Presentation agenda

• Overview
  - Exploring 10.1 architecture

• Beginners:
  - Using 10.1 pre-configured security

• Experts:
  - Leveraging existing web security
Section A
Exploring 10.1 architecture
Thomas Shippee
ArcGIS 10.1 for Server architecture

- Self-contained
- Simplified
- Standards-based
- Synergized
Architecture at 10.0

Data Tier
- Enterprise Geodatabase

GIS Tier
- GIS Services
- Authentication
- Service Authorization
- LAN
- DCOM
- SOM
- SOC

Internal Tier
- ArcGIS Web
- IIS
- Windows security store
- SQL Server
- "users & roles"

External Tier
- HTTPS
- Reverse proxy
- IIS
- Proxy Page
- ArcGIS tokens

Application Tier
- HTTPS
- custom code for ArcGIS tokens

Networks
- Internal Network
- DMZ
- Web
Default 10.1 security configuration

Data Tier
- Enterprise Geodatabase

GIS Tier
- GIS Services
- GIS Servers
  - Built-in store
  - ArcGIS Server Site
- Authentication
- Service Authorization

Web Tier
- IIS
- Web Adaptor

Application Tier
- Wizard builder
- Identity manager

LAN
HTTPS
HTTPS

Internal Network
DMZ
Web
Section B
Using 10.1 pre-configured security
Thomas Shippee
Default 10.1 security workflow

Create site
- Define Primary Site Administrator

Configure administrative security
- Define “Administrator” and “Publisher” type roles
- Assign user to appropriate roles
- Create Desktop connections & publish services

Configure service access security
- Define “User” type roles
- Assign as permissions to folders/services
- Assign users to appropriate roles

Build Web Applications
- Create web apps (Web API viewer-builders)
Demo

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Build Web Applications
  - Create web apps (Web API viewer-builders)
Administrative Security

Primary Site Administrator (PSA)

Alex

myAdmin

myAdmins

Administrators

myPubs

Publishers

myPubs

Publishers

Penny

Pat

Paul

Site Admin

Services

Services
Demo

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Build Web Applications
  - Create web apps (Web API viewer-builders)
Service security: Use case

• **Public – View Only:**
  - Trails
  - Campgrounds

• **Gina (Guide) – Edit:**
  - Trails
  - Campgrounds

• **Rick (Ranger) – Edit:**
  - Trails
  - Campgrounds
  - **Restricted Areas**
GIS service security

Accounts

Rick
Gina
George

Roles

guides
rangers

Permissions

Site Admin
Service Root
Natural Resources
Secured
Restricted Areas
Trails

Demo

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Build Web Applications
- Create web apps (Web API viewer-builders)
• Automatically manages ArcGIS tokens
• Flex API & Viewer 2.5.1+
  (works with ArcGIS 10.0 SP-1+)

```xml
<!-- Begin Identity Manager Code -->
<fx:Script>
<![CDATA[
    import com.esri.ags.components.IdentityManager;
    import com.esri.ags.events.LayerEvent;

    import mx.events.FlexEvent;

    protected function app_initializeHandler(event:FlexEvent):void{
        IdentityManager.instance.enabled = true;
    }
]]>
</fx:Script>
<!-- End Identity Manager Code -->
```
SECTION C

Leveraging existing web security:

Gregory Ponto
Web tier single-sign-on at 10.1

Data Tier
- Enterprise Geodatabase

GIS Tier
- GIS Services
- ArcGIS Server Site
- GIS Servers
- Service Authorization

Web Tier
- IIS
- Web Adaptor
- HTTP
- Shared key

Application Tier
- Single sign-on

Internal Network
- DMZ
- Web
Workflow

Configure Security Store
  - Users & Roles = Active Directory
  - Authentication Tier = Web Adaptor
    - Define Shared Key

Grant Role Access to Services

Configure Web Adaptor
  - Specify Shared Key
  - Configure Integrated Windows (IIS)

Build Web Applications
Demo

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  - Users & Roles = Active Directory
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Grant Role Access to Services

Configure Web Adaptor
  - Specify Shared Key
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Build Web Applications
Demo

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  Authentication Tier = Web Adaptor
    Define Shared Key

Grant Role Access to Services

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  Specify Shared Key
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Build Web Applications
Demo

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    - Define Shared Key
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- Configure Web Adaptor
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- Build Web Applications
Demo

- Configure Security Store
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  - Authentication Tier = Web Adaptor
    - Define Shared Key
- Grant Role Access to Services
- Configure Web Adaptor
  - Specify Shared Key
  - Configure Integrated Windows (IIS)
- Build Web Applications
## What Architecture is Right for Me?

<table>
<thead>
<tr>
<th>Capability</th>
<th>Security Store</th>
<th>Authentication Tier</th>
<th>Authentication Method</th>
<th>Application Tier</th>
<th>Encryption (HTTPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Sign On</td>
<td>Active Directory</td>
<td>Web Tier (IIS)</td>
<td>Integrated Windows (IIS)</td>
<td>Any w/ SSO Support</td>
<td>Optional</td>
</tr>
<tr>
<td>Public/Private Services</td>
<td>Any</td>
<td>GIS Tier</td>
<td>ArcGIS Tokens</td>
<td>Any *</td>
<td>Recommended</td>
</tr>
<tr>
<td>Enterprise Users &amp; Roles</td>
<td>Active Directory, LDAP</td>
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<td>Any *</td>
<td>Recommended</td>
</tr>
<tr>
<td>Web Editing</td>
<td>Any</td>
<td>Any</td>
<td>Any</td>
<td>Any *</td>
<td>Recommended</td>
</tr>
<tr>
<td>Mobile Applications</td>
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<td>Any</td>
<td>Any</td>
<td>Any *</td>
<td>Recommended</td>
</tr>
<tr>
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<td>Any</td>
<td>Any *</td>
<td>Recommended</td>
</tr>
<tr>
<td>Enterprise Users &amp; Built In Roles</td>
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<td>Any *</td>
<td>Recommended</td>
</tr>
<tr>
<td>Linux</td>
<td>LDAP, Built-In</td>
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<td>Any</td>
<td>Any *</td>
<td>Recommended</td>
</tr>
<tr>
<td>ArcGIS Online</td>
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<td>Any</td>
<td>Any</td>
<td>Any *</td>
<td>Recommended</td>
</tr>
</tbody>
</table>

* Silverlight & SharePoint require use of Proxy Page for token management.
Steps to evaluate UC sessions

- My UC Homepage > “Evaluate Sessions”
- Choose session from planner
  OR
- Search for session

www.esri.com/ucsessionssurveys
• Thank you for attending
• Have fun at UC2012
• Open for Questions

• Please fill out the evaluation:

  [Website Link]

  *First Offering ID: 809*

  *Second Offering ID: 1928*
Wrap-up & Questions

RELATED PRESENTATIONS

  Wed @ 3:15 PM (20 minute)

• ???
  ?? @ ?:??