Federal GIS Conference
February 9–10, 2015 | Washington, DC

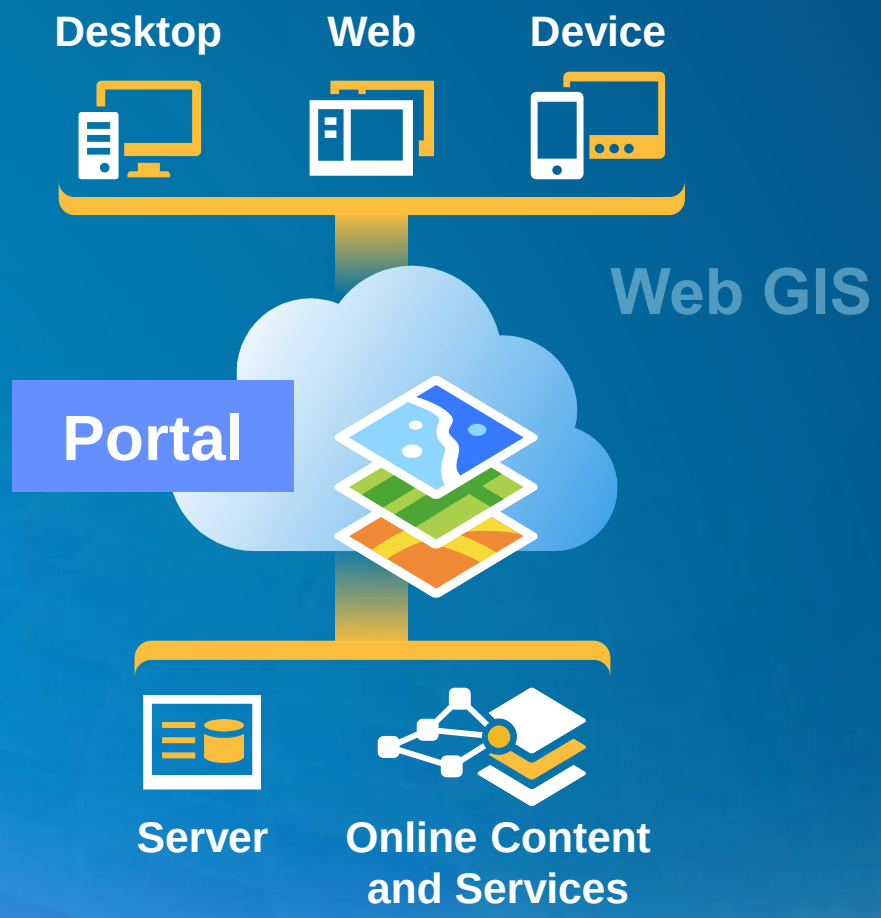
Deploying Portal for ArcGIS Within Your Own Infrastructure

Wittaker Mathot

ArcGIS Is a Platform

Enabling GIS Everywhere

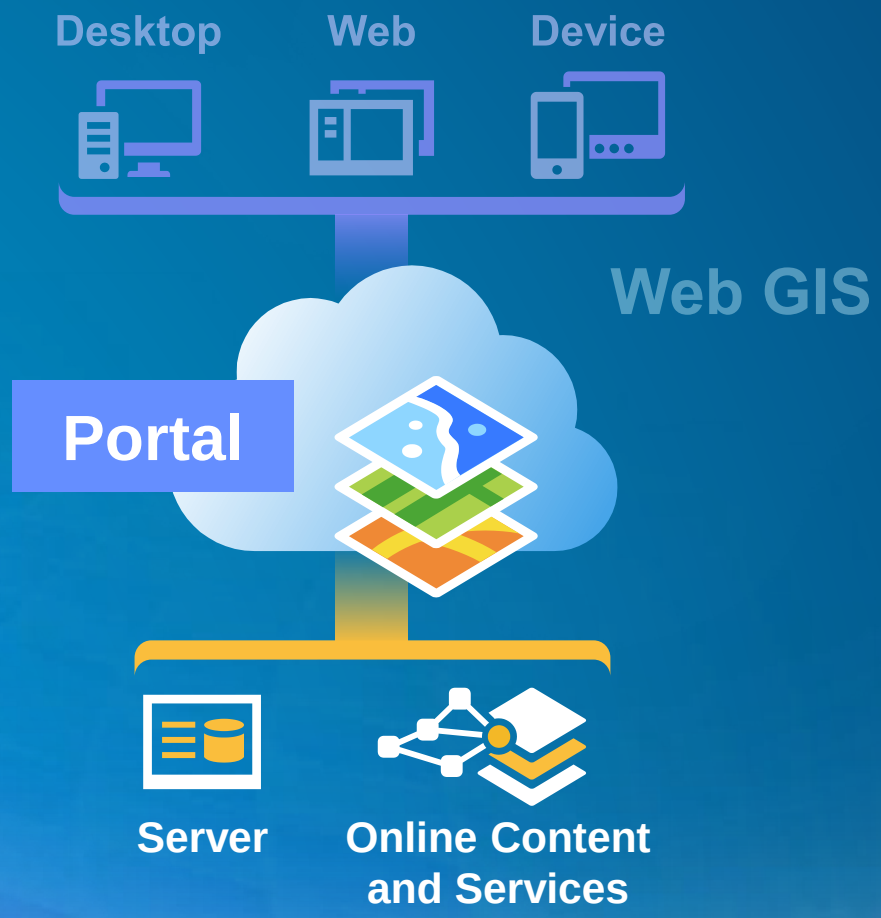
- Simple
- Integrated
- Open



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

Portal for ArcGIS

Extension to ArcGIS for Server



. . . Implements Web GIS on Premises

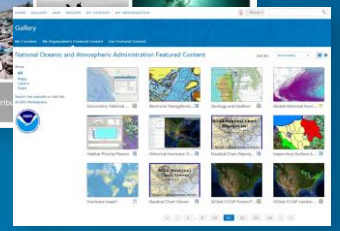
Portal Examples

USDA

USFS Wildland Fires

USDOT

DDOT/UFA



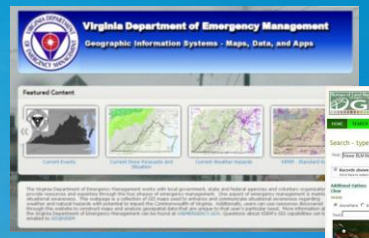
NOAA

DHS

FEMA

FDA

Digital Humanitarian Network

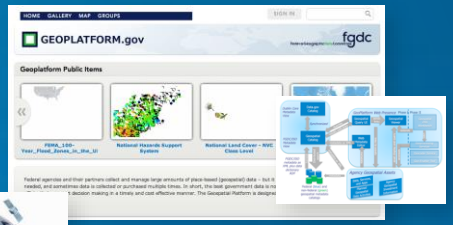


VDEM

BLM

GSA

EPA



GEOPLATFORM.gov

GEOSS

GeoWB World Bank

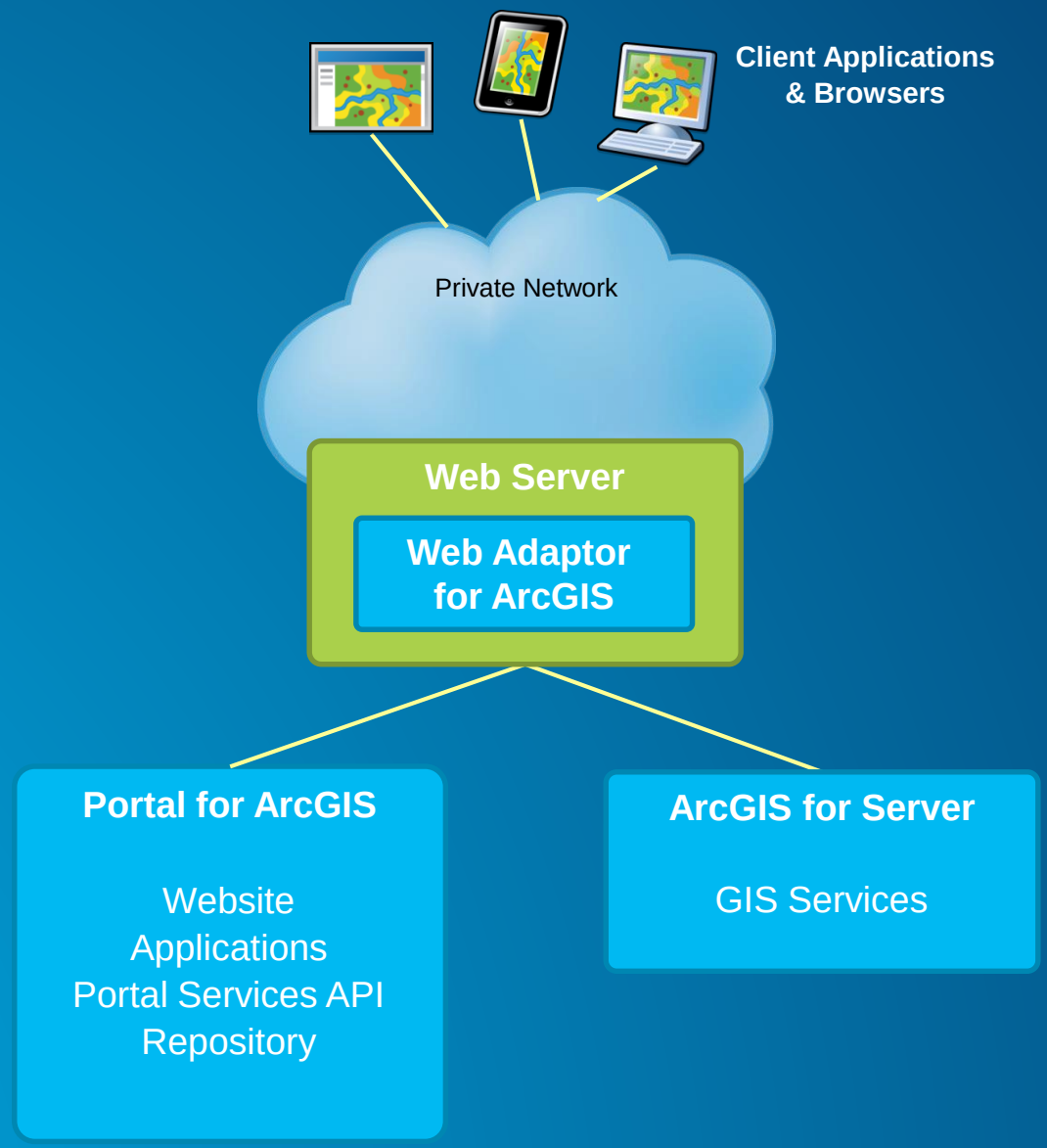
US Senate

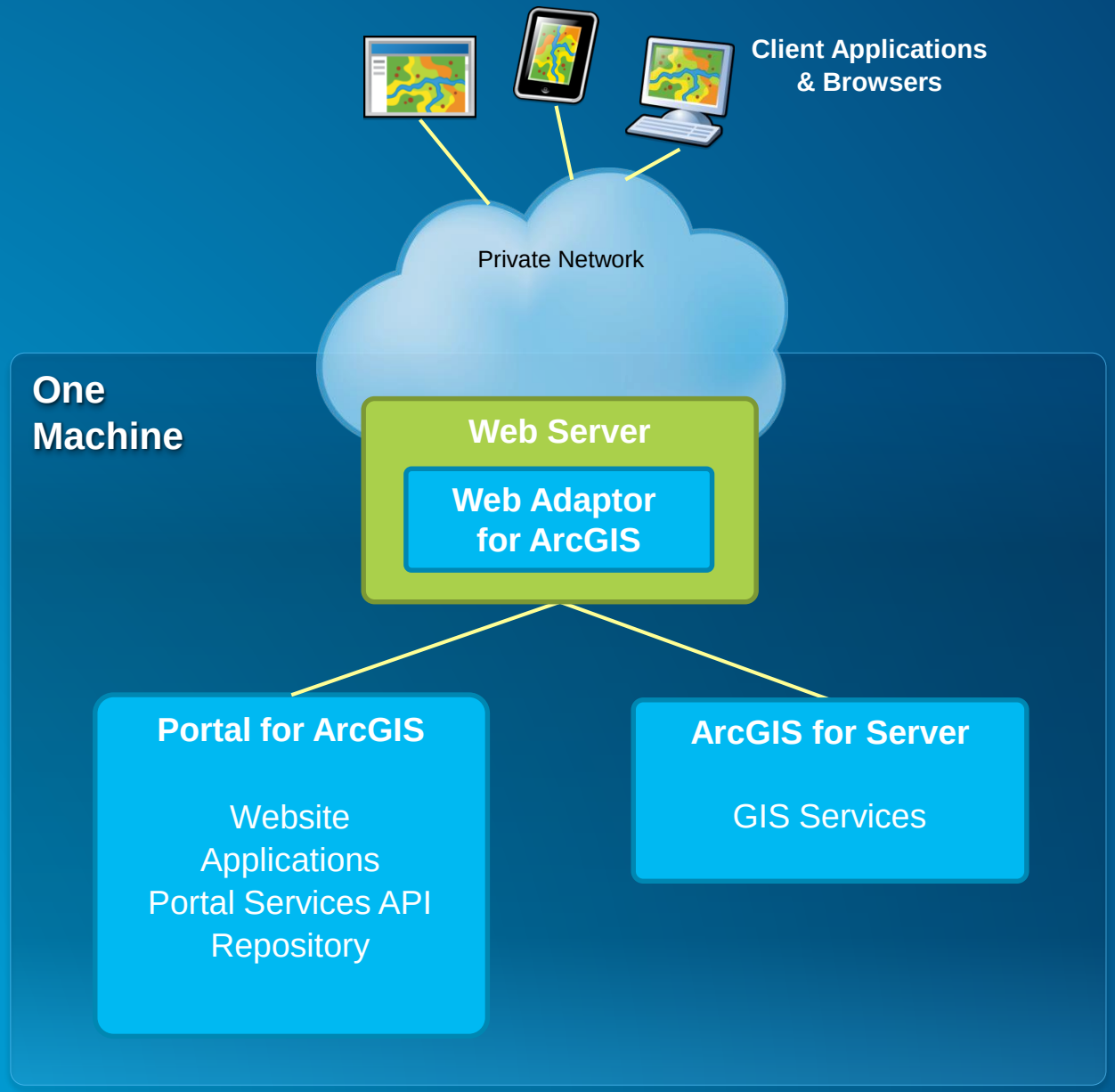
Senator James Risch

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


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


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

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

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

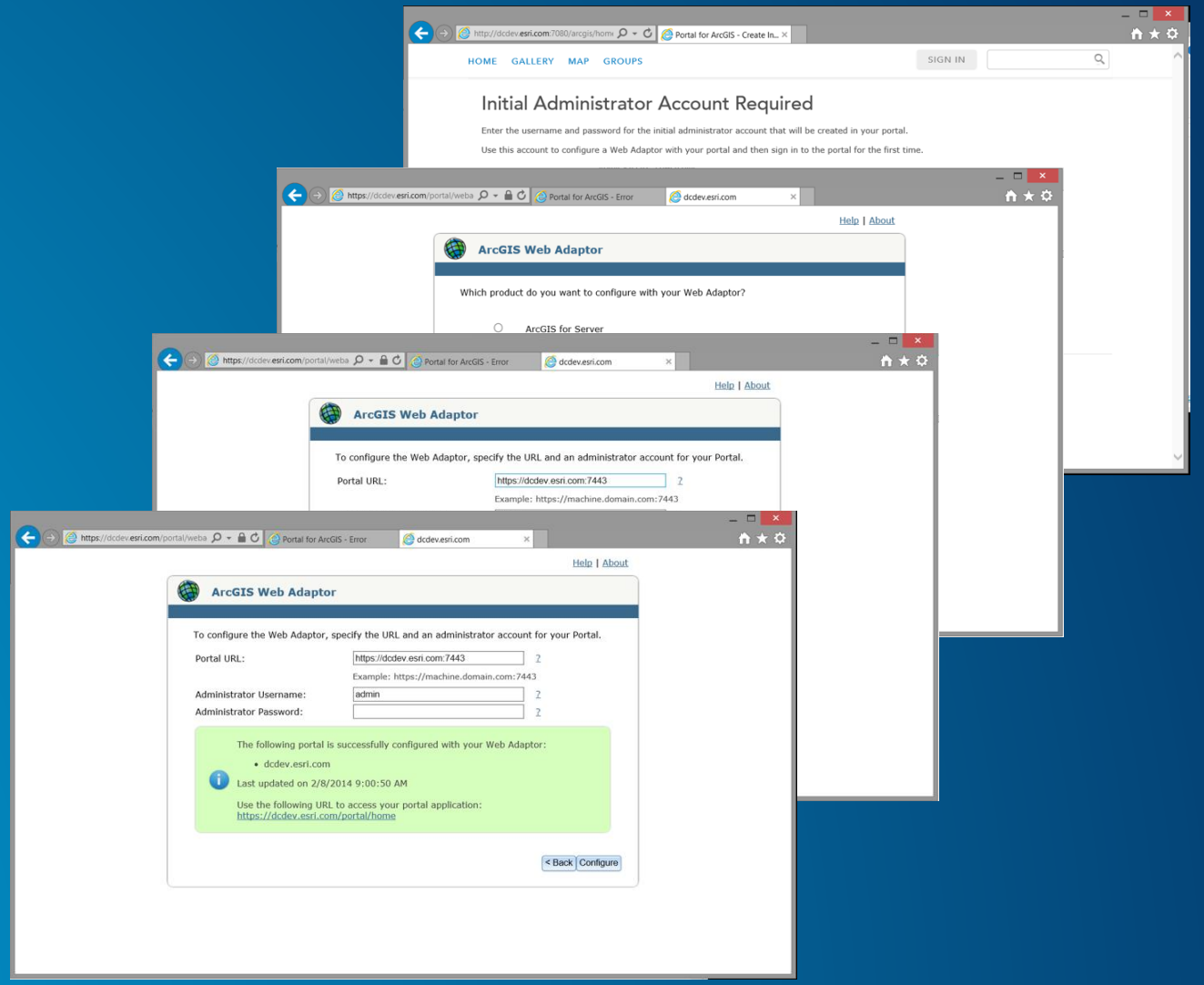
Linux

- 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

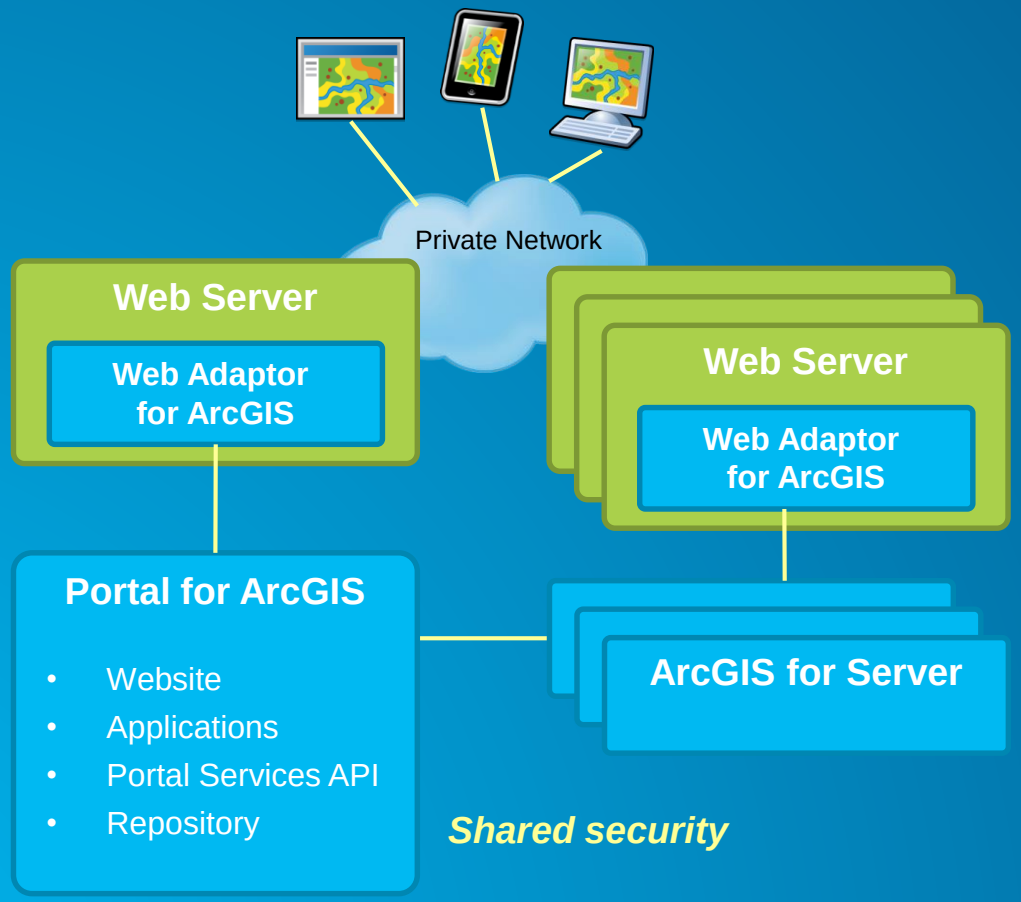
Using Your Portal with ArcGIS Server

Three Integration Approaches

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

Federating a Server with Portal

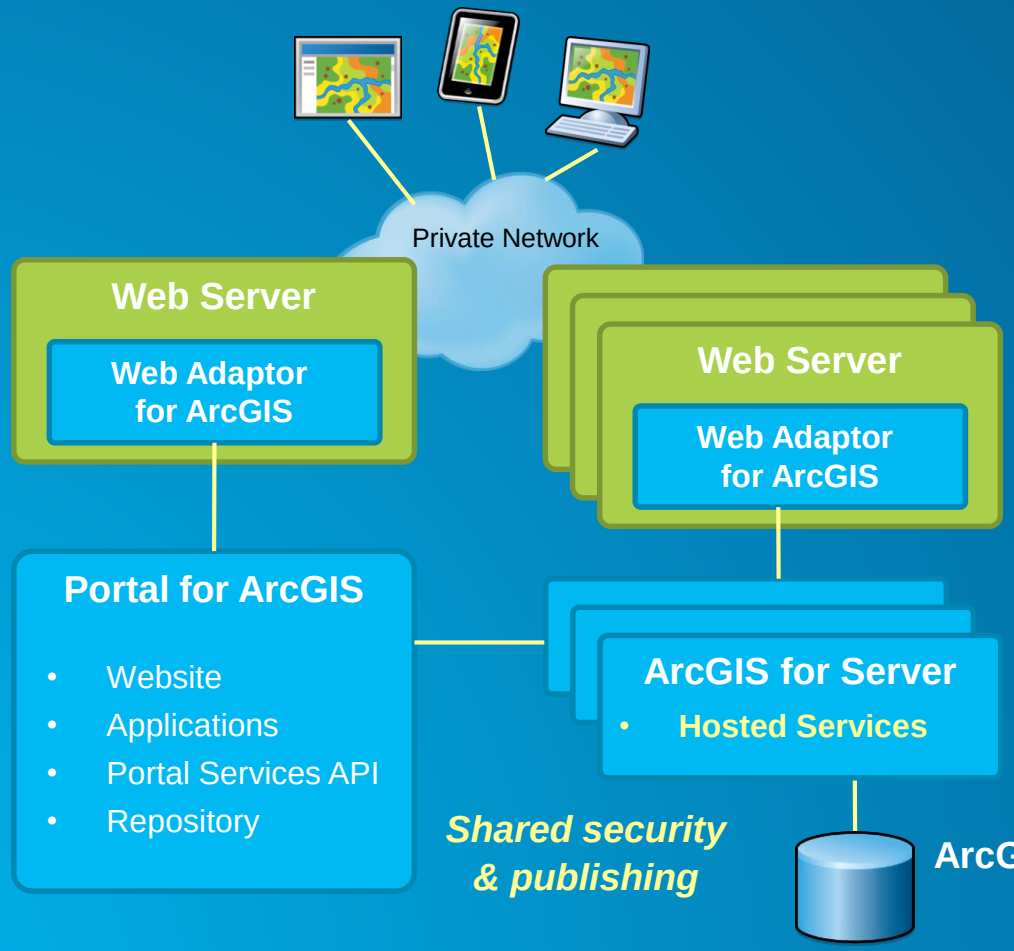
Integrates Security



- 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

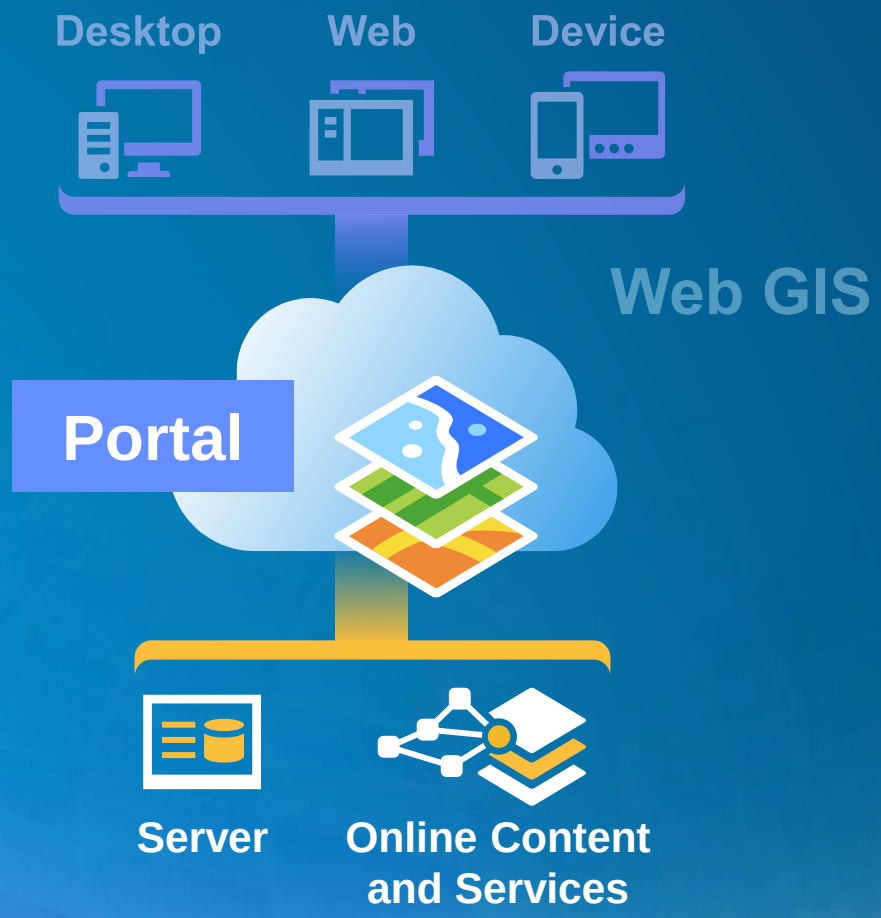
Integral to a Web GIS

- **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

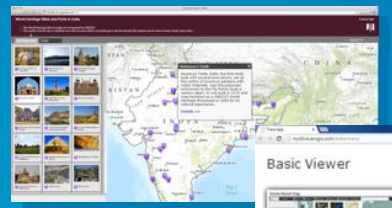
Apps

Supporting Many Devices and Platforms

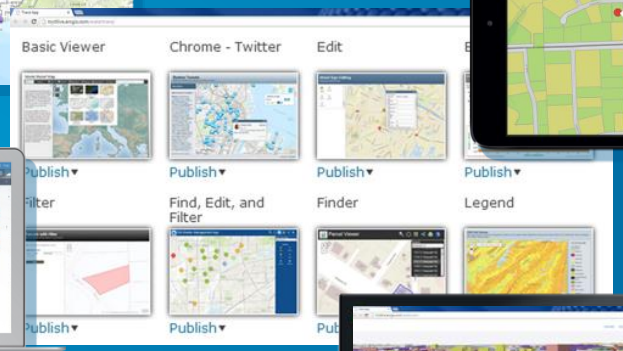
Apps

Ready to Use

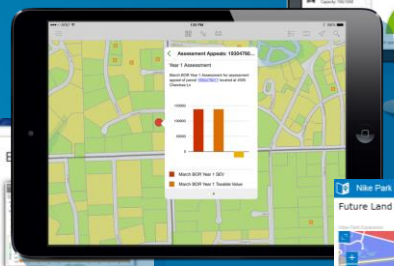
Story Maps



Web Templates

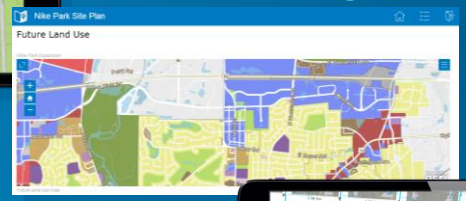


Explorer

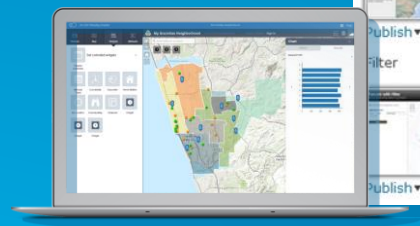


Dashboard

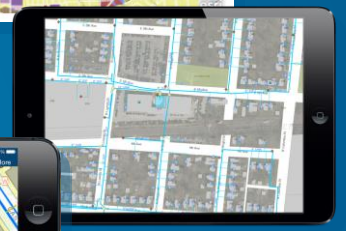
Briefing Book



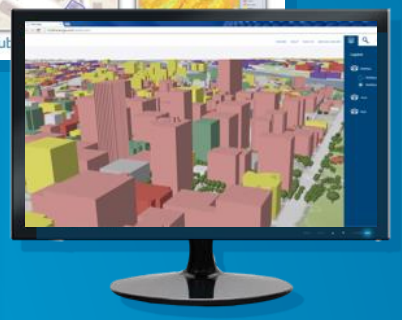
Web AppBuilder



Collector



Online - Offline Support



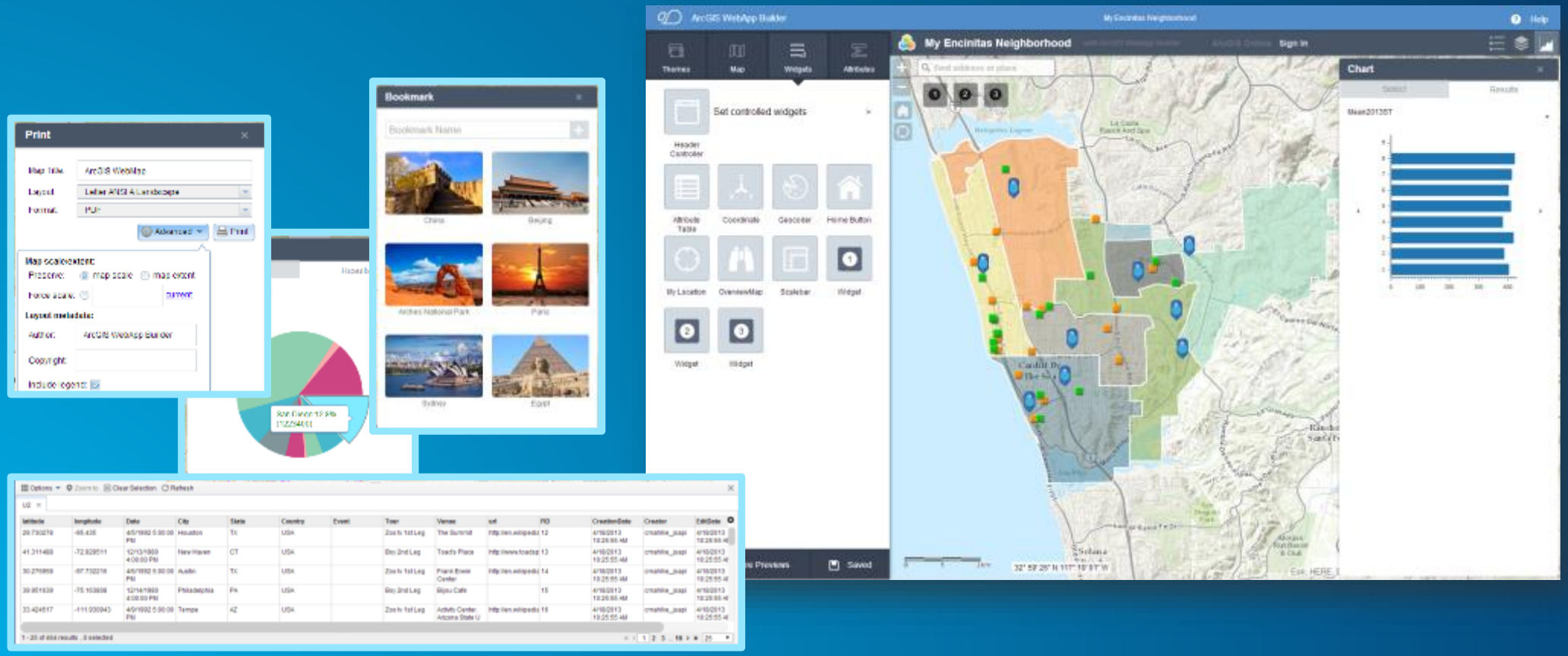
Portal Website

Workflow Driven Apps

Part of Your Web GIS …. Powered by Your Portal

App Builders

Web AppBuilder in Portal 10.3



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	Groups	Roles

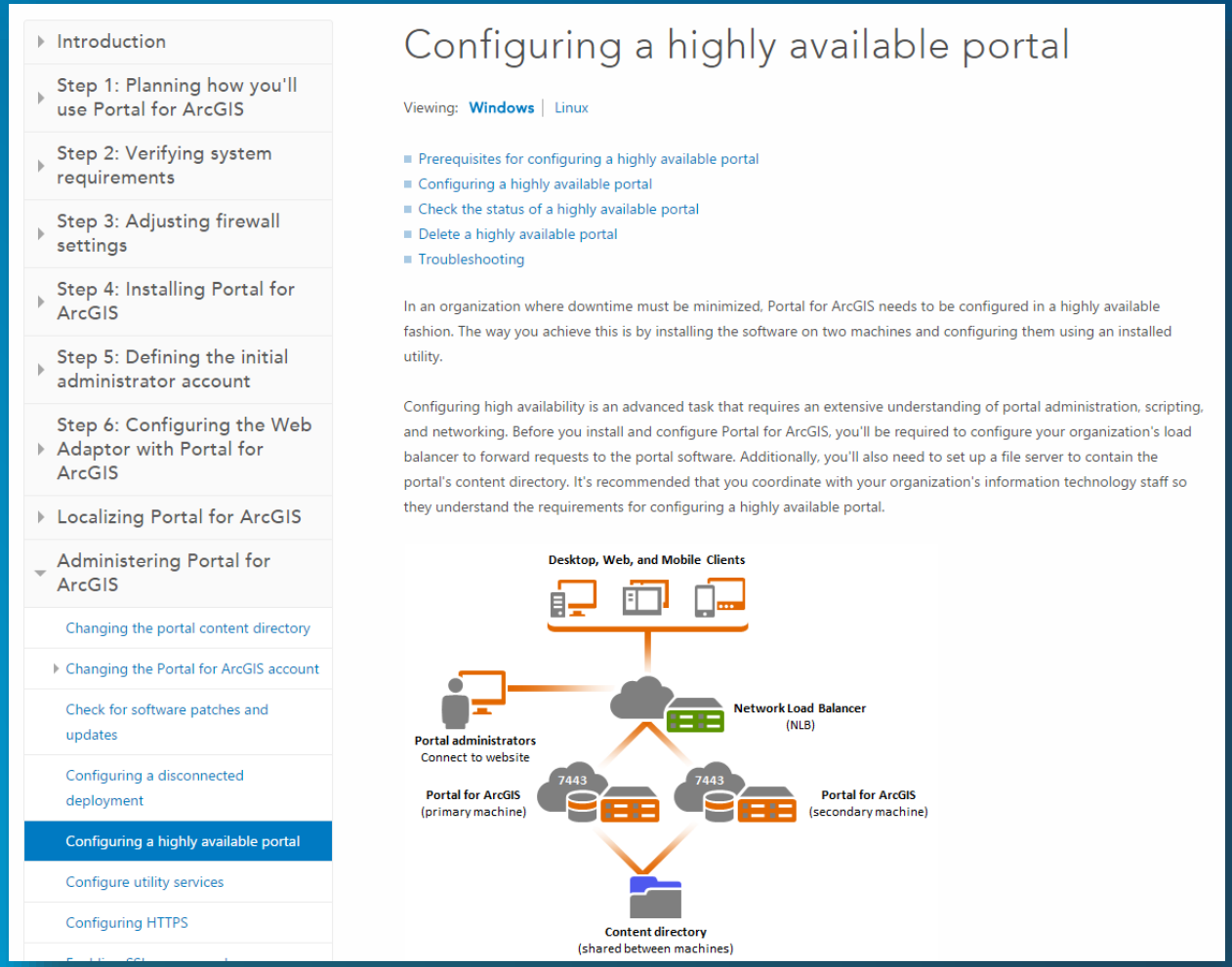
• Built-in
• Enterprise
  • *Active Directory*
  • *LDAP*
	• Built-in
	• Enterprise
	  • *Active Directory*
	  • *LDAP*
		• *Anonymous*
		• User
		• Publisher
		• Administrator
		• Custom

Securing Your Web GIS

Demo

High Availability

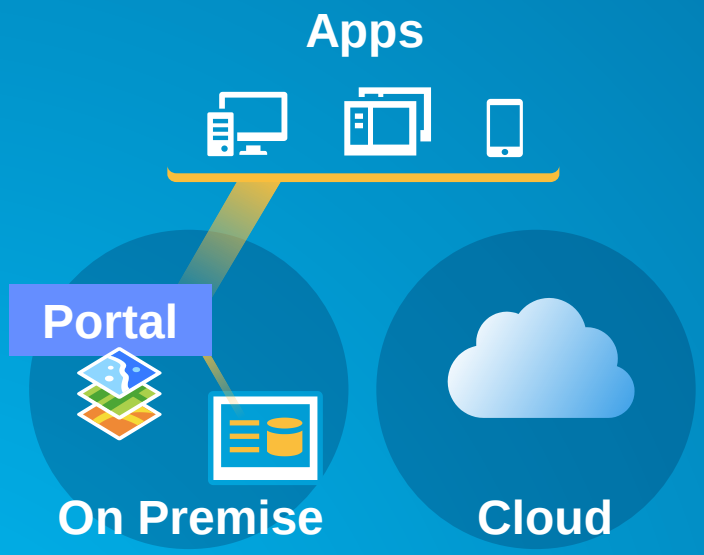
Multi-Machine Deployments Supported at 10.3



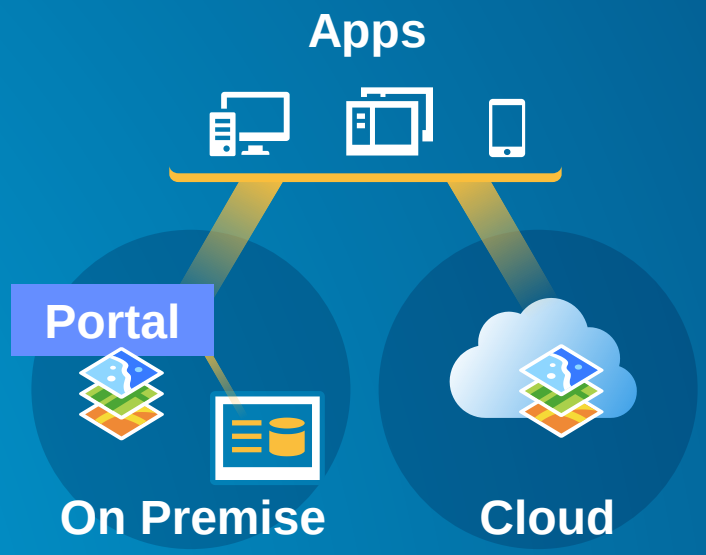
Common Deployment Patterns for Government

On-Premises & Hybrid

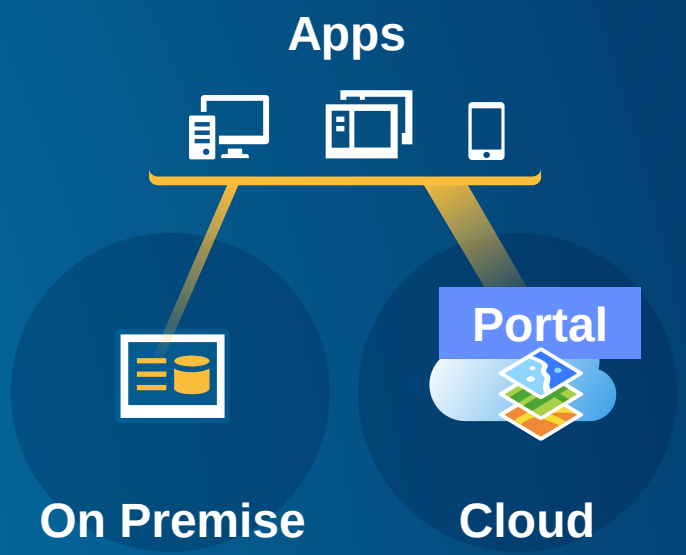
All On-Premises



Hybrid with On-Premises Portal



Hybrid with Cloud Portal



What's New in 10.3

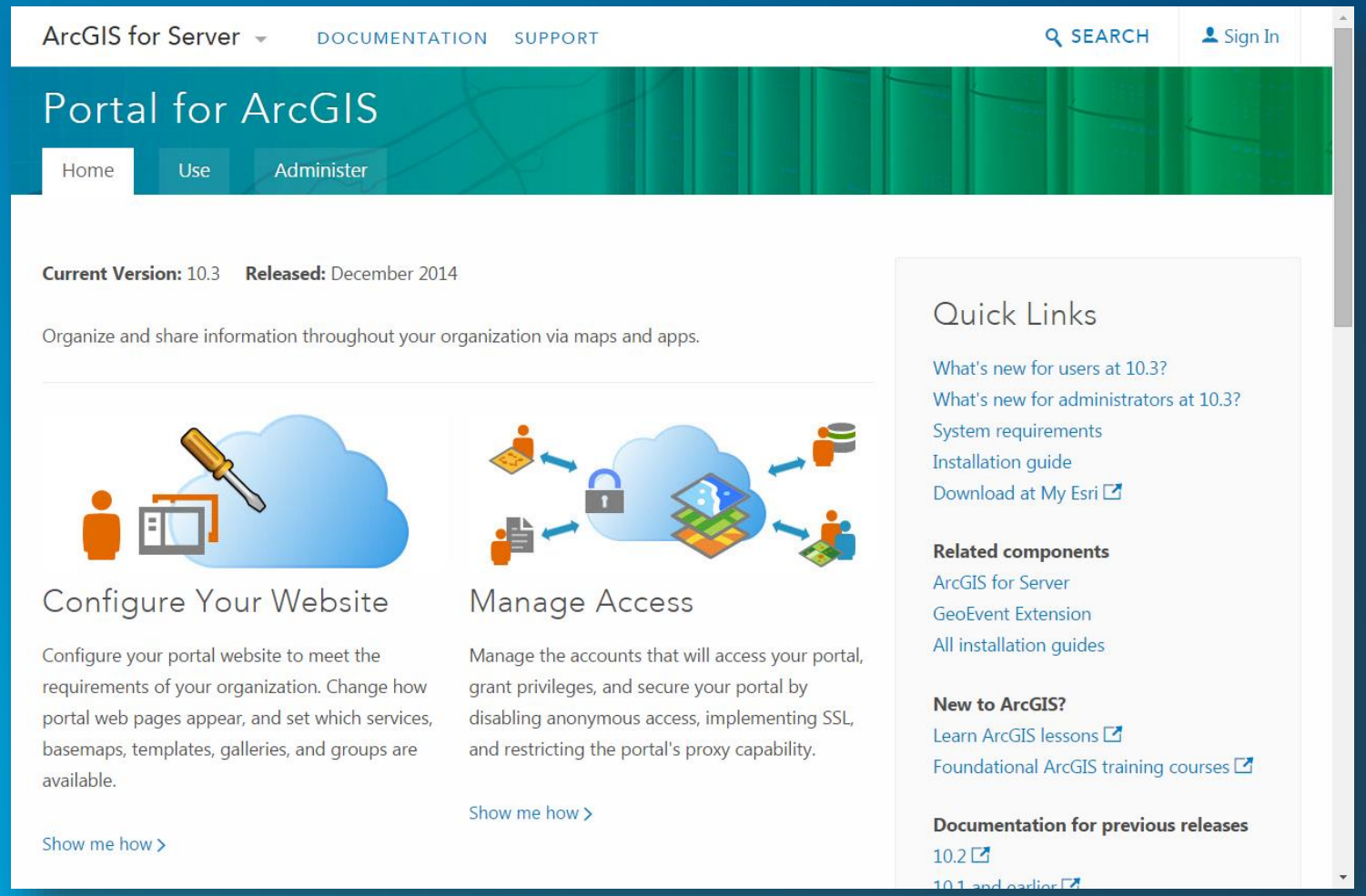
… a Lot

- 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



Federal GIS Conference

February 9–10, 2015 | Washington, DC

esri

Don’t forget to complete a session evaluation form!

Federal GIS Conference

February 9–10, 2015 | Washington, DC

Print your customized Certificate of Attendance!

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

Federal GIS Conference

February 9–10, 2015 | Washington, DC

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

Federal GIS Conference

February 9–10, 2015 | Washington, DC

Networking Reception:

National Museum of American History

Tuesday, 6:30 PM–9:30 PM

Bus Pickup located on L Street

Federal GIS Conference

February 9–10, 2015 | Washington, DC

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.