ArcGIS Enterprise: Understanding the Components

Philip Heede
Bill Major
All of these components existed in the software pre-10.5
ArcGIS Enterprise | Server Roles

- ArcGIS GIS Server
- ArcGIS GeoEvent Server
- ArcGIS Image Server
- ArcGIS GeoAnalytics Server
ArcGIS Enterprise provides Web GIS in your infrastructure.

The Base ArcGIS Enterprise Deployment refers to the essential deployment pattern of the ArcGIS Enterprise software components that allow for a functional Web GIS.
A single machine deployment

A multitier deployment

Or a highly available deployment of any configuration.
ArcGIS Enterprise | Anatomy of Web GIS in Your Infrastructure

Set up as a GIS Server and configured as the **hosting server**, ArcGIS Server provides the layers, services, and horsepower required to power your Web GIS.
The web frontend and infrastructure backend that supports a user’s interaction and overall experience with your Web GIS.
The Esri managed data repository that stores the spatial content that has been shared to Portal.
ArcGIS Enterprise | Anatomy of Web GIS in Your Infrastructure

- ArcGIS Server
- Portal for ArcGIS
- ArcGIS Data Store
- ArcGIS Web Adaptor

- Relational
- Tile Cache
- Spatiotemporal
ArcGIS Enterprise | Anatomy of Web GIS in Your Infrastructure

ArcGIS Web Adaptor
An Esri built software load balancer that appropriately directs network traffic and serves as a reverse proxy for Web GIS access.
Self-service mapping and map service publishing

Bill Major
Introducing ArcGIS Enterprise

What is ArcGIS Enterprise?

Base ArcGIS Enterprise deployment

Tutorial: Set up a base ArcGIS Enterprise deployment

Additional server deployment

Base ArcGIS Enterprise deployment

ArcGIS 10.5 on Windows | Other versions

- Single-machine deployment
- Multitiered deployment
- Highly available deployment
- Scaling the base ArcGIS Enterprise deployment
Configurable apps
Configurable apps and custom analysis

- Key software components for configurable apps:
  - Base ArcGIS Enterprise deployment
  - Optional: Web AppBuilder (Developer Edition)
Self-service app creation with custom analysis

Bill Major
Advanced analytics
Advanced analytics – GeoAnalytics and Raster Analytics

• Key software components for GeoAnalytics:
  - Base ArcGIS Enterprise deployment
  - ArcGIS Server setup with GeoAnalytics Server license
  - ArcGIS Data Store setup as Spatiotemporal Big Data Store

• Key software components for Raster Analytics:
  - Base ArcGIS Enterprise deployment
  - ArcGIS Server setup with Image Server license
Additional server deployment

ArcGIS 10.5 on Windows | Other versions

- ArcGIS GIS Server
- ArcGIS Image Server
- ArcGIS GeoAnalytics Server
- ArcGIS GeoEvent Server

In addition to the base ArcGIS Enterprise deployment, you can add functionality and capacity to your site with additional servers. In the sections below, the base ArcGIS Enterprise deployment is represented with the following icon.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏛️</td>
<td>A base ArcGIS Enterprise deployment, which can be configured with a single machine or with multiple machines as described in the base ArcGIS Enterprise deployment help topic.</td>
</tr>
</tbody>
</table>
Advanced analytics – GeoAnalytics and Raster Analytics

**Feature Analysis - GeoAnalytics Tools**

Optionally choose a server to act as your portal’s GeoAnalytics Server. Enabling a GeoAnalytics Server allows you to perform big data analysis on feature and tabular data using distributed compute. Both a relational and spatiotemporal big data store must be configured with the portal’s hosting server before you can designate a GeoAnalytics Server.

**Raster Analysis**

Optionally choose one of your servers to act as your portal’s Raster Analysis Server.
Advanced analytics

Bill Major
## Next steps

More sessions

### Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>4:15 PM – 5:15 PM</td>
<td><strong>ArcGIS Enterprise:</strong> Portal Administration 147 A</td>
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### Tuesday

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<td><strong>ArcGIS Enterprise:</strong> Setting It Up 147 B</td>
</tr>
<tr>
<td>2:45 PM – 3:45 PM</td>
<td><strong>ArcGIS Enterprise:</strong> Portal Administration 147 B</td>
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Please Take Our Survey on the **Esri Events App**!

Download the Esri Events app and find your event

Select the session you attended

Scroll down to find the survey

Complete Answers and Select “Submit”
Print Your Certificate of Attendance
Print stations located in the 140 Concourse

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
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<tbody>
<tr>
<td>12:30 PM – 6:30 PM GIS Solutions Expo, Hall B</td>
<td>10:45 AM – 5:15 PM GIS Solutions Expo, Hall B</td>
</tr>
<tr>
<td>5:15 PM – 6:30 PM Expo Social, Hall B</td>
<td>6:30 PM – 9:30 PM Networking Reception, Smithsonian National Air and Space Museum</td>
</tr>
</tbody>
</table>