What’s new ArcGIS for Server 10.1

The Services

Ismael Chivite
Derek Law
Powerful GIS capabilities

Delivered as Web services

To help solve real problems by real people
Agenda

• Publishing
• Services
  - Map services
  - Map caching
  - Geoprocessing services
  - Print services
  - Feature services
  - Other services
• Summary
Streamlined publishing of GIS Services

A unified publishing experience

Any service:
- Maps, Geoprocessing, Imagery…
- Locators, OGC, Feature…
- Custom…

Any Server:
- Linux, Windows
- On-premises or in the Cloud
Demo 1: Publish Services Copying Data
Demo 2: Publish Services Referencing Data
Should I copy or reference?

**Copy:**

- Easy! Always works
- Ideal when your Server has no access to your data
- Your data will be duplicated and managed by the server
- May not be practical if you copy very large datasets

**Reference:**

- The typical workflow you are used to
- More bullet-proof in 10.1: Enhanced analyzers!
- Ideal for imagery, databases and large files
- No duplication of data
Publishing services workflow

Author

Your Desktop

Analyze

Data Stores

Service Definition File

Publish

from Desktop (Demos 1 & 2)

Your Server

Stage

Publish

from Manager or script (Demo 3)
Map Services

- Dynamic layers
- Change geodatabase versions
- Improved querying: `OrderBy`, `SUM`, `Average`...
- New operations to support thematic mapping
Dissecting the Dynamic Layers Demo

Web Client

http

ArcGIS for Server

Map

The CSV file
Dissecting the Dynamic Layers Demo

Web Client

http

ArcGIS for Server

Map

Workspaces

The CSV file
Dissecting the Dynamic Layers Demo

Web Client
http
ArcGIS for Server
Map
Workspaces
Copy and index
The CSV file

GP
Dissecting the Dynamic Layers Demo

Web Client

http

ArcGIS for Server

Map

Dynamically Add/Join/Render

Workspaces

The CSV file
Map Caching

- More reliable
- Improved experience:
  - Defining the tiling scheme
  - Selecting the right image format
  - Estimating Cache Size
  - Tracking status of your job
- WMTS
Geoprocessing Services

- Significantly easier to publish
- Many new geoprocessing tools
- WPS

Improved
- Enables web applications to get a high cartographic quality printable map
- Uses layouts from Desktop
- Ideal for 8½” x 11” and 11” x 17” size hardcopies

Print Services

Web printing
Enhanced ArcPy.Mapping support

To support high quality printing workflows on the web

- Large hardcopy outputs (33” by 44”)
- Fine-grained control of ArcGIS Desktop Layouts
- Map books
- For Python developers
- New ConvertWebMapToDocument
Editor tracking
  - Keep track of what people do
Ownership-based editing
  - Control what people can do with the data
- Edit any geodatabase version
- Edit Zs and Ms
- Read-only Feature Services included with Basic Edition

Web editing workflows
• Now support tile caching
• Edit image service contents
  - Shared mosaic datasets support upload, update, & delete images
• Server-side raster functions
  - More on-the-fly processing can be exposed
• Image services based on categorical imagery
  - Attributes exposed to clients
    - E.g., Land cover types
Misc

- Schematics
- Network
- Server Object Extensions
• Thank you for attending
• Have fun at UC2012
• Open for Questions

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