Overview

- Web GIS options with Esri
- Building a Base ArcGIS Enterprise Deployment
  - Overview of Base ArcGIS Enterprise Deployment & Key Concepts
  - ArcGIS Enterprise Builder
  - Administering and customizing your ArcGIS Enterprise
Web GIS Options with Esri

ArcGIS Online

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

Core Web GIS functionality
(Apps, visualization, smart mapping, analysis...)

ArcGIS Enterprise

- In your own infrastructure (Software)
  - Upgraded manually (by you)
  - You control your ArcGIS Enterprise SLA
ArcGIS Enterprise | Components

ArcGIS Web Adaptor

Portal for ArcGIS

ArcGIS Server

ArcGIS Data Store

ArcGIS Enterprise
ArcGIS Enterprise | Components

An Esri built application that integrates with your existing web server and appropriately directs network traffic for access to ArcGIS Enterprise.
Portal for ArcGIS

The web frontend and infrastructure backend that supports a user’s interaction and overall experience with your ArcGIS Enterprise.
ArcGIS Enterprise | Components

ArcGIS Server

Gives you the ability to publish services and share maps and layers from your own business databases.
ArcGIS Enterprise | Components

The ArcGIS managed data repository that stores the content that is hosted on the portal. It is not a replacement for your enterprise geodatabases.
ArcGIS Enterprise | Components

ArcGIS Web Adaptor

Portal for ArcGIS

ArcGIS Server

ArcGIS Data Store

Three Types:
- Relational
- Tile Cache
- Spatiotemporal
ArcGIS Enterprise | Components

ArcGIS Web Adaptor

Portal for ArcGIS

ArcGIS Server

ArcGIS Data Store

Three Types:

- Relational
- Tile Cache
- Spatiotemporal
ArcGIS Enterprise | Base Deployment Overview

1. Create portal
   Portal for ArcGIS

2. Create ArcGIS Server site
   ArcGIS Server

3. Register (Relational & Tile Cache)
   ArcGIS Data Store

4. Register
   ArcGIS Web Adaptor (portal)

5. Register
   ArcGIS Web Adaptor (server)

6. Federate
   ArcGIS Server with Portal for ArcGIS & set as Hosting Server

1. Create the portal
2. Create the ArcGIS Server site
3. Register the Data Store (Relational & Tile Cache)
4. Register the Web Adaptor for Portal for ArcGIS
5. Register the Web Adaptor for ArcGIS Server
6. **Federate** ArcGIS Server with Portal for ArcGIS & set as **Hosting Server**
Key ArcGIS Enterprise Concept: Federation

- Integrates security for Portal and Server
  - Portal user store controls access to the server
  - Services added as items in the portal
  - Sharing model controls access to services
    - Share with no one
    - Share with a group or the organization
    - Share with everyone
Key ArcGIS Enterprise Concept: Hosting server

- A server that hosts content published to the portal (copying data)
  - Requires a registered relational ArcGIS Data Store
- Needed for:
  - Standard analysis and GeoAnalytics
  - Publishing hosted layers
  - Batch geocoding
  - Adding shapefiles to a map
ArcGIS Enterprise Builder

- New at 10.5.1
- Simplifies the setup and configuration of a single machine ArcGIS Enterprise deployment
- Asks the minimum number of questions required to get a deployment up and running
Demo: Our setup

**webgis.esri.com**

Portal for ArcGIS

ArcGIS Web Adaptor (portal)

ArcGIS Server

ArcGIS Web Adaptor (server)

ArcGIS Data Store

Portal Home Page URL: [https://webgis.esri.com/portal/home/](https://webgis.esri.com/portal/home/)

Portaladmin URL: [https://webgis.esri.com/portal/portaladmin/](https://webgis.esri.com/portal/portaladmin/)

Services URL: [https://webgis.esri.com/server/rest](https://webgis.esri.com/server/rest)

Server Manager URL: [https://webgis.esri.com:6443/arcgis/manager](https://webgis.esri.com:6443/arcgis/manager)
Recap: Customizing your portal

- Customizing the home page
  - Updating the banner and background

- Updating the portal behavior
  - Configuring utility services
  - Configuring a custom basemap gallery

Customizing the portal website
Recap: Administering your portal

• Adding members
  - Built-in and enterprise users

  - Security and SSL certificates
  - Portal logs
Using the ArcGIS Enterprise – connecting to the portal

- Portal home app URL: https://webgis.esri.com/portal/home
- Client apps URL: https://webgis.esri.com/portal
  - ArcGIS Pro
  - ArcMap
  - ArcGIS Maps for Office
  - Collector for ArcGIS
Resources

  - Topic - "Tutorial: Set up a base ArcGIS Enterprise deployment"
  - Other subjects – Pro licensing, SSL certificates, upgrading

• Technical Support – https://support.esri.com

• Esri Showcase– ArcGIS Enterprise Area
Other sessions

• ArcGIS Enterprise: Architecting your Deployment
  - Wednesday July 12, 10:15 AM – 11:30 AM
    - Hilton Bayfront – Sapphire Ballroom
  - And Wednesday July 12, 1:30 PM – 2:45 PM
    - SDCC Room 09

• ArcGIS Enterprise Security: An Introduction
  - Tuesday, July 11, 10:15 AM – 11:30 AM
    - SDCC Room 16 B
  - And Thursday, July 13, 8:30 AM – 9:45 AM
    - SDCC Room 14 A

• Web GIS: Architectural Patterns and Practices
  - Tuesday, July 11, 10:15 AM – 11:30 AM
    - SDCC Room 04
  - And Thursday, July 13, 10:15 AM – 11:30 AM
    - Hilton Bayfront – Sapphire Ballroom A
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