ArcGIS Web Adaptor Basics

Subrat Bora
Agenda

• What is Web Adaptor
  - Why is it needed
• Benefits
• Deployment scenarios
• Demo
  - Basic Installation and configuration
  - Setting up Integrated Windows Authentication (IWA)
What is Web Adaptor

• Integrates ArcGIS Server and Portal for ArcGIS with an existing Web Server
  - Compatible with IIS or Java Application Servers
• Required
  - ArcGIS for Server with Integrated Windows Authentication (IWA)
  - Portal deployment
• Optional
  - With ArcGIS Server
  - With HA Portal
• Platform independent
• Multiple web adaptors on the same web server
• Requires .NET Framework 4.5 or higher
• Java version 8.x
Benefits

• Serve GIS Web Services or Portal’s content via standard http/https ports 80/443

• Allows custom site name other than /arcgis

• Load Balances incoming requests to GIS Servers

• Blocks administrative access to the ArcGIS Server Site

• Secure Portal or GIS Server with web-tier authentication
  - Using enterprise identity store that web server supports
  - Integrated Windows Authentication/Single Sign-on
  - PKI
  - LDAP(JAVA WA)
Deployment Scenario
Single Web Adaptor

ArcGIS Server Site

http://<server>:6080/arcgis

Web Server with Web Adaptor

Port 80/443
Port 6080/6443

Portal

http://<webserver>/esrimaps

DMZ

Web Server with Web Adaptor

Port 80/443
Port 7080/7443
Deployment Scenario
Web Adaptor High Availability

ArcGIS Server Site
http://<server>:6080/arcgis

Load Balancer
Port 80/443
Web Servers with Web Adaptors
Port 6080/6443

Site 1

Site 2

http://<load balancer>/esrimaps
Port 80/443
Load Balancer
Port 80/443
Web Servers with Web Adaptors
Port 6080/6443
High Availability and Disaster Recovery for ArcGIS Enterprise

Thursday: 3:15 PM
Location: Room 17B
Demo

- Installing the Web Adaptor on IIS
- Configuring with an ArcGIS Server Site
- Configuring Integrated Windows Authentication (IWA) with Active Directory
Takeaways

• Use web adaptor when you want to:
  - access the GIS Services through ports other than 6080/6443
  - Integrate GIS Server with an existing Web Server

• Multiple web adaptors and versions supported on a Single Web Server

• Easy installations: self-checking and installing of required IIS features

• Use Web Adaptor only when you need it
  - IWA (Single Sign-on)
  - Hardware/Network/Firewall restrictions
  - Portal Deployment

• Consider infrastructure while architecting GIS Server sites with Web Adaptor

• Performance consideration when using web-tier authentication
  - Consider disabling Windows Active Directory groups lookup
  - Consider Configuring ArcGIS Web Adaptor memory cache when using Groups from Enterprise Identity Store
Questions
Please Take Our Survey on the **Esri Events App!**

Download the Esri Events app and find your event

Select the session you attended

Scroll down to find the survey

Complete Answers and Select “Submit”

---

**Download the Esri Events app and find your event**

- **Esri User Conference**
  - July 10-14, 2017,
  - San Diego, CA
  - [Event Link](#)

**2017 Esri Business Summit**
- July 9-11, 2017,
- San Diego, CA
- [Event Link](#)

**2017 Esri and Public Safety Summit**
- July 8-11, 2017,
- San Diego, CA
- [Event Link](#)

---

**Select the session you attended**

**ArcPad - An Introduction**
- **Time:** Jul 11, 8:30 AM - 9:45 AM
- **Location:** SDCC - Room 32 A

**ArcGIS Pro: Mapping and Visualization**
- **Time:** 8:30 AM - 9:45 AM
- **Location:** SDCC - Ballroom 06 F

**Building Your Indoor GIS: CAD and BIM Import**
- **Time:** 8:30 AM - 9:45 AM
- **Location:** SDCC - Room 16 B

---

**Scroll down to find the survey**

**ArcPad - An Introduction**
- **Description:**
  - This session will provide an overview of ArcPad, Esri’s software for mobile GIS and field mapping, with an emphasis on the new...

---

**Complete Answers and Select “Submit”**

- **Feedback:**
  - Title and Description Consistent with Content
  - Well Organized/Clear Presentation
  - Public Speaking Skills

- **Rating:** 1 to 5 (1 is Low, 5 is High)

- **Personal Information:**
  - [Yes/No]
  - [Yes/No]