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.
  o Previously limited to tile layer (picture)
• Expands imagery data management, visualization, and analysis to a hosted environment.
How Long Has This Been Available?

• Recent addition to ArcGIS Online
  ○ Spring 2022 – U of I participated in pilot
  ○ Summer 2022 - added to Esri Educational Institution Agreement
  ○ Previously this type of functionally was limited to our desktop/server infrastructure.
Getting started

• Licensing
  ○ U of I Teaching & Scholarly Research Portal: license is granted to each member
  ○ U of I Administrative & Business Operations Portal: email Bruce
## Publishing Hosted Imagery

### ArcGIS Pro

Create Hosted Imagery Layer

Create hosted imagery layers on ArcGIS Online by uploading data.

- Choose layer type(s):
  - **Tiled Imagery Layer**
  - **Dynamic Imagery Layer**

Do you have a single image or a collection of images?
- **Single image**
- **Collection of images**
- **Mosaic Dataset**

### Web Browser

<table>
<thead>
<tr>
<th>New item</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature layer</td>
<td>Link to an ArcGIS Server web service, KML, OGC WFS, OGC WMS, OGC WMTS, or GeoJSON.</td>
</tr>
<tr>
<td>Application</td>
<td>Link to an application on the web or create a new registered application.</td>
</tr>
<tr>
<td>Imagery layer</td>
<td>Create an imagery layer using images from your computer.</td>
</tr>
<tr>
<td>Tile layer</td>
<td>Create a fast drawing vector tile layer or raster tile layer.</td>
</tr>
<tr>
<td>Scene layer</td>
<td>Create a fast drawing scene layer using 3D content.</td>
</tr>
<tr>
<td>Locator</td>
<td>Find places and addresses using the ArcGIS World Geocoding Service or your own geocode service.</td>
</tr>
</tbody>
</table>
Publishing Hosted Imagery

• General steps:
  o Choose a layer type
  o Choose a layer configuration
  o Select and define imagery
  o Add item description
Publishing Hosted Imagery

• Layer Types
  o Tiled [can be shared with everyone]
  ▪ Layer Configuration
    □ One Image
    □ One Mosaiced Image
    • Raster Type (Landsat, SPOT, NetCDF, and others)
    □ Multiple Imagery Layers
Publishing Hosted Imagery

• Layer Types
  o **Dynamic** [can be shared with members of an organization]
    ▪ **Layer Configuration**
      ❑ One Image
      ❑ One Mosaiced Image
        • Raster Type (Landsat, SPOT, NetCDF, and others)
      ❑ Multiple Imagery Layers
        • Raster Type (Landsat, SPOT, NetCDF, and others)
      ❑ Imagery Collection
Resources

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