Dienstearchitektur in ArcGIS Enterprise: Das WebGIS Pattern

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ArcGIS Enterprise | Server GIS vs. Web GIS

**Server GIS**

*Use of GIS services with custom front end applications*

**Web GIS**

*Pervasive use of web layers, scenes, and maps within all of the ArcGIS apps*

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**Users**

**App**

**Services**

**Data**

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**Users**

**Apps**

**Web Maps**

**Web Scenes**

**Web Layers**

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**Services**

**Data**
ArcGIS
Organizes and Manages All Aspects of Geographic Knowledge

Data, Information Products, Apps, Models . . .
. . . and People and Their Organizations
ArcGIS
Integrates All Types of Data

Creating a Common Language

Maps, Scenes, Layers

Imagery
Tabular
Unstructured
Vector
3D
Real-Time (IoT)
Big Data
Lidar

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**ArcGIS Online**

- Hosted by Esri (SaaS)
  - Upgraded automatically (by Esri)
  - Esri controls SLA

- Esri-provided content and services
  - Basemaps
  - Living Atlas
  - GeoEnrichment, Routing, ...

**ArcGIS Enterprise**

- In your own infrastructure (Software)
  - Upgraded by the organization
  - Organization controls SLA

- Advanced GIS functionality
  - GIS Server
  - Image Server (optional)
  - GeoEvent Server (optional)
  - GeoAnalytics Server (optional)
  - Notebook Server (optional)

Core Web GIS functionality
(Apps, visualization, smart mapping, analysis...)
Begin with ArcGIS Online & SaaS

ArcGIS Enterprise
Customer Managed Infrastructure
- On-premises
- Private Cloud
- Public Cloud (AWS, Azure, others)
- Managed Services

Begin with ArcGIS Enterprise & Software

ArcGIS Online
Basemaps & Content Services

ArcGIS Enterprise
ArcGIS Server
ArcGIS Enterprise
ArcGIS Enterprise
ArcGIS Enterprise
User Types | Match the way how your team works

Identity + Capabilities + Apps

View
Edit
Analyze
Create
Share
Administer

ArcGIS Enterprise

ArcGIS Online

Identity

Capabilities

Apps
User Types

- New licensing model for users beginning at 10.7
- Provides the much requested ‘intermediate level’ user
- Each user type has an identity, capabilities and included applications
- Match your licensing to your workflows
User Types | Summary

- **Viewer**
  *Formerly Level 1*

- **Editor**

- **Field Worker**

- **Creator**
  *Formerly Level 2*

- **GIS Professional**

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Using ArcGIS Enterprise
Upload CSV, Symbology, WebMap, Arcade
Styling Vectortiles
Using vector tiles in your applications

- Multiple ways to use vector tiles:
  
  - A) Use Esri provided vector tiles / styles
  
  - B) Style Esri vector tiles for your own use
    - Change colors
    - Drop layers
    - Match the needs of your application
  
  - C) Create your own vector tiles from your own data
Styling vector tiles

- **Simple Style Copy**
  - Save tile layer to Enterprise or Online account

- **ArcGIS Vector Tile Style Editor** now available in ArcGIS Online

- Two additional sample Vector Styling Apps simplify this:
  - Vector Style JSON Editor - GitHub
  - Vector Basemap Style Editor – GitHub
  - Mapstyler by Esri UK- GitHub
  - Hand editing JSON and uploading is also an option
Styling vector tiles
Demo
Vector Basemap Style Editor
Mapstyler
Demo
Sharing Content
with ArcGIS Enterprise
- View all content or a curated group
- Filters: Date Modified, Status
- Search
- Living Atlas tab (‘Esri Featured Content’) moved to Content page
- Tabs for Subsets
- Filters: categories, date modified, date created, shared, status
- Sort by date modified, title
- Display: grid, table, list
- Search
Groups

- Filters: date created, viewable by
- Sort by title, date modified, date created
- Search
Item level enhancements

- New item information bar
- Authoritative and deprecated badges

Encourage quality metadata

Promote quality items
Content categories

- A way to arrange and discover content based on organization-wide themes

- Categories allow members to organize items consistently and provide a simple way to browse content in the organization

- Use custom or template hierarchies

- Default administrator role or custom role with privilege ‘manage categories’
Questions ?