Generating Tiles in ArcGIS Desktop to Publish on ArcGIS Online

The following method describes creating tiled basemaps within ArcMap for publishing to ArcGIS Online. These procedures are the recommended alternative to creating hosted tiles within ArcGIS Online, which can consume a very large amount of service credits.

Preliminary steps

1) Open a blank ArcMap Document
   a. Main Menu ➔ Customize ➔ ArcMap Options ➔ Sharing
   b. Check Box to Enable ArcGIS Runtime Tools

ArcGIS Help Link

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ArcMap: Share As Tile Package

1) In ArcMap, Add your map layers or imagery to a blank map.

2) Sign in with ArcGIS Online Account

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3) Share As → Tile Package

Follow Tile Package Menu Options

a. Tile Package: Upload Package to ArcGIS Online

b. Tile Format: Choose the needed **zoom levels** using the selector below (eg 16 of 20). The higher the zoom level, the more detailed zoom will be possible in the final map (but many, many more tiles are generated for each successive zoom level.)
c. **Item Description**: Enter item description information and tags

![Item Description](image)

- **Summary** (required):
  - Farm land uses for Salinas watershed

- **Tags** (required):
  - Salinas watershed, Farm

- **Description**: [Input field]

- **Access and Use Constraints**: public

- **Credits**: NR 418 and original data source

d. **Sharing**: Enter sharing info.

![Sharing](image)

- Share your package with:
  - [ ] Everyone (public)
  - [ ] Members of these groups:
    - [ ] OP BAO Group
    - [ ] OP CA Group

e. **Analyze** and check for any Errors.

![Analyze](image)

- **Search Analyze Results**:
  - 0 Errors
  - 0 Warnings
  - 1 Message

- **Layer draws at all scale ranges**

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4) Share Tile Package

ArcMap will prompt to Save Map Document

5) Tiles will be generated in ArcMap.

This process can take several minutes, depending on the zoom level chosen.
6) Tile Package in ArcGIS Online.
The Tile Package has been uploaded, but the Tiles need to be ‘Published’ or unpacked to be able to add to the web map.
   a. **Click Publish.**
   b. This step requires the ability of ‘**Publisher**’ role, but since the tiles are already generated, this will not use the online service credits.

7) Hosted Tile Layer in ArcGIS Online

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Strangely enough, the tiles online only show that only zoom levels 1-14 were generated, zooming down to 1:72,000. There may be some discrepancy in the Create Map Tile Package tool.

**Notes:** With this method method, sometimes ArcMap will report that the Tile Package was generated successfully, even if it takes very little time to complete, and the results are < 200 Kb in size. It will then fail to publish the tile package successfully.

If that’s the case, Open a new ArcMap document.

Copy and Paste the layer of interest into the new ArcMap Document, and try procedures from the start. [https://geonet.esri.com/thread/100813](https://geonet.esri.com/thread/100813)

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