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GUIDE OVERVIEW

Esri Training Courses

ArcGIS Enterprise puts collaboration and flexibility at the center of your organization's GIS. It pairs industry-leading mapping and analytics capabilities with a dedicated Web GIS infrastructure to organize and share your work. This guide contains various resources available through Esri to help you learn the components of ArcGIS Enterprise, how to set up and manage ArcGIS Enterprise, ArcGIS Server licensing roles, the security model, system monitoring and more.

Instructor-Led

Instructor-led courses range from 1 to 3-day events. Classes are offered both at our Esri training centers or through our online classroom in several time zones. Organizations with larger teams may opt for private site training. For more information, click on the links below:

- Modern <u>training classrooms</u> throughout the United States
- Our online classroom lets you attend from your own desk
- A private training event focused on your team and your workflows can be held at our location or yours.

To prepare for attending an ONSITE instructor-led event, please review these two videos: <u>Preparing to Attend Esri Instructor-led Training & Using Esri's Digital Materials</u>

To prepare for attending an ONLINE instructor-led event, please review these two videos: <u>Preparing to Attend an Esri Instructor-Led Online Training Class</u> & <u>Using Esri's Digital Materials</u>

E-Learning

Options for **self-paced e-Learning** through web courses, seminars and tutorials are also listed in this document. All Esri customers with a qualifying product current on maintenance have unlimited access to these resources.

Training seminars are recorded presentations (initially offered live) that include software demonstrations on various solutions. To receive email notifications on upcoming seminars, go to: Update My Esri Subscriptions - click the (+) sign next to "Training" and select "Live Training Seminar Notifications" along with any other training feeds you wish to receive.

Web courses include:

- Demonstrations and interactive activities
- Conceptual material
- Course exams to assess learning
- Certificate of Completion

Videos from the Annual Esri User Conference and Developer Summit are included when available.

Tutorials are offered through both our product help pages and our guided lessons page for real-world problems. Most lessons require membership in an ArcGIS organization.

As this is not a complete list of all learning options available, please visit Esri Academy, our primary source for all training needs: https://www.esri.com/training/

GETTING STARTED

Get Started with ArcGIS Enterprise

The following documents may be downloaded to help get you started with ArcGIS Enterprise:

ArcGIS Common Patterns of Use
Architecting the ArcGIS Platform: Best Practices (Dec 2018)
ArcGIS Enterprise Quick Start Guide
ArcGIS Online Implementation Guide
Migrating Standalone ArcGIS Server to ArcGIS Enterprise
ArcGIS Enterprise 10.7 Functionality Matrix

Training Seminar: Explore the World of ArcGIS Enterprise - This seminar discusses essential concepts that underlie a modern Web GIS supported by an ArcGIS Enterprise deployment. Anyone who wants to understand server-based GIS and related IT concepts will find this seminar of interest. Desktop users and managers who sense untapped potential in their organization's GIS implementation will also benefit (September 2017).

Video: ArcGIS Enterprise: An Introduction (UC 2018 Technical Workshop)

ArcGIS Enterprise provides you with GIS functionality to map, analyze, and manage geospatial content and location-enabled data through a Web GIS deployed on your infrastructure. Whether you are just starting out with the product, or interested in learning more, this session is for you. Topics covered range from an overview of the base deployment to product functionality.

Esri Website: What is ArcGIS Enterprise?

This page provides an overview of ArcGIS Enterprise, including supported environments, software components, licensing, and server roles.

Install & Deploy ArcGIS Enterprise

This course is for staff responsible for the set up and deployment of ArcGIS Enterprise. The course includes best practices for installation and configuring authentication for the organization.

ARCGIS ENTERPRISE: CONFIGURING A BASE DEPLOYMENT

Instructor-led: 2 days

Learn how to install and configure an ArcGIS Enterprise base deployment to enable individuals to securely access, create, and share geospatial resources to boost collaboration and gain location-based insights. You will learn how to license and install the four software components of a base deployment and ensure system security and performance. Esri will provide ArcGIS Enterprise 10.6 (Standard or Advanced) & ArcGIS GIS Server.

This course is designed for: GIS Technical Leads, System Administrators and Web Administrators - anyone tasked with supporting the deployment of ArcGIS Enterprise.

Learn how to:

- Install ArcGIS Server, Portal for ArcGIS, ArcGIS Data Store and ArcGIS Web Adapter
- Configure an ArcGIS Enterprise portal to manage users, groups, and content sharing privileges
- Apply HTTP certificates to support encrypted communication
- Configure a suitable authentication method for your organization's needs.

E-Learning for ArcGIS Enterprise Installation and Deployment

<u>Esri Website: ArcGIS Enterprise Installation Guides</u> - These guides provide detailed instructions for installing and configuring ArcGIS Enterprise as a base deployment or as individual components. System requirements, uninstall procedures, and troubleshooting guidance for common installation issues are also included.

Video: ArcGIS Enterprise: Architecting Your Deployment (Dev Summit 2017)

Architecting your ArcGIS Enterprise deployment does not have to be difficult. This session covers the fundamentals of architecting the base ArcGIS Enterprise deployment. It will lead you through more complex deployment scenarios that include the new capability-based ArcGIS Server roles. This session aims to set you up for success with best practices and helpful tips.

<u>Video: ArcGIS Enterprise: Best Practices for Layers and Service Types</u> (UC 2018 Technical Workshop)

This session covers publishing strategies using ArcGIS. It includes technical details to help you understand the underlying service types, web layers, and information products. After attending this session, you will have a better idea of how each of the service types in ArcGIS Enterprise work together to optimize your applications and publication workflows.

<u>Tutorial: Get Started with ArcGIS Enterprise Builder</u> - In this lesson, you will perform the steps for setting up an ArcGIS Enterprise base deployment with ArcGIS Enterprise Builder. First, you will install the components on your computer. Then, you will configure Portal for ArcGIS to complete the setup.

<u>Tutorial: Set up a base ArcGIS Enterprise deployment</u> - This tutorial provides an overview of setting up a single machine <u>base ArcGIS Enterprise deployment</u>. This configuration is commonly used for testing and prototyping purposes. It enables self-service mapping and can be used with ArcGIS Pro, ArcMap, and other client applications.

Training Seminar: Get Started with ArcGIS Enterprise Sites - Using ArcGIS Enterprise Sites, you can create a tailored experience that supports easy discovery of maps, apps, and other content shared to an ArcGIS Enterprise portal. In this seminar, the presenters provide an overview of Sites options, share design tips and tricks, and guide you through the steps to build intuitive web pages that reflect your organization's branding and support users of all experience levels.

E-Learning for ArcGIS Online Installation and Deployment

<u>Preparing to Implement ArcGIS Online</u> - An ArcGIS Online organizational site facilitates collaboration and easy access to GIS data, maps, and apps across your organization. This course presents a three-step planning process to align your ArcGIS Online organizational site with your business needs and key workflows.

<u>Tutorial: Set up an ArcGIS Organization</u> - You've been tasked with administering an ArcGIS organization, but you don't have a technical background. In this lesson, you'll complete a basic ArcGIS Online site configuration. You'll customize the home page, share content, and add members with limited privileges. You'll also budget credits for members and assign them licenses to use ArcGIS apps.

ADMINISTRATION

Administer & Maintain ArcGIS Enterprise

This course is for staff responsible for the administration of ArcGIS Enterprise.

ARCGIS ENTERPRISE: ADMINISTRATION WORKFLOWS

Instructor-led, 3 days

This course is designed to help staff master techniques to configure and maintain an ArcGIS Enterprise solution that meets the organization's business needs. You will learn about ArcGIS Enterprise architecture, server licensing roles and extensions, and the capabilities that support common GIS patterns of use. Best practices to manage servers, data, and services while ensuring system performance over time are covered. Esri will provide ArcGIS Enterprise 10.6.1 (Advanced), ArcGIS GeoEvent Server, ArcGIS Image Server, and ArcGIS Pro 2.2 (Advanced).

This course is designed for: GIS Technical Leads, System Administrators and Web Administrators - anyone tasked with configuring and maintaining ArcGIS Enterprise.

Learn how to:

- Apply best practices to configure GIS resources, services, and caches
- Use scripts to automate common administrative functions
- Configure distributed collaboration between multiple ArcGIS Enterprise portals
- Maintain system performance using workload separation and other best practices.

ArcGIS Online Administration

<u>Esri Website: ArcGIS Online Help - Configure Website</u> - As an administrator of an organization, you can configure your ArcGIS Online website to showcase the geographic information that's important to the organization.

<u>Esri Website: Setup ArcGIS Online enterprise logins</u> - Configuring enterprise logins allows members of your organization to sign in to ArcGIS Online using the same logins they use to access your enterprise information systems.

Portal for ArcGIS Administration

<u>Esri Website: About configuring portal authentication</u> - The primary factor you should use to determine how you configure security in your Portal for ArcGIS deployment is the source of users and, optionally, groups for your portal.

SECURITY AND MONITORING

ArcGIS Enterprise Security & Monitoring

Video: ArcGIS Enterprise Security (Dev Summit 2017)

This session shares best practices for securing your ArcGIS Enterprise deployments. Presenters dive into how you can secure your systems to ensure the confidentiality, integrity, and availability of your system. Familiarity with basic security concepts (users, roles, groups, and permissions) is assumed.

Video: ArcGIS for Server Security: An Introduction (UC 2016 Technical Workshop)

Learn the basics of ArcGIS for Server security, including Portal for ArcGIS, that every ArcGIS for Server administrator needs to know. You will be exposed to security concepts, including users, roles, permissions, and encryption. See demonstrations to set up and configure security across your ArcGIS for Server site and Portal for ArcGIS deployment to protect your items and services.

Video: A Practical Guide to ArcGIS Online Security (Dev Summit 2018)

This session will highlight the portal information model used in ArcGIS Online and how security is integrated with this model. The different authentication options will be covered along with an in-depth review of how to configure ArcGIS Online to use a SAML identity provider. This session will also review the security options available for an organization.

ArcGIS Monitor: An Introduction (UC 2018 Technical Workshop)

ArcGIS Enterprise administrators require effective monitoring solutions to meet the growing demand for feature-rich, highly available and performing ArcGIS solutions. In this session, learn how to configure the ArcGIS Monitor product to diagnose the root causes of performance, uptime, and infrastructure problems.

OTHER SERVER ROLES

Image Server, GeoAnalytics Server, GeoEvent Server and Business Analyst Server

Add more capabilities to the base ArcGIS Enterprise deployment by licensing additional server roles:

- <u>ArcGIS Image Server</u> publishes image services for on-the-fly visualization and performs distributed analytics on raster data.
- ArcGIS GeoAnalytics Server performs distributed analytics on large volumes of tabular and feature data.
- <u>ArcGIS GeoEvent Server</u> integrates real-time event-based data streams, as from Internet of Things sources, into your GIS.
- <u>ArcGIS Business Analyst Server</u> hosts Business Analyst capabilities for advanced geo-enrichment and location-driven market insights.

Video: Big Data and ArcGIS: An Introduction to ArcGIS GeoAnalytics Server (Dev Summit 2017)

Summarize and analyze large spatiotemporal datasets with GeoAnalytics toolsets. Learn what tools are available and how you can take advantage of the processing power of multiple machines in your ArcGIS Enterprise.

ArcGIS GeoEvent Server: An Introduction (UC 2018 - Technical Workshop)

ArcGIS GeoEvent Server expands the capabilities of ArcGIS Enterprise. It enables organizations to connect with virtually any type of streaming data and automatically alert personnel when specified conditions occur, all in real time. This session will introduce how you can incorporate real-time information streams with your existing GIS data and IT infrastructure.

ADDITIONAL RESOURCES

Scripting & Development for ArcGIS

<u>Web Course: Introduction to ArcGIS API for Python</u> - Use the power of ArcGIS in the Python ecosystem using ArcGIS API for Python. This course introduces numerous spatial capabilities available in ArcGIS API for Python.

<u>Web Course: Administering Content Using ArcGIS API for Python</u> - Learn how to use ArcGIS API for Python to administer content in your portal. In this course, you will be introduced to the API's objects and methods for managing an organization's groups and content.

Esri Press





Getting to Know Web GIS, 3rd edition; ISBN: 9781589485211; 486 pages; publish date July 2018; \$94.99

The ArcGIS Book: 10 Big Ideas About Applying the Science of Where; ISBN: 9781589484870; 172 pages; publish date 2017; \$19.99 or interact with

The ArcGIS Book online; The ArcGIS Book

Social Networking

<u>GeoNet - The Esri Community</u> -- Search ArcGIS Enterprise, ArcGIS Portal, ArcGIS Online for content

ArcGIS Blog - Enterprise Articles