

# 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
- Enterprise portals
- ArcGIS Enterprise and GIS services
- Organizing a workflow
- Using an Enterprise portal
- Exploring Enterprise portals
- Web maps
- Creating a web map
- Exercise configuration
- Exercise 1: Create a web map
  - Sign in to the ArcGIS Enterprise portal
  - Create a web map
  - Configure layer symbology
  - Add labels and a filter
  - Configure layer pop-ups
  - Save and share the map
- 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 an Enterprise portal
- Exercise 3: Share content using an Enterprise portal
  - 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
- 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
  - Test the cached map service
  - Combine map services
- Lesson review

## 5 Publishing feature services

- Lesson introduction
- Sharing 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
- Publish a feature layer
- 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

- Review 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
- Exercise 8: Publish an image service
  - Prepare the map document
  - Create raster function templates
  - Publish an image service
  - View the image service
- Lesson review

## 9 Publishing geocode services

- Lesson introduction
- Creating a locator
- 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 geoprocessing service
  - Create a web app
  - Test the geoprocessing task
- 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