Preparing to Implement Portal for ArcGIS

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About Us

- Platform Engineers within Esri Professional Services (Redlands)
- Specialize in:
  - ArcGIS Enterprise Deployments
  - Configuration
  - Security
  - Best Practices
  - Web GIS

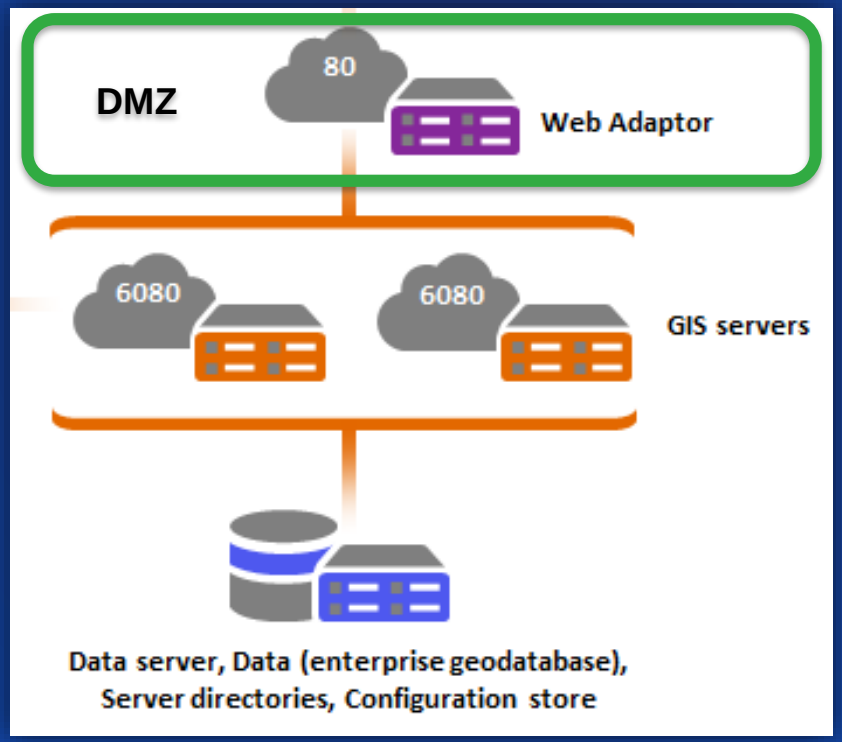
The Importance of Planning

- **What makes a good plan:**
  - **Architecture diagram**
  - **Necessary hardware**
  - **Review of system requirements**
  - **Know your system goals**
  - **Software configurations**
    - ***Access***
    - ***Security***
    - ***SSL/TLS***

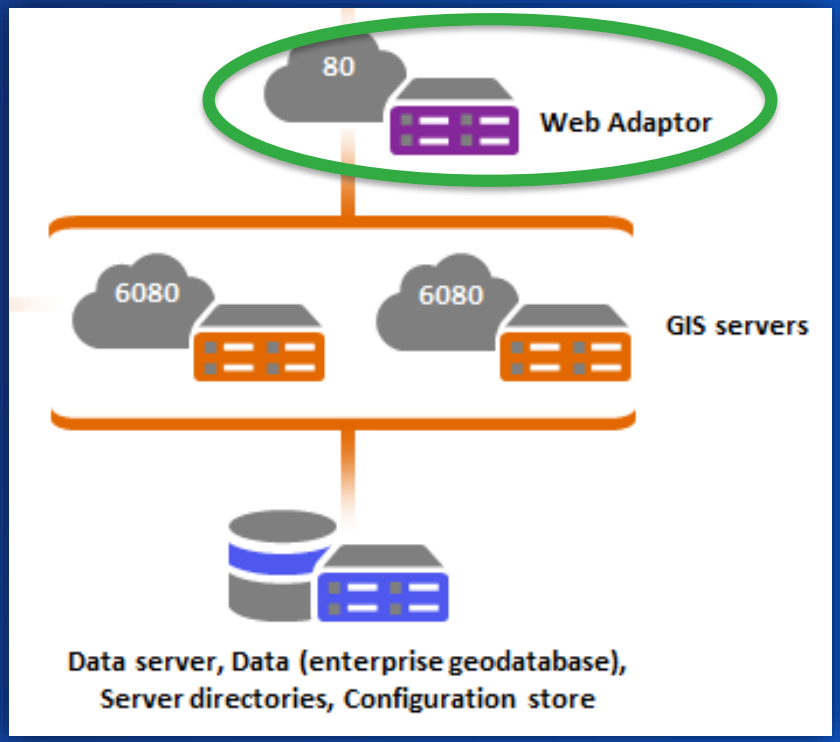
Access

Access

- Internal versus External
- Considerations:
  - Sensitivity of the data
  - Need for public sharing
  - Mobile usage
  - Security



External

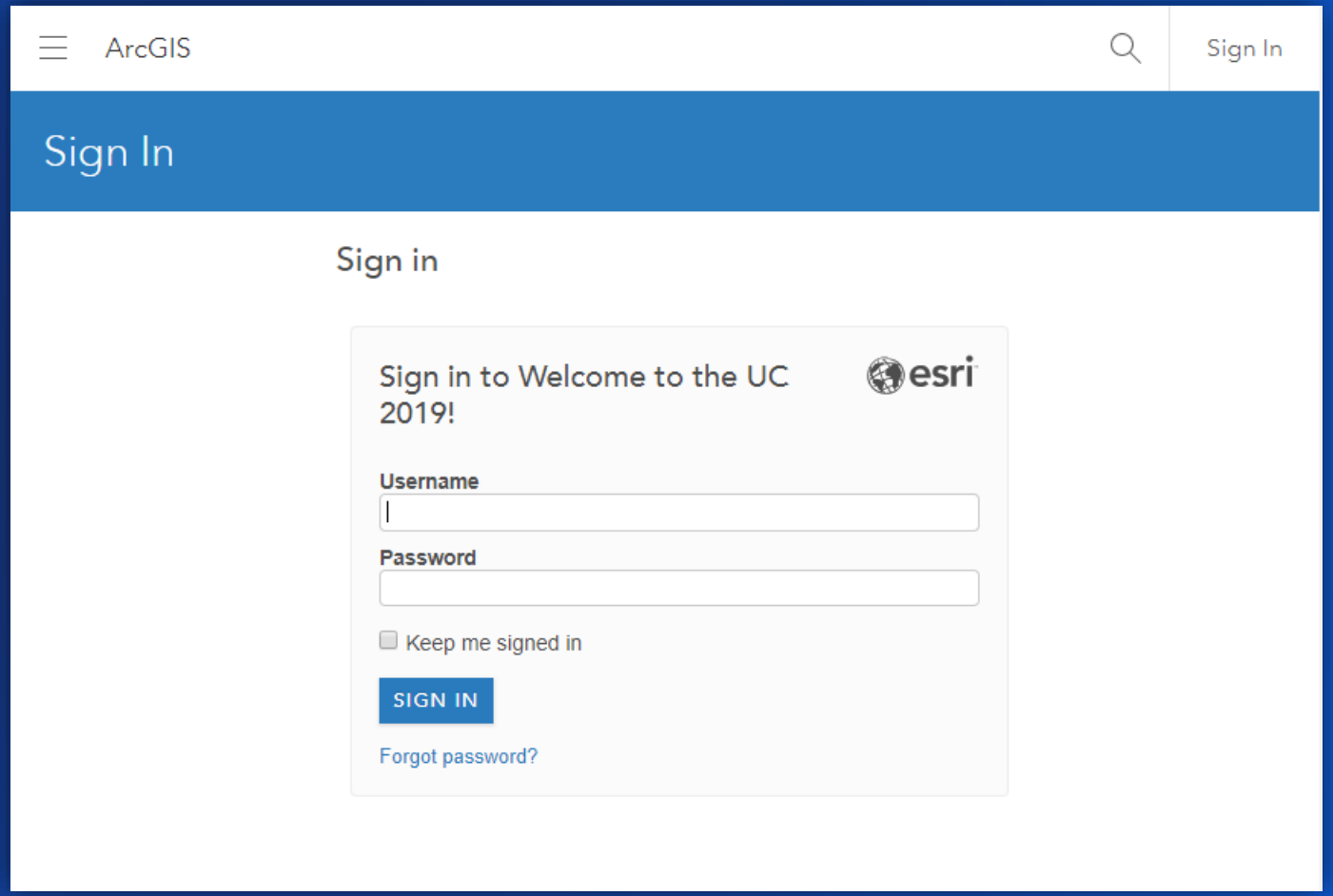


Internal

Security

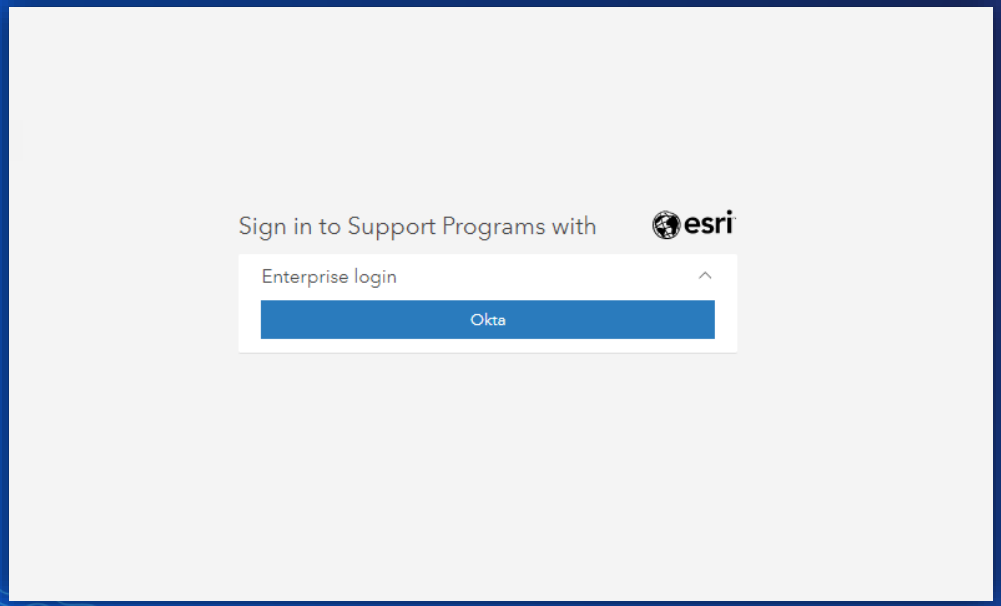
Security

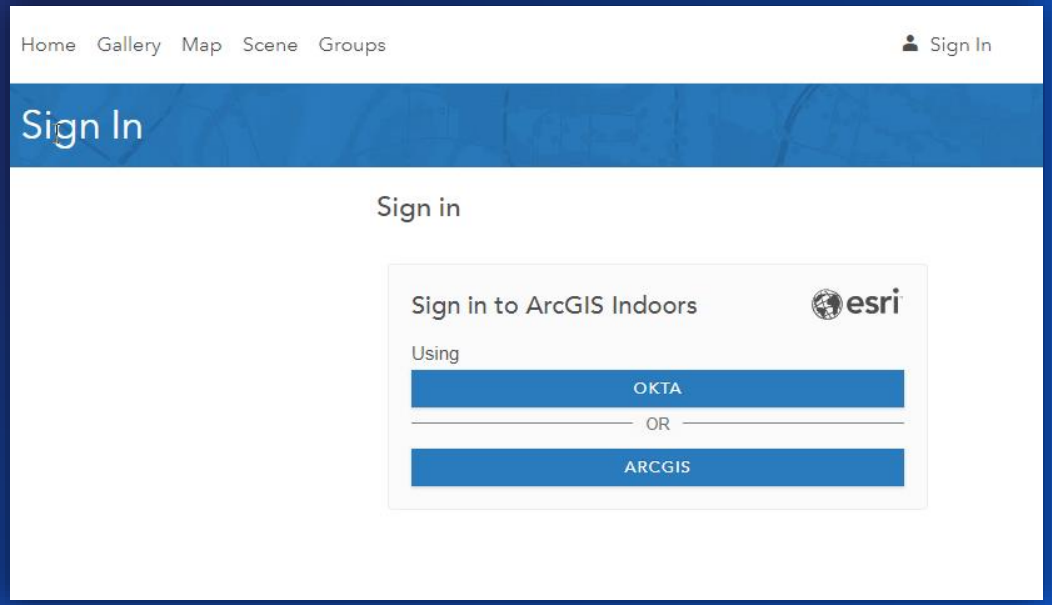
- **Built-in logins**
  - **Included with Portal**
  - **User managed**
  - **Good for getting started**



Security

- **SAML based Enterprise Logins (Security Assertion Markup Language)**
  - **Requires integration with an IdP, for example ADFS**
  - **IT Managed**
  - **Good for supporting a combination of internal and external logins**

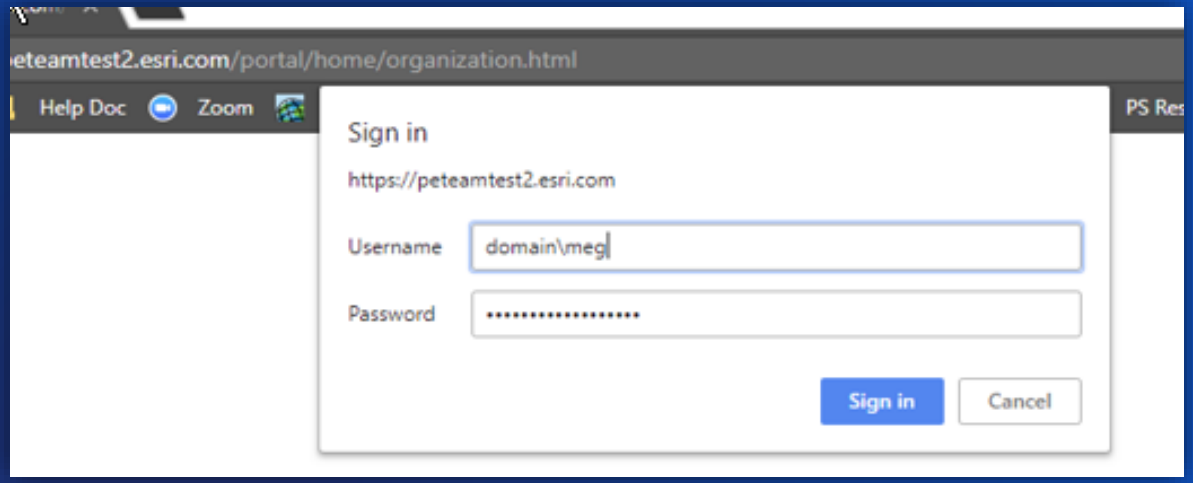


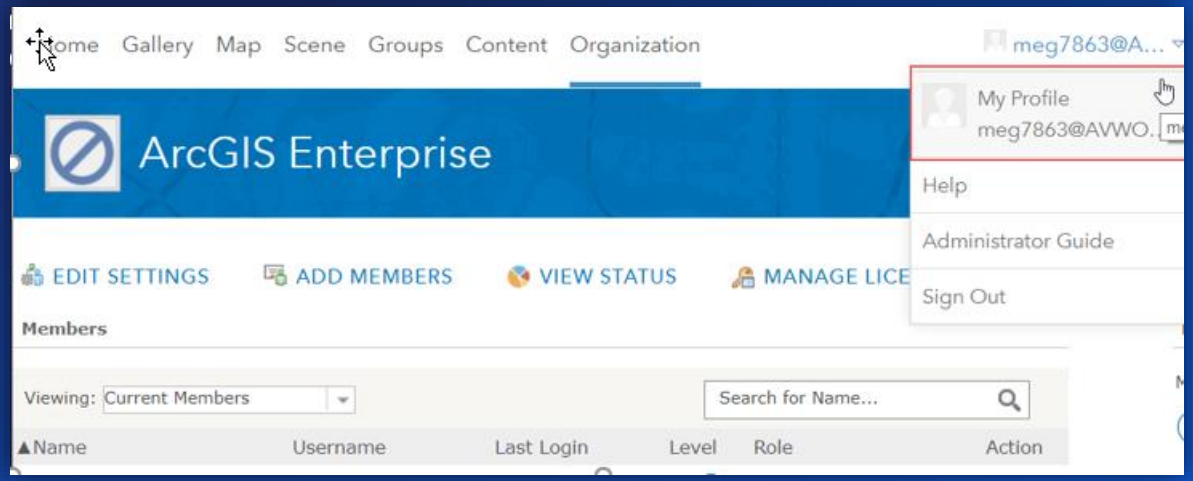


Security

- **Web Tier**
  - **IWA, LDAP, PKI**
  - **IT Managed**
  - **Good for internal only deployments**

- **DEMO**





SSL/TLS

SSL/TLS

- What is it?
  - SSL (Secure Socket Layer): encryption security for the web, websites using HTTPS
  - TLS (Transport Layer Security): an updated, more secure, version of SSL

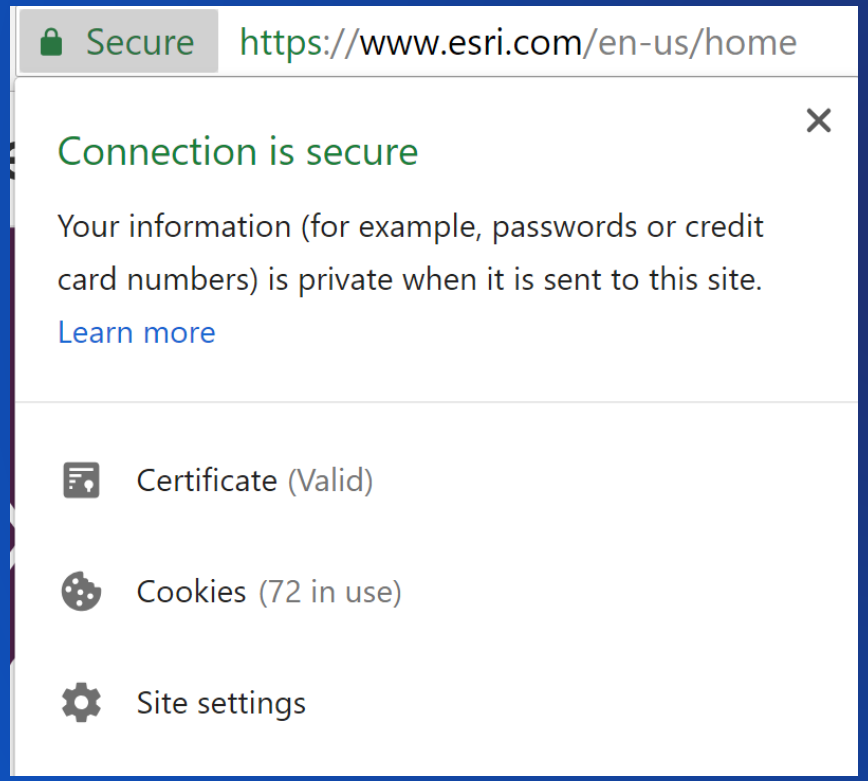
- Why is it important?
  - Safeguards sensitive data
  - A system requirement in Portal for ArcGIS

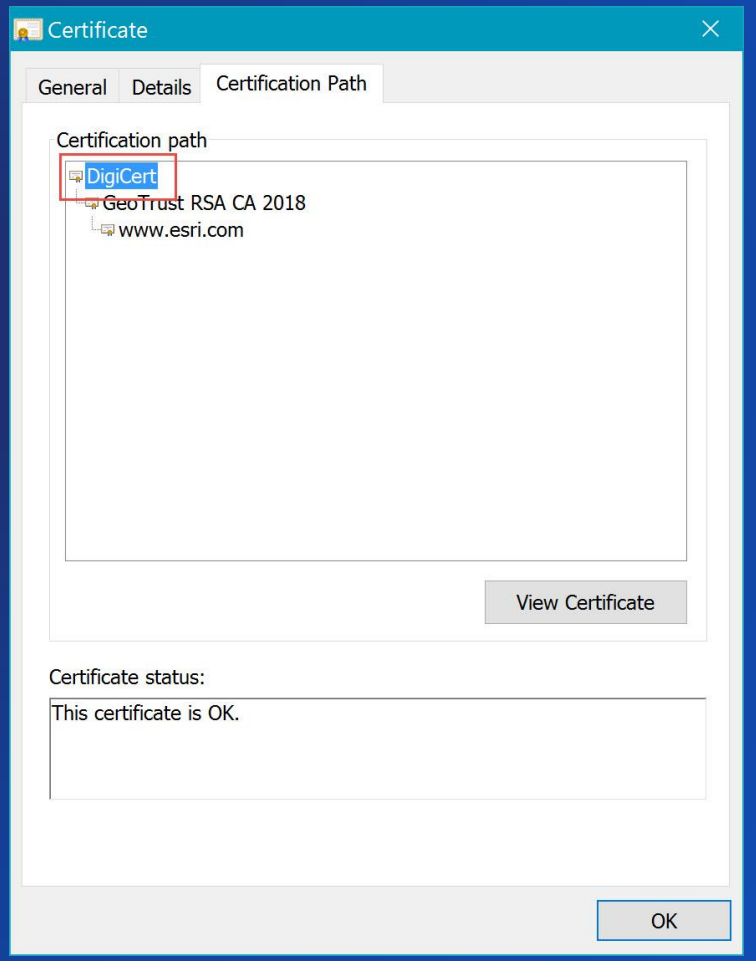
SSL/TLS

You	Intranet	Internet
Bad	Better	Best

SSL/TLS

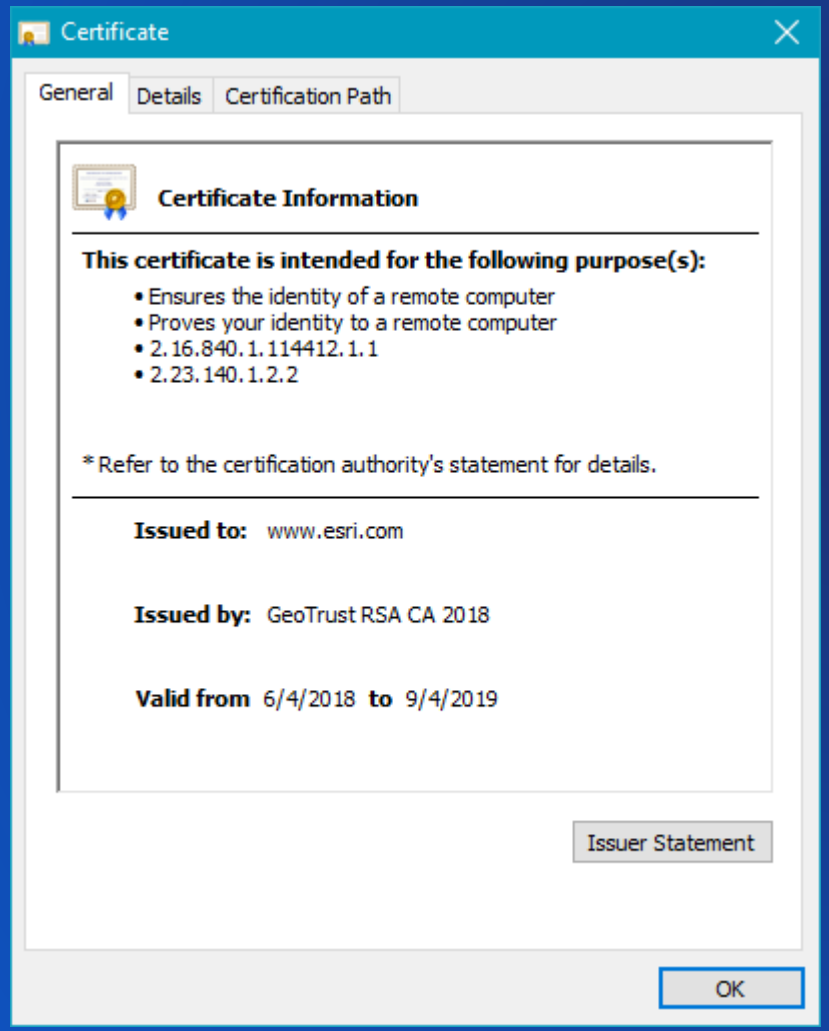
- **Tip #1: Purchase a CA-signed certificate from a trusted Authority**

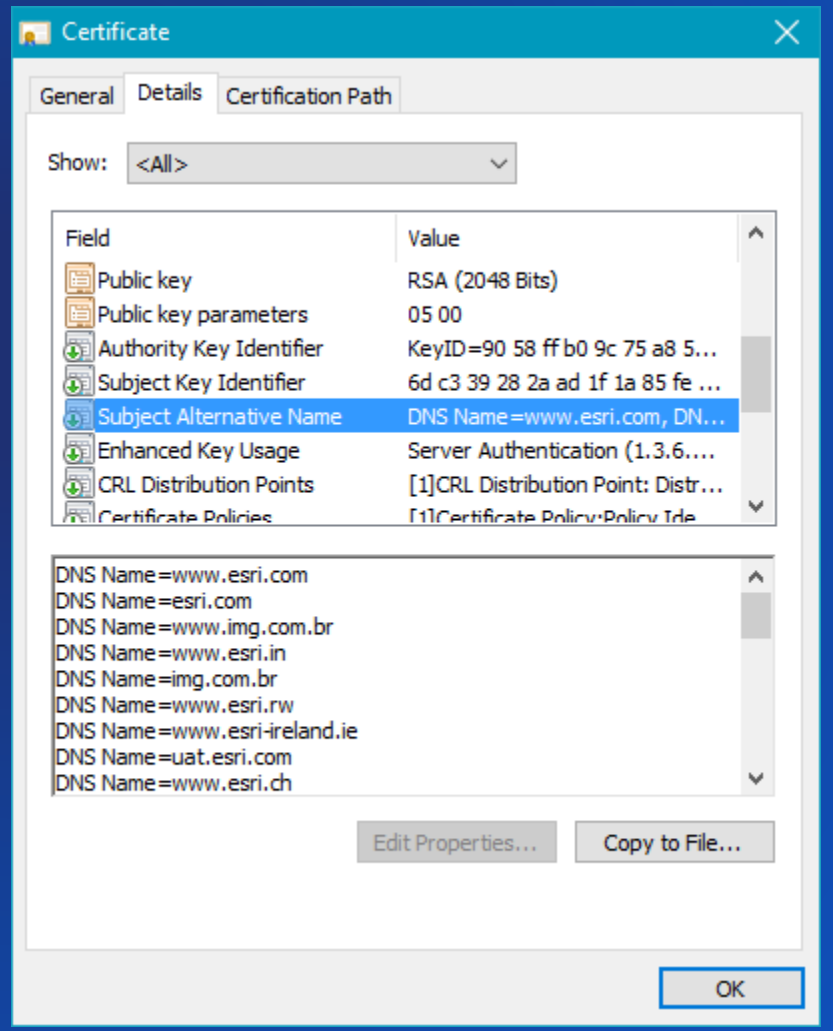




SSL/TLS

- **Tip #2: make it a multiple domain certificate, i.e. SAN**





Putting it all together

Scenario 1

- **Organization: Mom & Pop GIS Inc**
- **Requirements:**
  - **Secure logins for 50 internal staff members Enterprise connected to existing LDAP store**
  - **Sensitive data that can not be shared publicly**
  - **No mobile workflows**

Scenario 1

	SSL/TLS	Security			Access	
	CA-signed Cert	Web Tier	SAML	Built-in	Internal	External
Scenario 1	✓	✓			✓	

Scenario 2

- **Organization: City of San Diego**
- **Requirements**
  - **Secure logins for 3,000 government employees + 500 non-government contract workers**
  - **Publicly shared web applications**
  - **Field crews that need connected mobile access**

	SSL/TLS	Security			Access	
	CA-signed Cert	Web Tier	SAML	Built-in	Internal	External
Scenario 1	✓	✓			✓	
Scenario 2	✓		✓	✓	✓	✓

Questions?

Find us at the “Guiding Your Geospatial Journey” island

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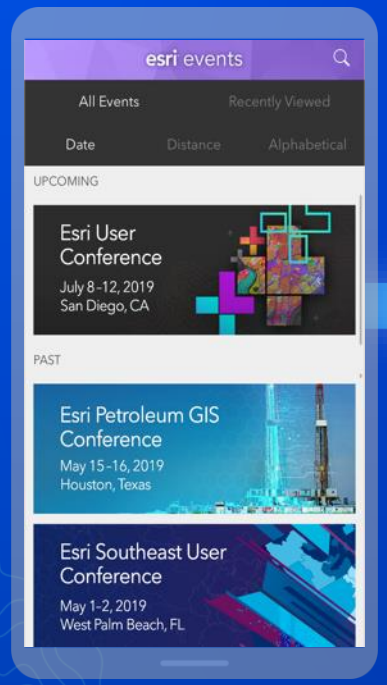
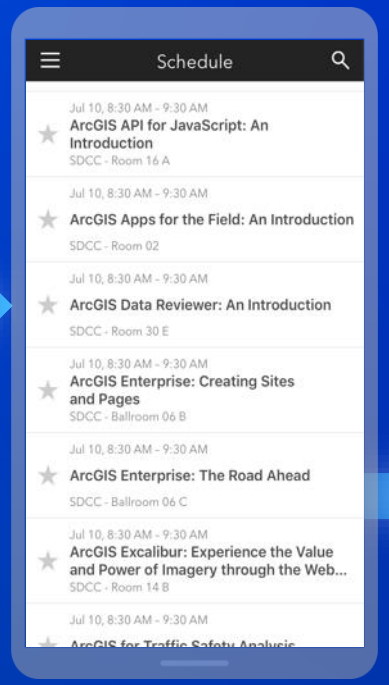
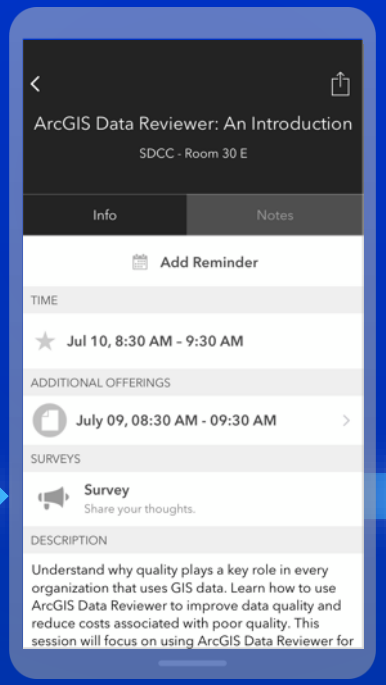


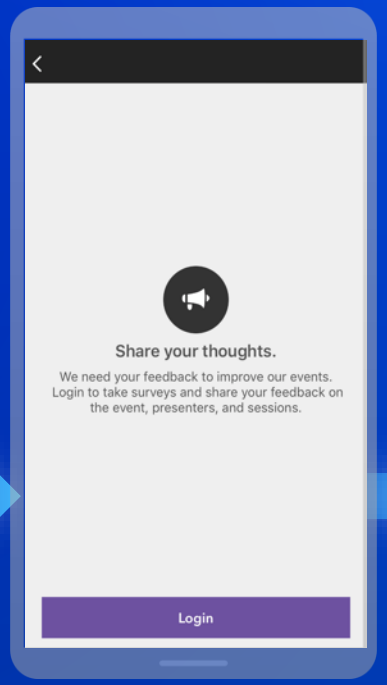
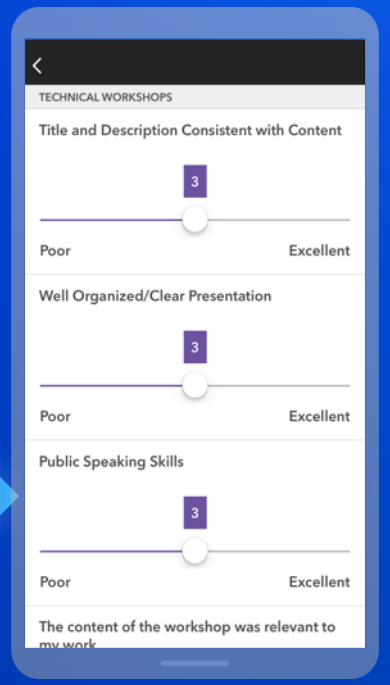
Select the session you attended



Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"