2013 Esri Mid-Atlantic User Conference
December 10-11 | Baltimore, MD

Portal for ArcGIS: An Introduction

Derek Law
Esri, Redlands

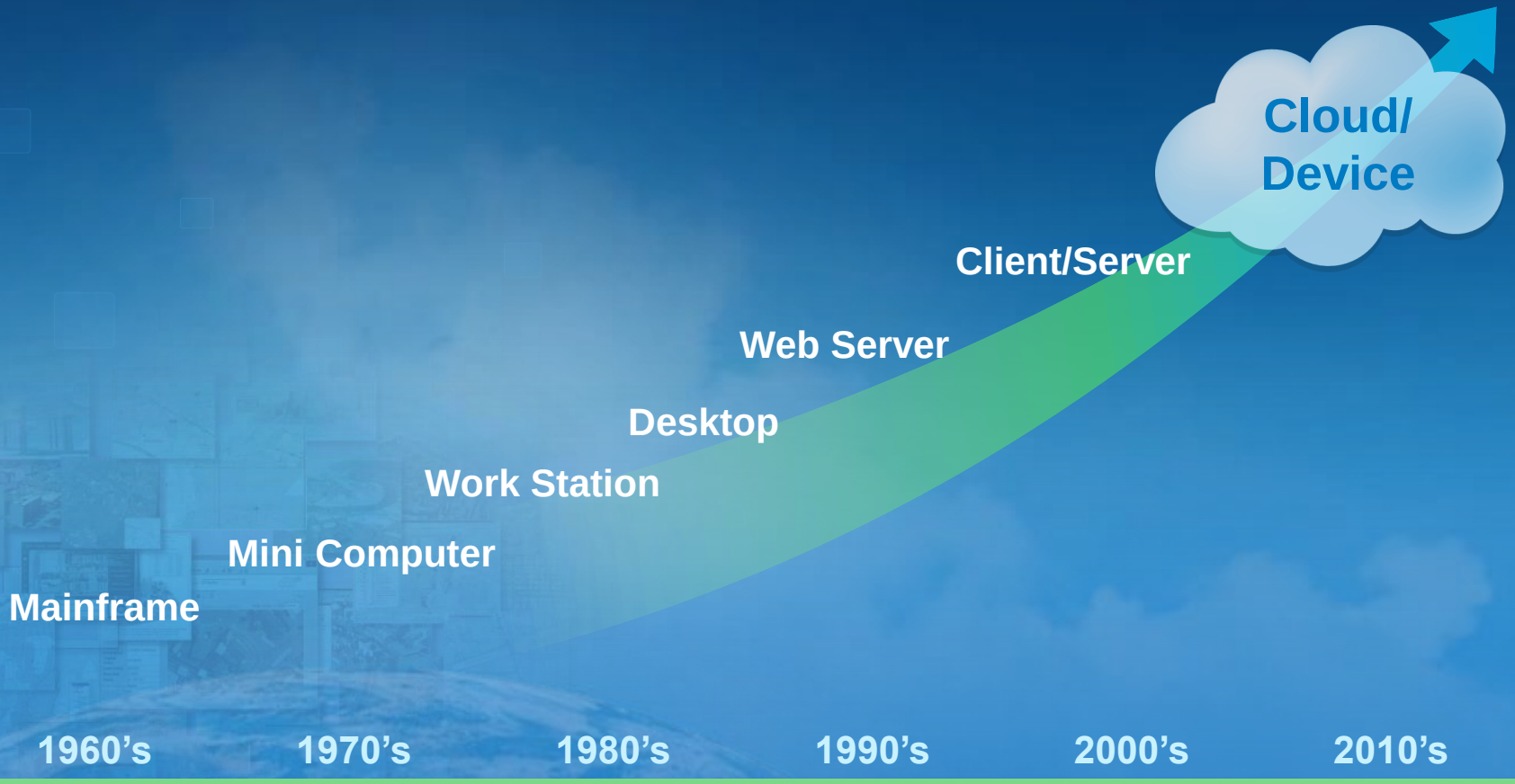
Agenda

- Web GIS
- Deployment patterns
- Portal for ArcGIS overview
- Security
- Integration with ArcGIS for Server
- Implementation patterns
- Summary

GIS is at a
Major Turning Point

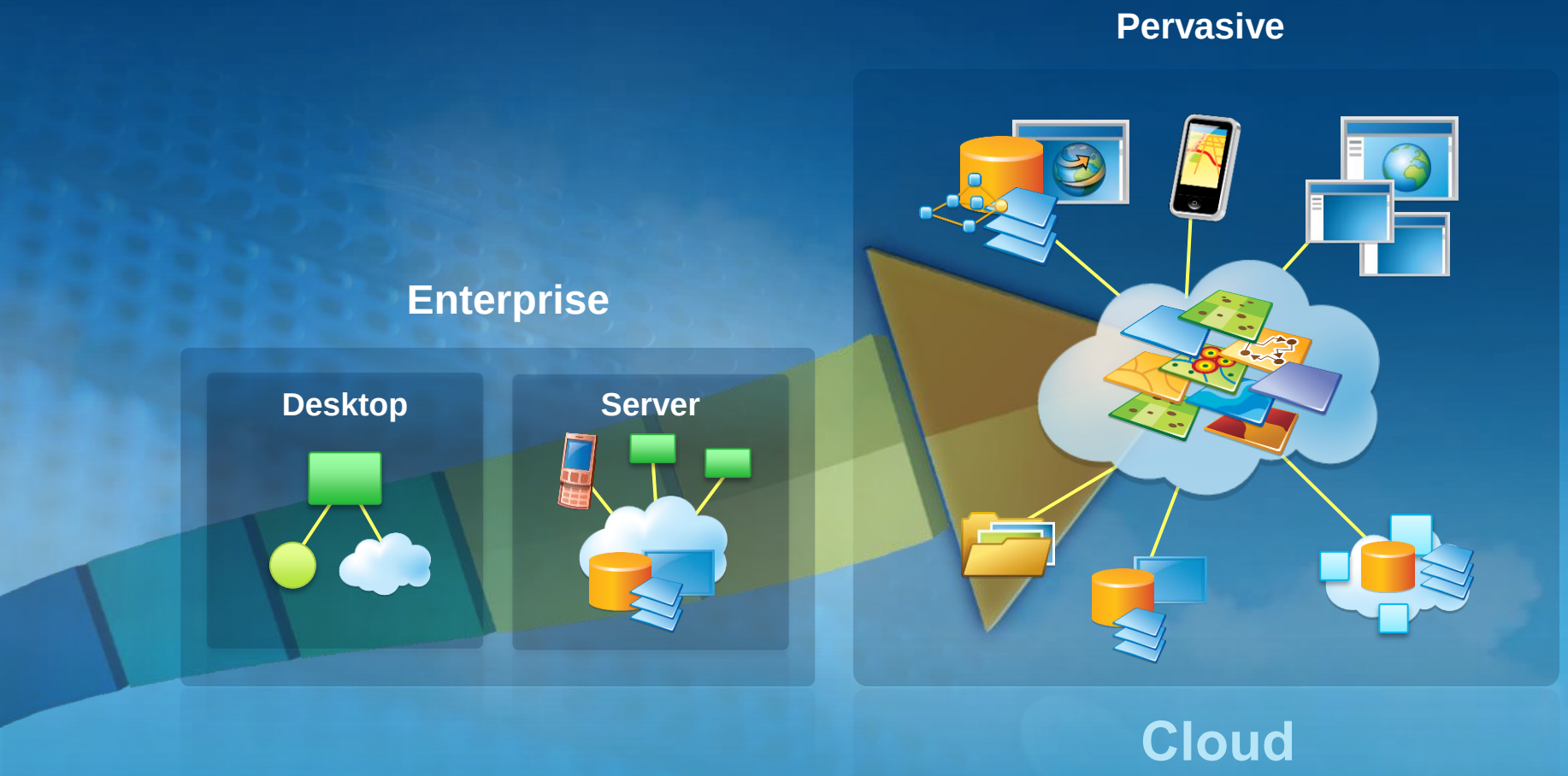
GIS Is Transforming Into Platform

Integrating Software and Services



This New Platform

Connects and Leverages Existing GIS Investments



ArcGIS Is a Platform

Enabling Web GIS Everywhere

Simple

Integrated

Open

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

Key ArcGIS components for WebGIS

Apps

Information Products

Access Control

portal

Web Services
Data

GIS Servers
Authoring tools

Ready to use Content

A

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

A

Web GIS Deployment Patterns

Apps

portal

GIS Servers

Ready to use Content

SaaS

Software

ArcGIS Online (Portal)	ArcGIS Online (Hosted Servers)	ArcGIS Online Services
Portal for ArcGIS	ArcGIS Server	ArcGIS Data Appliance

Web GIS Deployment Patterns

Apps

portal

GIS Servers

Ready to use Content

SaaS

Software

ArcGIS Online (Portal)	ArcGIS Online (Hosted Servers)	ArcGIS Online Services
Portal for ArcGIS	ArcGIS Server	ArcGIS Data Appliance

WebGIS Deployment Patterns

Apps

portal

GIS Servers

Ready to use Content

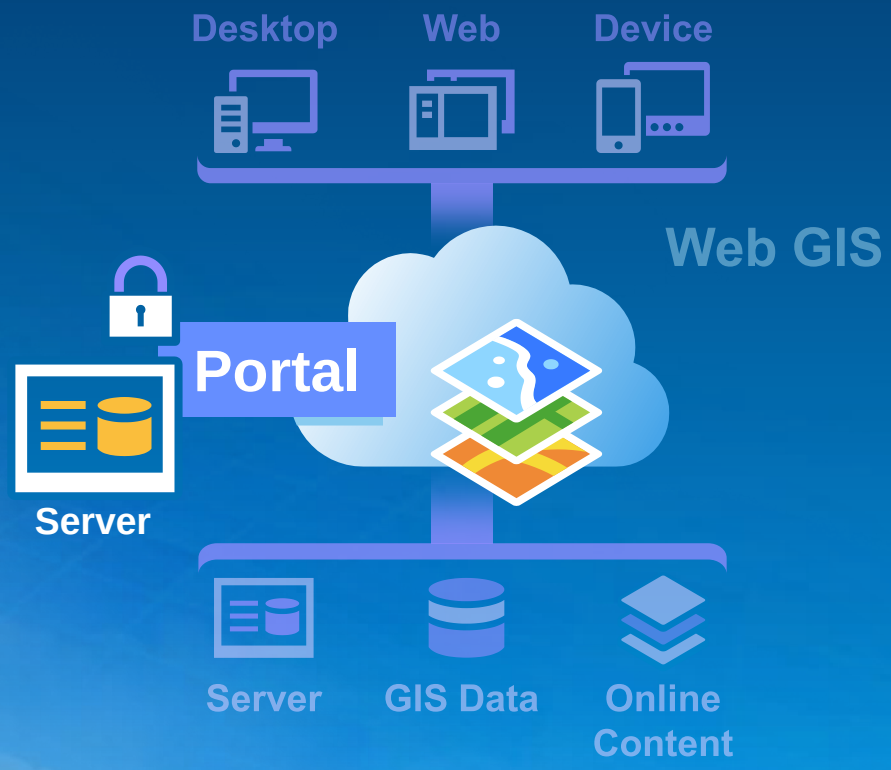
SaaS

Software

ArcGIS Online (Portal)	ArcGIS Online (Hosted Servers)	ArcGIS Online Services
Portal for ArcGIS	ArcGIS Server	ArcGIS Data Appliance

Portal for ArcGIS

New Extension to ArcGIS 10.2 for Server Advanced

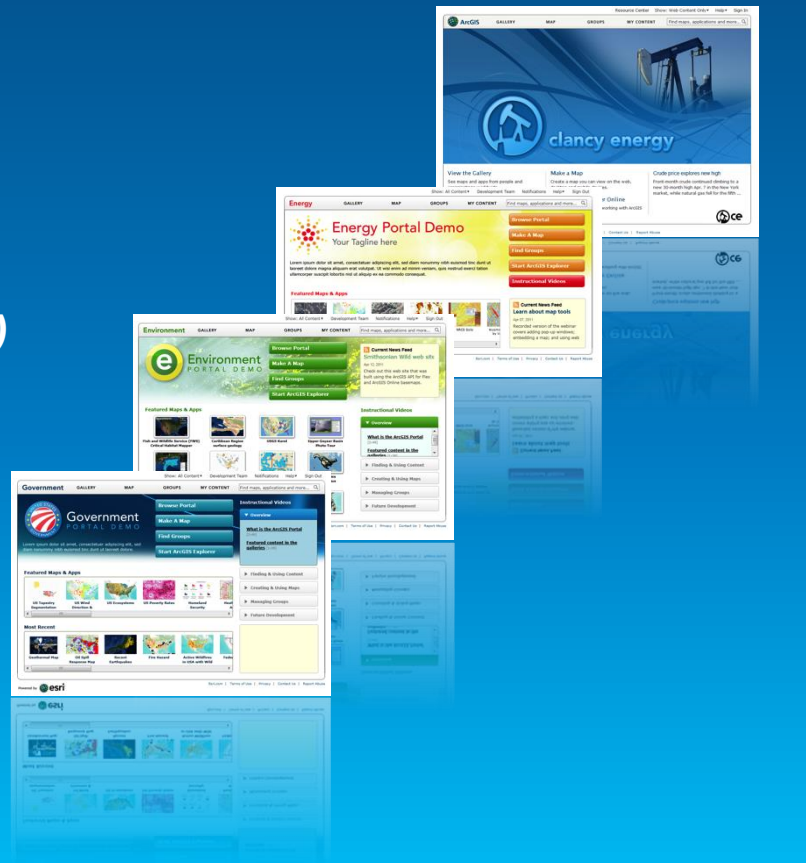


. . . Implements Web GIS on Premises

Portal for ArcGIS – COTS product at 10.2

The on-premises option

- **Map-centric content management system for your GIS assets**
- **Solution when**
  - **Additional security demands**
  - **No public cloud option**
- **Allows for**
  - **Enterprise integration *(e.g. security)***
  - **More extensive customization**



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
  - Are not ready for the cloud yet

- Typical reason for choosing **ArcGIS Online**
  - Lower overall cost (faster start, less admin costs)
  - Continuous updates and improvements
  - Elasticity

Portal for ArcGIS Themes

- Empower people to use and create maps
- Organize your maps and apps … enable discovery
- More apps … maps everywhere

Collector for ArcGIS

Operations Dashboard for ArcGIS

Esri Maps for Office
Esri Maps for SharePoint

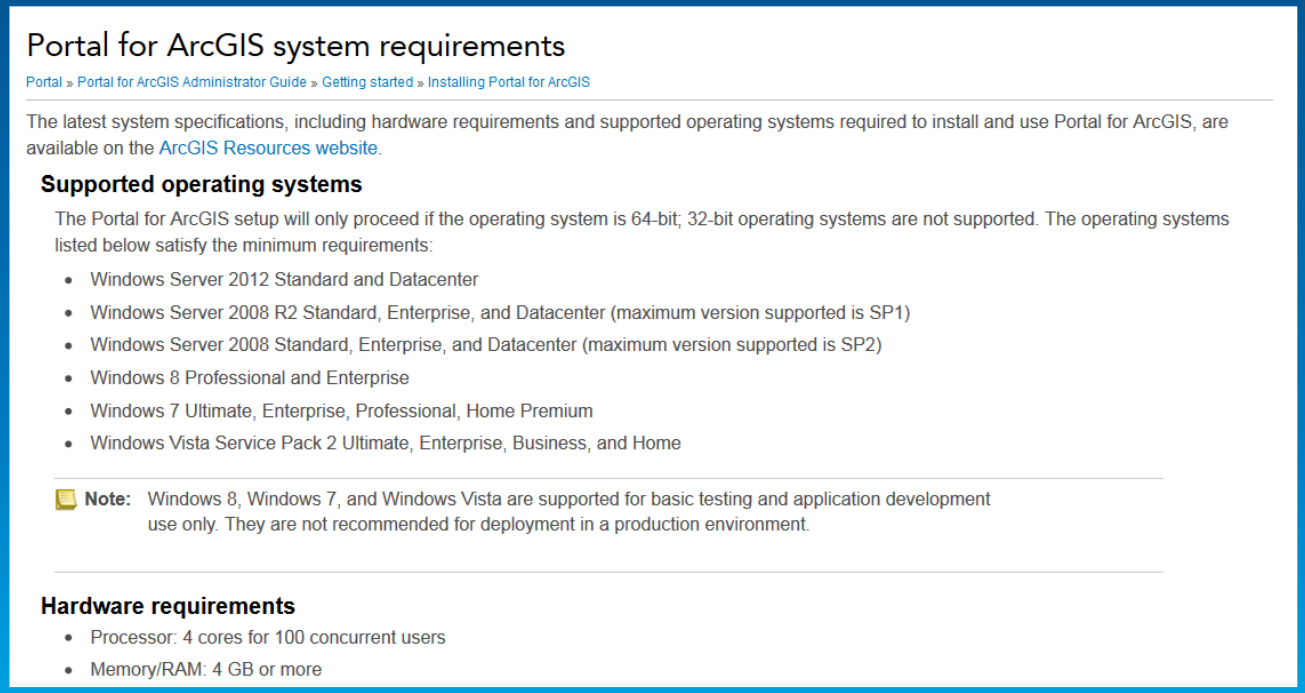
Web Application Templates

Demo

Web GIS
On-premises

Supported Operating Systems and hardware requirements

- View help documentation



Portal for ArcGIS system requirements

Portal » Portal for ArcGIS Administrator Guide » Getting started » Installing Portal for ArcGIS

The latest system specifications, including hardware requirements and supported operating systems required to install and use Portal for ArcGIS, are available on the ArcGIS Resources website.

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 systems listed below satisfy the minimum requirements:

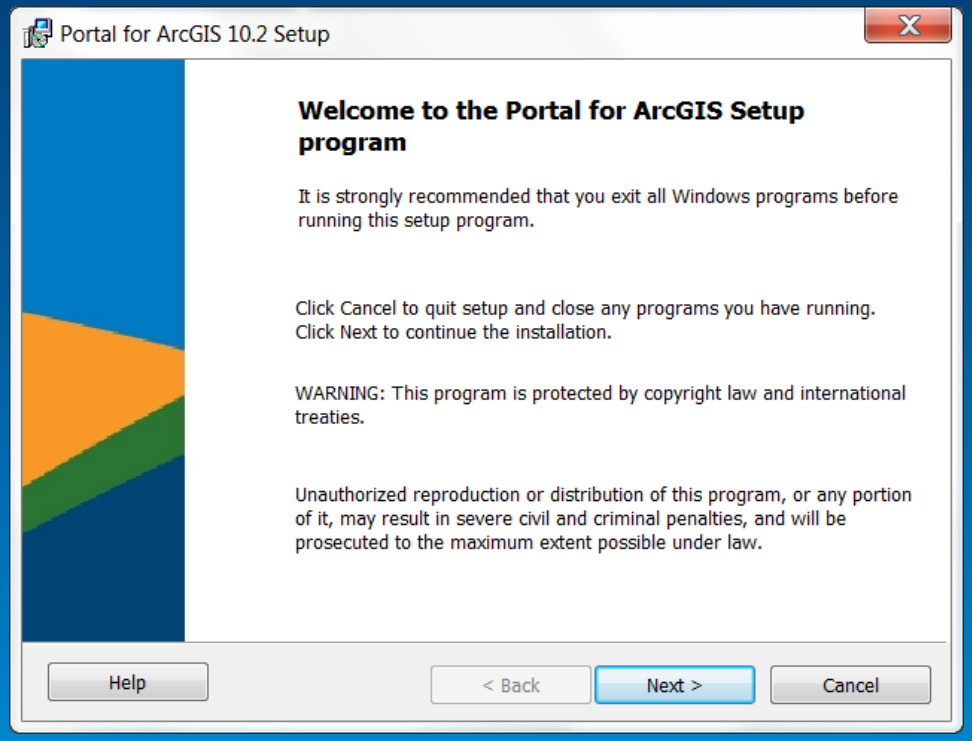
- Windows Server 2012 Standard and Datacenter
- Windows Server 2008 R2 Standard, Enterprise, and Datacenter (maximum version supported is SP1)
- Windows Server 2008 Standard, Enterprise, and Datacenter (maximum version supported is SP2)
- Windows 8 Professional and Enterprise
- Windows 7 Ultimate, Enterprise,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

Note: Windows 8, Windows 7, and Windows Vista are supported for basic testing and application development use only. They are not recommended for deployment in a production environment.

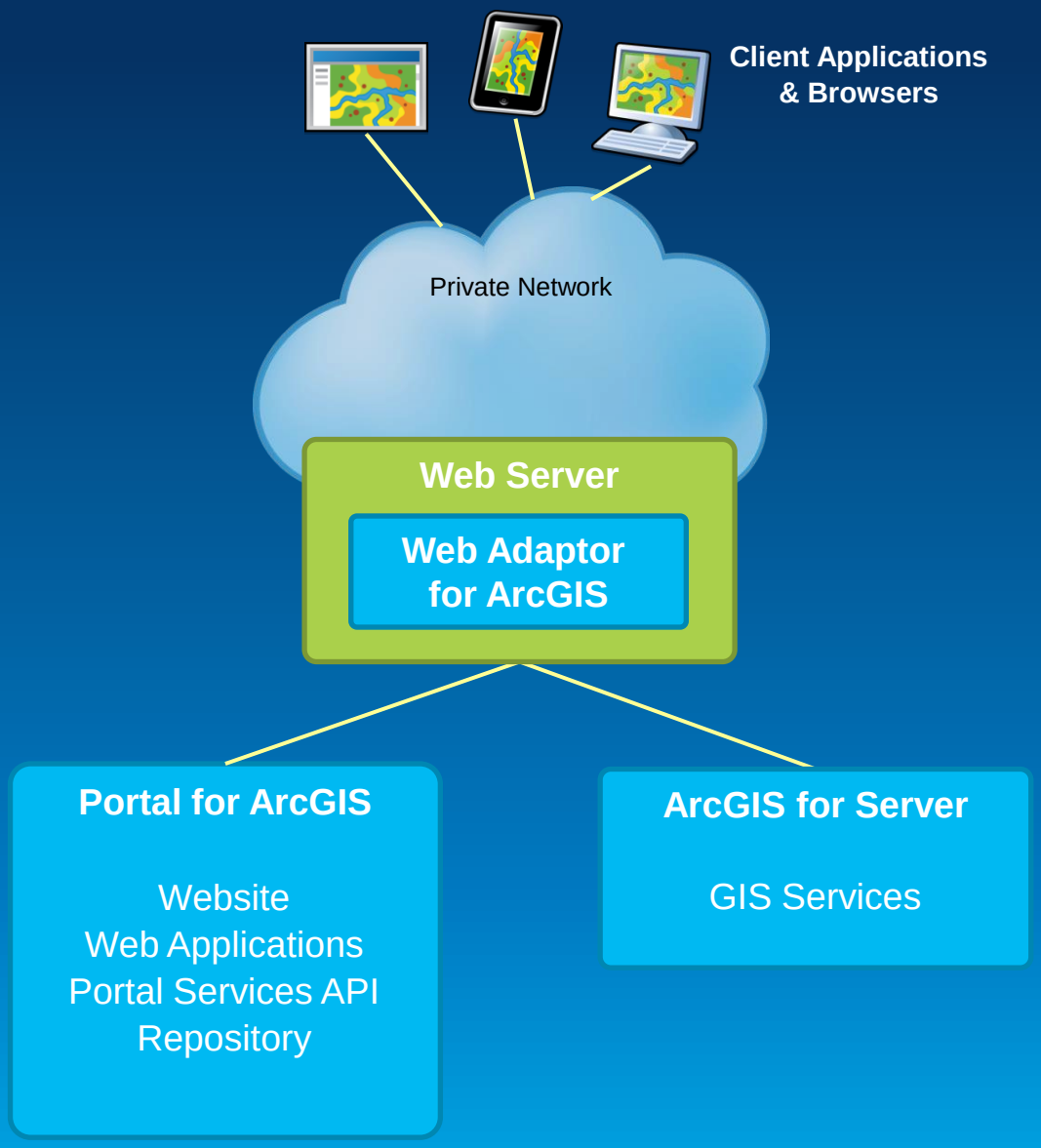
Hardware requirements

- Processor: 4 cores for 100 concurrent users
- Memory/RAM: 4 GB or more

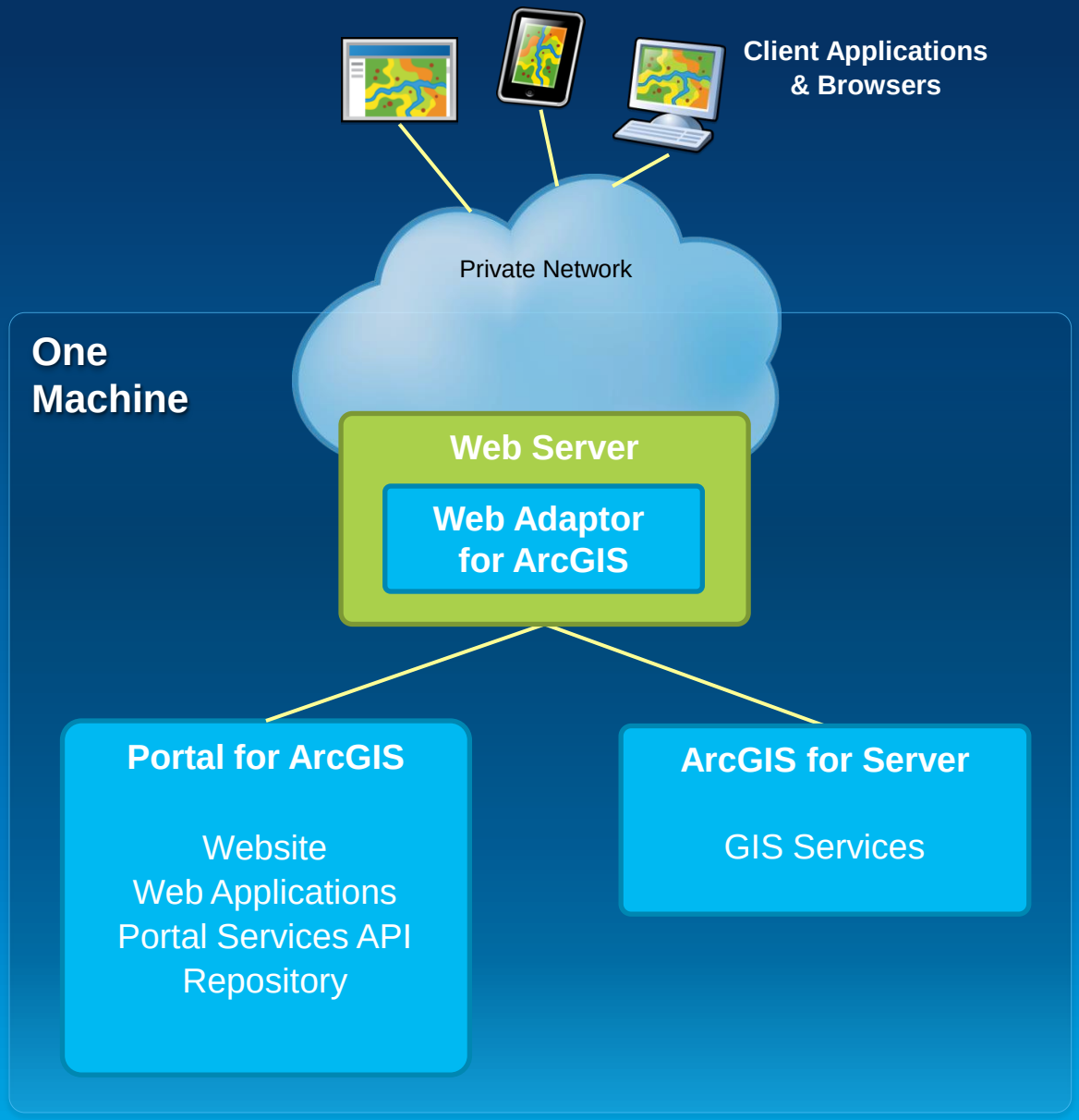
Installing Portal for ArcGIS



… runs on same platforms as ArcGIS for Server


Client Applications
& Browsers
Private Network
Web Server
Web Adaptor
for ArcGIS
Portal for ArcGIS
Website
Web Applications
Portal Services API
Repository
ArcGIS for Server
GIS Services

A


Client Applications
& Browsers
Private Network
One
Machine
Web Server
Web Adaptor
for ArcGIS
Portal for ArcGIS
Website
Web Applications
Portal Services API
Repository
ArcGIS for Server
GIS Services

A

Client Applications
& Browsers
Private Network
Machine
Machine
Web Server
Web Adaptor
for ArcGIS
Web Server
Web Adaptor
for ArcGIS
Portal for ArcGIS
Website
Web Applications
Portal Services API
Repository
ArcGIS for Server
GIS Services

A

Security

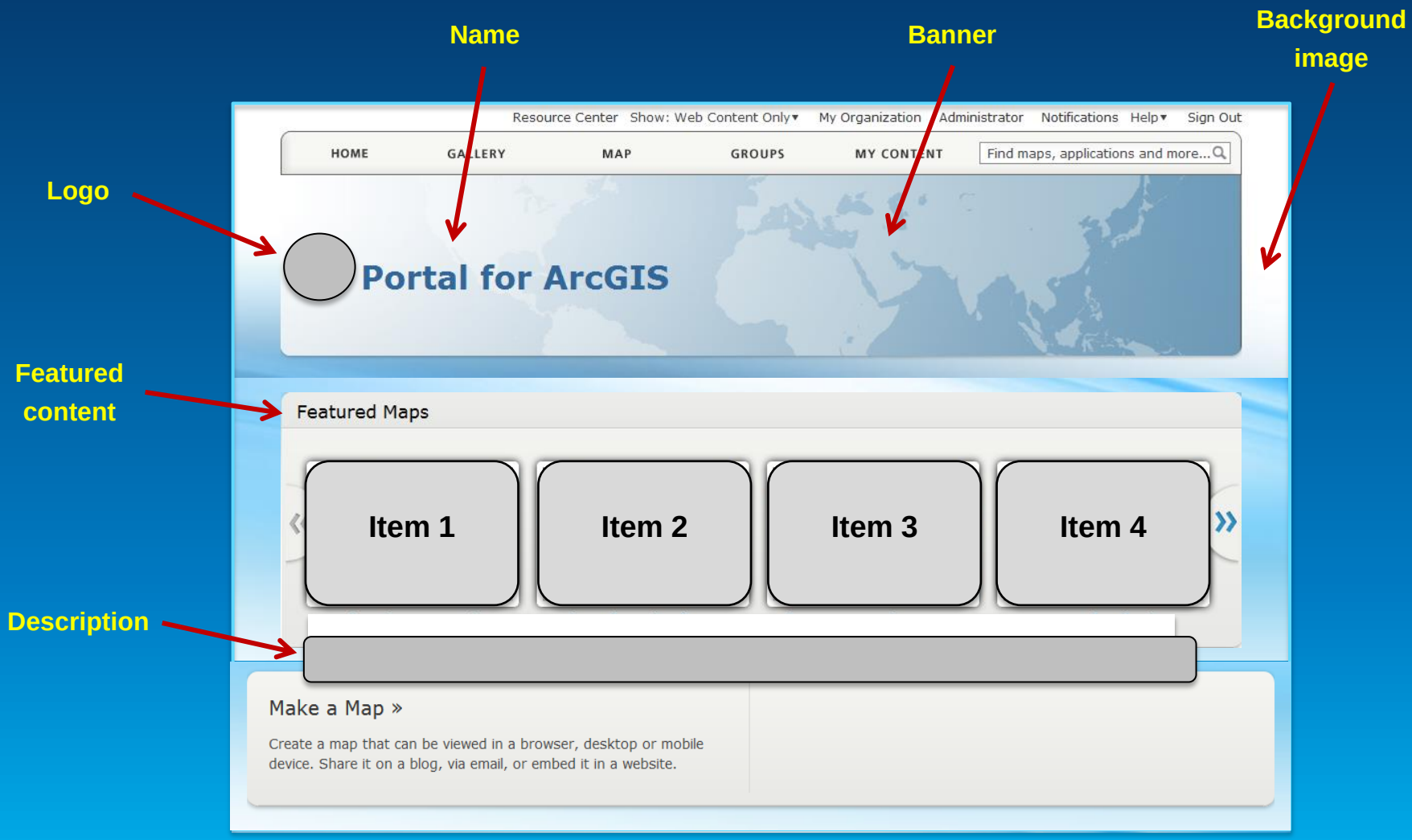
- **Authentication**
  - **Supports web tier auth, can provide SSO *(e.g. IWA, PKI)***
  - **Supports SSO to your ArcGIS Servers**
- **Users, Groups, and Roles**

Users	Groups	Roles
• Built-in • Enterprise *(LDAP, AD)*	• Built-in	• *Anonymous* • User • Publisher • Administrator

Define Groups that Mirror the Organization

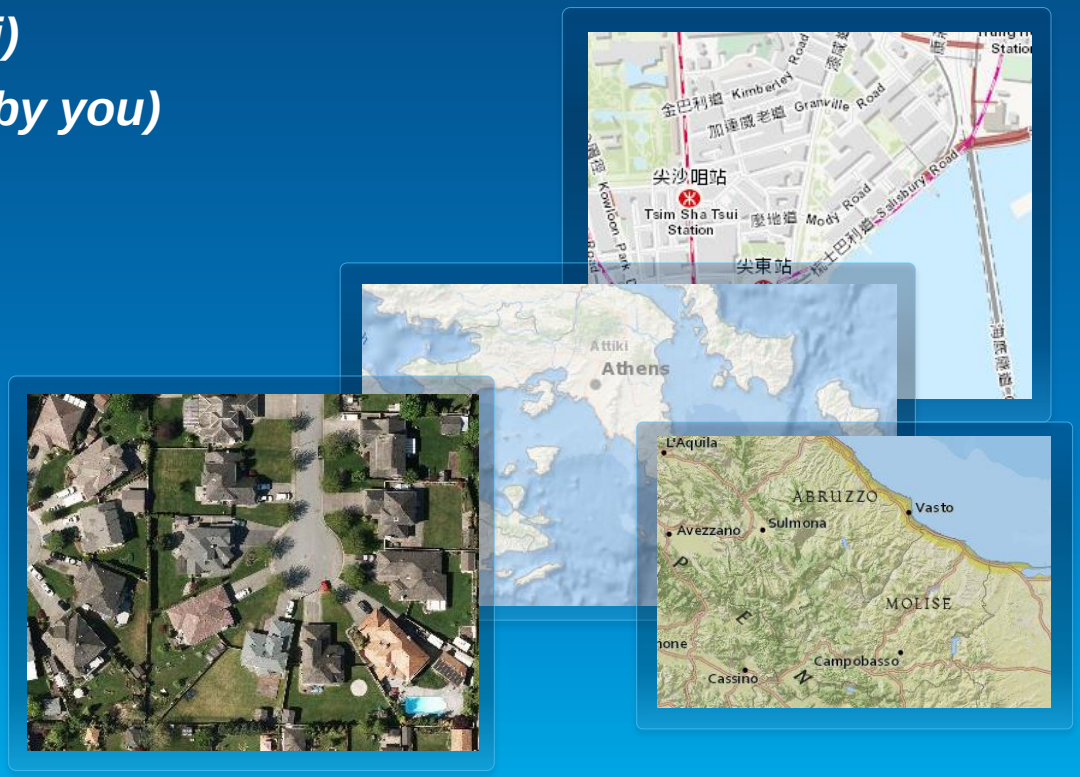
- Organize groups by
  - Theme or Initiative
    - Common and supportive content
  - Functional group/department
    - Based on organization's business units
  - Project
    - Based on specific projects/tasks
  - Ad-hoc
    - Prototyping, non-permanent temp projects, staging

Portal home page - Configurable



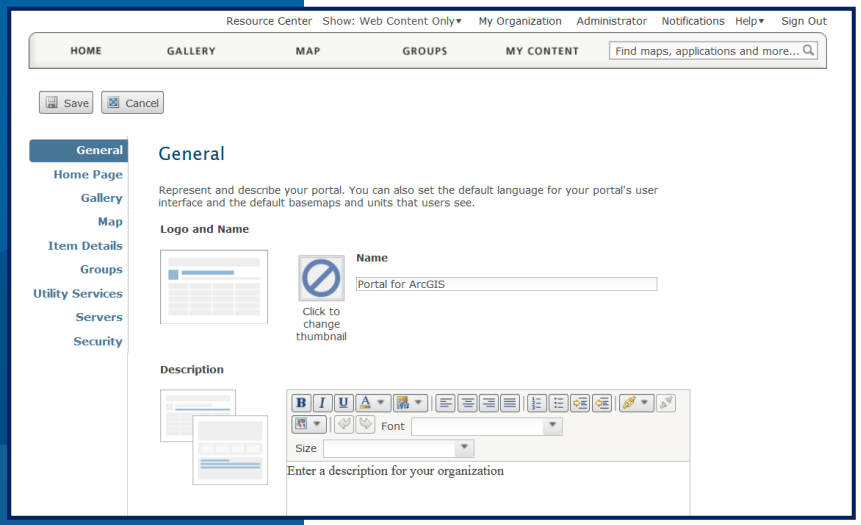
Basemaps & Utility Services

- **Important part of Web GIS**
- **Can be hosted:**
  - **Online *(by Esri)***
  - **On-Premises *(by you)***
  - **Both**



Demo

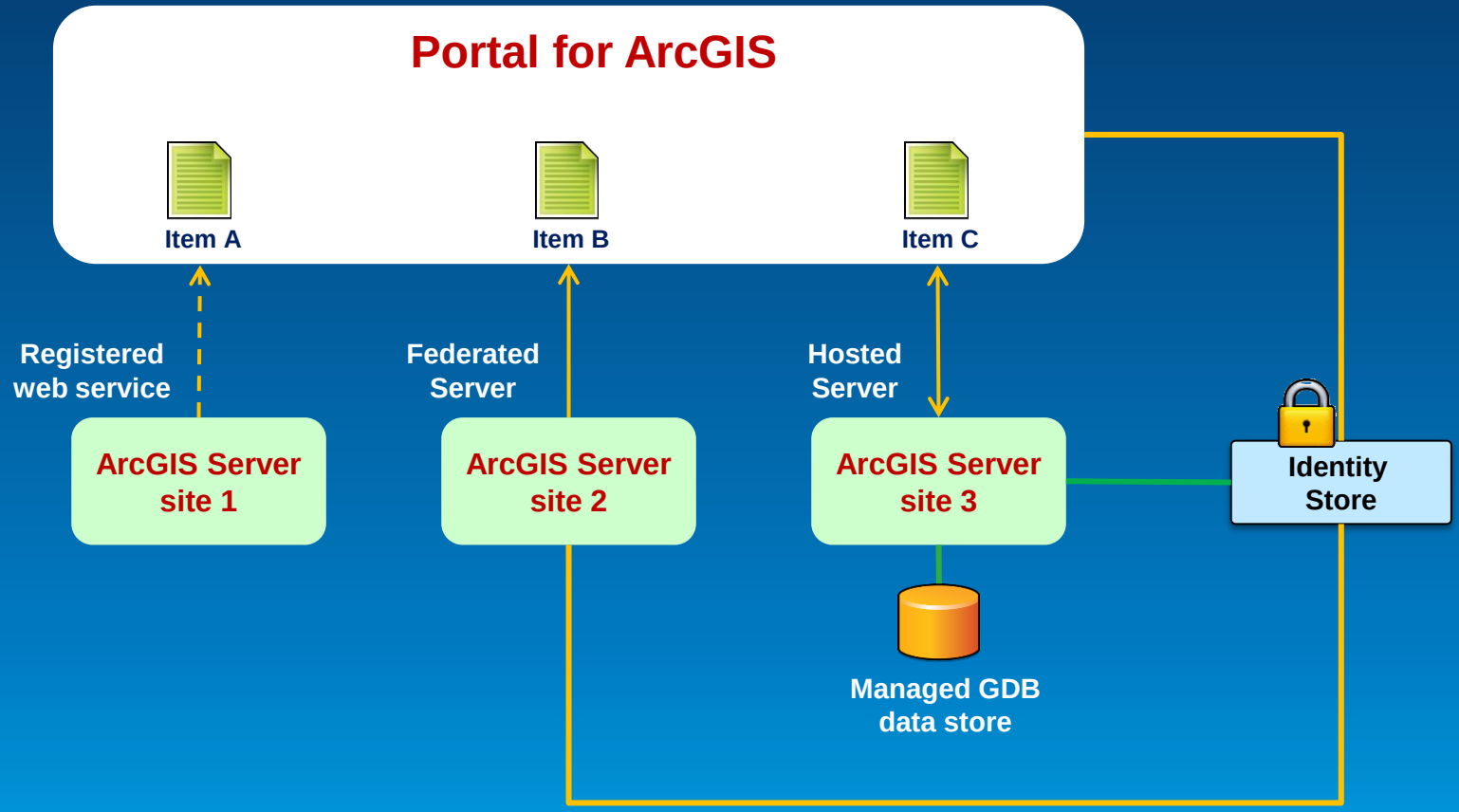
Configuring Portal for ArcGIS



Portal + ArcGIS for Server

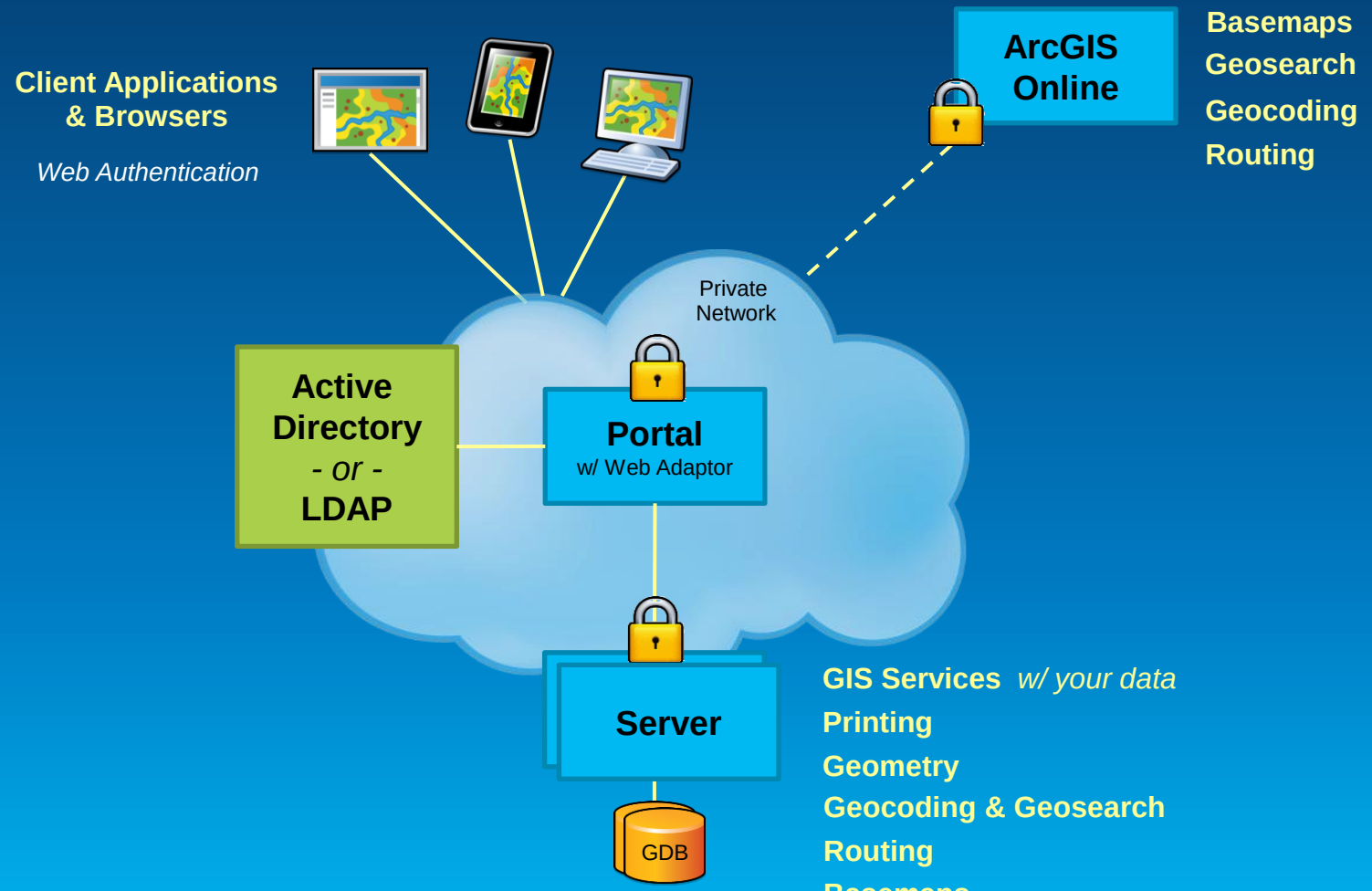
1. **Portal w/ registered services (available at 10.1)**
   - Managed and secures via Server
2. **Portal w/ registered and federated services**
   - Managed via Server, secured with Portal (SSO with Portal)
3. **Portal w/ registered, federated, and hosted services**
   - Managed and secured via Portal (Managed GDB)

Implementation Patterns



Implementation Patterns

Online - On-premises - Hybrid



A

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**

Implementation Tips

Beyond installation

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

Portal for ArcGIS - Summary

- Map-centric content management system
- Implements “Web GIS” on-premises
- Solution when
  - Additional security demands
  - No public cloud option

- Extension of ArcGIS 10.2 for Server Advanced

Understanding our world.

Copyright © 2013 All Rights Reserved