ArcGIS Platform Identity Management Capabilities Including OAuth & Enterprise Logins





Presentation Goals

To learn about...

- Customer needs and expectations
- Business strategies for success
- Technical strategies for implementation
 - *How to get ready to support enterprise logins?*
 - *How to implement OAuth and what are the usability considerations?*
 - Demo linking multiple user stores together
 - Post authentication and content access

Customer Needs and Expectations

1. Data Access and sharing

2. Deep integration

3. Single sign-on



Business Strategy <a>> Build Apps and Success Together

- Offer the right Identity Management option(s) to fit your market
- Reduce variable costs associated with Geocoding, Routing, Demographic, Elevation and Spatial Analysis service usage by offloading API credit consumption from your app to ArcGIS users
- Minimize responsibilities and risks involving password management
- Gain sellable value adds when contributing back to ArcGIS making it possible to use apps like Collector, Ops Dashboard, ArcGIS Pro and ArcGIS for Desktop
- Access ArcGIS user profile information and their unique content to power your apps
- Simplifying app development using classes and methods from Esri's APIs/SDKs



Technical Strategy

Pick the Identity Management patterns you want to support



Technical Strategy Pick an ArcGIS developer product



* ArcGIS capabilities and services are REST-based making it possible to roll your own authentication libraries

Technical Strategy

Understand what's inside the ArcGIS developer products

ass: OAuthInfo Print this page			Time saving conveniences
[AMD Module Require Legacy Module Require]	Constructors Properties Methods		on-premises
<pre>require(["esri/arcgis/OAuthInfo"], function(OAuthInfo) { /* code</pre>	•	Developer documentation and support	
Property Documentation			
- (AGSAuthenticationType) authType	read write nonatomic assign		
The type of authentication needed to access a secured resource. Possibile values include			UIViewController
 AGSAuthenticationTypeUnknown 			Ť
• AGSAuthenticationTypeNone			
AGSAuthenticationTypeToken		AG	SOAuthLoginViewController
• AGSAuthenticationTypeHTTP			
Since			
1.0			

Technical Strategy

Steps to support Enterprise Logins (Web Tier Authentication) on-premises

- 1. Deploy ArcGIS for Server, Web Adaptor, Portal for ArcGIS
- **2. Federate Server with Portal**
- 3. Configure Web Server to Support LDAP or Windows Authentication via Portal Admin

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Portal Administrator Directory Logged in as : Doogs Logged					
Home > Security > Config API Reference					
Security Configuration					
Properties:	{"disableServicesDirectory":false,"enableAutomaticAccountCreation":true}				
<pre>{ "type": "LDAP", "properties": ("isPasswordEncrypted": "true", "userFullmameAtritude": "displayName", "idapURLForUsers": "diap://rde-inf-dct- pd4.esri.com:38/0U =Departments,DC-esri,"cuserPassword": "VN123XP9bK8BIKKIrtG_e=", "caseSensitute": "diae", "userest-nAttribute": configuration: "sAMAccountName", "userEmailAttribute": "mail", "user": "CN=AGSUser2,OU=Generic,OU=Users,OU=Managed Objects,DC=esri,DC=com", "usermameAttribute": "sAMAccountName", "userEmailAttribute": "mail", "user": "CN=AGSUser2,OU=Generic,OU=Users,OU=Managed Objects,DC=esri,DC=com", "usermameAttribute":</pre>					
<pre>{ "type": "LDAP", "properties": { "IsPasswordEncrypted": "true", "IdapURLForRoles": "Idap://red-inf-dct-p04.esri.com:389/OU=Departments,DC=esri,DC=com", Group store "memberAttributeInRoles": "member", "IdapURLForOlsers": "Idap://red-inf-dct-p04.esri.com:389/OU=Departments,DC=esri,DC=com", "userPassword": configuration: "VN123YF9KB6BIKX:r12==", "caseSentive": "false", "rolenamAttribute": "cn", "userFascHattribute": "sAMAccountName", "user? "CN=AGSUser2,OU=Generic,OU=Users,OU=Managed Objects,DC=esri,DC=com", "usermameAttribute": "SAMAccountName" } }</pre>					
Supported Operations: Update Security Configuration Update Identity Store Test Identity Store					
Supported Interfaces: <u>RESI</u>					

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			Aide About
Arc	GIS Web Adaptor		
Pour cor	nfigurer Web Adaptor, indiqu	Jez l'URL et un compte d'administrateur pour vo	tre portail.
URL du j	portail :	https://vm-win7-glavenu.meudon.int:7443	
		Exemple : https://machine.domain.com:7443	
Nom d'u l'adminis	tilisateur de strateur :	2	
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	Utilisez l'URL suivante pou	r accéder à l'application du portail :	
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Technical Strategy Steps to implement OAuth (Cloud / On-premises)

- 1. Register application on developers.arcgis.com to access needed variables like clientId, redirectUrls and clientSecret
- 2. Choose an OAuth pattern to support (User or Apps)
- 3. Determine environment and developer product to use
- 4. Make use of refresh token

Sign In	esri
Username	
Password	
Keep me signed in	
SIGN IN	
Sign in with your enterprise login	

ArcGIS for Developers - FEATURES PLANS DOCUMENTATION	COMMUNITY Q SEARCH II 🗎 🗎 🕍 🌆 Doug -			
III Applications > Geotriggers				
♥ Overview P Authentication 🔒 Licensing 😐 Usage	□ Tools ★ Settings			
Geotriggers				
రీ Created 2:13 pm. Monday. February 9 2015	Client ID:			
ð Updated 2:13 pm, Monday, February 9 2015	fen9FD0r56CB4faD			
Tags: Prototype for geotriggers Type: Application	Public identifier for this application			
- The Advicement	Client Secret:			
Description	53c01b5a29434beb826c5e0f0be3d0ed			
Simple application with Geotrigger technology.	Secret credential for token generation. Treat this like a password			
	Token:			
EDIT APPLICATION DETAILS	PIfi2Ao6dNUH7JEWSXVmSaEXrSyqlww7XToznf0HqQIBeethtvY_lrk0a6dPTUJ6CKeZV			
	Short lived token for testing. Will expire at 10:36 pm, Thursday, August 20 2015			
	GENERATE TOKEN			

* When on-premises, register and access application variables by logging into Portal for ArcGIS and creating a new application item under the My Content tab (KB44907)

Content Access: Robust when Identity is Known

Application Authentication

- 1. Geocoding
- 2. Routing
- 3. Demographics
- 4. Premium Layers and Imagery
- 5. Elevation Analysis
- 6. Spatial Analysis
- 7. Geotrigger Capabilities

User Logins

- 1. Geocoding
- 2. Routing
- 3. Demographics
- 4. Premium Layers and Imagery
- 5. Elevation Analysis
- 6. Spatial Analysis
- 7. Geotrigger Capabilities
- 8. Read content owned by user
- 9. Read content shared with user
- **10. Create update and delete users content**
- 11. Create update and delete content shared with user
- 12. Share content with other users

Demo Time





Questions?