Federal GIS Conference 2014

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Deploying Portal for ArcGIS Within Your Own Infrastructure

Witt Mathot & Dan O'Leary





to use and create maps

More <u>apps</u>



Collector for ArcGIS



Operations Dashboard for ArcGIS





Maps everywhere

Organize your maps and apps



enable <u>discovery</u>

ArcGIS Is a Platform

Enabling GIS Everywhere

Simple Integrated Open



Available in the Cloud and On-Premises

Portal for ArcGIS

New Extension to ArcGIS for Server Advanced



. . Implements Web GIS on Premises

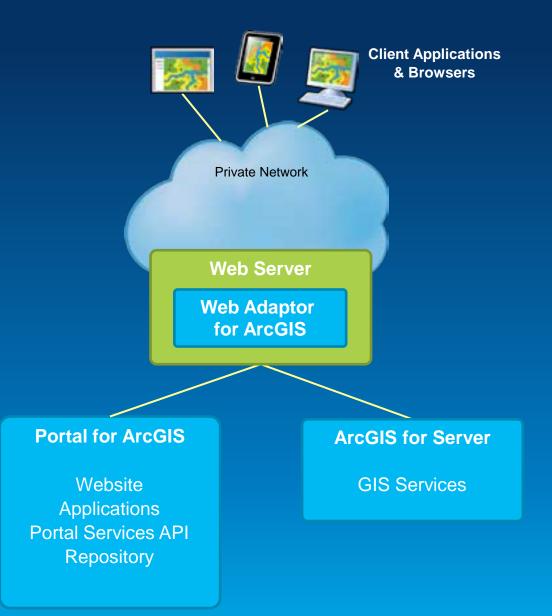
Portal Examples



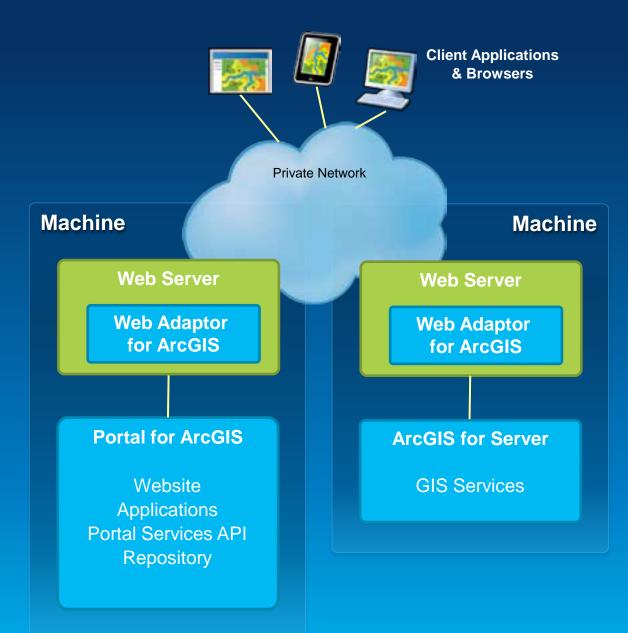
Portal for ArcGIS

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 System Requirements

Same Supported Operating Systems as ArcGIS 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

- Windows Server 2012 R2 Standard and Datacenter
- Windows Server 2012 Standard and Datacenter
- · Windows Server 2006 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

- 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

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Portal for ArcGIS

Your Web GIS Platform

Install & Configure Portal

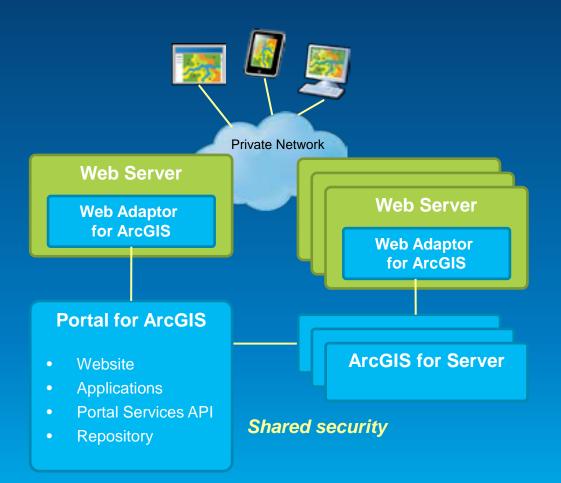
Using Your Portal with ArcGIS Server

Three Integration Approaches

- **1. Registering services**
- 2. Federating a server
- 3. Designating a hosting server

Federating a Server with Portal

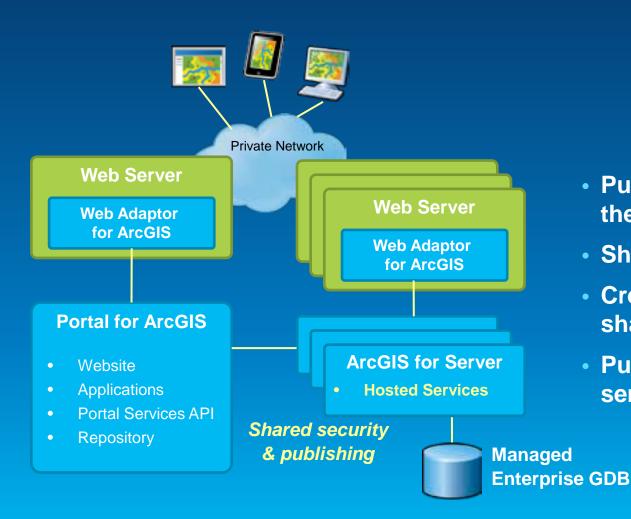
Integrates Security



- Provides SSO to secure services
- Access ArcGIS Server using Portal users
- Control access to services with the Portal sharing model
- Auto-sharing of services in Portal

Designating a Hosting Server for Portal

Enables Publishing



- Publish tiled map and feature services to the portal from ArcGIS for Desktop
- Share layers & maps from Excel
- Create maps by adding CSV files and shapefiles to the portal map viewer
- Publish CSV and shapefiles as feature services from the portal website

Your Web GIS Platform

ArcGIS for Server & Utility Services

Security

Integrates with Your Enterprise Security Infrastructure

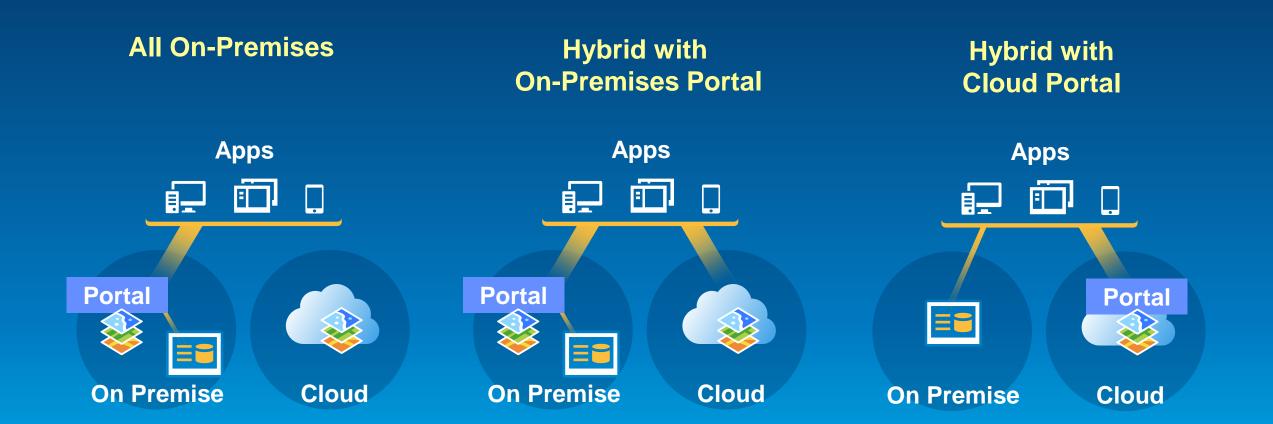
Authentication

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

Users	Groups	Roles
 Built-in Enterprise Active Directory LDAP 	• Built-in	 Anonymous User Publisher Administrator

Common Deployment Patterns for Government

On-Premises & Hybrid



Basemaps & Utility Services

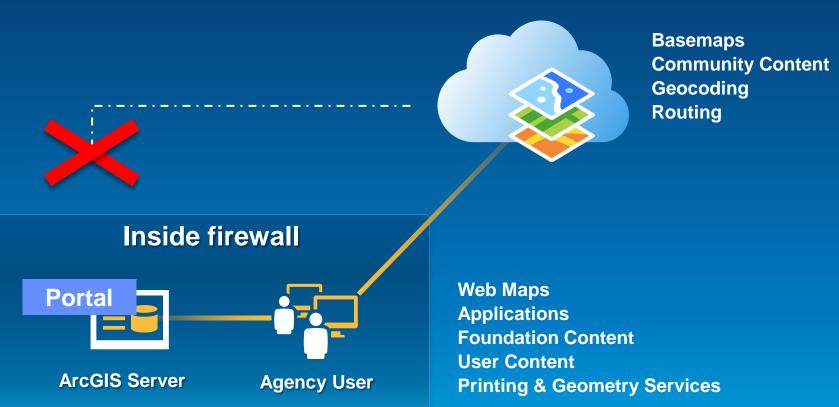
Important Consideration for an On-Premises Web GIS

- Includes:
 - Basemaps
 - Geocoding
 - Routing & Network Analysis
 - Geometric Operations
 - Printing
- Can be hosted:
 - Online (by Esri)
 - On-Premises (by you)
 - Both (combination)



Hybrid Pattern with an On-Premises Portal

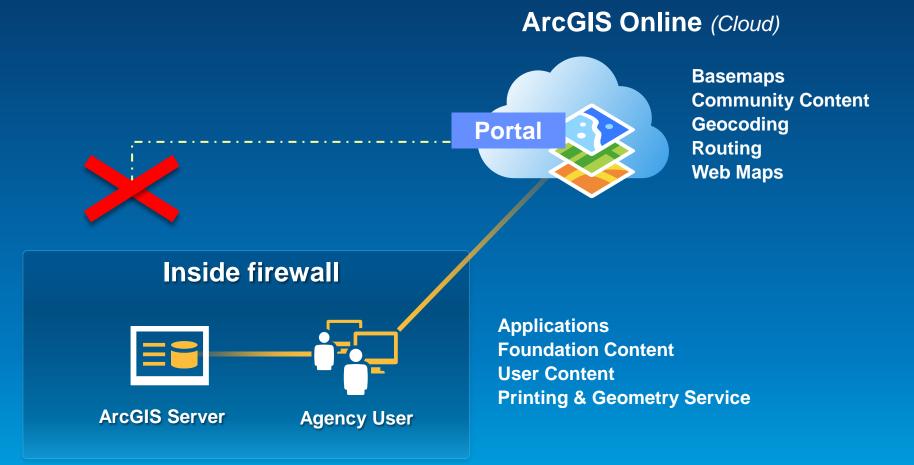
Deeper Dive



ArcGIS Online (Cloud)

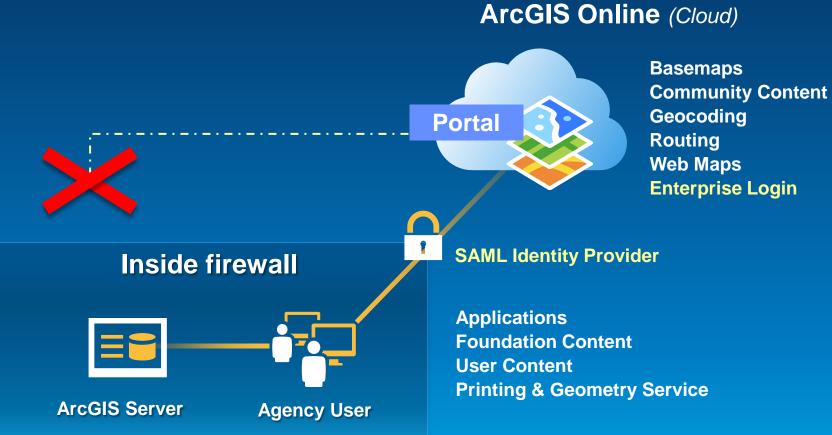
Hybrid Pattern with a Cloud Portal

Deeper Dive



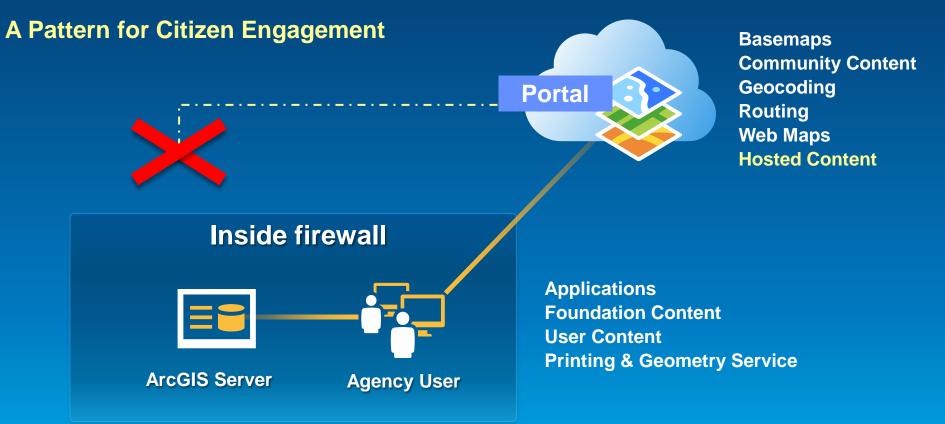
Hybrid Pattern with a Cloud Portal & Enterprise Logins

Deeper Dive



Hybrid Pattern with a Cloud Portal & Hosted Services

Deeper Dive



ArcGIS Online (Cloud)

Ready to Use Apps & Templates

Makes Mapping Easy and Accessible – Designed to Fit Your Workflows



Also

. . .

- Microsoft Office
- Landscape Analysis Apps
- Business Analyst
- Community Analyst
- Enterprise Systems (SAP, IBM...)

Your Web GIS Platform

Bringing It All Together

Deploying a GIS Platform

Requires More Than Technology



A Culture Sharing Data, Technology and Apps

Content is Key!

A Map Is Only as Good As the Data

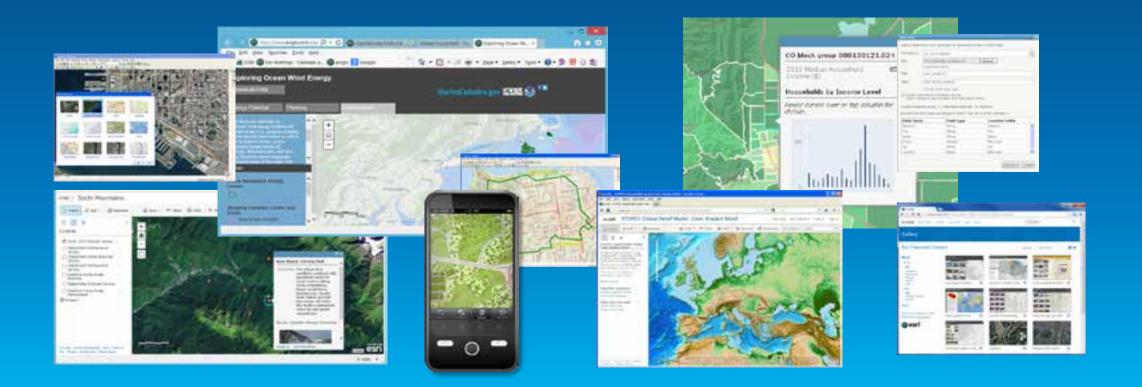
- Chinese Embassy in Belgrade Bombed 3 Maps Used (NY Times, CNN)
- Ship Grounds on Reef: Was the Chart Up-to-Date? (Breaking Defense)
- Success of Bosnia Peace Talks Rely On Map Content 2D & 3D (IBRU Bulletin)
- Incorrect Web Map Leads to Raid in Central America (Fox News)



ArcGIS Includes Content

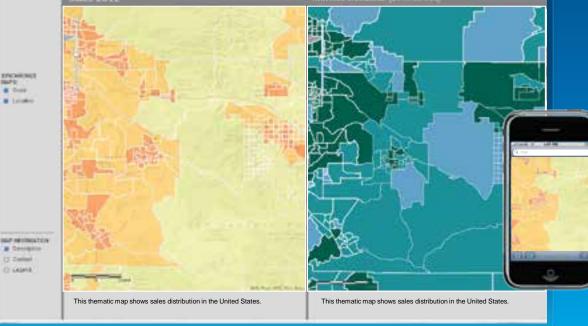
Ready to Use, Online or On-Premises

- Provided for the entire ArcGIS Platform (Desktop, Server, Mobile, Web)
- Easy to find, always available, and accessible to all users



Keys to Success

- Stay focused on the information products
- Embrace the idea of maps everywhere
- Model Portal af Sales versus Demand Market Demand (2000 control) Sales 2012 Consider the W TROUMS: 4.0-00 · Louise



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Thank You For Coming!





Understanding our world.