

Federal GIS Conference

February 9–10, 2015 | Washington, DC

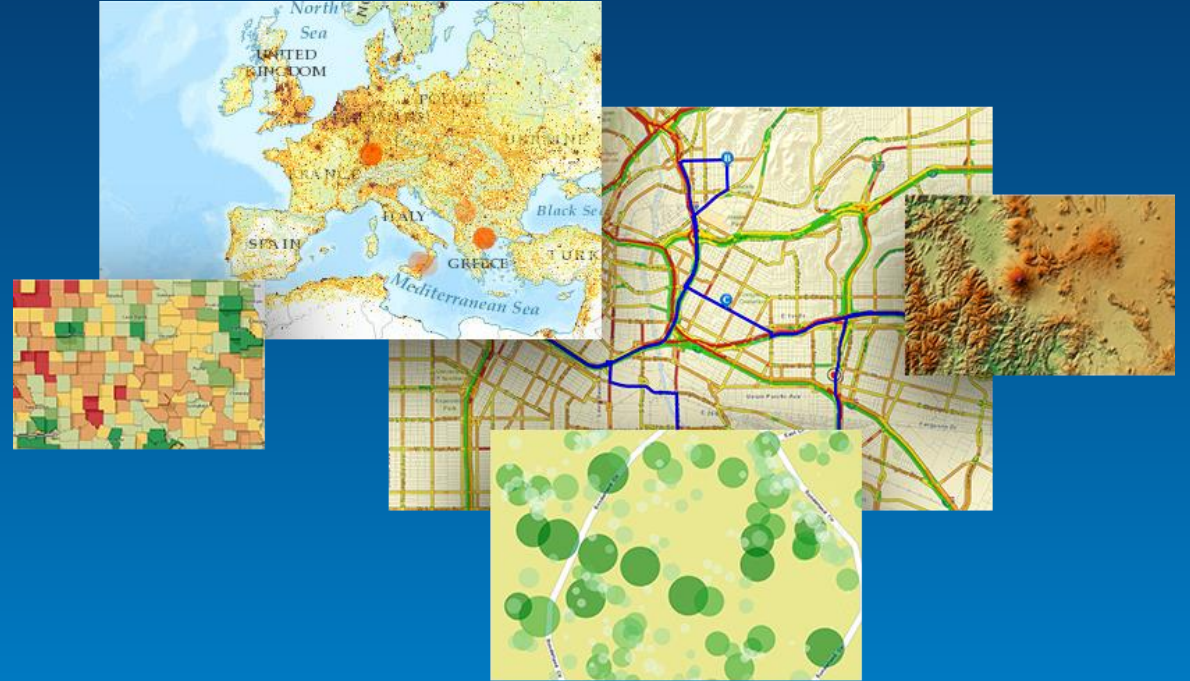


Introduction to Portal for ArcGIS

Brett Rose

Agenda

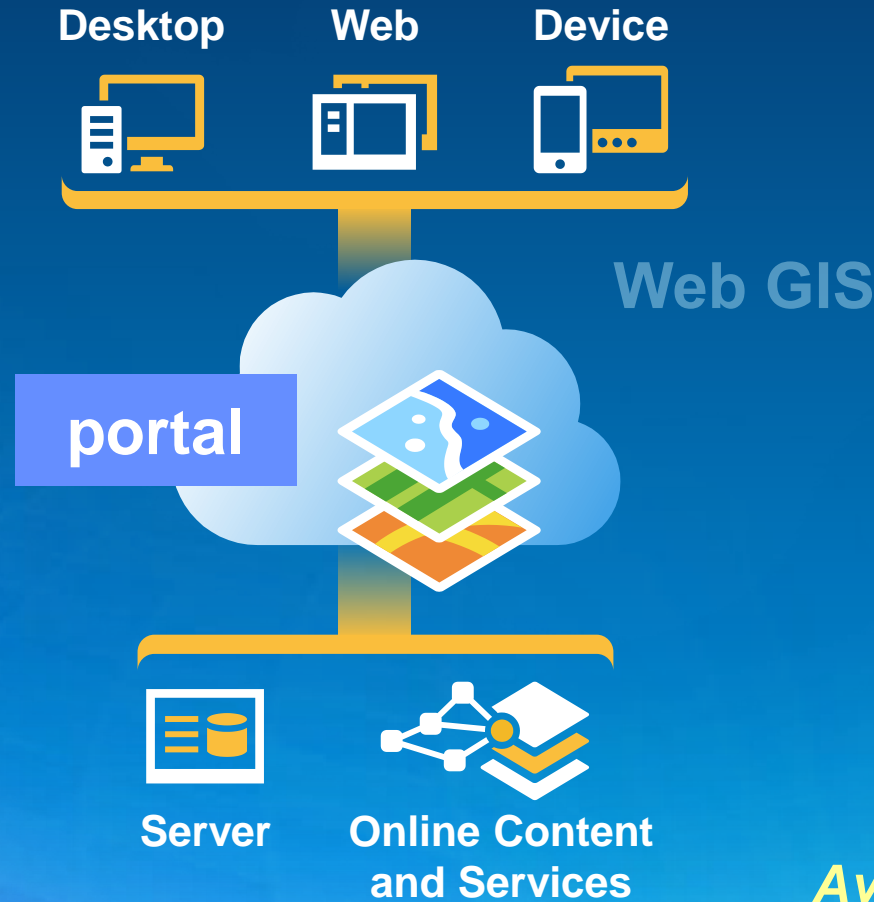
- **Web GIS pattern**
- **Product overview**
- **Installation and deployment**
- **Security and groups**
- **Configuration options**
- **Portal for ArcGIS + ArcGIS for Server**
- **Implementation suggestions**
- **Summary**



ArcGIS Is a Platform

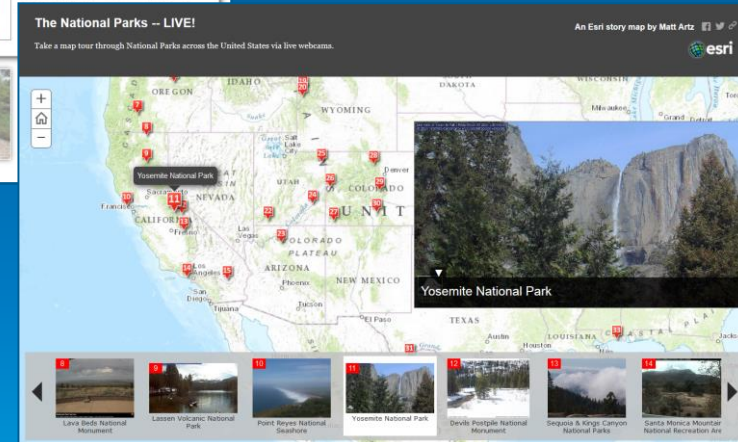
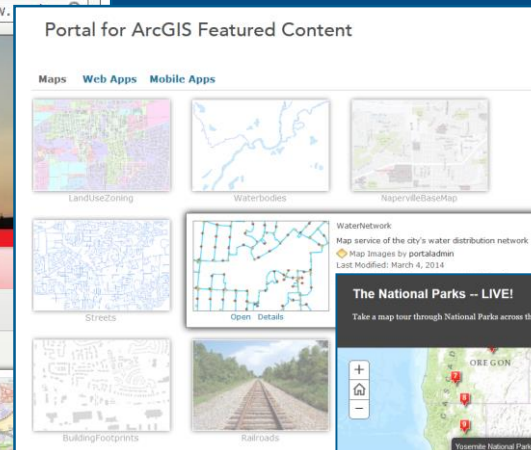
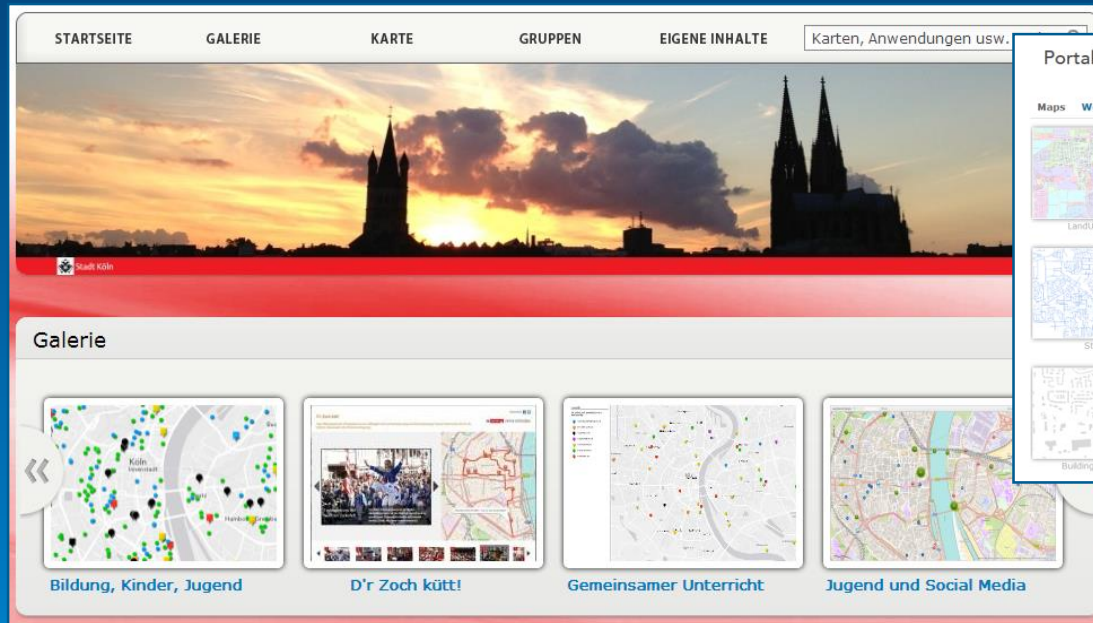
Enabling GIS Everywhere

Simple
Integrated
Open



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

Organize your maps and apps



enable discovery

More apps



Collector for ArcGIS



Operations Dashboard for ArcGIS



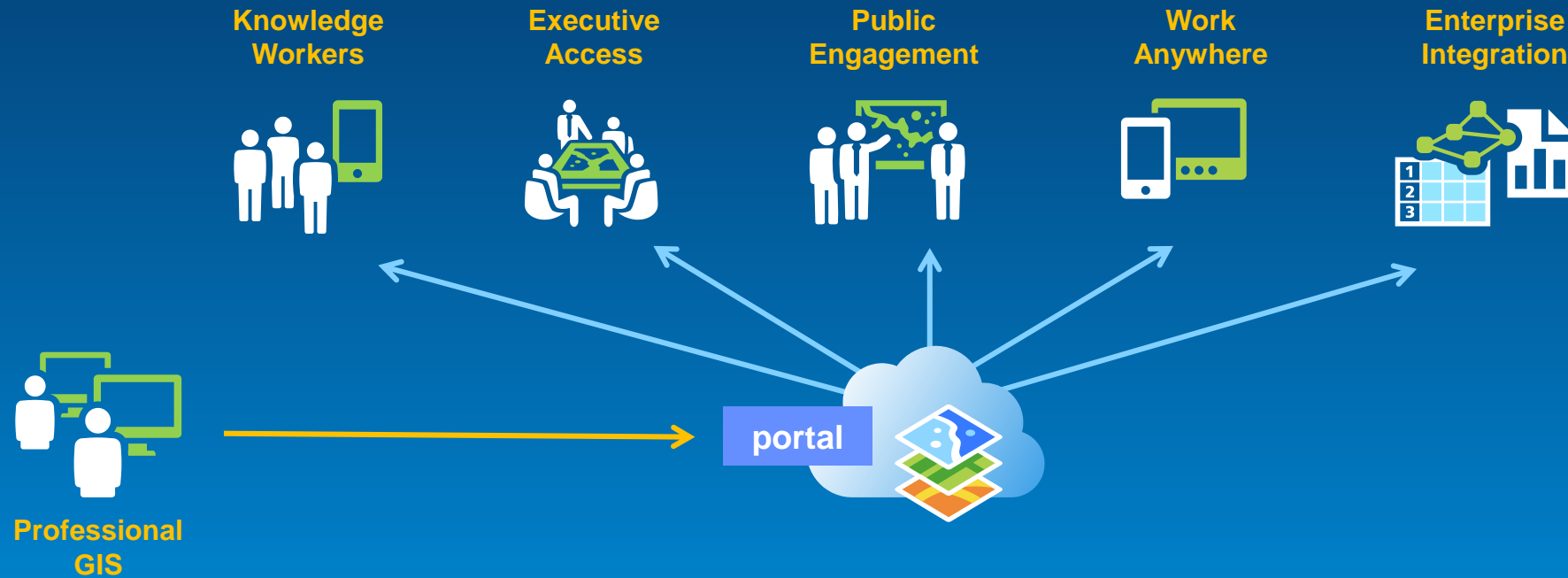
Web Application Templates



Esri Maps for Office
Esri Maps for SharePoint

Maps everywhere

Empower people

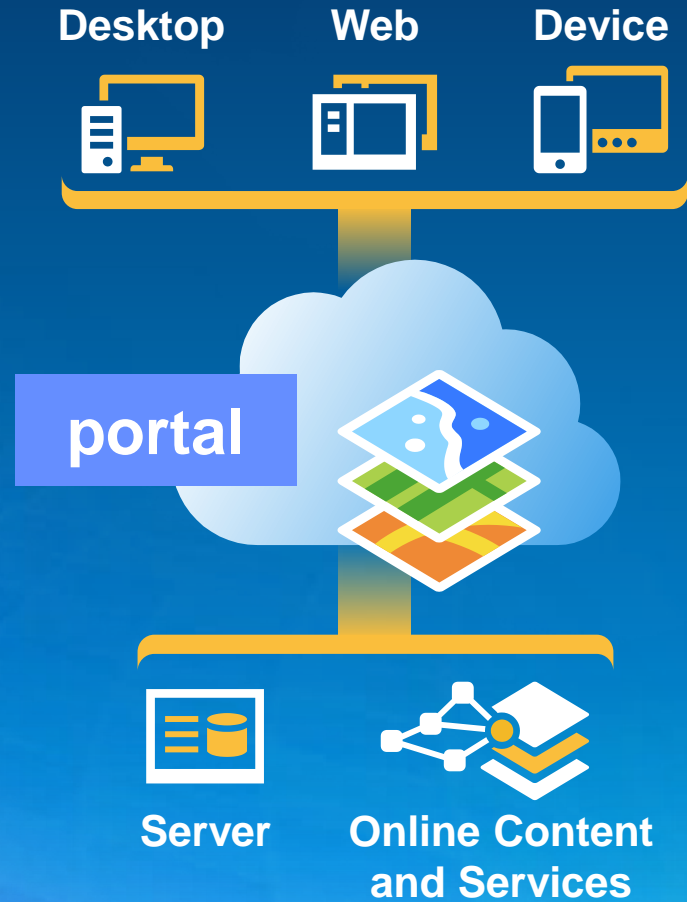


to use and create maps

The ArcGIS Platform enables Web GIS

Enabling GIS Everywhere

Simple
Integrated
Open



*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



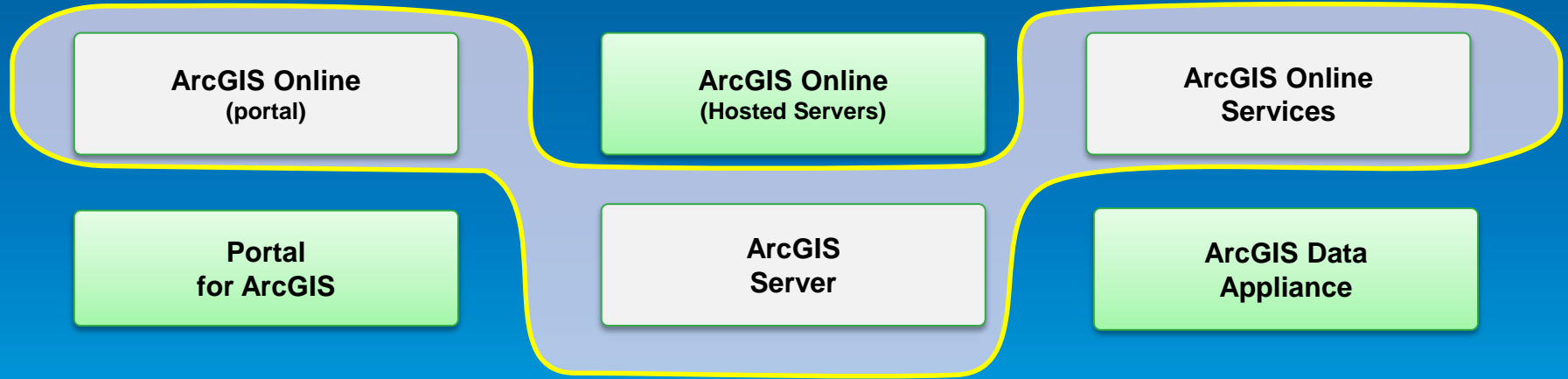
GIS Servers



Ready to use Content

SaaS

Software



Web GIS Deployment Patterns



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

SaaS

ArcGIS Online (portal)

ArcGIS Online (Hosted Servers)

ArcGIS Online Services

Software

Portal for ArcGIS

ArcGIS Server

ArcGIS Data Appliance

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






Web GIS



HOME GALLERY MAP GROUPS SIGN IN

Portal for ArcGIS

Foundation Data



BuildingFootprints **Greenspace** **LandUseZoning** **NapervilleBaseMap**

This is the home page of your ArcGIS Organization. [You can easily change this page](#) with your own logos, background image and many other things.

Additionally, you can populate this home page with a collection of featured items such as Web Maps and Web applications to highlight the most useful GIS resources in your organization.

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

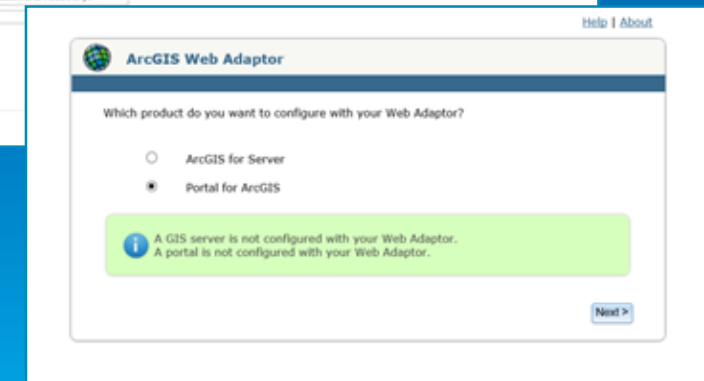
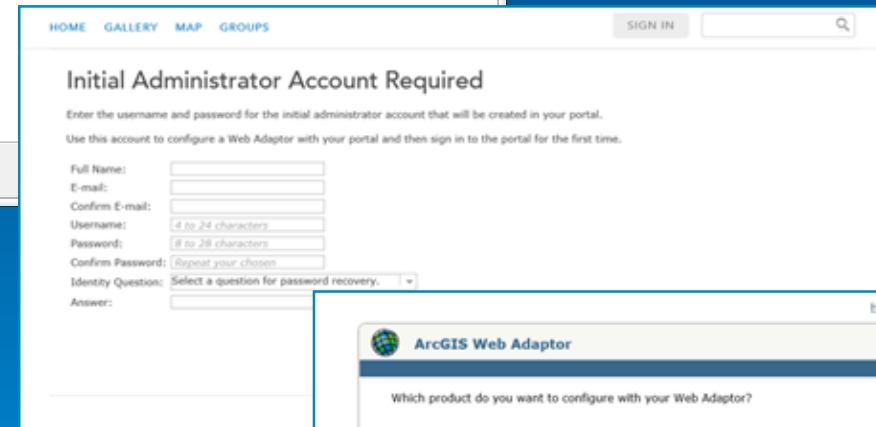
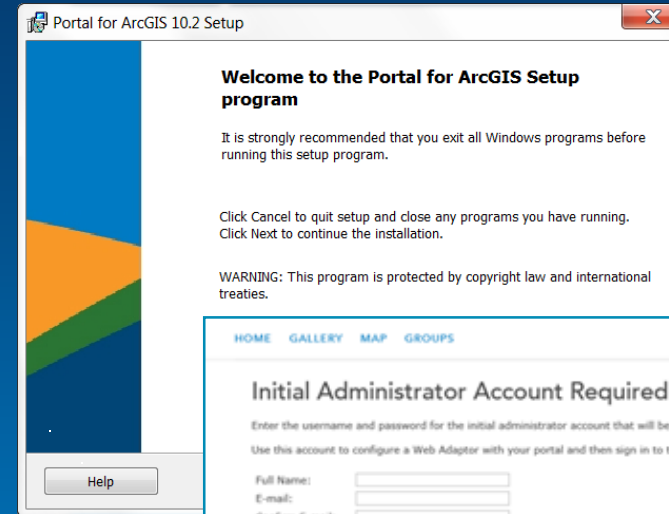
The Portal for ArcGIS setup will only proceed if the operating system is 64-bit; 32-bit operating systems are not supported. The operating system must be one of the following:

- 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

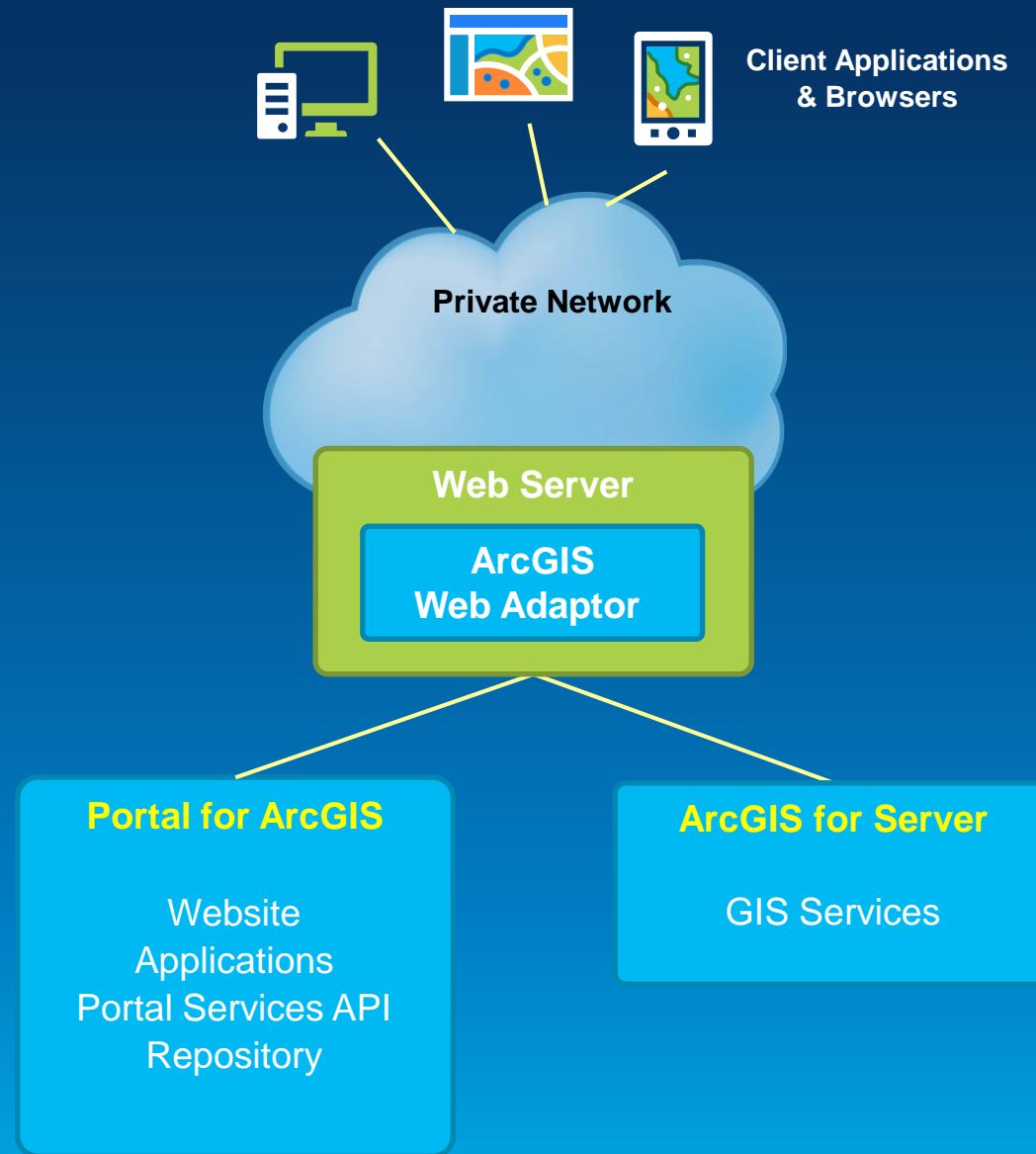
Installing Portal for ArcGIS

Can be Scripted for Silent Installs

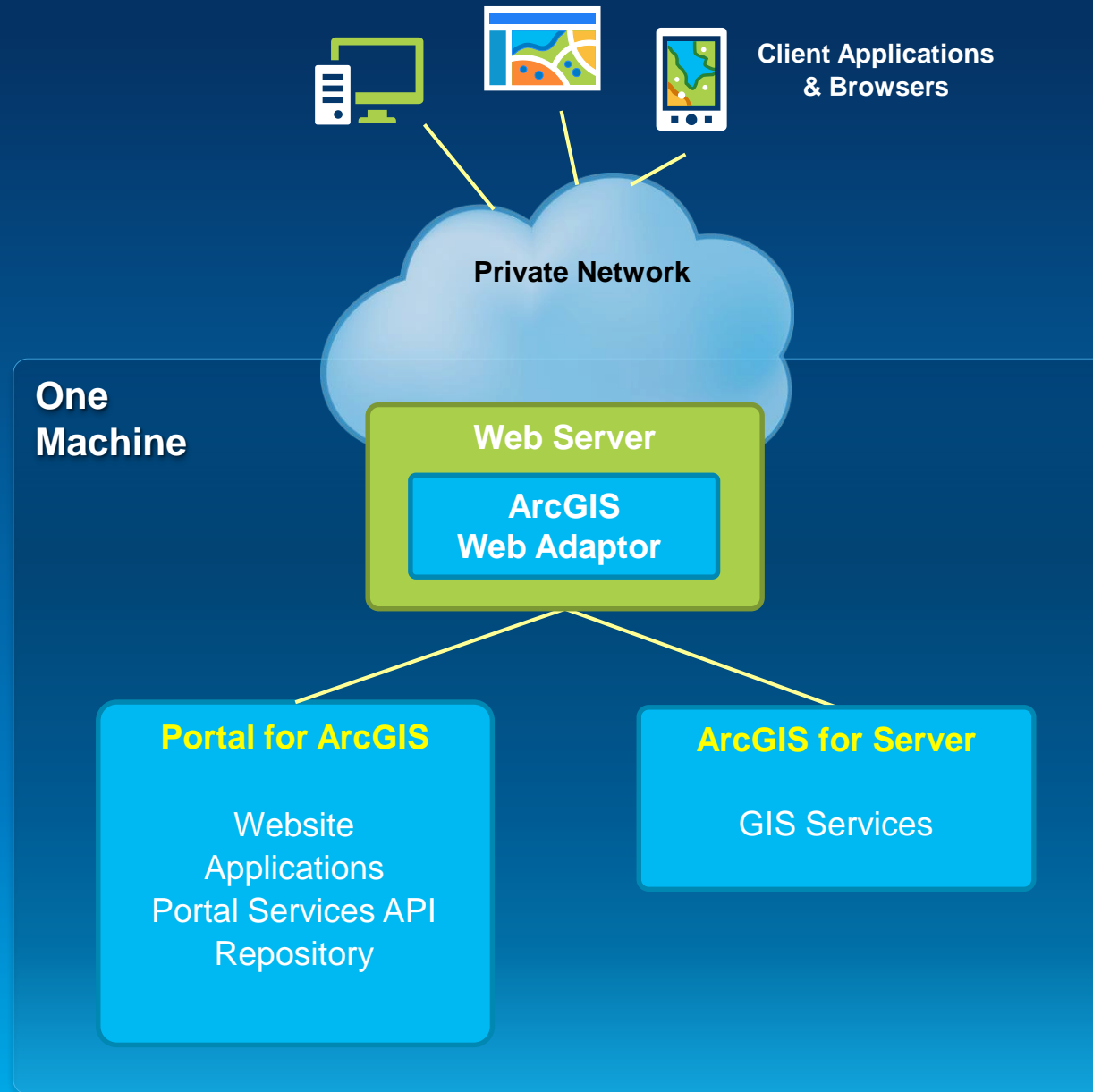
- **Simple 4 step workflow**
 1. Run installer
 2. Authorize software
 3. Create initial admin account
 4. Configure Web Adapter



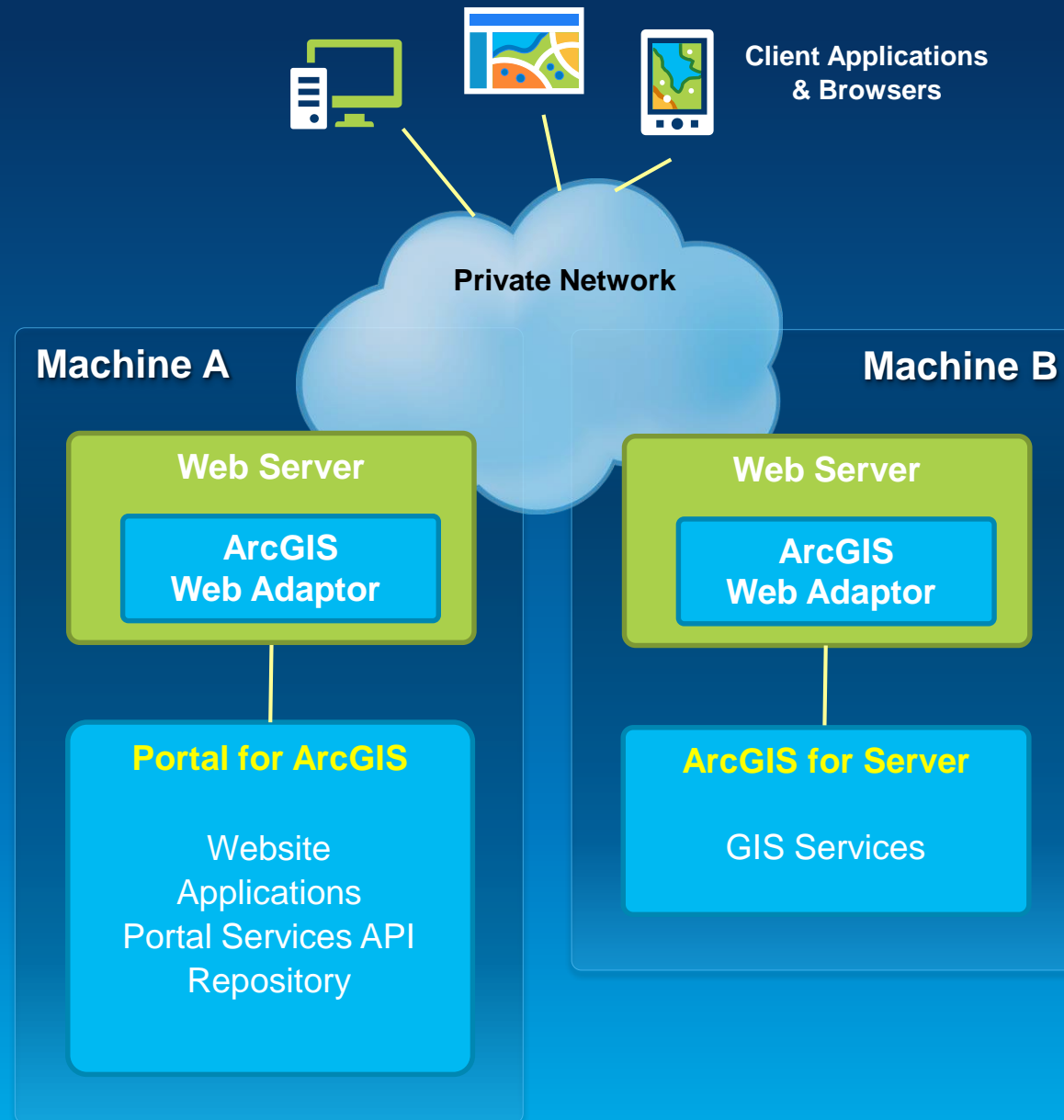
Deployment



Deployment



Deployment



Security

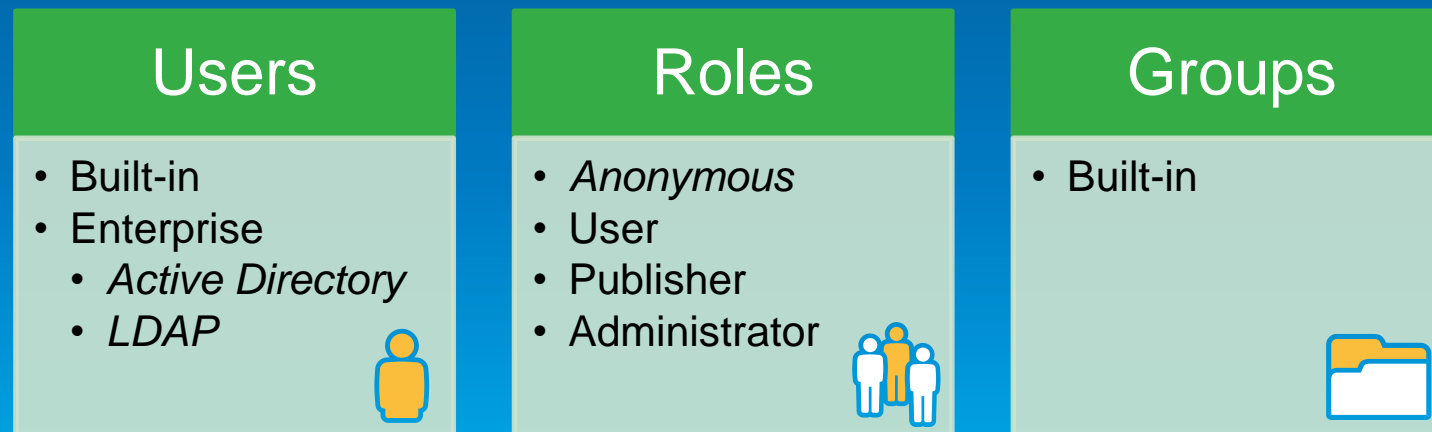
Integrates with Your Enterprise Security Infrastructure



- **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

The screenshot displays the ArcGIS Portal configuration interface. At the top, a navigation bar includes links for HOME, GALLERY, MAP, GROUPS, MY CONTENT, and MY ORGANIZATION, along with a user profile dropdown for 'Administrator' and a search icon. The main content area is divided into several sections:

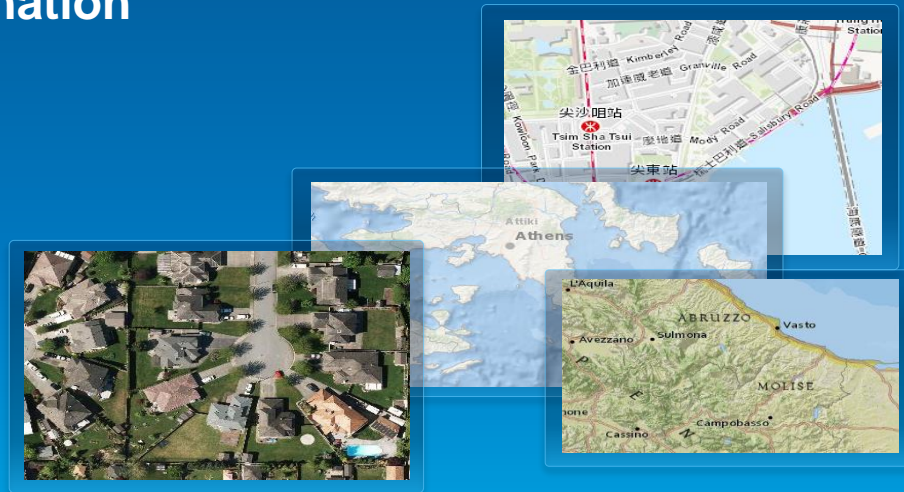
- Logo:** A circular placeholder for the organization's logo.
- Name:** The text 'Portal for ArcGIS' displayed next to the logo.
- Banner:** A large background image of a world map.
- Featured content:** A carousel titled 'Foundation Data' showing four map thumbnails: 'BuildingFootprints', 'Greenspace', 'LandUseZoning', and 'NapervilleBaseMap'. Navigation arrows are visible on the left and right sides of the carousel.
- Description:** A text box containing the following text:

This is the home page of your ArcGIS Organization. You can easily change this page with your own logos, background image and many other things.

Additionally, you can populate this home page with a collection of featured items such as Web Maps and Web applications to highlight the most useful GIS resources in your organization.
- Background image:** A red arrow points to the right side of the featured content carousel, indicating the background image area.

Basemaps & Utility Services

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



Basemaps

Printing



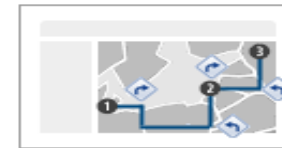
Geocoding



Geometry



Route



Utility services

Demo

Configuring Portal for ArcGIS



HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION Administrator

SAVE CANCEL

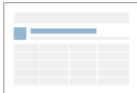
General

Home Page
Gallery
Map
Item Details
Groups
Utility Services
Servers
Security


General

Represent and describe your portal. You can also set the default language for your portal's user interface and the default basemaps and units that users see.

Logo and Name

 **Name**
Click to change thumbnail Portal for ArcGIS

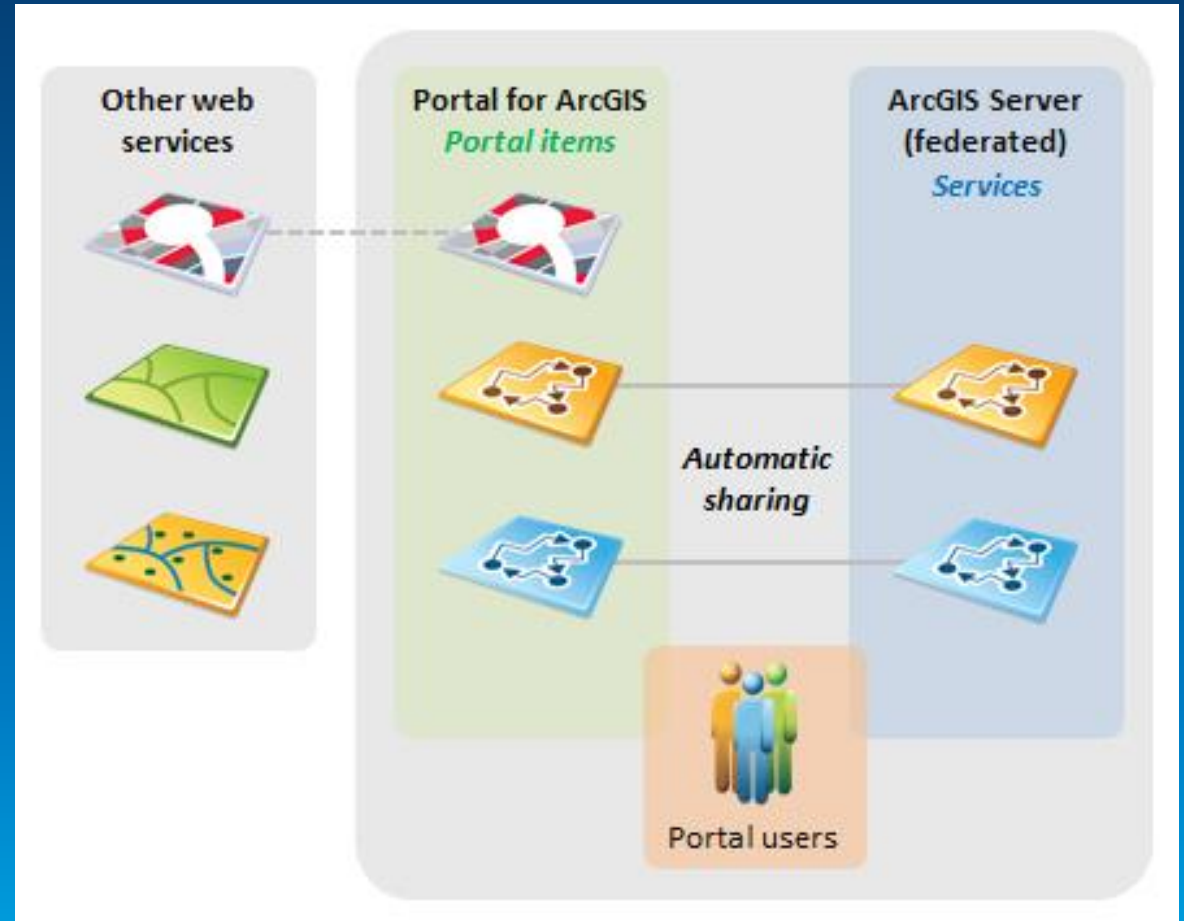
Description

 **B I U** Font Size

Using Portal with ArcGIS Server

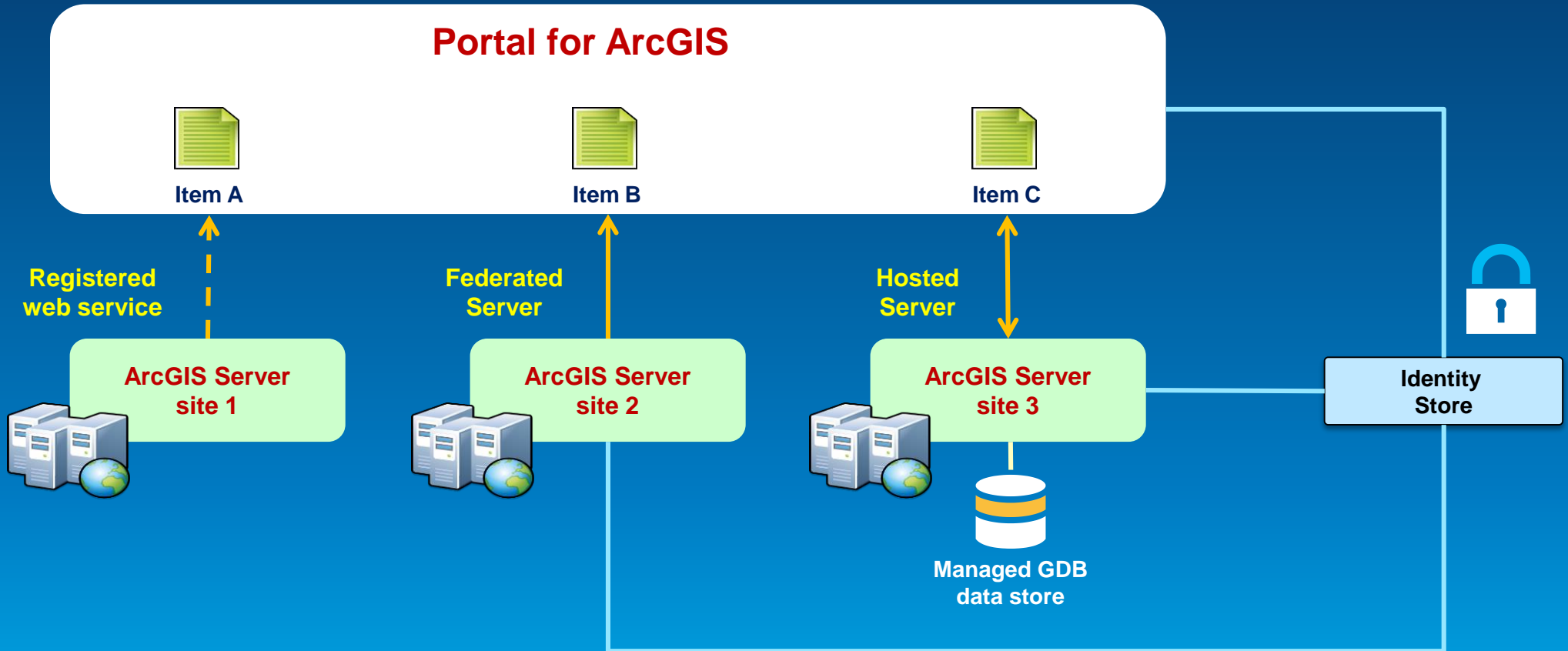
Three Integration Approaches

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



Implementation Patterns

Portal for ArcGIS + ArcGIS for Server



Deploying the Data Store

1. Configure ArcGIS for Server and Portal for ArcGIS.
2. Install ArcGIS Data Store.
3. Create a data store.
4. Specify a shared network location for feature layer database backups.



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

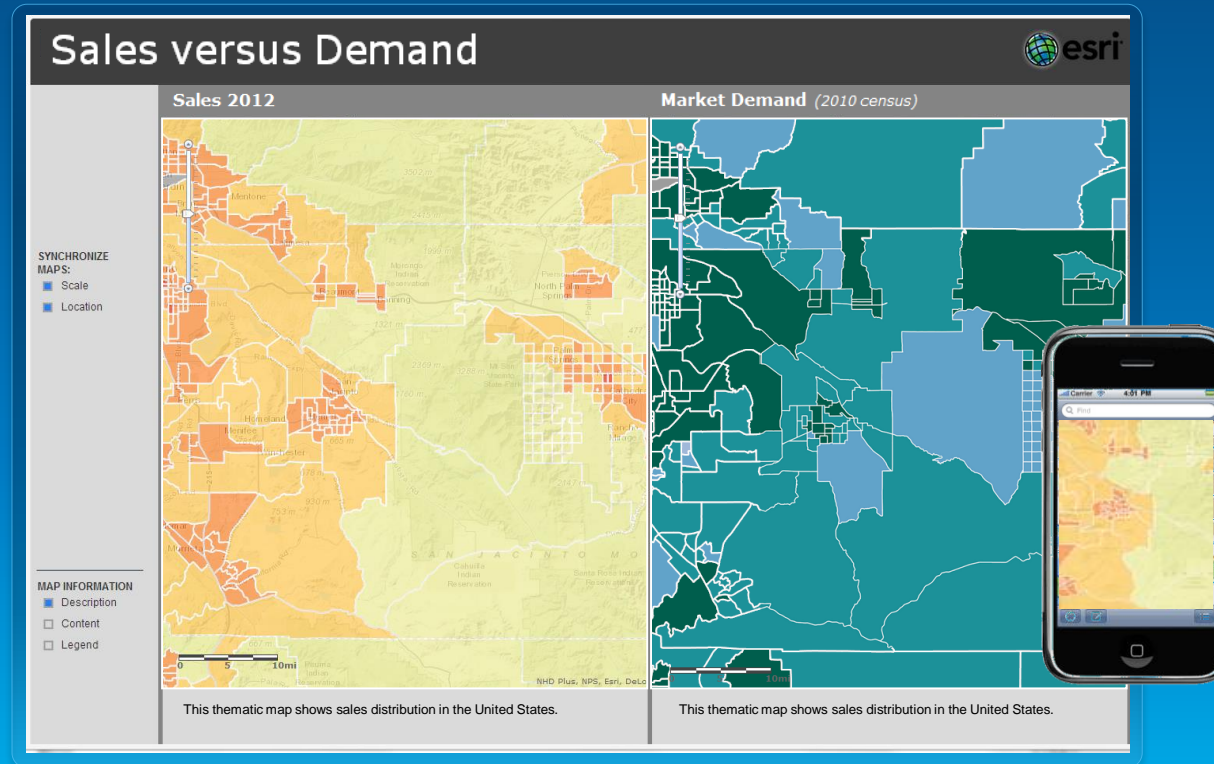
Typical activities

- 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
- <http://server.arcgis.com/en/portal/>





Understanding our world.