

Migrating ArcGIS Online and Enterprise Content



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What this session will be?

* Sharing based Esri Canada's experience

* Explanation of how content can be moved

* Discuss potential scenarios for each tool

* Discuss what you need to know

* Show examples of tools

What this Session Won't be?

* Not meant to be a deep dive

* Migration for every item type

* Provide the "best tool" for a specific job

* A training course

Expectations

Introduction to Migrating Content

* What is content migration?

* How do we plan our migration?

* What are these items being migrated?

Development Tool

* Introduction ArcGIS Python API

* Planning your Migration

* Migrating Content

Non Development Tools

* Geo Jobe

* ArcGIS Online Assistant

* Distributed Collaboration





by Scott MacDonald Administration | May 3, 2018

Migrating to new machines without disrupting service is a common desire for ArcGIS Enterprise administrators. There are many reasons you may want or need to swap out a machine in your ArcGIS Enterprise deployment without changing anything else. Perhaps you're experiencing hardware performance issues, or you want to run a newer operating system. Today, we'd like to highlight a simple process to achieve this.

The Join Site operation in ArcGIS Server and Portal for ArcGIS is typically used to add a standby machine to a site for high availability and disaster recovery, protecting your ArcGIS What is Content Migration?



Ever tried moving a Jigsaw puzzle from one table to another?

What is Content Migration?

* Move the pieces of the application

* Repair relationships between services and data

* Repair relationships between web maps and services

* Repair relationships between web maps and applications

What Makes up An Application?

An application is composed of data, a web map and the application.

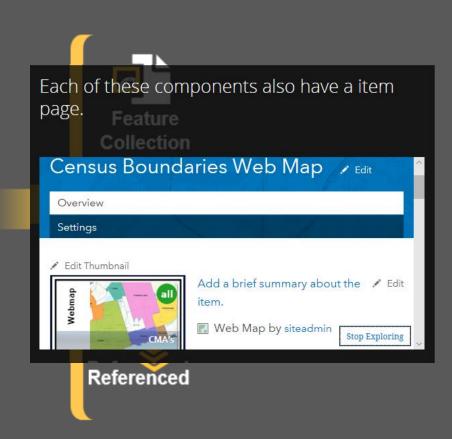




Web Map

Can be composed of:

- * Many web maps
- * Many services
- * Other media like photos and videos
- * Many Applications



Planning to Migrate then Consider...

* Should the Application be Migrated?

* Which tool(s) are best for this application?

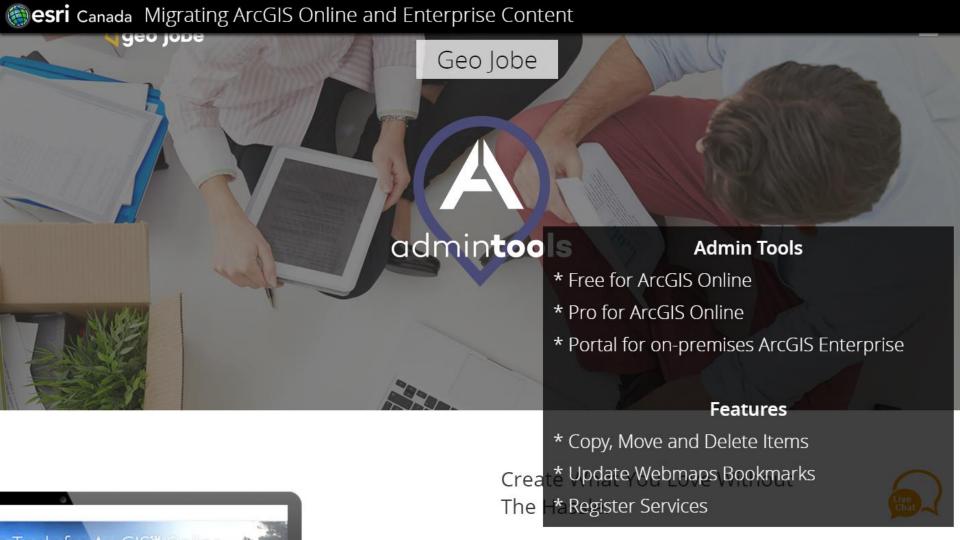
What other items does the application

* What manual process is required?

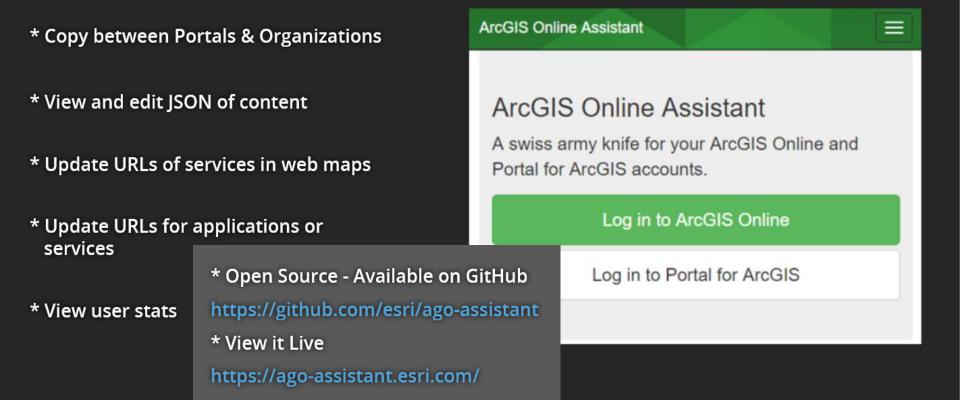
* What other items does the application reference?

Under the Hood of a Web Map

Non Development Tools

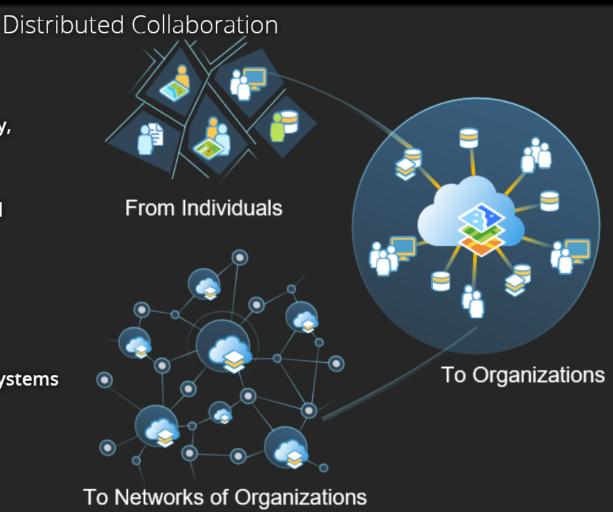


ArcGIS Online Assistant



Migrating with the ArcGIS Online Assistant

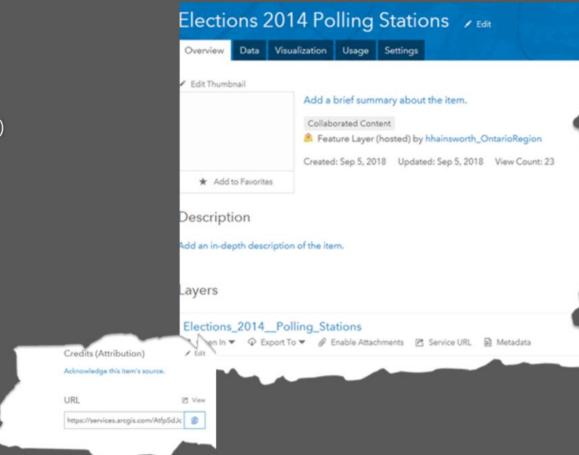
- * Establishes trust with other deployments to share data quickly, easily & repeatedly
- * Uses group sharing model to send content
- * Established between ArcGIS Enterprise and ArcGIS Online
- * Makes data discoverable across systems



Distributed Collaboration

Items that can be Shared?

- * Hosted feature layers
- * Hosted feature layer views (by reference)
- * Federated feature layers
- * CSVs, Word documents, Excel files
- * Shapefiles
- * Tile package, vector tile packages
- * Web maps and Web Scenes
- * Map and feature services (URLs)



Distributed Collaboration

New at 10.6.1

* Web AppBuilder apps



* Apps created from configurable app templates



Migrating an Internal Application to ArcGIS Online for Public Access with Collaboration

Development Tools



- * Python API to your Web GIS
- * Powerful, modern & easy use
- * Implemented using REST

ArcGIS Python API

Platform API

Power Users

Developers

Spatial Analysis

Imagery

Location Analytics

Analysts



Enterprise Integration



Administrators DevOps



Content Publishers





Script and automate your Web GIS

What can it do?

- * Determine item relationships
- * Inspect & update items with broken links
- * Update tiles & features from a known database
- * Automate content publishing during off peak hours
- * Replicate development content to production

Preparing and Migrating Content with the ArcGIS API for Python

Planning a Migration of Your Own

- * Assess the need for migration
 - * Understand the application and its dependencies
 - * Test the tools and determine the best tool for the specific job
 - * Don't be afraid of manual tasks
 - * Plan for the Gotchas!
- * Keep dynamic the platform is always evolving!

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Web Site References...

- Migrating to a New Machine: https://www.esri.com/arcgis-blog/products/arcgis-enterprise/administration/migrate-to-a-new-machine-in-arcgis-enterprise/
- Geo Jobe: https://www.geo-jobe.com/admin-tools/
- ArcGIS Online Assistant Live: https://ago-assistant.esri.com/
- ArcGIS Online GitHub: https://github.com/esri/ago-assistant
- ArcGS Python API: https://developers.arcgis.com/python/
- ArcGIS Python API Clone_Items: https://esri.github.io/arcgis-python-api/apidoc/html/arcgis.gis.toc.html?highlight=clone#arcgis.gis.ContentManager.clone_items

Web Site References Continued...

- JSON Lint: https://jsonlint.com/?json
- GitHub Clone Items Code: https://github.com/Esri/ago-clone-items
- Copy Content Sample: http://enterprise.arcgis.com/en/portal/latest/administer/windows/example-copy-content.htm
- ArcMap Publishing Support Article: https://support.esri.com/en/technical-article/000013575