



ArcGIS Enterprise

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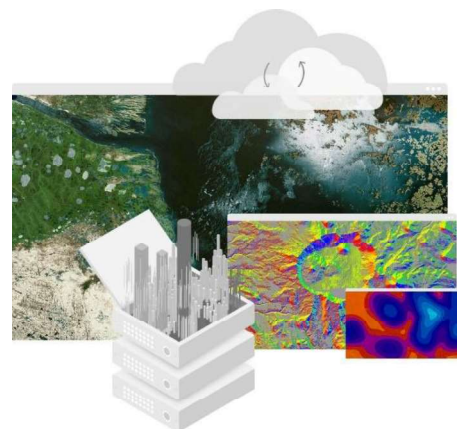
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ArcGIS Enterprise

ArcGIS Enterprise is your foundational GIS, providing data management, mapping and visualization, and analysis capabilities—from the simple to the complex. With ArcGIS Enterprise, you can create, edit, and share your data, and, as desired, make it available to any device, anywhere, at any time.

ArcGIS Enterprise runs on your infrastructure, whether in the cloud or on premises, and can be deployed to support high availability and disaster recovery.

Each deployment begins with what is called an ArcGIS Enterprise base deployment and can expand modularly to meet additional organizational needs. This may include support for imagery, real-time, big data, or data science workflows—the choice is yours.



With Portal for ArcGIS, you can:

- **Provide a user-friendly repository for geospatial content**—Portal for ArcGIS is designed to help users search for, discover, and access your geospatial resources. You can use a portal website to create, organize, secure, and manage your content and connect people with useful apps, maps, and geographic data. You can also configure your portal website to highlight featured content and apply a look and feel that fits your organization.
- **Create and share web maps using Web App Builder and Experience Builder** —Portal for ArcGIS includes lets you view, design, and publish web maps and 3D scenes in a web browser. These maps mash up data and services to deliver key information to the people who need it, through a visual format that is easy to interpret and understand. Because web maps are built using web services, you can access and share them across a range of configurable and custom apps on any device.
- **Deploy focused apps to support your workflows**—Portal for ArcGIS includes many apps that distribute geospatial data and tasks in simple, focused interfaces. These apps include integrations with enterprise business systems, data collection apps for smartphones (ArcGIS for Field Maps, Survey123, Quick Capture), Operations Dashboards that help you monitor your KPIs, and more. You can also quickly build and host your own web apps without any programming.
- **Collaborate within your organization**—You can use Portal for ArcGIS as a collaborative workspace to contribute to and draw from authoritative content. Users can create groups and invite others to work together on projects of common interest. Groups can be accessible across departments or kept within teams, and group members can share maps, data, and other content with each other efficiently and quickly. You can also connect

multiple portals to establish a distributed GIS that lets you securely share information across multiple organizations, departments, and geographic areas.

- **Control access to your geospatial resources**—Portal for ArcGIS acts as the central node of the ArcGIS platform, controlling access to items across all ArcGIS clients. You can use Portal for ArcGIS to protect sensitive information, make relevant content accessible to specific users, and meet your organization’s security and privacy needs.

Software components of ArcGIS Enterprise

ArcGIS Enterprise is comprised of four software components



Portal for ArcGIS: The component that powers the ArcGIS Enterprise portal, the front-end interface where users create, manage, organize, and share maps, apps, data, and information.

The ArcGIS Enterprise portal brings together all of your geographic information and shares it throughout your organization. With it, you can:

- Create, save, and share web maps and scenes.
- Create and host web mapping apps.
- Search for GIS content within your organization.
- Create groups to share GIS information with colleagues.
- Share links to GIS apps.
- Share map and layer packages to use in ArcGIS Pro or ArcGIS Desktop.

ArcGIS Server: The engine that powers your GIS services and processes user requests such as zooming into a map, finding a location, running an analysis tool, etc. ArcGIS Server can also be licensed to unlock additional capabilities for imagery, big data, real-time data, and more.

ArcGIS Server is a back-end server software component of ArcGIS Enterprise that makes your geographic information available to others in your organization and, optionally, anyone with an internet connection. This is accomplished through GIS services, which allow a server computer to receive and process requests for information sent by other devices.

To get started with ArcGIS Server, you'll need to prepare your hardware, software, and data before you can begin publishing services. Then, you can use various types of applications to consume your services.

ArcGIS Data Store: A data repository, fully managed by ArcGIS, that provides storage for hosted layers and 3D scene caches. ArcGIS Data Store is an application that allows you to configure data storage for the hosting server used with ArcGIS Enterprise. If you are not a database expert, ArcGIS Data Store provides you with a convenient setup and configuration experience that creates the following types of data stores.

- Relational - Stores your organization's hosted feature layer data
- Tile cache - Stores caches for hosted scene layers.
- Spatiotemporal - Archives real-time observational data
- Object store - Stores caches of query responses for layers in hosted feature layers.

ArcGIS Web Adaptor: An Esri built software load balancer that appropriately directs network traffic, serves as a reverse proxy, and enables web-tier authentication such as IWA and PKI.

- Integrate ArcGIS Server with your organization's existing web server. By including a web server in your site, you can host web applications that use your GIS services.
- Provide a single endpoint that distributes incoming requests to the ArcGIS Server machines in your site.
- Make your ArcGIS Server available through your organization's standard website and port. Use the Web Adaptor if you don't want users to see the default port, 6080, or the default site name, arcgis.
- Block the ArcGIS Server Administrator Directory and ArcGIS Server Manager from the view of external users.
- Prevent ArcGIS Desktop users from establishing administrative or publisher connections to ArcGIS Server.

Functionality of the base deployment

A base deployment of ArcGIS Enterprise provides many capabilities, including the ability to:

- Map, visualize, and spatially analyze data in a browser.
- Manage, organize, tag, and categorize all your organization's content.
- Publish map services, feature services, and geoprocessing services, with content referencing a user managed data source, such as an enterprise geodatabase or file-based data (file geodatabases, shapefiles, etc.).
- Leverage hosted layers to do self-service mapping and analysis.
- Share and collaborate on data, maps, and apps with members of your organization, as well as other ArcGIS Enterprise deployments and ArcGIS Online.
- Build and tailor websites and pages using ArcGIS Enterprise Sites to provide users a customized gateway to access data, maps, and apps.

- Tell your story through customized applications built using Story Maps, Web AppBuilder, and other configurable web application templates.
- Use GIS services in custom apps that you build using the ArcGIS API for JavaScript and ArcGIS Runtime SDKs.
- Access and utilize a rich collection of Esri provided data from the Living Atlas.

ArcGIS App Bundles

ArcGIS Web AppBuilder

ArcGIS Web AppBuilder is an intuitive what-you-see-is-what-you-get app that allows you to build web apps without writing code. With Web AppBuilder, you can build and customize apps that run on desktop, tablets, and smartphones with ready-to-use widgets such as querying, geoprocessing, and printing.

Experience Builder

ArcGIS Experience Builder provides you with a new way of creating web experiences. Its mobile-adaptive design helps you build compelling web applications. Create web apps and pages, design your own templates by performing an easy drag-and-drop operation, and integrate 2D and 3D - no coding required. Like ArcGIS Web AppBuilder, ArcGIS Experience Builder requires the Creator user type or higher to create apps. Experience Builder is available in 3 editions: online, enterprise, and developer.

ArcGIS apps for the field

ArcGIS Field Maps:

ArcGIS Field Maps is a new app that allows you to streamline field workflows and take maps anywhere. Mobile workers can use Field Maps to explore the maps you make in ArcGIS, collect and update data, and track their location-all from one app. Field Maps empowers mobile workers to take their maps anywhere, including offline and indoors-and it allows you to deploy maps and content to a single location. For more information, find out what's new in ArcGIS Field Maps.

ArcGIS Dashboards:

ArcGIS Dashboards allows you to monitor people, services, assets, and events in real time. Using Dashboards, you can create and share dashboards with your ArcGIS Enterprise portal. Dashboards include charts, gauges, maps, and other visual elements representing the activities and key performance indicators that are most vital to meeting your objectives.

ArcGIS QuickCapture:

ArcGIS QuickCapture is a field data capture app that allows you to capture data fast. You can capture the location and attributes of assets or incidents as you travel. A project author determines

the arrangement of buttons, how they appear, and the information they collect. The app allows you to capture photos and sensor information from the device.

ArcGIS Survey123:

ArcGIS Survey123 facilitates form-centric data collection workflows in ArcGIS. For a good portion of data collection efforts, geography is critical but not central to the workflow. ArcGIS Survey123 recognizes this fact and brings the sophistication of forms expected in the industry into ArcGIS.

User Type

Our organization consists of users with different needs. You have ArcGIS Enterprise users who only need to view data. You have users that go a step beyond and need to edit features. You have staff in the field doing data collection on your maps and information. And, you have power users who publish and create content, run analysis and even administer your deployment.

You may have one, two, or all of these. Regardless, you need flexibility on the way you license your users.

User types are the new licensing model for your ArcGIS Enterprise users. With user types, you can match your organization’s workflows and license users as any one of the five general-purpose types: Viewers, Data Editors, Field Workers, Creators and GIS Professionals.

Capability	ArcGIS GIS Server Standard	ArcGIS GIS Server Advanced
Share 3D services and embed 3D analysis tools	Not available for purchase	Included
Serve geostatistical models	Not available for purchase	Included
Share/Embed Spatial Analyst tools and services	Not available for purchase	Included
ArcGIS Defense Mapping extension	Not available for purchase	Included

Share 3D services and embed 3D analysis tools

ArcGIS Server Advanced edition includes 3D data analysis and surface generation capabilities.

- Interact with 3D data to gain insights that aren't possible in 2D. Visualize raster, vector, and lidar data for 3D feature, terrain, subsurface, and volumetric views.

- Analyze GIS data in true 3D space with tools that perform complex surface, volumetric, and visibility analyses, including analyzing terrain, modeling subsurface and atmospheric features, and optimizing site selection.
- Create advanced tools and models from your ArcGIS 3D Analyst extension for Desktop and use your GIS Server to share those services to desktop, mobile, and web apps.

Serve geostatistical models

ArcGIS Server Advanced edition can share statistically valid prediction services for GIS modeling and visualization.

- Use statistical models to create random training or testing data subsets that can help you identify data anomalies, explore your spatial data, and generate more precise results.
- Examine real-world issues including atmospheric data analysis, petroleum and mining exploration, environmental analysis, precision agriculture, and fish and wildlife studies.
- Create advanced tools and models from your ArcGIS Geostatistical Analyst extension for Desktop and use your GIS Server to share those services to desktop, mobile, and web apps.

Share/Embed Spatial Analyst tools and services

ArcGIS Server Advanced edition comes with advanced raster data analysis and surface generation capabilities from Spatial Analyst

- Spatial Analyst provides more than 150 tools and functions that you can embed in your web apps for on-the-fly analysis, including suitability modeling, distance and direction calculations, and hydrologic modeling.
- You can create advanced tools and models in ArcGIS Spatial Analyst 10.8.2 for Desktop and use your GIS Server to share those services to desktop, mobile, and web apps

USER TYPES INCLUDED WITH INITIAL PURCHASE

ArcGIS ENTERPRISE EDITION/LEVEL	CREATOR USER TYPE	VIEWER USER TYPE
ArcGIS Enterprise Standard	5	Unlimited
ArcGIS Enterprise Advanced	50	Unlimited