

Federal GIS Conference

February 9–10, 2015 | Washington, DC



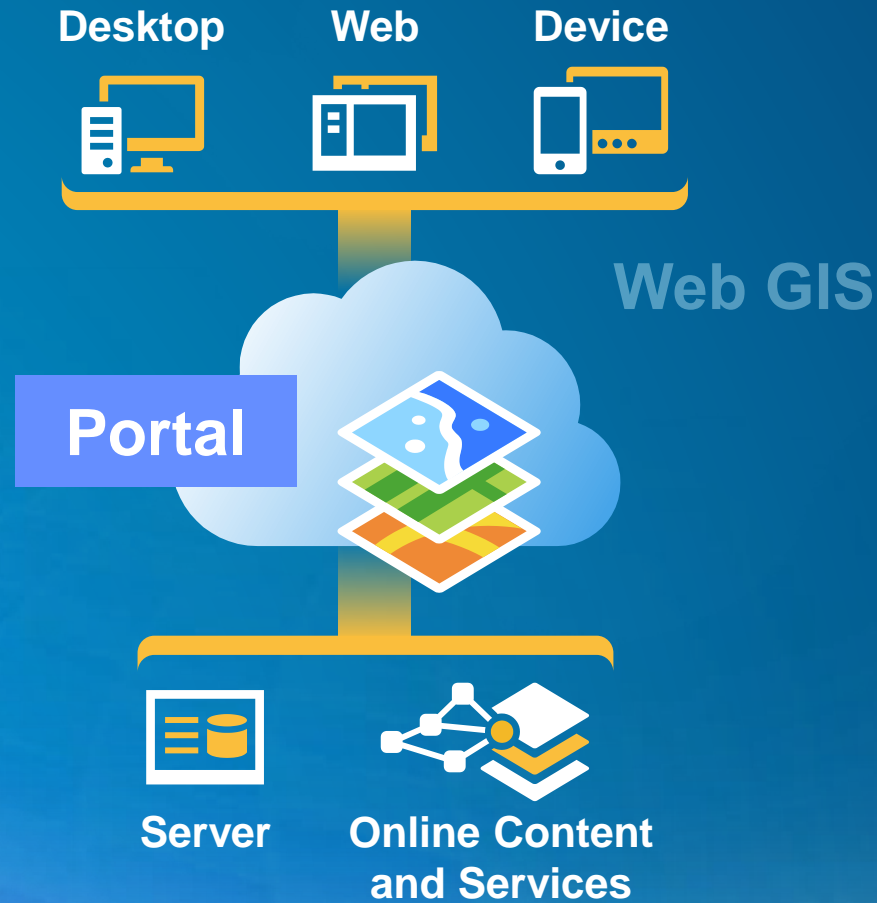
Deploying Portal for ArcGIS Within Your Own Infrastructure

Wittaker Mathot

ArcGIS Is a Platform

Enabling GIS Everywhere

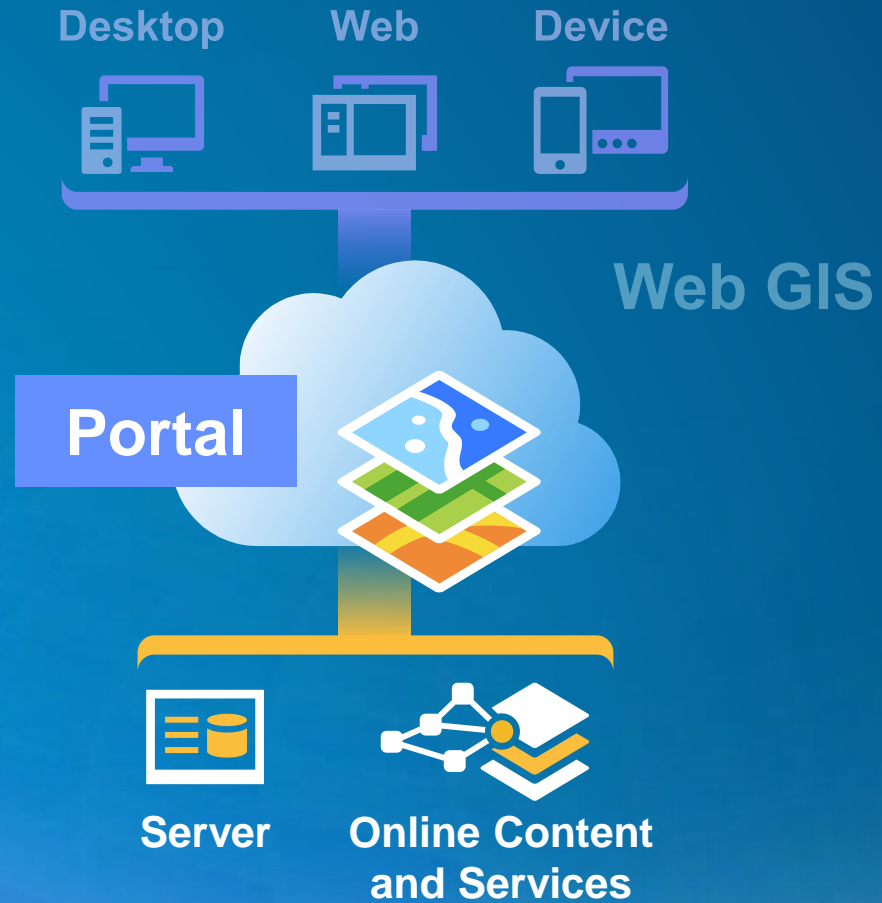
Simple
Integrated
Open



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

Portal for ArcGIS

Extension to ArcGIS for Server



... Implements Web GIS on Premises

Portal Examples



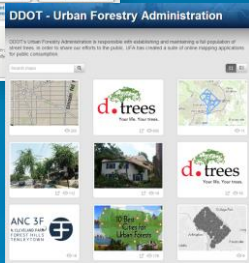
USDA



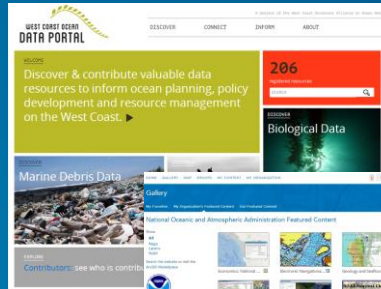
USDOT



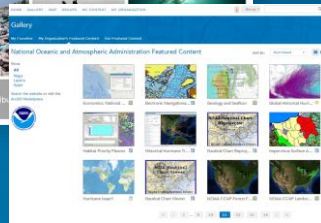
USFS Wildland Fires



DDOT/UFA



NOAA



DHS



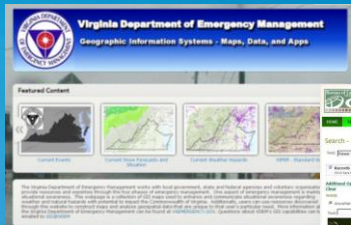
FEMA



FDA



Digital Humanitarian Network



VDEM



BLM



EPA



GEOSS



GEOPLATFORM.gov



GSA



GeoWB World Bank



US Senate

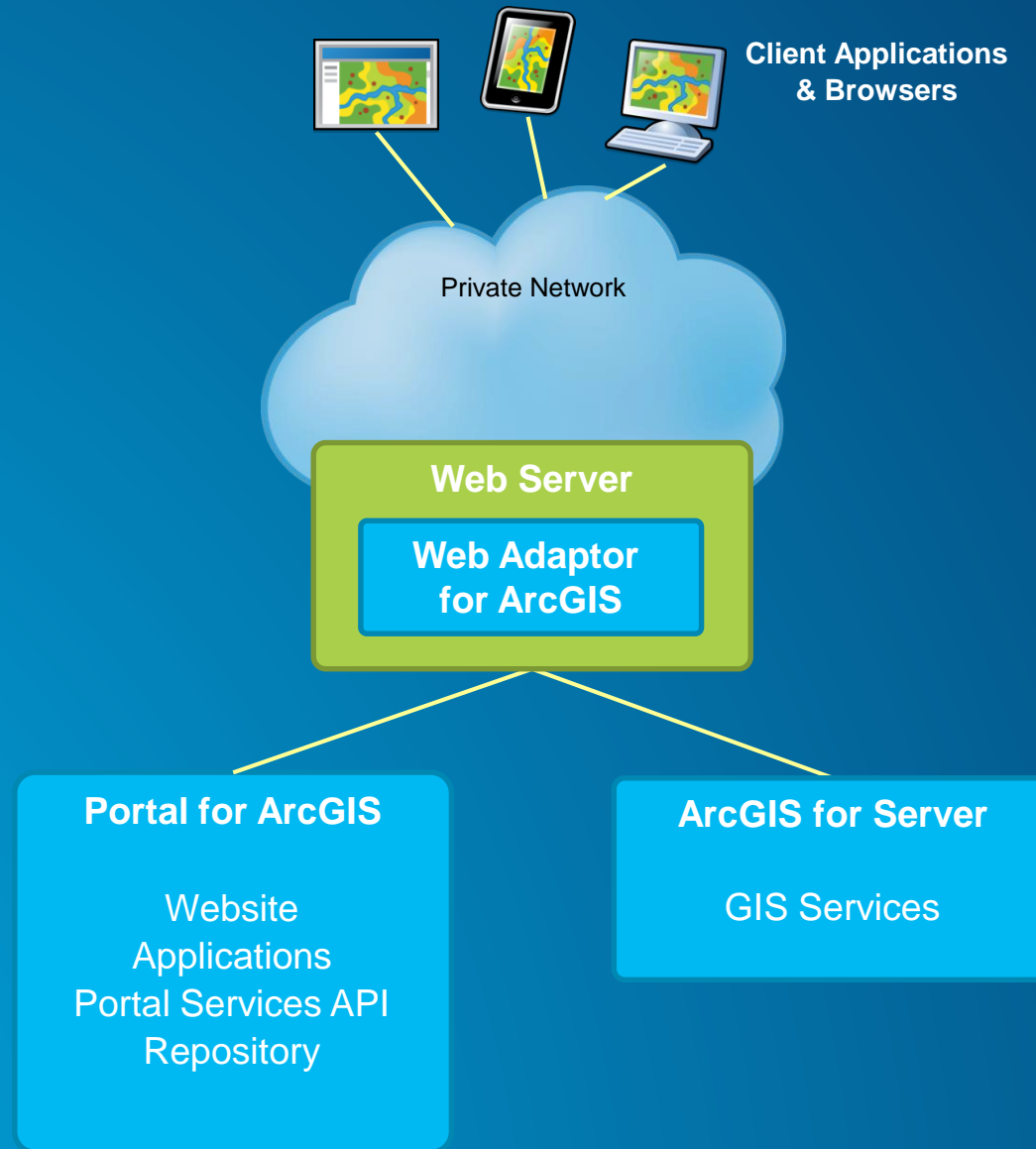


Senator James Risch

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

- 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, and Professional

Linux

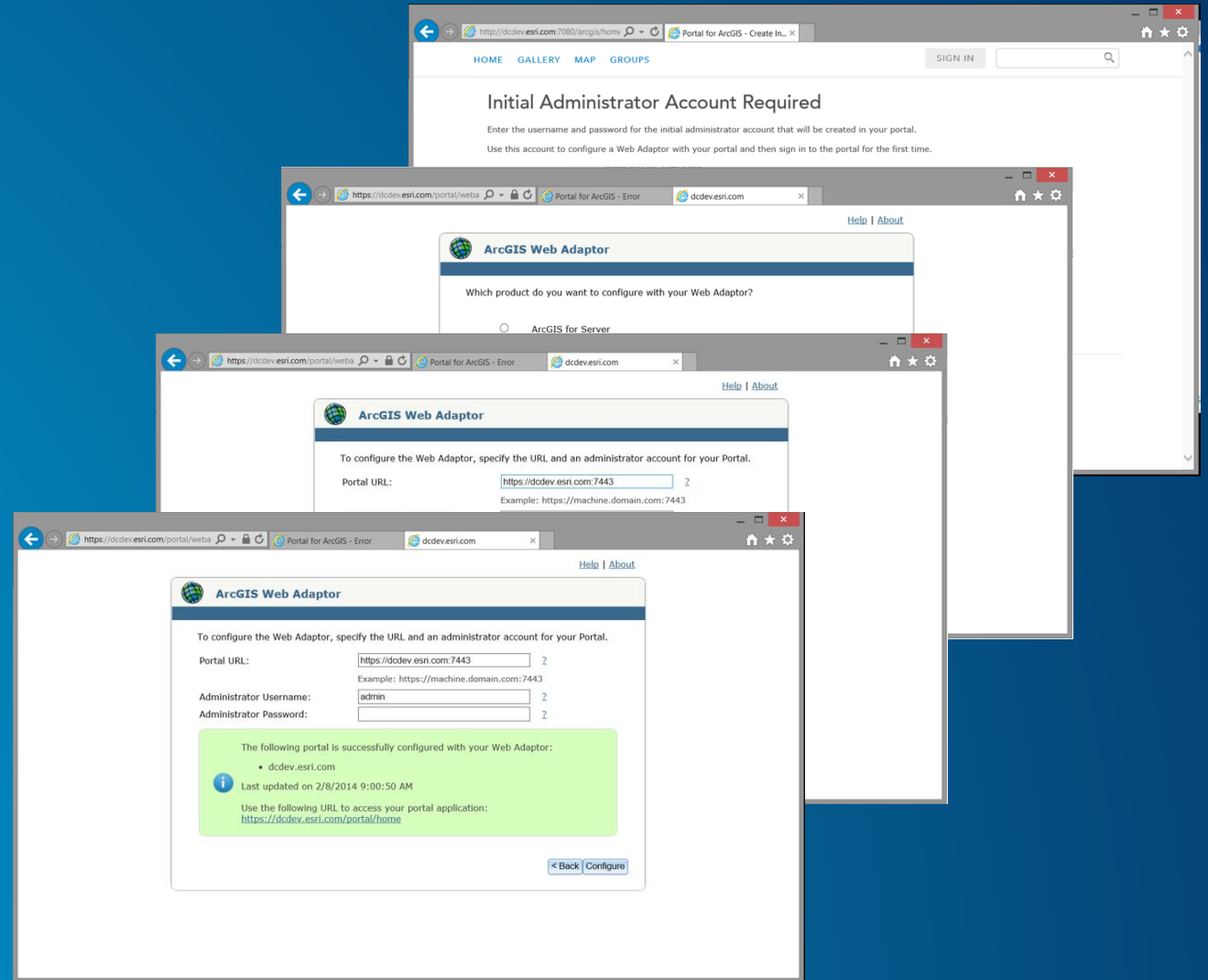
- Red Hat Enterprise Linux Server 6
- Red Hat Enterprise Linux Server 5 Update 7 with [libX11 patch](#)
- SUSE Linux Enterprise Server 11 Service Pack 1

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



Your Brand New Portal

Demo

Using Your Portal with ArcGIS Server

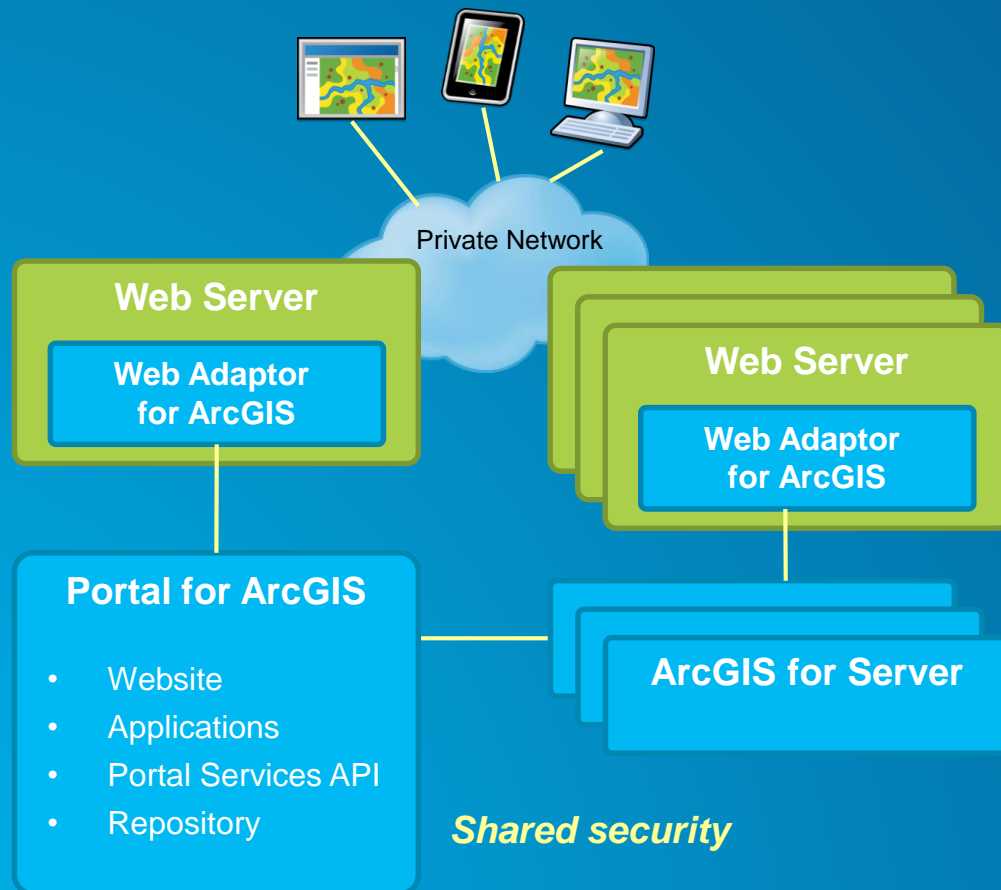
Three Integration Approaches

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



Federating a Server with Portal

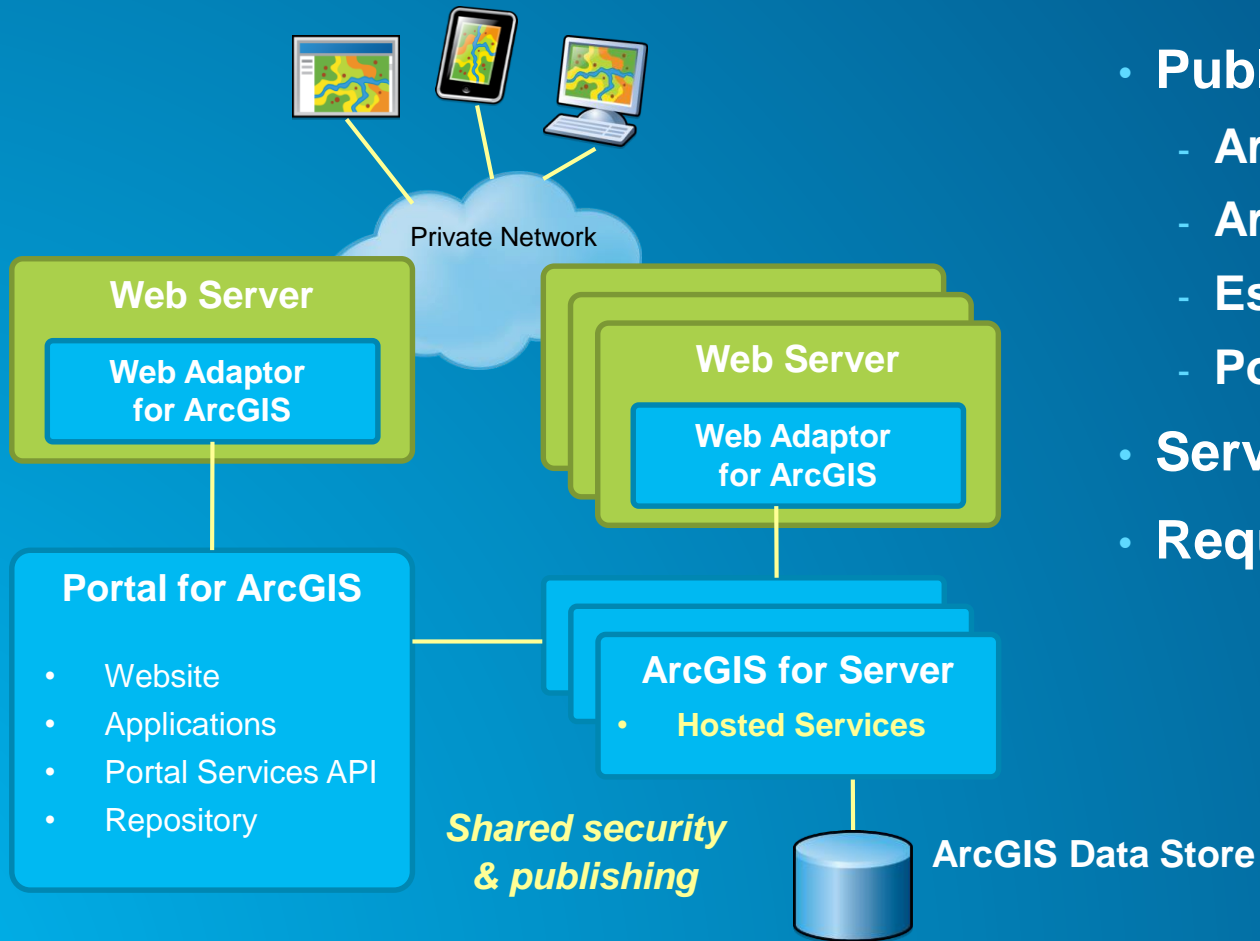
Integrates Security



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

Designating a Hosting Server for Portal

Enables Publishing



- Publish maps & layers from:
 - ArcMap
 - ArcGIS Pro
 - Esri Maps for Office
 - Portal Website
- Serves tiled map & feature services
- Requires publisher privileges

Publishing to Your Web GIS

Demo

Online Content & Services

Integral to a Web GIS

- **Includes:**

- Basemaps
- Imagery & Landscapes
- Geocoding
- Routing & Network Analysis
- Geometric Operations
- Printing

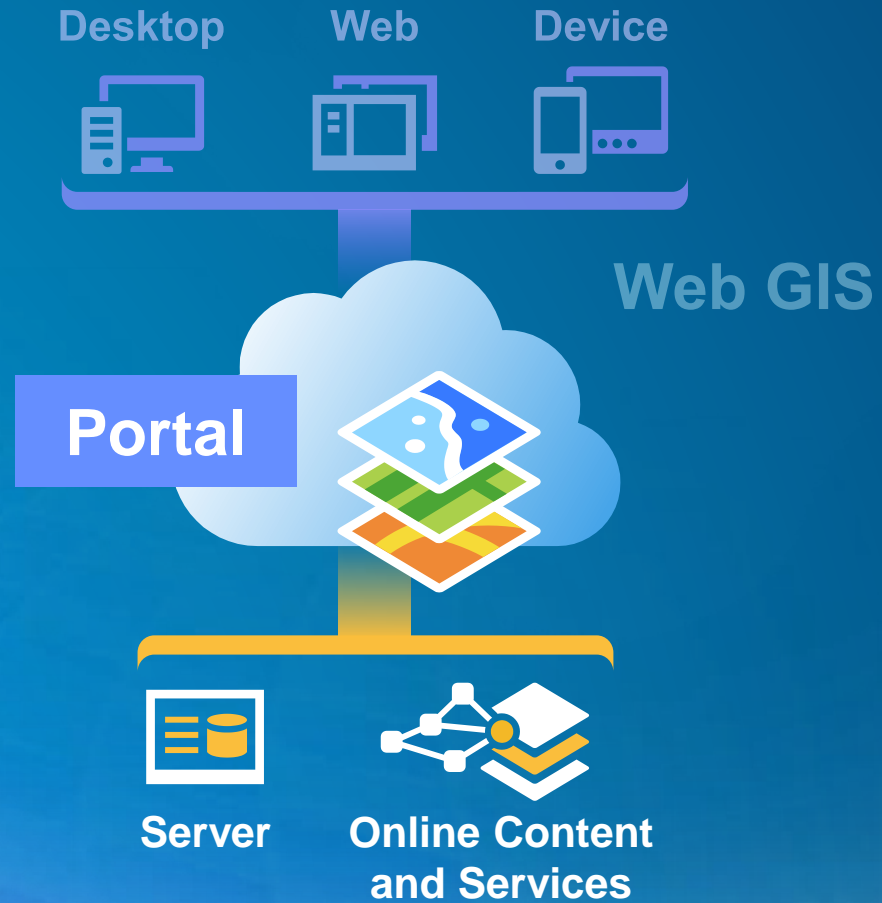
- **Can be hosted:**

- Online (*by Esri*)
- On-Premises (*by you*)
- Both (*combination*)



Portal for ArcGIS

Extension to ArcGIS for Server



... Implements Web GIS on Premises

Apps

Supporting Many Devices and Platforms



ANDROID

iOS / MAC

WINDOWS

WEB BROWSERS

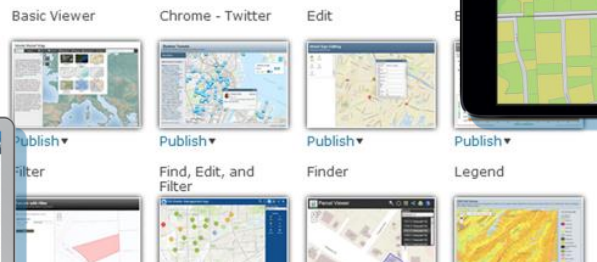
Apps

Ready to Use

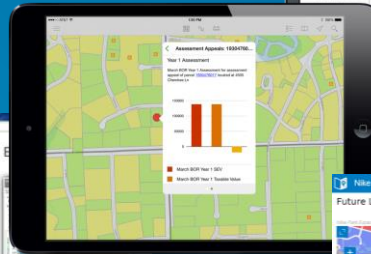
Story Maps



Web
Templates



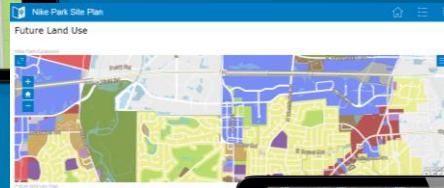
Explorer



Dashboard



Briefing Book



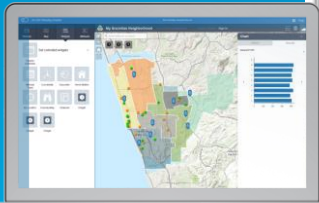
Collector



Online - Offline Support



Web
AppBuilder



Portal Website



Workflow Driven Apps

Part of Your Web GIS Powered by Your Portal

App Builders

Web AppBuilder in Portal 10.3

The screenshot displays the ArcGIS WebApp Builder interface. On the left, there are several panels: a 'Print' panel with options for map title, layout, and format; a 'Bookmark' panel showing a grid of image thumbnails; and a 'Map Locations' panel with a pie chart and a table of locations. The main area features a map of the Encinitas neighborhood with various widgets overlaid, including a 'Set controlled widgets' panel, a 'Map Locations' panel, and a 'Chart' panel. The 'Chart' panel shows a bar chart with the title 'New20130T' and a y-axis ranging from 0 to 400. The map shows various colored regions and markers.

Latitude	Longitude	Date	City	State	Country	Event	Team	Venue	url	PID	CreatedDate	Creator	ModifiedDate
29.730278	-95.438	05/1992 9:00:00 PM	Houston	TX	USA		2nd Int Lag	The Summit	http://en.wikipedia.org	12	4/16/2013 12:28:56 AM	cmahina_3880	4/16/2013 12:28:56 AM
41.311480	-72.829511	12/13/1990 4:00:00 PM	New Haven	CT	USA		2nd Int Lag	Travis Place	http://en.wikipedia.org	13	4/16/2013 12:25:55 AM	cmahina_3880	4/16/2013 12:25:55 AM
30.270888	-97.732378	06/1992 9:00:00 PM	Austin	TX	USA		2nd Int Lag	Frank Bess Center	http://en.wikipedia.org	14	4/16/2013 12:25:55 AM	cmahina_3880	4/16/2013 12:25:55 AM
30.851839	-75.163908	12/14/1990 4:00:00 PM	Philadelphia	PA	USA		2nd Int Lag	Wijou Cafe	http://en.wikipedia.org	15	4/16/2013 12:25:55 AM	cmahina_3880	4/16/2013 12:25:55 AM
33.424517	-111.930943	02/1992 9:00:00 PM	Tempe	AZ	USA		2nd Int Lag	Arthur Center Arizona State U	http://en.wikipedia.org	16	4/16/2013 12:25:55 AM	cmahina_3880	4/16/2013 12:25:55 AM

AppStudio For Building Native Apps ... Coming Soon!

Security

Integrates with Your Enterprise Security Infrastructure

- **Authentication**

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

- **Users, Groups, and Roles**

Users

- Built-in
- Enterprise
 - *Active Directory*
 - *LDAP*

Groups

- Built-in
- Enterprise
 - *Active Directory*
 - *LDAP*

Roles

- *Anonymous*
- User
- Publisher
- Administrator
- Custom

Securing Your Web GIS

Demo

High Availability

Multi-Machine Deployments Supported at 10.3

▸ Introduction

▸ Step 1: Planning how you'll use Portal for ArcGIS

▸ Step 2: Verifying system requirements

▸ Step 3: Adjusting firewall settings

▸ Step 4: Installing Portal for ArcGIS

▸ Step 5: Defining the initial administrator account

▸ Step 6: Configuring the Web Adaptor with Portal for ArcGIS

▸ Localizing Portal for ArcGIS

▾ Administering Portal for ArcGIS

Changing the portal content directory

▸ Changing the Portal for ArcGIS account

Check for software patches and updates

Configuring a disconnected deployment

Configuring a highly available portal

Configure utility services

Configuring HTTPS

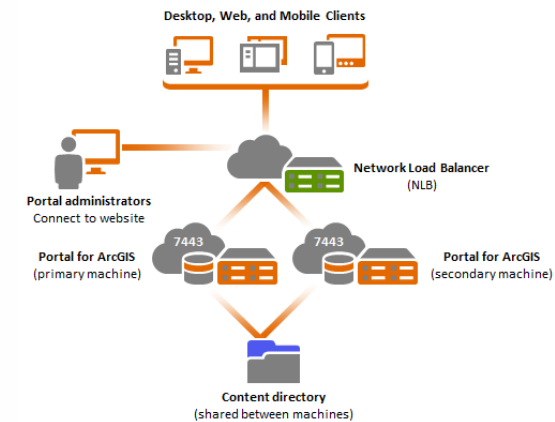
Configuring a highly available portal

Viewing: [Windows](#) | [Linux](#)

- Prerequisites for configuring a highly available portal
- Configuring a highly available portal
- Check the status of a highly available portal
- Delete a highly available portal
- Troubleshooting

In an organization where downtime must be minimized, Portal for ArcGIS needs to be configured in a highly available fashion. The way you achieve this is by installing the software on two machines and configuring them using an installed utility.

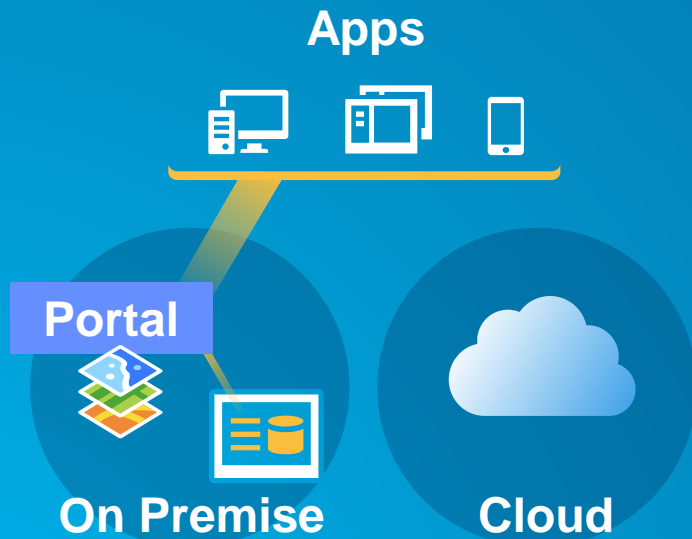
Configuring high availability is an advanced task that requires an extensive understanding of portal administration, scripting, and networking. Before you install and configure Portal for ArcGIS, you'll be required to configure your organization's load balancer to forward requests to the portal software. Additionally, you'll also need to set up a file server to contain the portal's content directory. It's recommended that you coordinate with your organization's information technology staff so they understand the requirements for configuring a highly available portal.



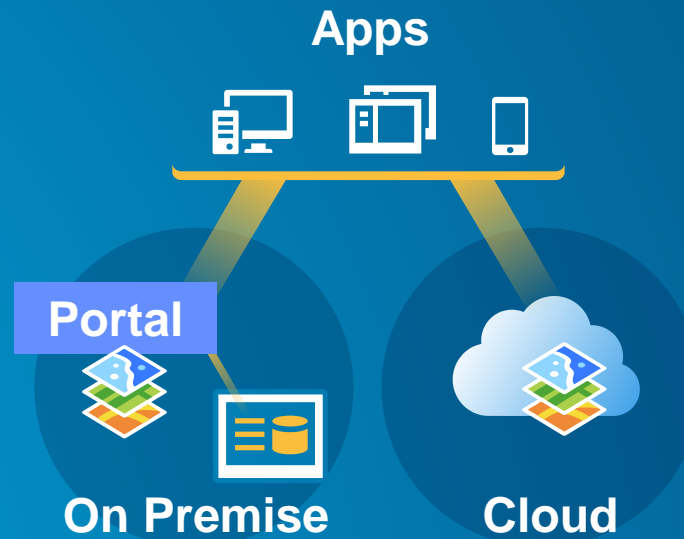
Common Deployment Patterns for Government

On-Premises & Hybrid

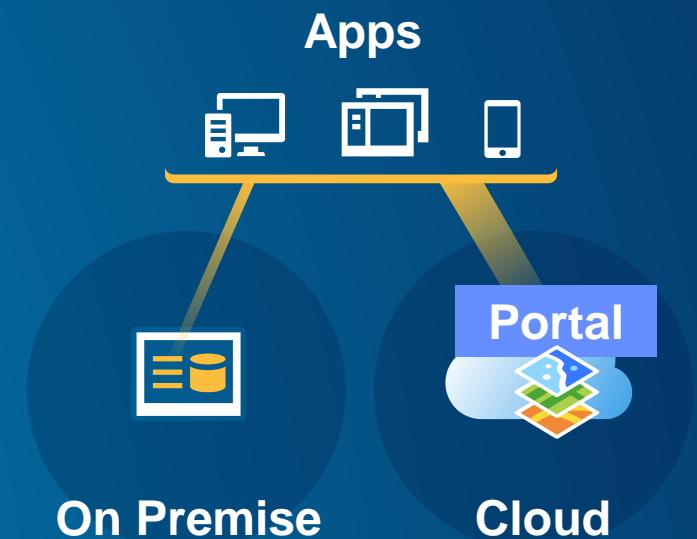
All On-Premises



Hybrid with On-Premises Portal



Hybrid with Cloud Portal



What's New in 10.3

... a Lot

- **Web AppBuilder**
- **More Web Apps**
- **Web Scenes**
- **Enterprise Groups**
- **Custom Roles**
- **SAML**
- **Favorites**
- **Operations Dashboard for Web**
- **Unit System Control**
- **Last Login Record**
- **Search Features in Web Map**
- **Edit URL of Service Items**
- **Control Over Map Copying**
- **Save Layers as New Items**
- **Text Notes**
- **Labeling Features**
- **Geocode Autocomplete**
- **High Availability**
- **Delete Protection**
- **Multiple Locators**
- **ArcGIS Data Store**

*Apps Updating All of the Time...
... and Lots in the Works for the Next Release*

To Learn More ...

server.arcgis.com

ArcGIS for Server DOCUMENTATION SUPPORT SEARCH Sign In

Portal for ArcGIS

Home Use Administer

Current Version: 10.3 **Released:** December 2014

Organize and share information throughout your organization via maps and apps.

Configure Your Website

Configure your portal website to meet the requirements of your organization. Change how portal web pages appear, and set which services, basemaps, templates, galleries, and groups are available.

[Show me how >](#)

Manage Access

Manage the accounts that will access your portal, grant privileges, and secure your portal by disabling anonymous access, implementing SSL, and restricting the portal's proxy capability.

[Show me how >](#)

Quick Links

- [What's new for users at 10.3?](#)
- [What's new for administrators at 10.3?](#)
- [System requirements](#)
- [Installation guide](#)
- [Download at My Esri](#)

Related components

- [ArcGIS for Server](#)
- [GeoEvent Extension](#)
- [All installation guides](#)

New to ArcGIS?

- [Learn ArcGIS lessons](#)
- [Foundational ArcGIS training courses](#)

Documentation for previous releases

- [10.2](#)
- [10.1 and earlier](#)

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**Don't forget to complete
a session evaluation form!**

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Print your customized Certificate of Attendance!

Printing stations located on L St. Bridge, next to registration

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GIS Solutions EXPO, Hall D

Monday, 12:30pm – 6:30pm

Tuesday, 10:45 AM–4:00 PM

- Exhibitors
- Hands-On Learning Lab
- Technical & Extended Support
- Demo Theater
- Esri Showcase

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Networking Reception:

National Museum of American History

Tuesday, 6:30 PM–9:30 PM
Bus Pickup located on L Street

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Interested in diving deeper into Esri technology?

Add a day to your Fed GIS experience and register to attend the Esri DevSummit Washington DC. Stop by the registration counter to sign up.



Understanding our world.