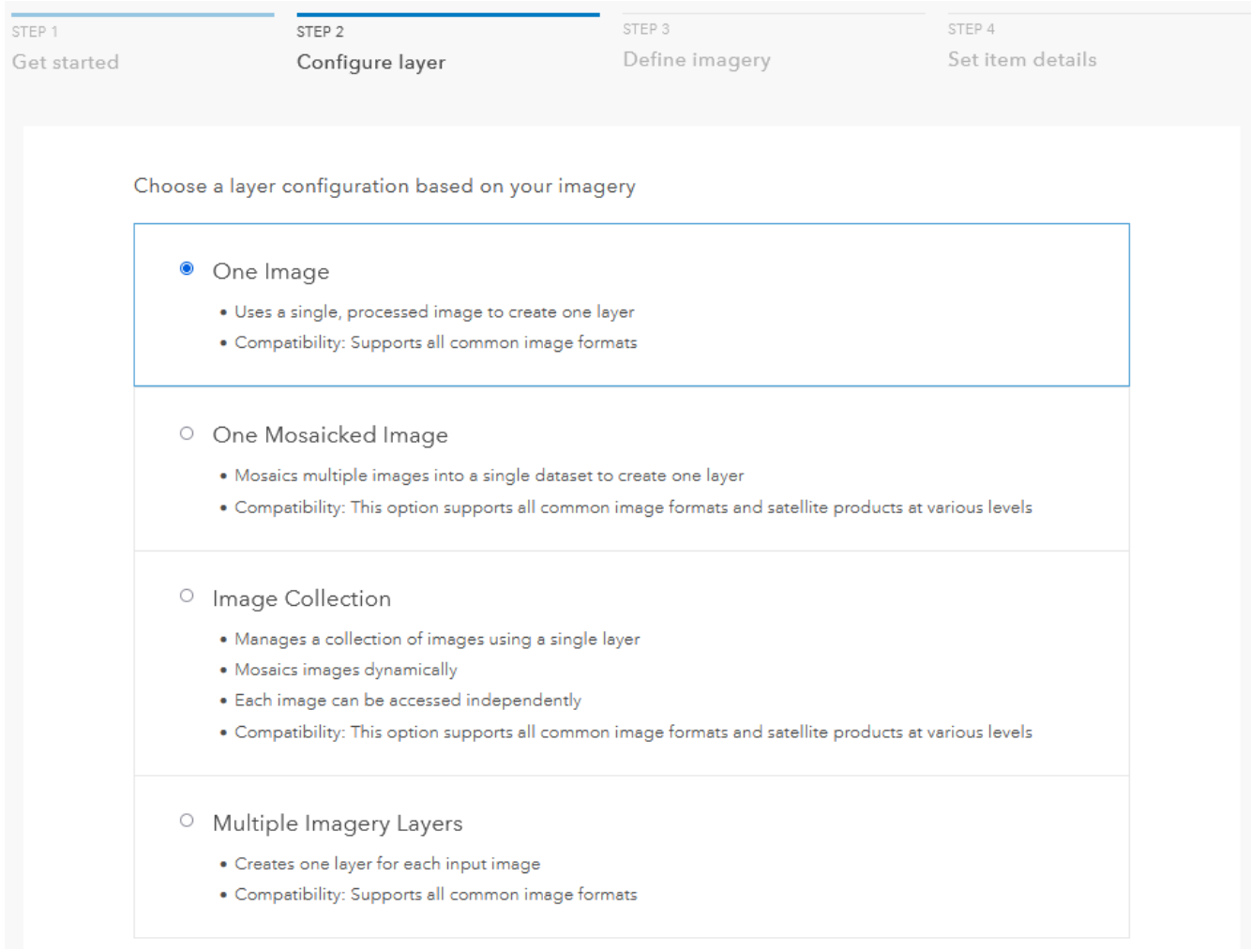
Share: Everyone
OGC WMTS (RGB w/ JPEG comp.)
Feb. 22 – Raster Function Templates (Beta)
No update (delete & replace)

Share: Organization
Comparable to Image Service
Raster Function Templates work
Service can be updated (ArcGIS API for Python)

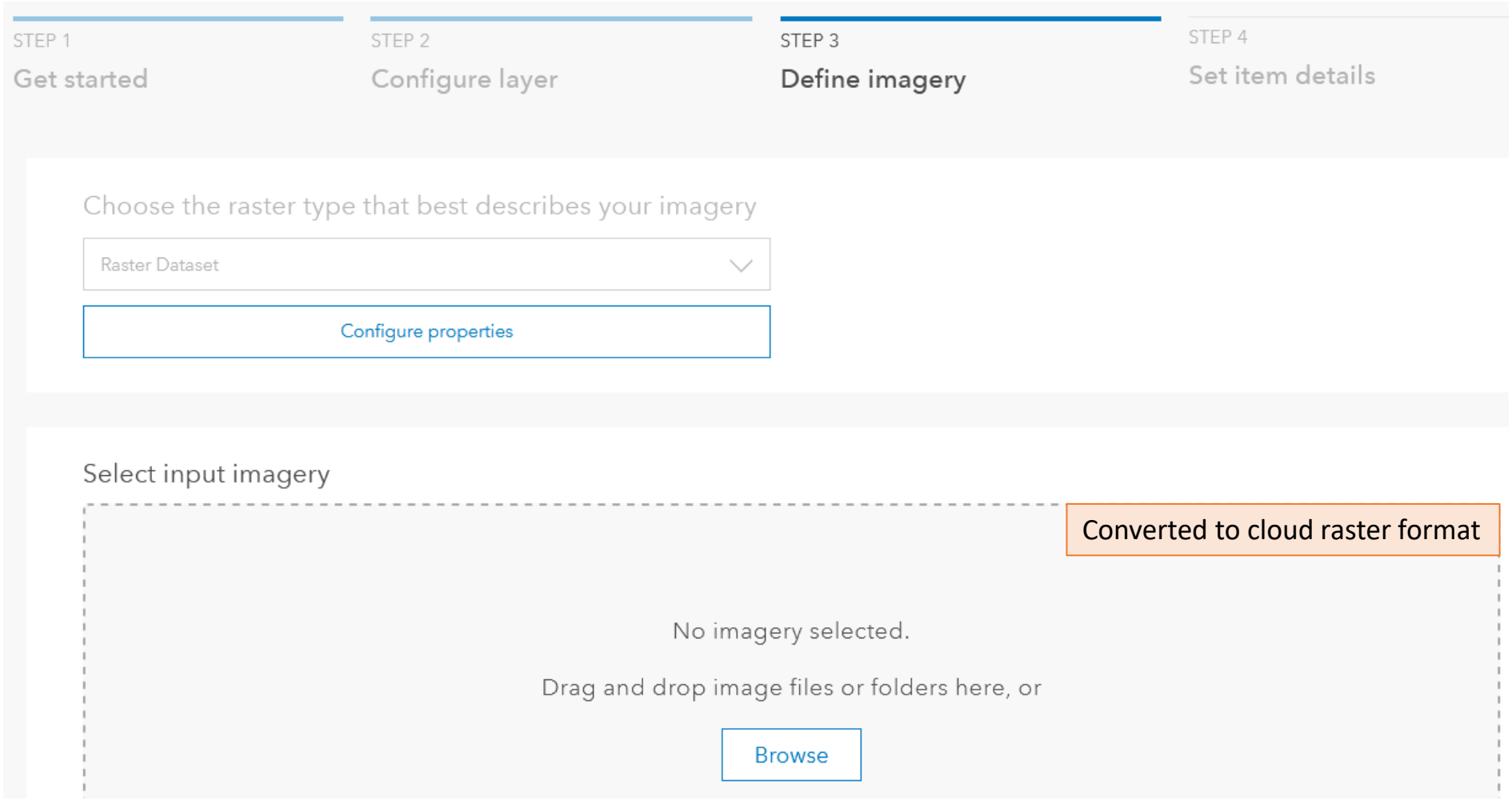
Publishing – Configure Tiled (ArcGIS Online)



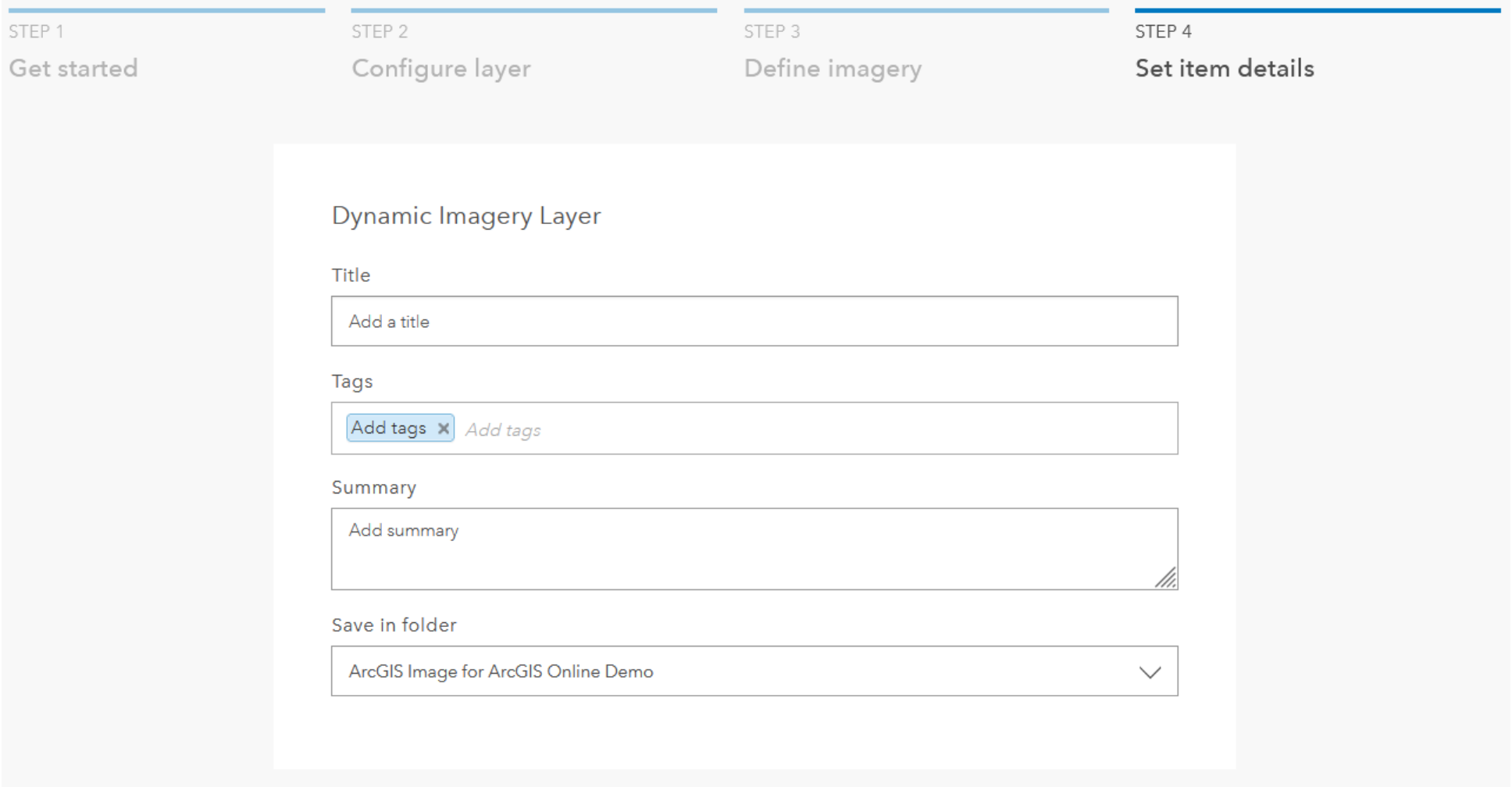
Publishing – Configure Dynamic (ArcGIS Online)



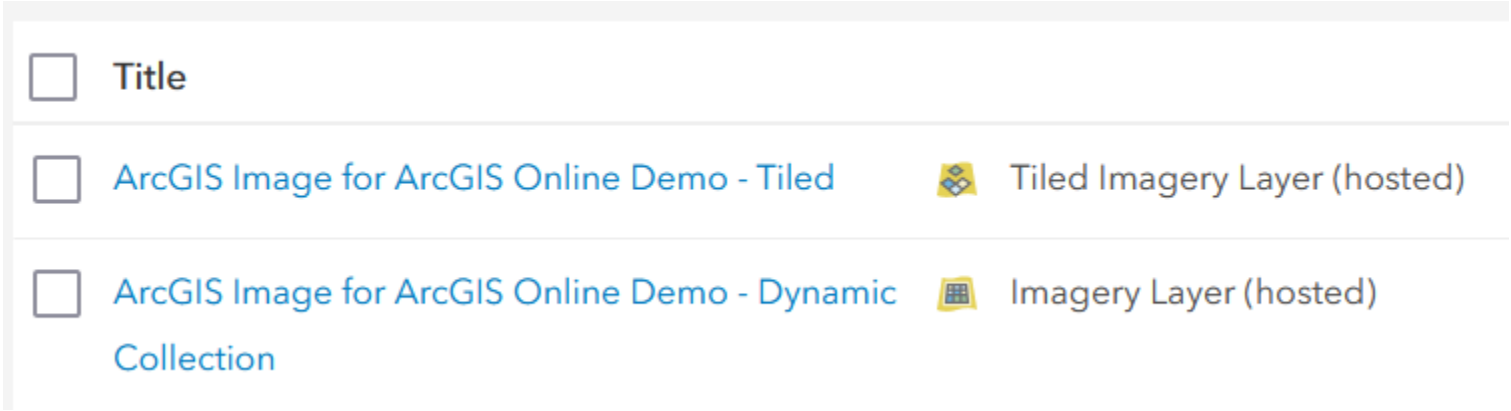
Publishing – Define Tiled (ArcGIS Online)



Publishing – Details Tiled (ArcGIS Online)



Result – New Item(s) in ‘Content’



Raster Analysis (Map Viewer Example)

Testing Results

- 4 individual 3-band .tif files totaling 4.3GB published as a mosaic in 15 minutes
- 6 individual 3-band .tif files totaling 7.8GB published as a mosaic in 30 minutes

Resources

- ArcGIS Blogs - ArcGIS Image for ArcGIS Online
- Get Started with ArcGIS Image for ArcGIS Online - Esri Community