

# ArcGIS® 4: Sharing Content on the Web

STUDENT EDITION

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## Course introduction

- Introduction
- Course goals
- Additional resources
- Installing the course data
- Icons used in this workbook
- Understanding the ArcGIS Platform

## 1 The ArcGIS platform

- Lesson introduction
- Advantages of the ArcGIS platform
- Portals
- ArcGIS for Server and GIS services
- Organizing a workflow
- Using a portal
- Exploring portals
- Web maps
- Creating a web map
- Exercise 1: Create a web map
  - Sign in to Portal for ArcGIS
  - Create a web map
  - Begin configuring layer symbology
  - Add labels and a filter
  - Configure layer pop-ups
  - Save the map
  - Share the web map in an app
- Lesson review

## 2 Publishing to the platform

- Lesson introduction
- Workflow: Publishing services
- Service protocols
- Exploring the ArcGIS platform
- Data sources
- Registration types
- Registering a data source
- Data source permissions
- Exercise 2: Publish to the ArcGIS platform
  - Register the data source
  - Author a map
  - Publish a map service
  - Add a map service to a web map
- Lesson review

## 3 Sharing published content

- Lesson introduction
- Publishing and sharing content
- Workflow for sharing
- Choosing with whom to share
- Sharing content in Portal for ArcGIS
- Exercise 3: Share content using Portal for ArcGIS
  - Sign in to Portal for ArcGIS
  - Create a group
  - Add content to a group
  - Share group content
- Lesson review

## 4 Publishing map services

- Lesson introduction
- Map-service workflow
- How dynamic map services work
- Types of map services
- Guidelines for authoring map services
- Publishing a map service
- Exercise 4A: Author, publish and use a map service
  - Author the map
  - Publish the map
  - Use the map service
- Cached map services
- Map cache workflow
- Tile packages
- Applying the caching workflow
- Exercise 4B: Build and apply a map cache
  - Prepare the map
  - Publish a cached map service for ArcGIS for Server
  - Test the cached map service
  - Combine map services
- Lesson review

## 5 Publishing feature services

- Lesson introduction
- Streaming features
- What type of service would you publish?
- Feature service workflow
- Publishing a feature service
- Exercise 5: Publish and use a feature service
  - Prepare the feature service

- Configure the feature service
- Publish the feature service
- Apply the feature layer
- Use the feature layer

Lesson review

## 6 Enabling feature service editing

- Lesson introduction
- Preparing data for editing
- Creating feature templates
- Enabling feature attachments
- Publishing a feature service for editing
- Enabling feature service operations
- Which operations do you enable?
- Exercise 6: Configure a feature service for editing (ArcMap)
  - Create a feature template
  - Enable editing on the feature service
  - Modify the web map
  - Create an editable web application
  - Apply edits to a feature service

Lesson review

## 7 Creating and sharing web apps

- Lesson introduction
- Types of apps
- Configurable apps
- Web AppBuilder for ArcGIS
- Building a configurable app
- Exercise 7: Build a web app
  - Examine the web app requirements
  - Create a new web app
  - Apply a theme, style, and layout
  - Configure a web map
  - Add functionality
  - Apply branding to the app
  - Preview and launch the app

Lesson review

## 8 Publishing image services

- Lesson introduction
- Image services
- Preparing to publish an image service
- Publishing an image service
- Building pyramids and caches

- Should I publish an image service?
- Raster functions
- Publishing an image service for analysis
- Exercise 8: Publish a mosaic dataset
  - Create the NDVI image
  - Discover the NDVI index value
  - Create a raster function
  - Export a function chain as a template
  - Publish an image service
- Lesson review

## 9 Publishing geocode services

- Lesson introduction
- Creating a locator
- How do I publish a geocode service?
- Publishing a locator
- Using a geocode service
- Creating and publishing a locator
- Exercise 9: Publish a geocode service
  - Create a locator
  - Publish the locator as a service
  - Use the geocode service in the search widget
- Lesson review

## 10 Publishing geoprocessing services

- Lesson introduction
- Using analysis tools
- Geoprocessing services
- Authoring and running a model
- Publishing geoprocessing results
- Using geoprocessing services
- Publishing a model as a service
- Exercise 10: Publish a geoprocessing model
  - Publish a model
  - Assign a geoprocessing task to a web app
- Lesson review

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- Appendix A: Esri data license agreement
- Appendix B: Answers to lesson review questions

- Lesson 1: The ArcGIS platform
- Lesson 2: Publishing to the platform
- Lesson 3: Sharing published content
- Lesson 4: Publishing map services
- Lesson 5: Publishing feature services
- Lesson 6: Enabling feature service editing
- Lesson 7: Creating and sharing web apps
- Lesson 8: Publishing image services
- Lesson 9: Publishing geocode services
- Lesson 10: Publishing geoprocessing services