

Administering ArcGIS for Server Hussein Nasser - Unleash the Power of Spatial Data

Welcome to the ultimate guide on administering ArcGIS for Server, brought to you by Hussein Nasser, a renowned expert with years of experience in the GIS industry. In this comprehensive article, we will explore the ins and outs of ArcGIS for Server and dive into the various components and functionalities it offers. Whether you're a GIS professional, an IT administrator, or a curious learner, this guide will equip you with the knowledge and skills needed to effectively manage and utilize ArcGIS for Server.

Chapter 1: to ArcGIS for Server

ArcGIS for Server is a powerful mapping and geospatial analysis platform developed by Esri, a global leader in GIS technology. It allows organizations to create, publish, and manage GIS services that can be accessed and shared by users within the organization or even over the internet. With ArcGIS for Server, you can leverage the power of spatial data to address complex geospatial challenges and make informed decisions.

In this chapter, we will explore the key features and benefits of ArcGIS for Server and understand how it can revolutionize your GIS workflows. We will also discuss the various editions and licensing options available, ensuring you choose the right configuration for your organization's needs.

Administering ArcGIS for Server

by Hussein Nasser(Kindle Edition)

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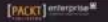
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Administering ArcGIS for Server

Installing and configuring ArcGIS for Server to publish, administer, and secure GIS services

Reviewed by Andrew Chinn, Cambridge, UK

Hussein Nassar



Chapter 2: Installing and Configuring ArcGIS for Server

In this chapter, we will walk you through the process of installing and configuring ArcGIS for Server. From system requirements to software installation and post-installation configurations, every step will be covered in detail. We will also address important considerations such as security measures and scalability to ensure a robust and optimized server environment.

Chapter 3: Creating and Publishing GIS Services

One of the key strengths of ArcGIS for Server is its ability to create and publish GIS services. In this chapter, we will explore the various types of services that can be created, such as map services, geoprocessing services, and image services. We will guide you through the process of creating these services, configuring their properties, and publishing them for use by clients and applications.

Moreover, we will delve into the concept of web maps and web applications, illustrating how you can leverage ArcGIS for Server to create interactive and dynamic mapping applications that can be accessed through a variety of devices and platforms.

Chapter 4: Managing, Securing, and Monitoring GIS Services

Once your GIS services are up and running, it is crucial to efficiently manage, secure, and monitor them. In this chapter, we will discuss the various administrative tasks associated with ArcGIS for Server. This includes managing user roles and permissions, implementing security measures such as SSL certificates and federated authentication, and monitoring server performance using built-in tools and third-party integrations.

We will also explore advanced topics such as load balancing, high availability, and disaster recovery, empowering you to design a robust and resilient GIS infrastructure.

Chapter 5: Integrating with ArcGIS Online and Portal for ArcGIS

ArcGIS for Server seamlessly integrates with other Esri technologies such as ArcGIS Online and Portal for ArcGIS. This integration allows for enhanced collaboration, data sharing, and enterprise-level GIS workflows. In this chapter, we will guide you through the process of integrating your ArcGIS for Server deployment with these platforms, enabling you to harness their full potential and leverage the extensive ArcGIS ecosystem.

Chapter 6: Best Practices and Troubleshooting

In this final chapter, we will share valuable best practices for administering ArcGIS for Server and provide troubleshooting tips for common issues you might encounter. From performance optimization techniques to backup and recovery strategies, this chapter will equip you with the necessary tools to keep your ArcGIS for Server deployment running smoothly.

With this comprehensive guide in your possession, you are ready to take on any GIS challenge and unlock the full potential of ArcGIS for Server. So, don't

hesitate. Dive in and embark on this exciting journey with Hussein Nasser as your guide. Get ready to revolutionize your GIS workflows and unleash the power of spatial data!



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Installing and configuring ArcGIS for Server to publish, optimize, and secure GIS services

About This Book

- Configure ArcGIS for Server to achieve maximum performance and response time
- Understand the product mechanics to build up good troubleshooting skills
- Filled with practical exercises, examples, and code snippets to help facilitate your learning

Who This Book Is For

If you are a GIS user, analyst, DBA, or programmer with a basic knowledge of ESRI GIS, then this book is for you.

What You Will Learn

- Design the architecture of ArcGIS for Server to meet your organization's requirements
- Consume GIS services from multiple cross-platform endpoints including mobile and tablet for field users
- Optimize ArcGIS for Server to make it run efficiently and effectively
- Acquire troubleshooting skills by understanding how the technology mechanics work
- Learn the concept of web services and the various types of GIS services available in ArcGIS for Server

In Detail

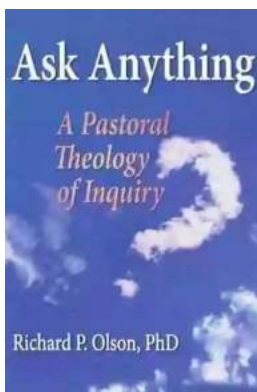
ArcGIS for Server is a new technology that has been developed to bring geographically-enabled information from multiple sources into one single platform and make it available for sharing services. Server supports many types of services, and the beauty of this technology is that it has an edge over other products, as the source of information can be directly plugged into Server without the need to change or migrate the existing infrastructure.

Administering ArcGIS for Server teaches you the mechanics of ArcGIS for Server, equipping you with the skills to not only install and configure Server, but to do it efficiently to achieve effective results. You will also learn how to plan, analyze, design, and finally publish and consume GIS services from various platforms including mobile and tablets.

We start by installing Server and authoring and consuming GIS services. We then move on to planning services before showing you how to optimize, secure, and debug them.

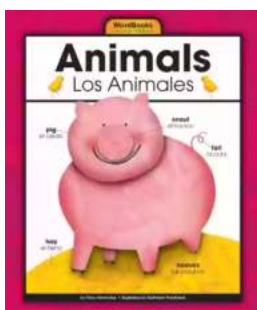
One of the hot topics in this book is the optimizing of GIS services, which will help you manage resources efficiently. You will also learn how to apply multiple security mechanisms on ArcGIS for Server and safely expose the services to the public in a secure manner.

Administering ArcGIS for Server will help you prepare a robust Server infrastructure for your organization.



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