



# Working with Feature Services

Gary MacDougall

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# Working with Feature Services

- **Session will focus on editing**
- **Highlight new features added over the last few releases**

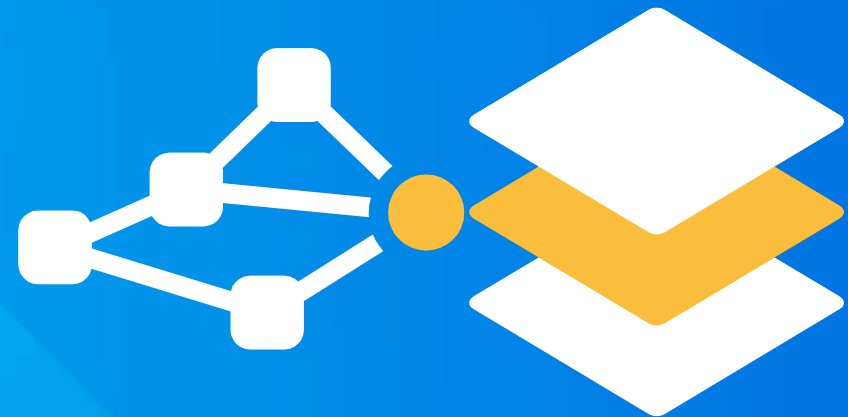
# Agenda

- **Introduction and Feature Service Basics**
- **Workflow demos**
  - Publishing with Pro
  - Feature services in Portal
  - Pro as a feature service client
  - Taking data offline with Collector
- **Advanced topics**
  - Feature Services Admin API
  - ArcGIS Data Store
- **Q&A**



# Feature Service


- Supports accessing and editing data over the web
- Provides online and offline (10.2.1) access
- Contains Web Feature Layers
  - Drawing info (renderers, symbols, etc)
  - Field info (type, nullable, editable)
  - Feature templates for editing (defaults, domains)
  - Operations for query and editing
- RESTful



# Feature Service Options

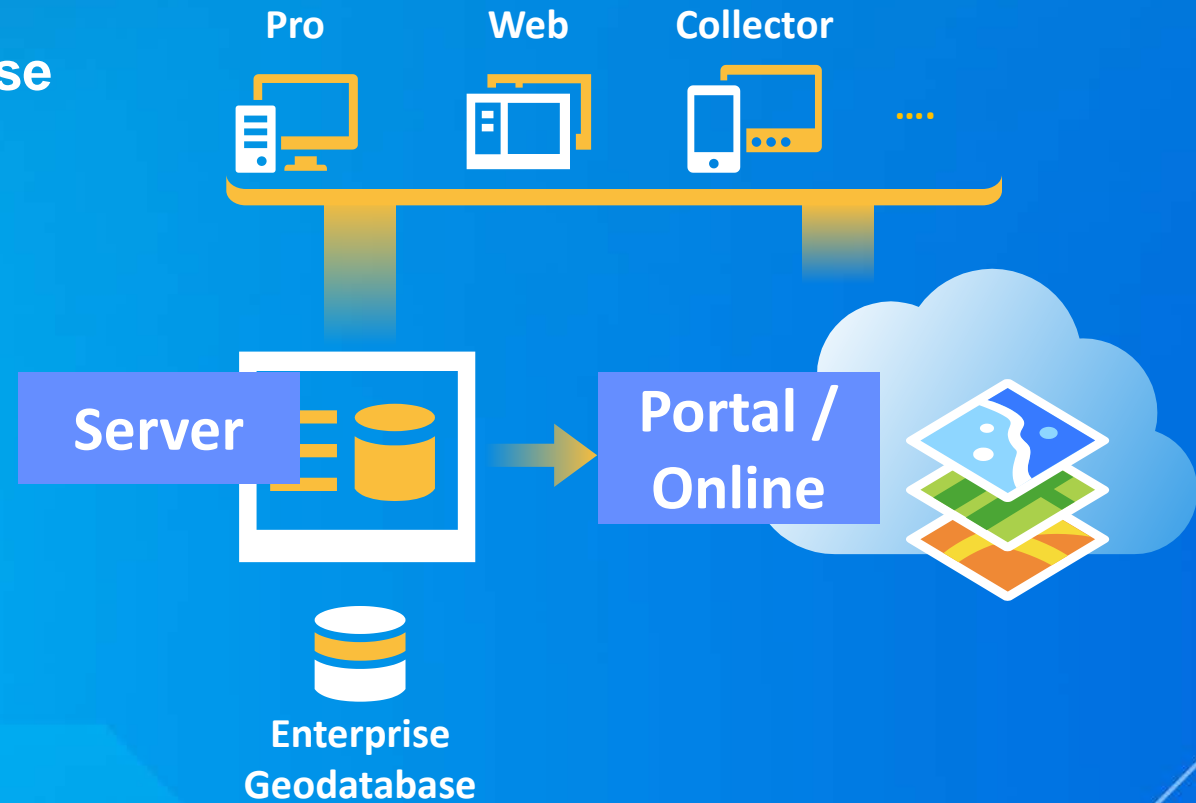
- Export to various formats
- Work Attachments and Relationship Classes
- Enable time
- Set editing capabilities
- Enable sync
- Enable editor tracking
  - Turn on access control
- Work with M and Z data

Editing	<input checked="" type="checkbox"/> Enable editing and allow editors to: <ul style="list-style-type: none"><li><input checked="" type="radio"/> Add, update, and delete features</li><li><input type="radio"/> Update feature attributes only</li><li><input type="radio"/> Add features only</li></ul>
Export Data	<input type="checkbox"/> Allow others to export to different formats.
Sync	<input checked="" type="checkbox"/> Enable Sync (disconnected editing with synchronization).
Track Edits	<input checked="" type="checkbox"/> Keep track of who created and last updated features. <input type="checkbox"/> Editors can only update and delete the features they add.

 **SAVE**      CANCEL

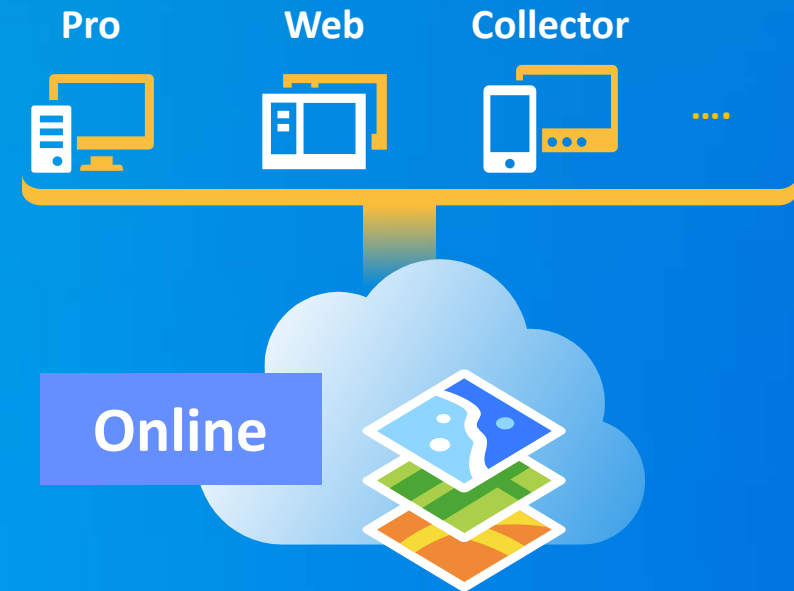
# Data Storage Options

- Feature Services referencing your Enterprise Geodatabase
  - ArcGIS for Server
- Hosted Feature Services
  - ArcGIS Online
  - Portal for ArcGIS



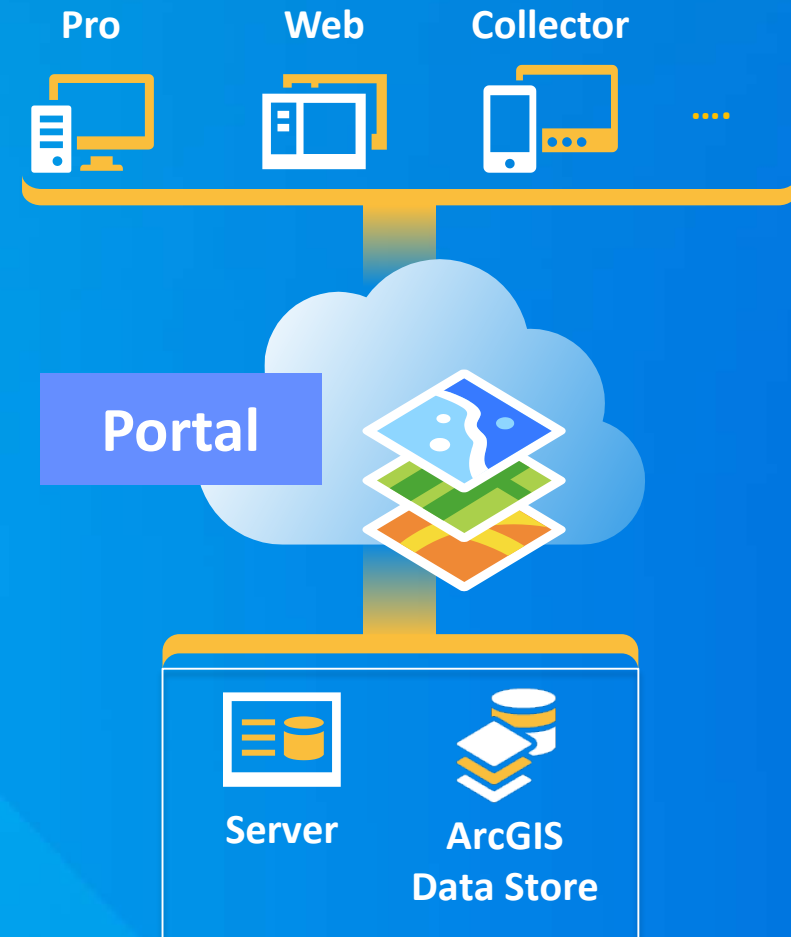
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# Feature Service Clients

- **Web**

- Map viewer (ArcGIS online, Portal for ArcGIS)
- Web applications

- **Desktop applications**

- ArcGIS Pro
- ArcMap

- **Runtime applications**

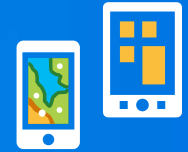
- Collector for ArcGIS
- Explorer for ArcGIS
- Operations dashboard for ArcGIS
- Custom apps



Business Analyst  
Online



ArcGIS Pro



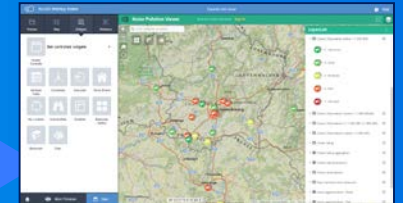
Collector for  
ArcGIS



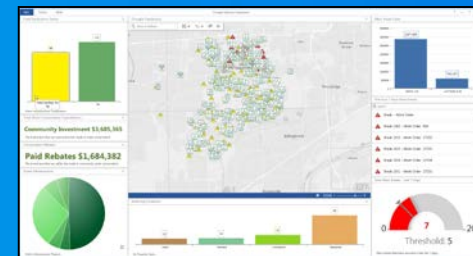
Explorer for  
ArcGIS



ArcMap



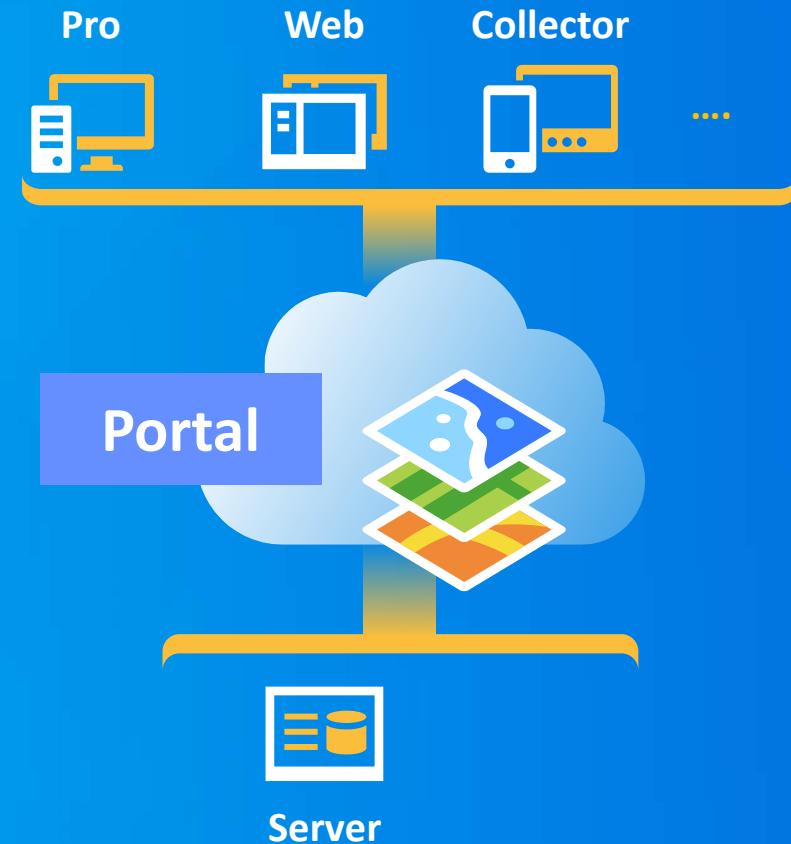
10.3: Web App  
Builder for ArcGIS



Operations Dashboard for ArcGIS

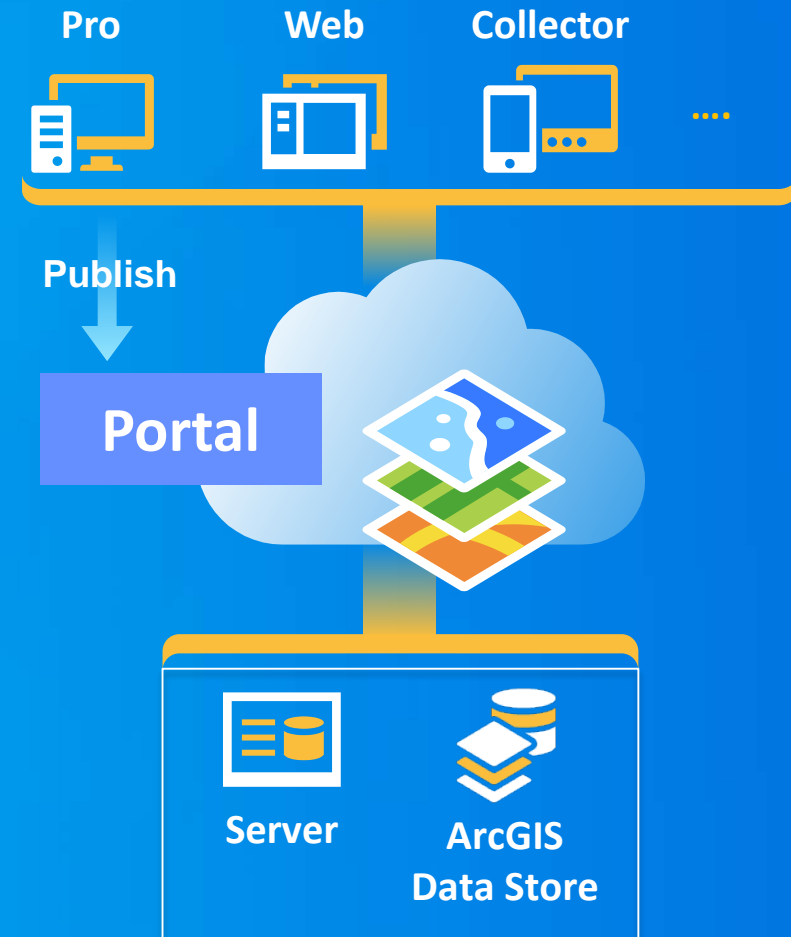
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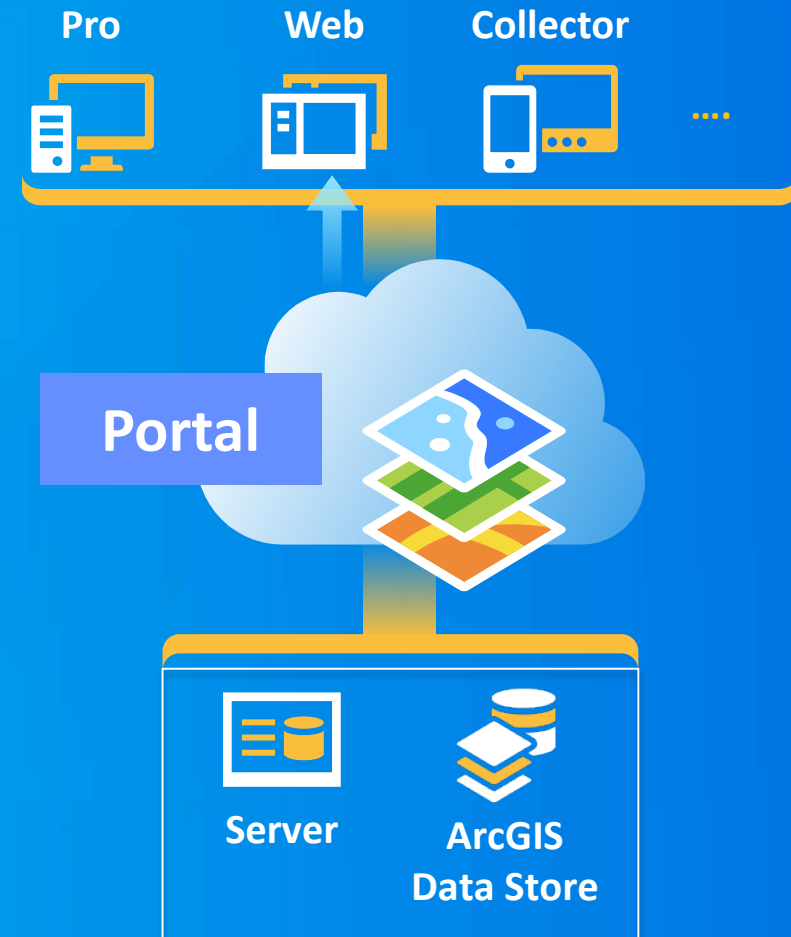
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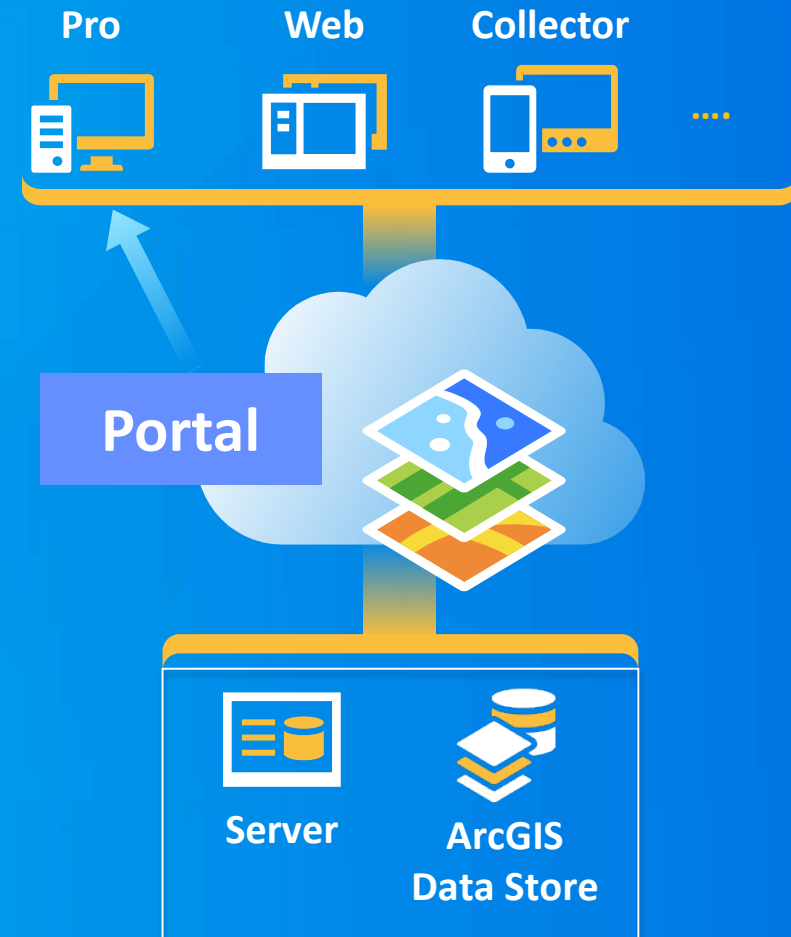
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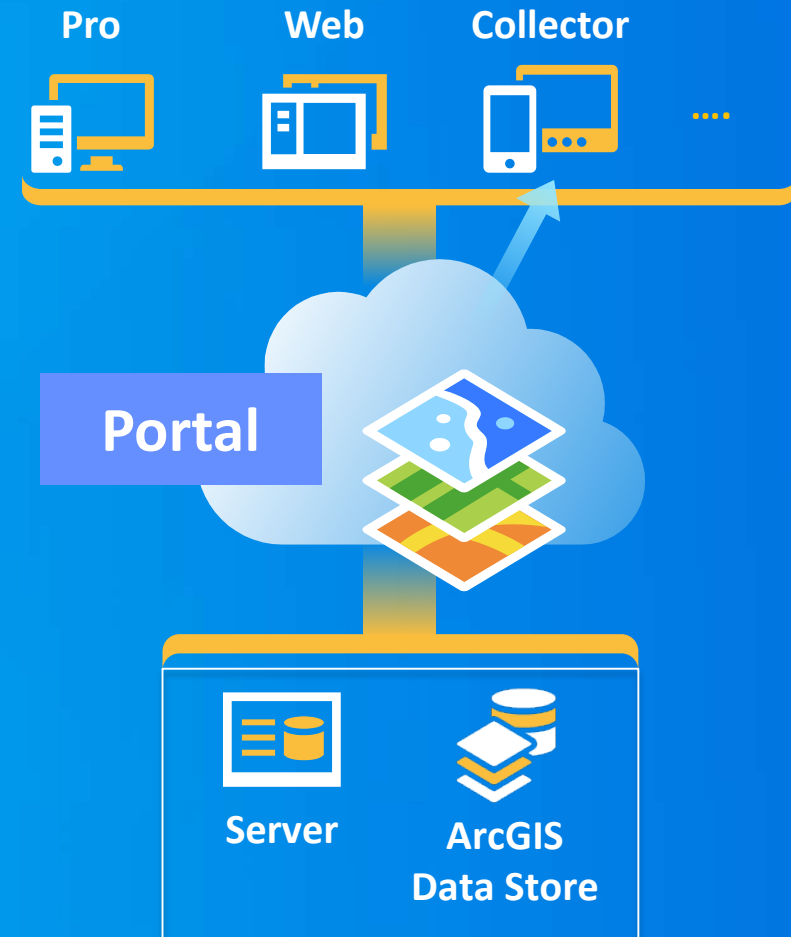
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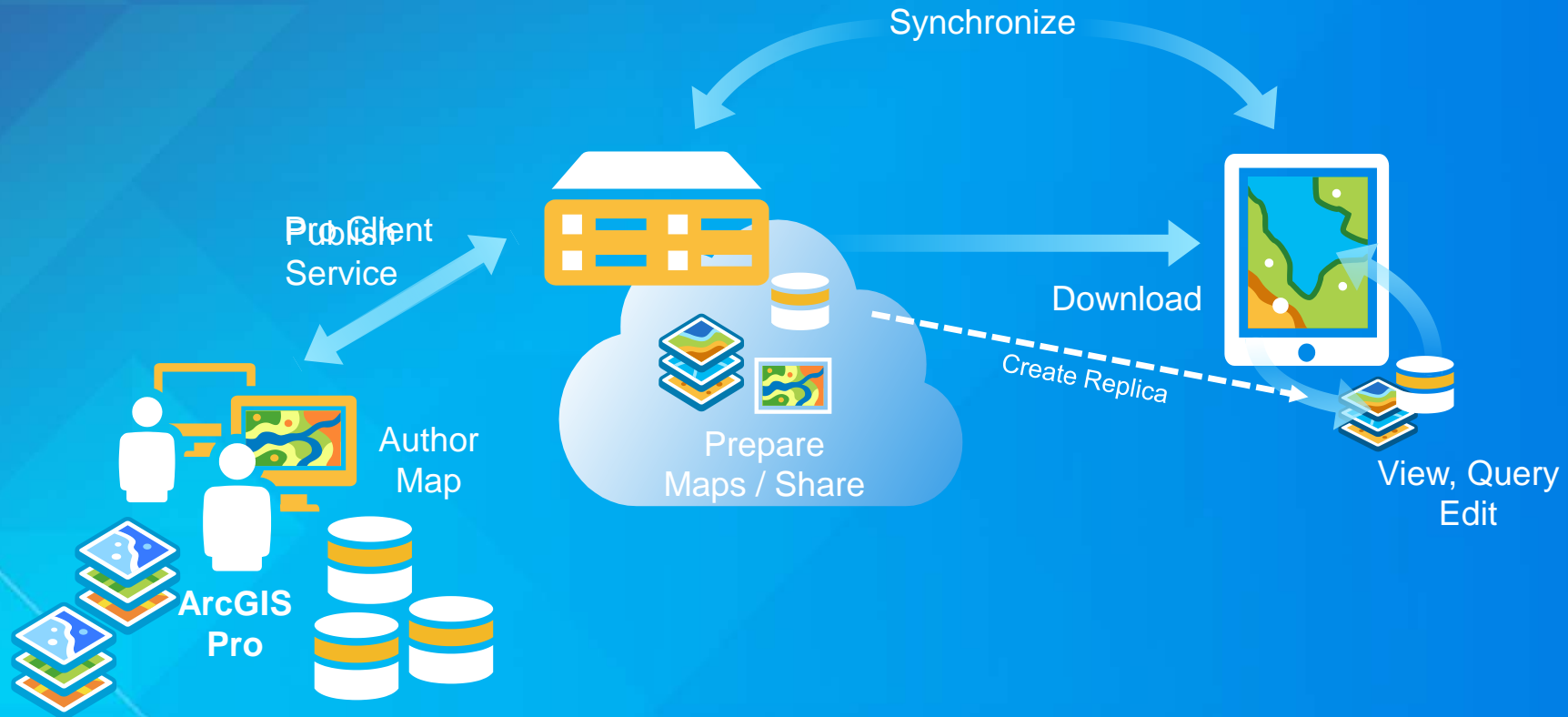


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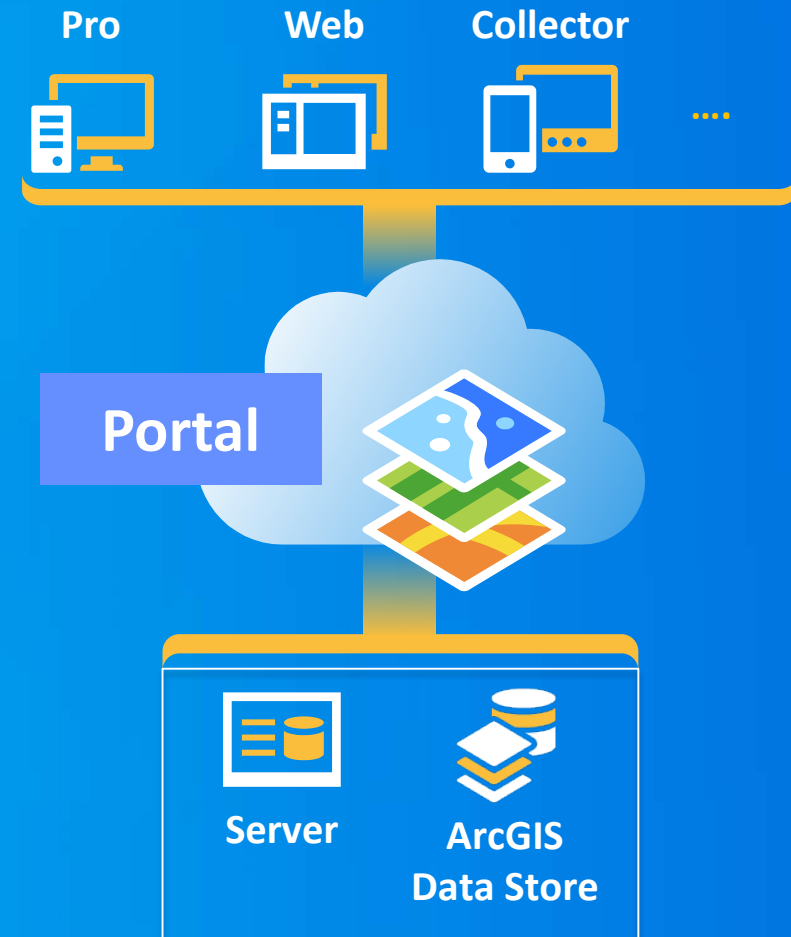


# Workflow Demo Summary



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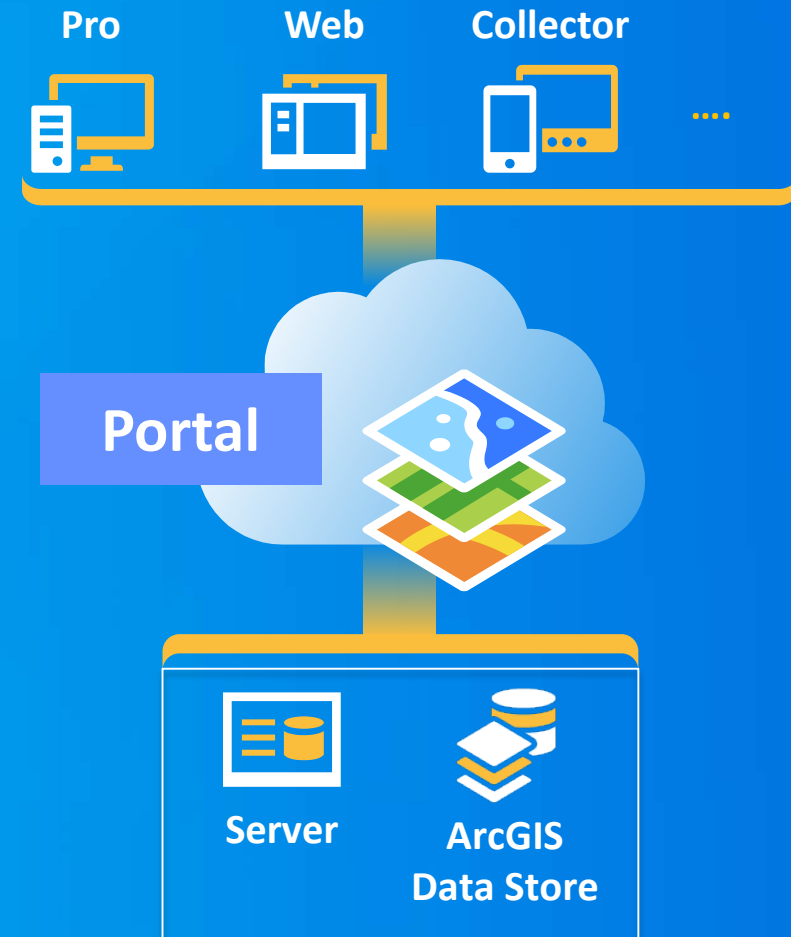


# Feature Services Admin API

- **Allows schema edits after publishing**
  - Add/Drop layers, Add/Drop fields, Add/Drop relationship classes / attachments, ...
- **Supported with hosted feature services**
  - Use Desktop / Pro for Feature Services referencing your Enterprise Geodatabase
- **Used by...**
  - Commands in the Portal UI
  - Can also be called directly using the REST services directory
    - E.g. [http://abbey.esri.com/gis/rest/admin/services/Hosted/States\\_rel/FeatureServer/0](http://abbey.esri.com/gis/rest/admin/services/Hosted/States_rel/FeatureServer/0)

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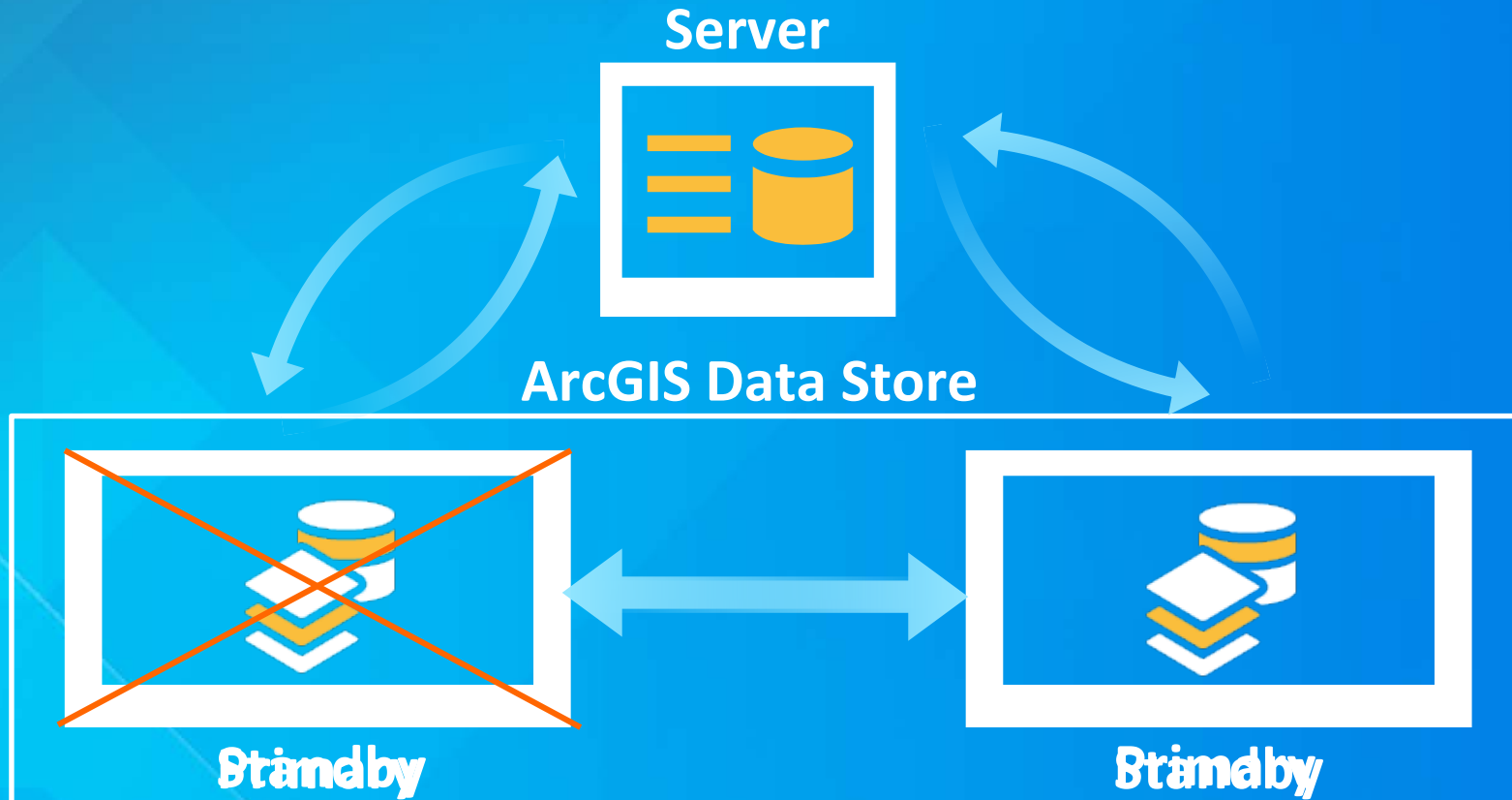


# ArcGIS Data Store

- **New in 10.3**
- **Designed to store the data from Portal for ArcGIS**
- **Installed separately and configured when setting up Portal for ArcGIS**
- **Provides**
  - **Support 1000's of hosted feature services**
  - **High availability**
  - **Back up and restore**

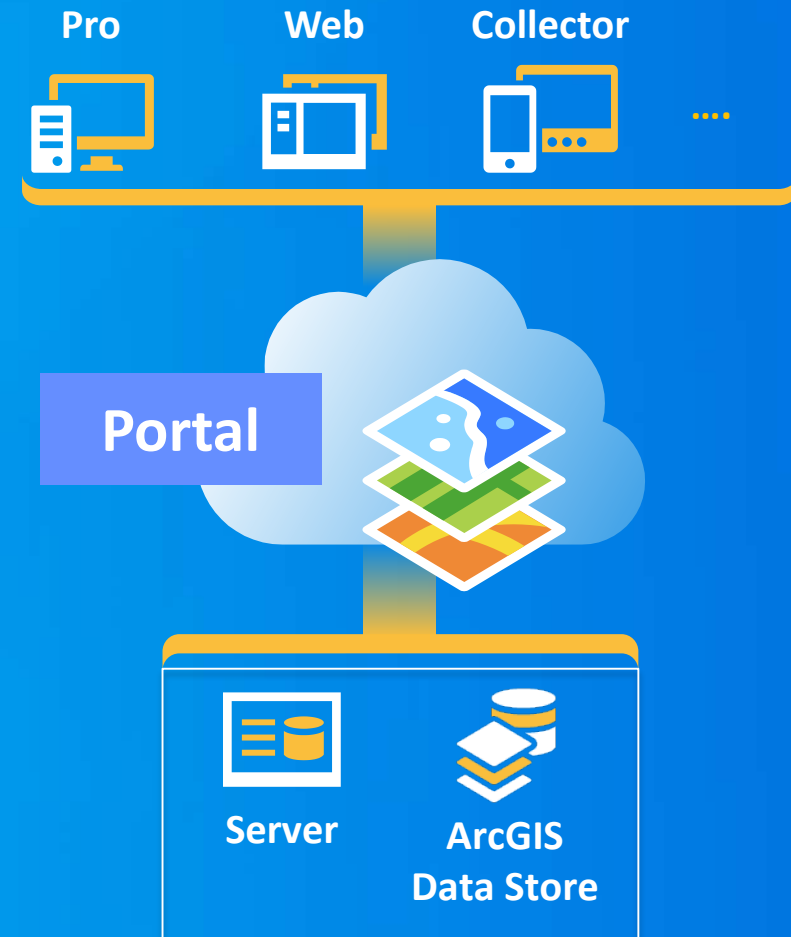
# ArcGIS Data Store

- Can be configured with a primary and standby for high availability
- Manual or automatic failover



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# Summary

- **Feature Services and Editing**
- **Included feature services and...**
  - Portal for ArcGIS and ArcGIS Data Store
  - Pro
  - Collector
- **Advanced topics**
  - Feature Service Admin API
  - High availability

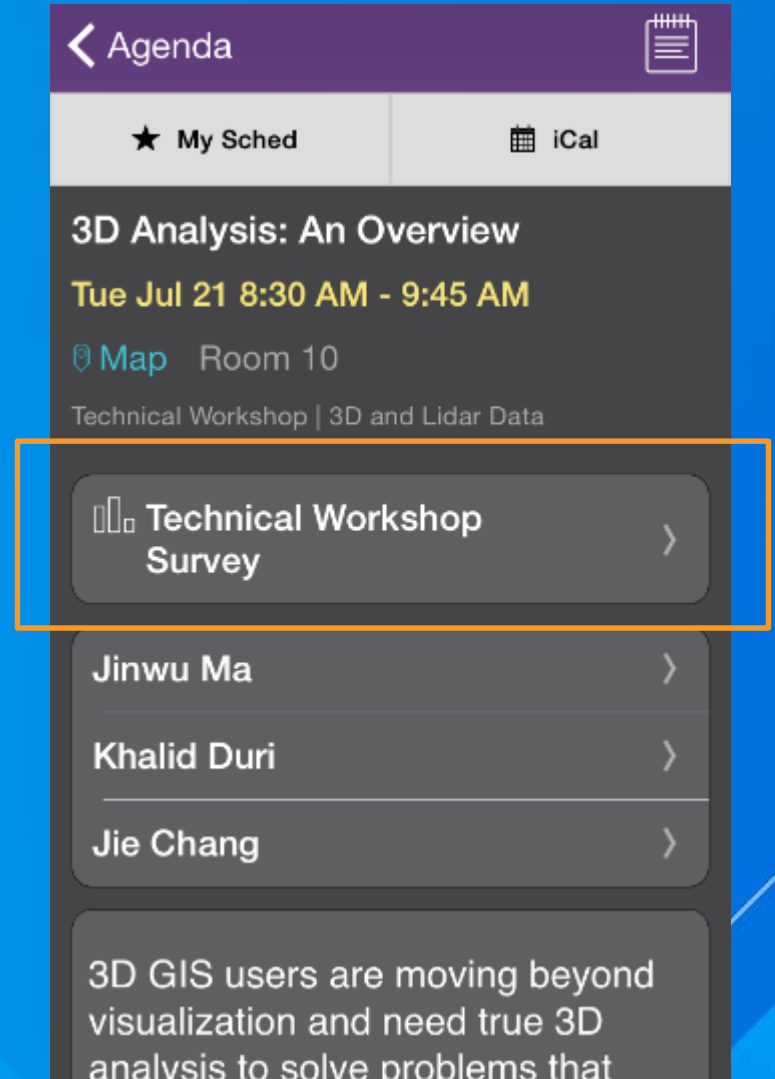


## Other Sessions

- **Portal for ArcGIS: An Introduction**
- **Portal for ArcGIS Administration**
- **ArcGIS for Server: Reference Implementations**
  - **Thur (1:30 - Room 01 A/B)**
  
- **Collector for ArcGIS: An Overview**
  - **Fri (9:00 - Room 03)**
  
- **ArcGIS Pro: Editing**
  - **Fri (9:00 - Room 04)**

# Thank you...

- Please fill out the session survey in your mobile app
- Select [enter session title here] in the Mobile App
  - Use the Search Feature to quickly find this title
- Click “Technical Workshop Survey”
- Answer a few short questions and enter any comments







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