



Esri International Developer Summit
Palm Springs, CA

Introduction to Portal for ArcGIS

Derek Law – Product Management
March 12, 2014

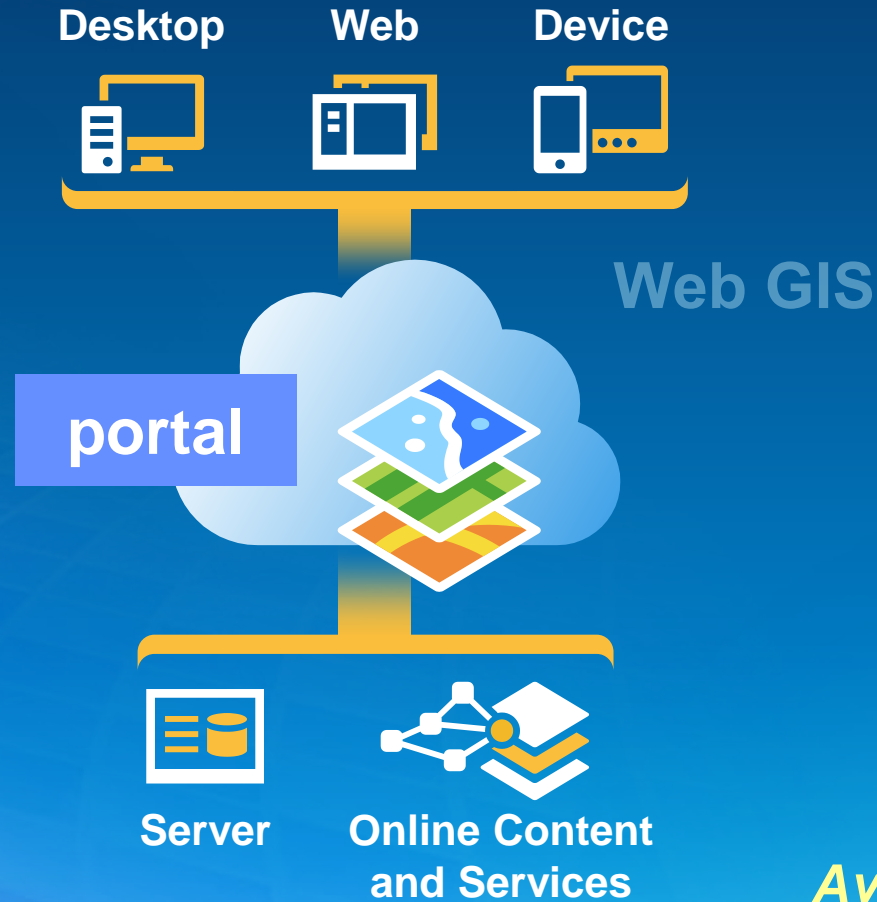
Agenda

- **Web GIS pattern**
- **Product overview**
- **Installation and deployment**
- **Security and groups**
- **Configuration options**
- **Portal for ArcGIS + ArcGIS for Server**
- **Implementation suggestions**
- **Summary**

ArcGIS Is a Platform

Enabling GIS Everywhere

Simple
Integrated
Open



*Available in the Cloud . . .
. . . and On-Premises*

Organize your maps and apps



enable discovery

More apps



Operations Dashboard for ArcGIS



Collector for ArcGIS



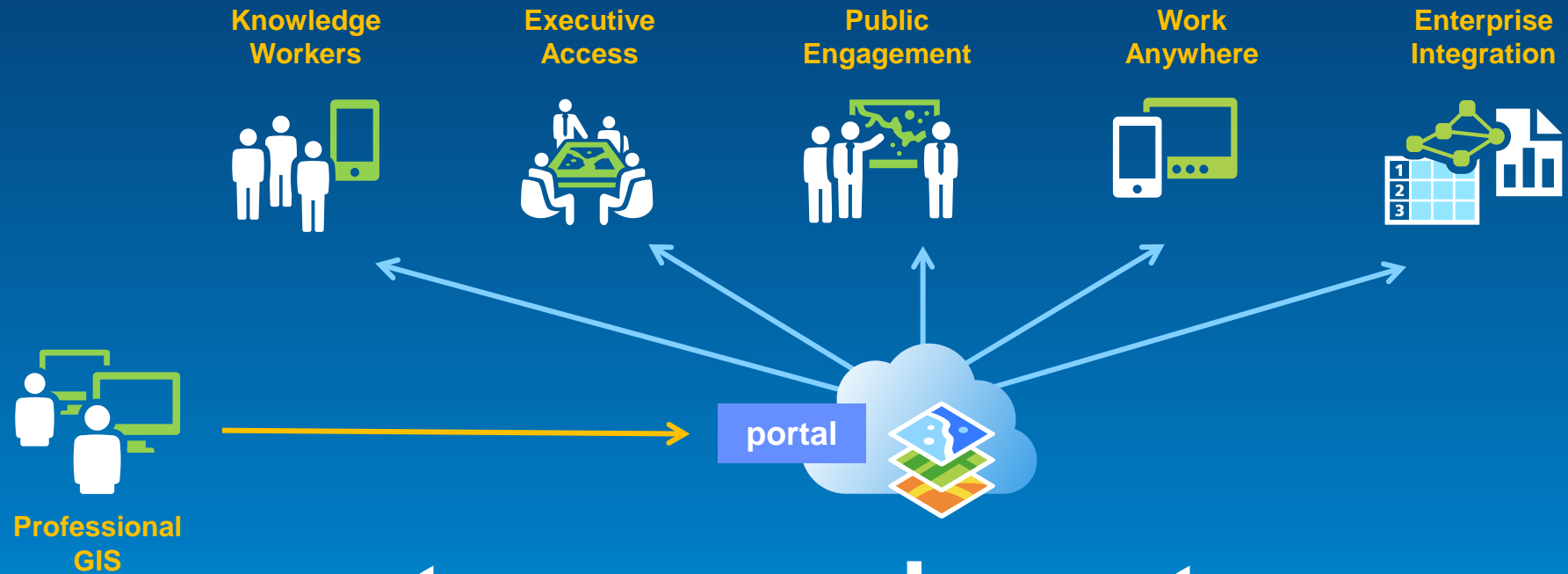
Esri Maps for Office
Esri Maps for SharePoint



Web Application Templates

Maps everywhere

Empower people

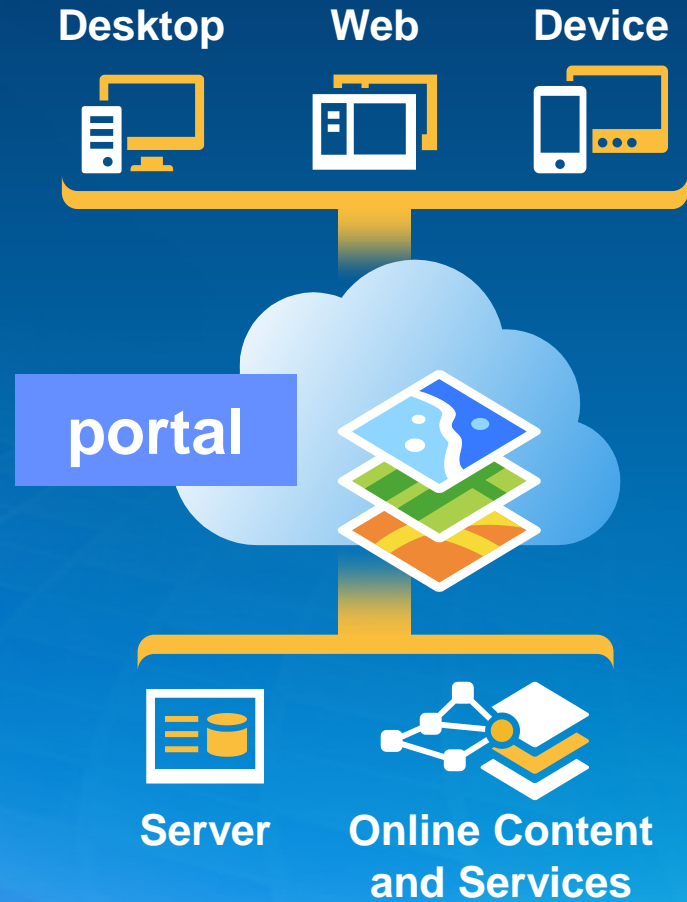


to use and create maps

The ArcGIS Platform enables Web GIS

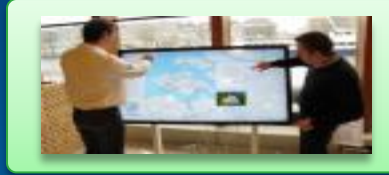
Enabling GIS Everywhere

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*Available in the Cloud . . .
. . . and On-Premises*

Key ArcGIS components for Web GIS



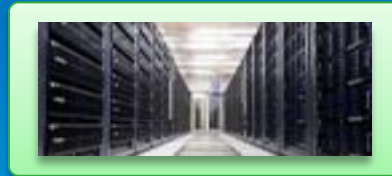
Apps

- Information Products
- Access Control



portal

- Web Services
- Data



GIS Servers
Authoring tools



Ready to use
Content

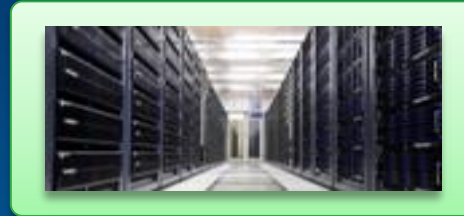
Web GIS Deployment Patterns



Apps



portal



GIS Servers



**Ready to use
Content**

SaaS

**ArcGIS Online
(portal)**

**ArcGIS Online
(Hosted Servers)**

**ArcGIS Online
Services**

Software

**Portal
for ArcGIS**

**ArcGIS
Server**

**ArcGIS Data
Appliance**

Web GIS Deployment Patterns



portal



GIS Servers



Ready to use Content

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ArcGIS Online (portal)

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Web GIS Deployment Patterns



portal



GIS Servers



Ready to use Content

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portal



GIS Servers



Ready to use Content

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Portal for ArcGIS

On-premises option for Web GIS

- Map-centric content management system for your GIS assets
- Solution when
 - Additional security requirements
 - No public cloud option
- Allows for
 - Enterprise integration (e.g., security)
- COTS product since 10.2
- **Extension to ArcGIS for Server Advanced**



Portal for ArcGIS

Is it right for me?

- Typical reasons for choosing **Portal for ArcGIS**
 - Have no Internet/www connection
 - Have strict SLAs and governance
 - Not ready for the cloud yet
- Typical reasons for choosing **ArcGIS Online**
 - Lower overall cost (faster start, less admin costs)
 - Continuous updates and improvements
 - Elasticity



Demo

Web GIS On-premises

Portal



Portal for ArcGIS – System Requirements

Same Supported Operating Systems as ArcGIS for Server

Windows

Supported operating systems

The Portal for ArcGIS setup will only proceed if the operating system is 64-bit; 32-bit operating systems are not supported. The operating system must be one of the following:

- Windows Server 2012 R2 Standard and Datacenter
- Windows Server 2012 Standard and Datacenter
- Windows Server 2008 R2 Standard, Enterprise, and Datacenter (maximum version supported is SP1)
- Windows Server 2008 Standard, Enterprise, and Datacenter (maximum version supported is SP2)
- Windows 8.1 Professional and Enterprise
- Windows 8 Professional and Enterprise
- Windows 7 Ultimate, Enterprise, Professional, Home Premium
- Windows Vista Service Pack 2 Ultimate, Enterprise, Business, and Home

Linux

Supported Linux operating systems

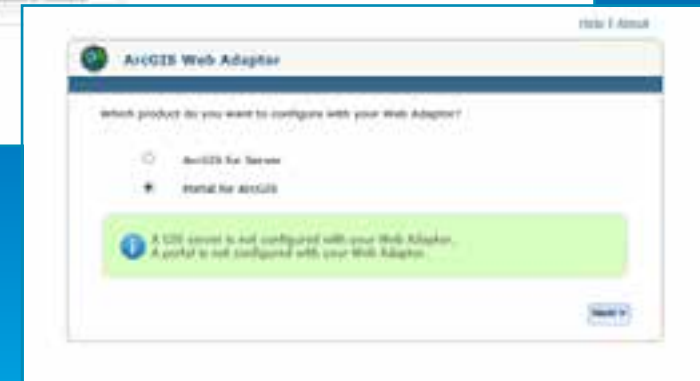
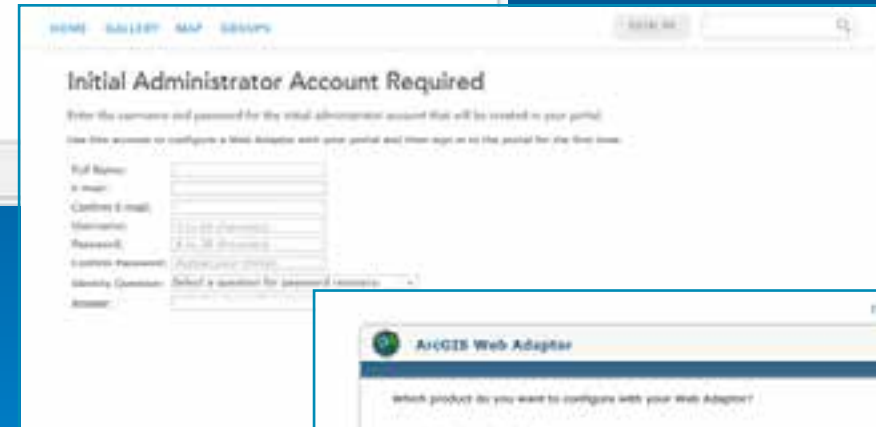
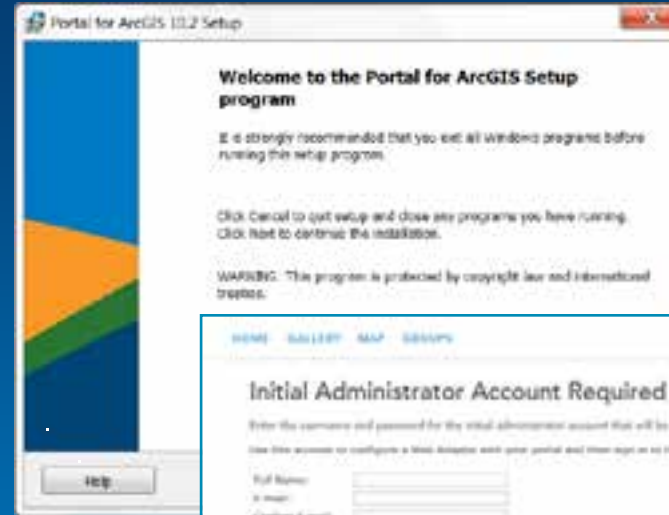
The Portal for ArcGIS setup will only proceed if the operating system is 64-bit; 32-bit operating systems are not supported. The operating system must be one of the following:

- Red Hat Enterprise Linux Server 6
- Red Hat Enterprise Linux Server 5 Update 7 with libX11 patch
- SUSE Linux Enterprise Server 11 Service Pack 1

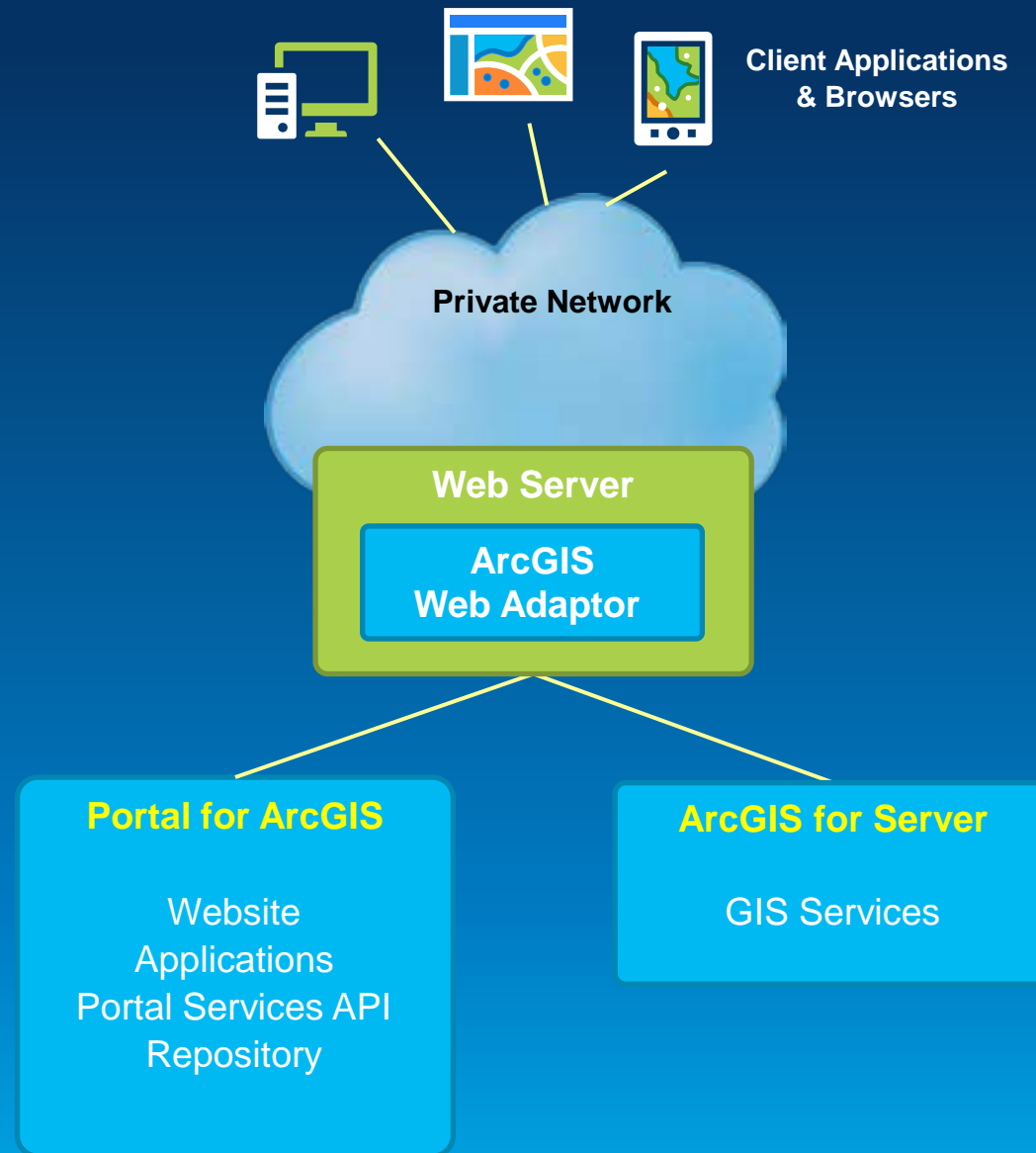
Installing Portal for ArcGIS

Can be Scripted for Silent Installs

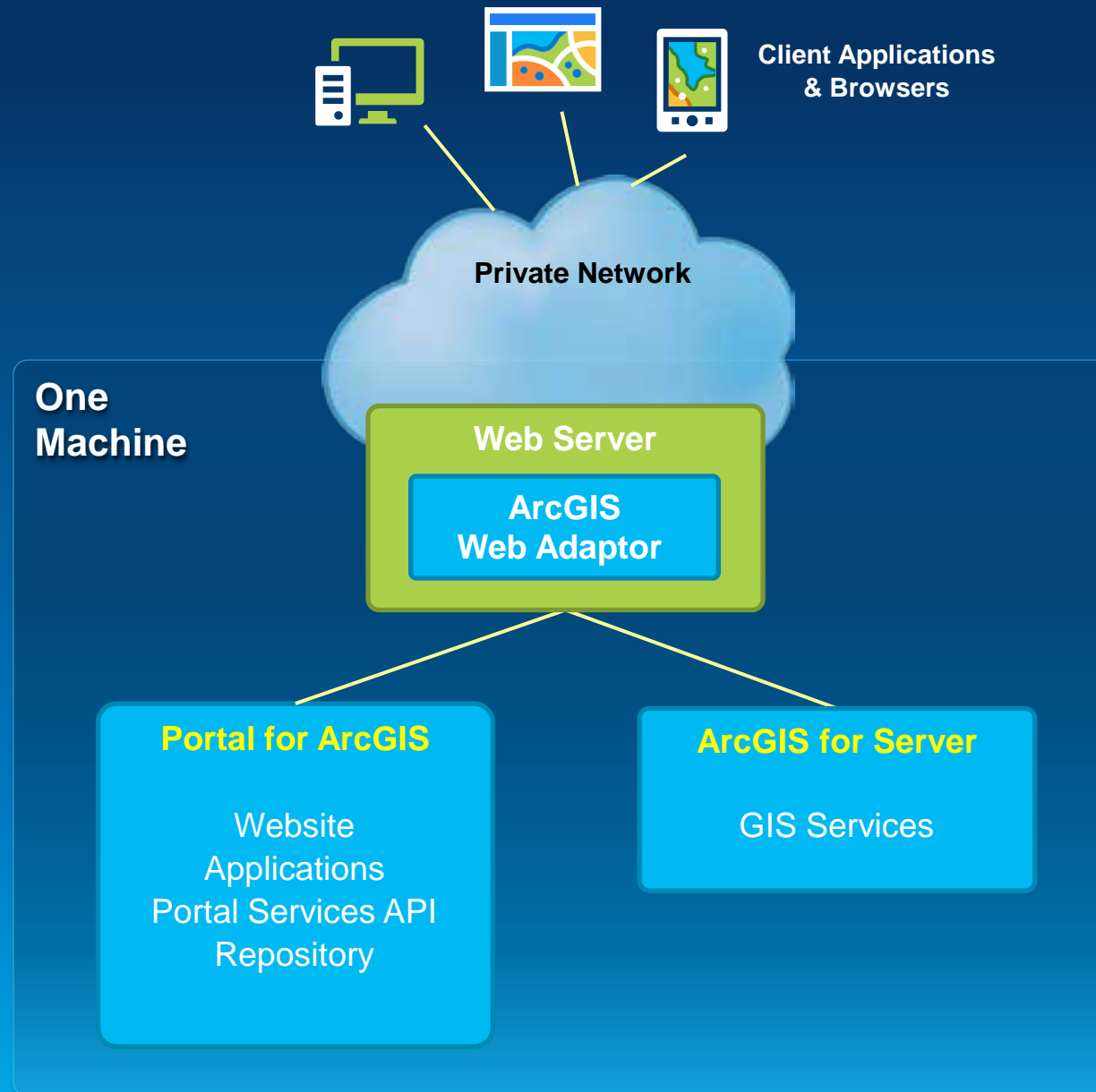
- Simple 4 step workflow
 1. Run installer
 2. Authorize software
 3. Create initial admin account
 4. Configure Web Adapter



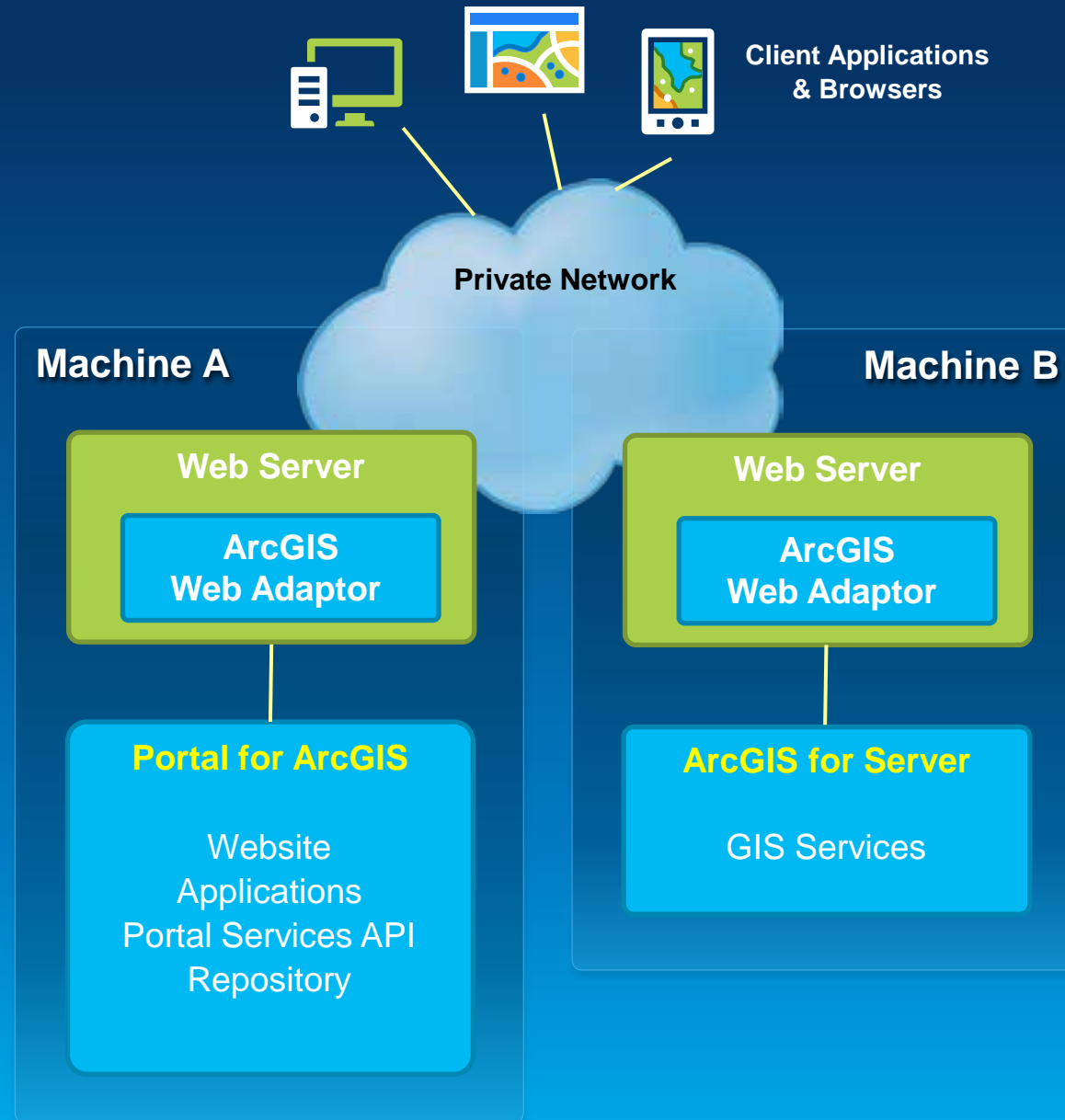
Deployment



Deployment



Deployment



Security

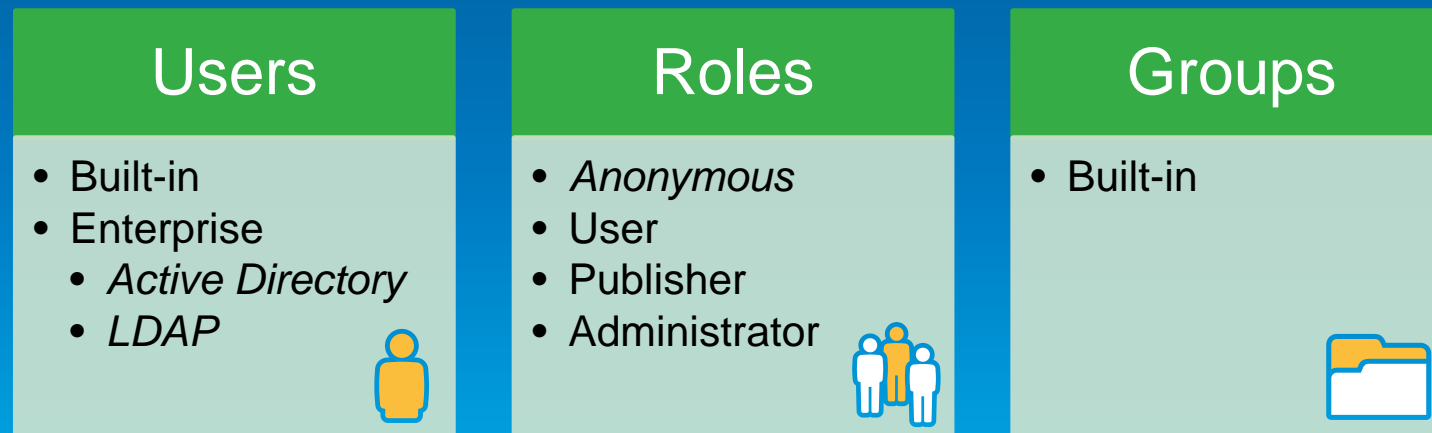
Integrates with Your Enterprise Security Infrastructure



- **Authentication**

- Supports web tier authentication, including Windows Authentication & PKI
- Supports SSO to your ArcGIS Servers (*federated servers*)

- **Users, Roles, and Groups**



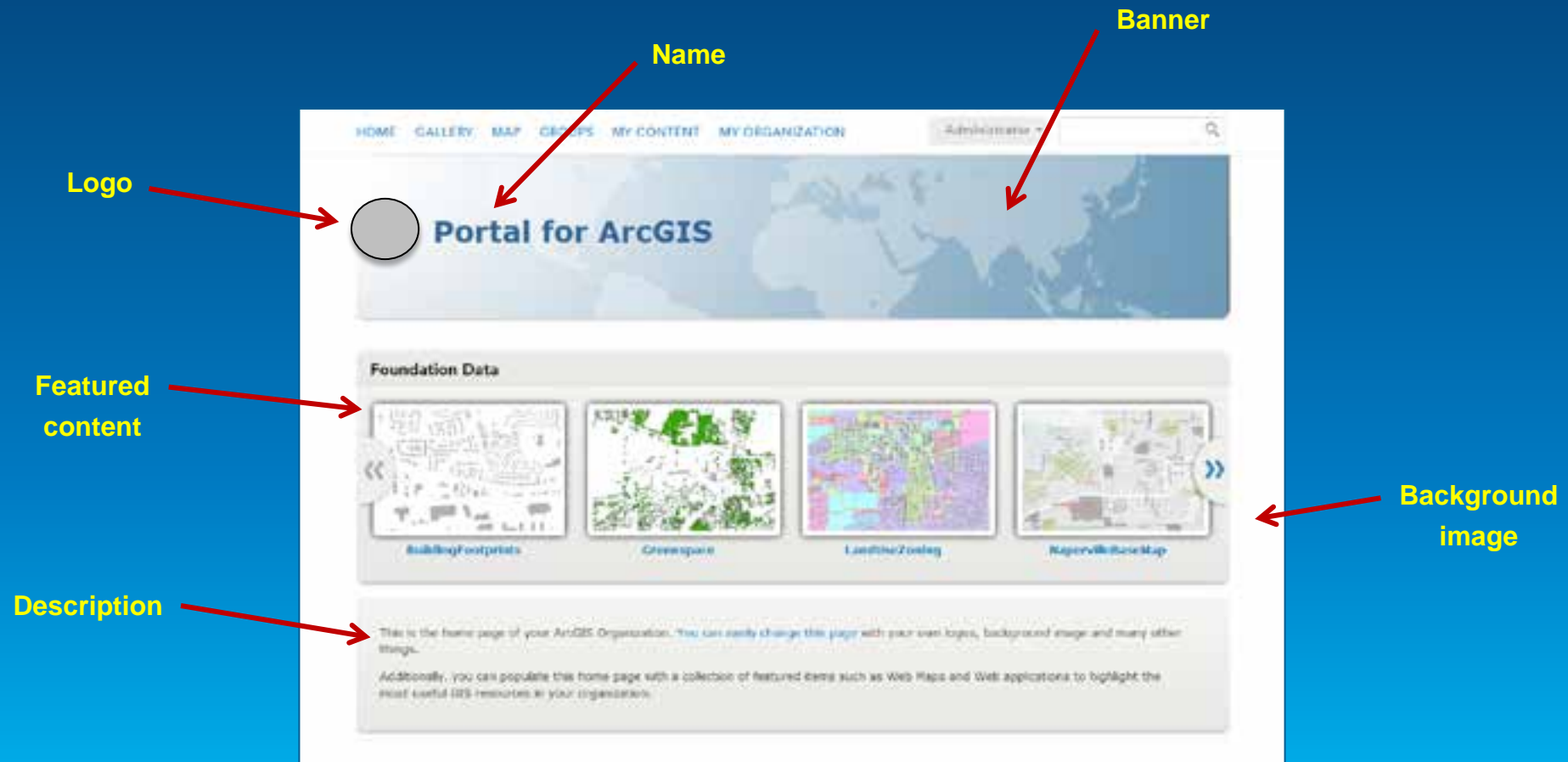
Leverage Groups in Portal

- Groups have membership
- Organize by:
 - **Theme or initiative**
 - Common and supportive content
 - **Functional department/structure**
 - Based on organization's business units
 - **Projects**
 - Specific projects or tasks
 - **Ad-hoc**
 - Prototyping, non-permanent/temp projects, staging



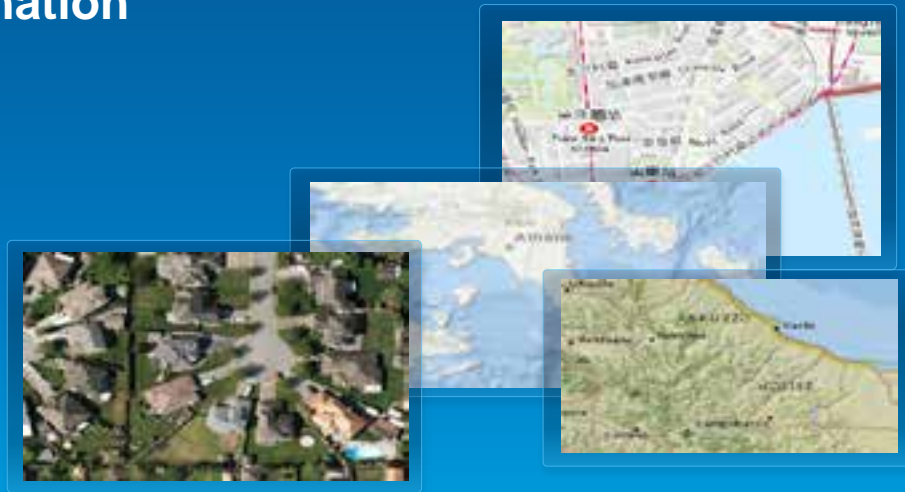
Configuring Portal for ArcGIS

- Must have Administrator privileges

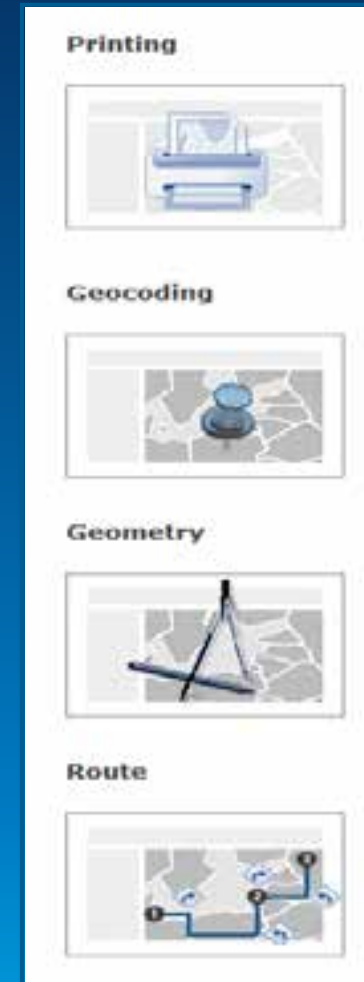


Basemaps & Utility Services

- Important part of Portal's resources
- Can be hosted:
 - Online (*by Esri*)
 - On-premises (*by you*)
 - Combination



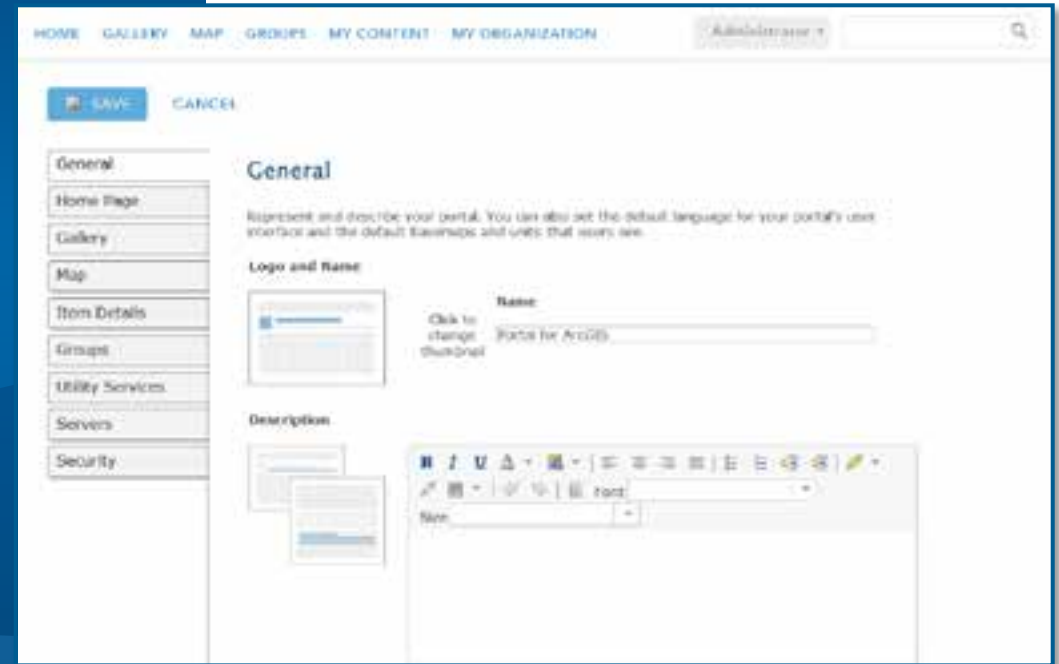
Basemaps



Utility services

Demo

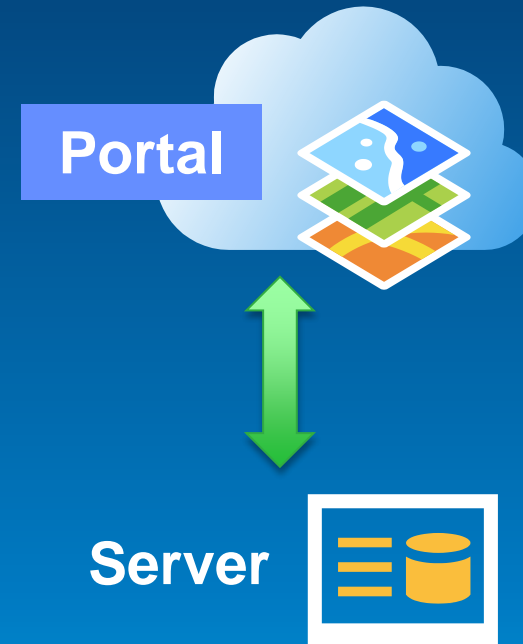
Configuring Portal for ArcGIS



Using Portal with ArcGIS Server

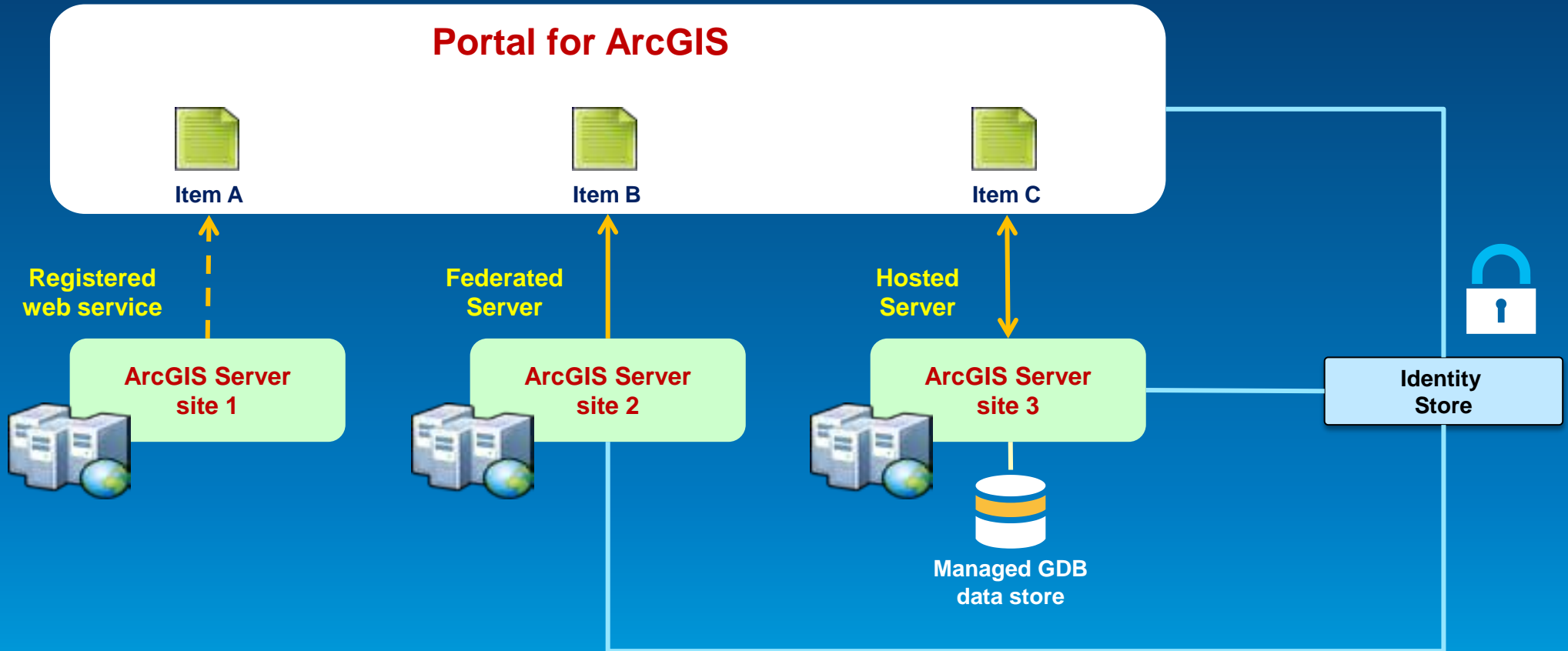
Three Integration Approaches

1. **Registering services**
2. **Federating a Server**
3. **Designating a hosting Server**

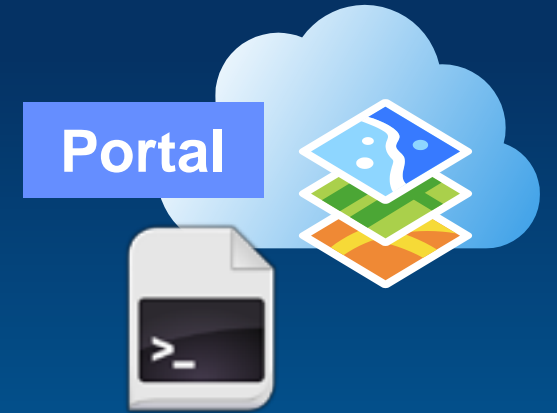


Implementation Patterns

Portal for ArcGIS + ArcGIS for Server



Scripting Portal for ArcGIS Administration



- Portal administration functionality is exposed via REST API
- Execute admin commands
- Scripting languages
 - Python, Java, JavaScript, PowerShell, C#, Ruby, Scala, Perl, etc
- Examples
 - Members to the portal
 - Copy content from one portal to another
 - Grant members of the portal access to specific groups
 - Transfer the ownership of a member's items to another member
 - Update the URL of a service that is referenced in a web map

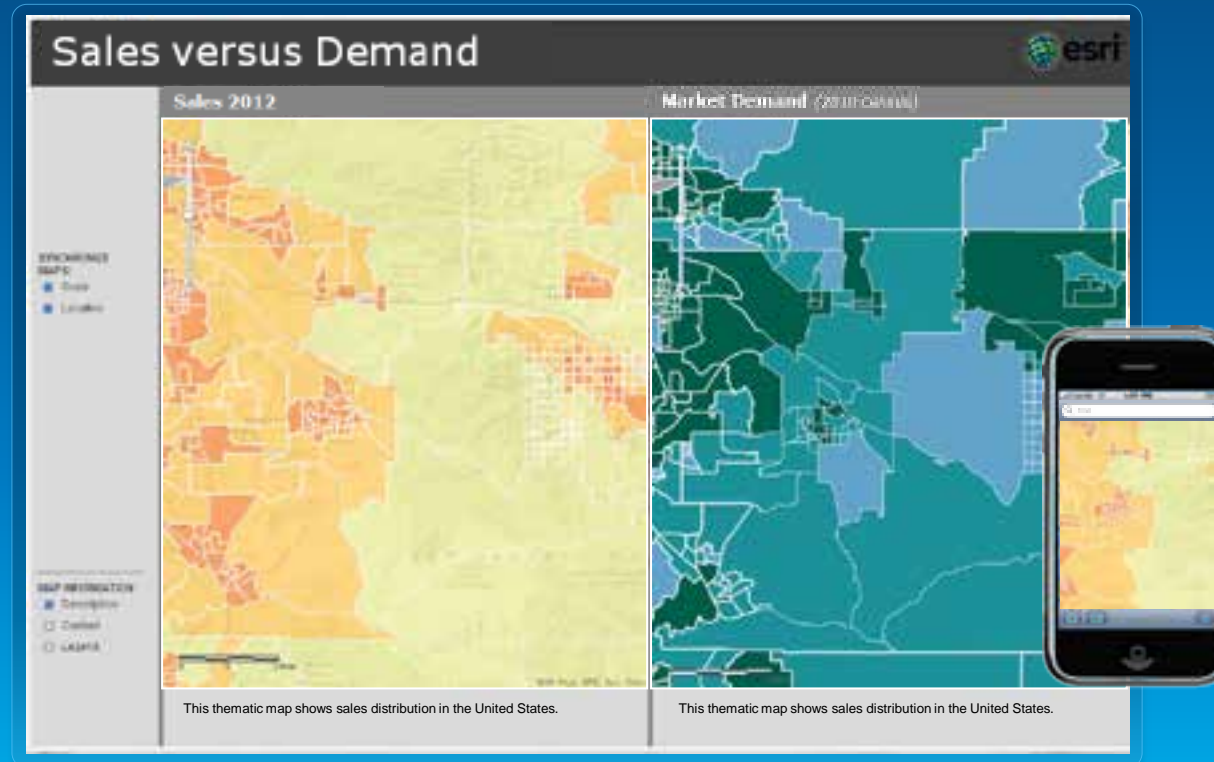
Implementing Web GIS

Typical activities

- **Assessment & planning**
- **Installation & configuration**
- **Security integration**
- **Deployment** (*staging, production*)
- **End user engagement, socialization**
- **IT training & support planning**
- **Operations, maintenance, and support**
- **Designing & building information products**

Keys to Success

- Stay focused on the information products



Keys to Success

- **Stay focused on the information products**
- **Embrace the idea of maps everywhere**
- **Model Portal for ArcGIS after your structure & workflows**
- **Consider the Web GIS Launch Kits**

Portal for ArcGIS - Summary

- Map-centric content management system for your GIS assets
- Implements “Web GIS” on-premises
- Solution when
 - Additional security demands
 - No public cloud option
- Extension of ArcGIS for Server Advanced
- **Session Evaluation:**
 - <http://www.esri.com/events/devsummit/session-rater>





Understanding our world.

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