

Training the GIS Professional

ArcGIS Enterprise: Administration Workflows - 3 days

Overview

Essential concepts for enterprise administrators.

Master techniques to configure and maintain an ArcGIS Enterprise solution that meets your organisation'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.

Who should attend

- GIS Technical Leads
- System Administrators
- GIS Managers

Goals

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

Prerequisites

Completion of ArcGIS Enterprise: Configuring a Base Deployment or equivalent knowledge

Contact Us

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Topics Covered

- Business needs and ArcGIS Enterprise solutions: Mapping needs to a system deployment, architecting the ArcGIS Platform: best practices, common GIS use patterns, understanding infrastructure, expanding capabilities, using the ArcGIS Enterprise functionality matrix, business needs and ArcGIS Server licensing roles.
- Adding capability through federation: Base ArcGIS Enterprise deployment, federating additional server sites, considerations for federating additional server sites.

Topics Covered Cont.

- Ensuring resilient scaling through distributed computing: High availability, workload separation, workload separation by server capability, optimising your deployment, ArcGIS Monitor.
- Web service fundamentals: Service fundamentals, comparing services and web layers, User-managed and ArcGIS-managed data.
- User-managed data: Types of user-managed data, referencing registered data, Branch versioning.
- Optimising services that reference user-managed data: When to use shared services, exploring service instances, troubleshooting common service performance issues, reviewing ArcGIS Server logs.
- ArcGIS-managed data: ArcGIS Data Store functions and types, hosted and non-hosted services, ArcGIS Data Store command utilities, ArcGIS Data Store backups.
- Optimising services that use ArcGIS-managed data: Services that use or interact with ArcGIS-managed data, optimising hosted feature services, distributed data enabling distributed analysis.
- The spatiotemporal big data store: Understanding the spatiotemporal big data store, ArcGIS Enterprise and the spatiotemporal big data store, how the spatiotemporal big data store relates to other ArcGIS Enterprise components.
- Configuring a real-time analysis solution: Real-time data, working with real-time data, what is a geoevent, configuring real-time analytics, build a GeoEvent service in GeoEvent Manager.
- Distributed collaboration: Patterns of distributed collaboration, sharing content in a collaboration, creating and managing a distributed collaboration.
- Automating ArcGIS Enterprise: Automation strategies, configuring webhooks, using the ArcGIS API for Python to automate workflows, automating notebook execution.