



Let Me In! Authenticating a Web App With ArcGIS

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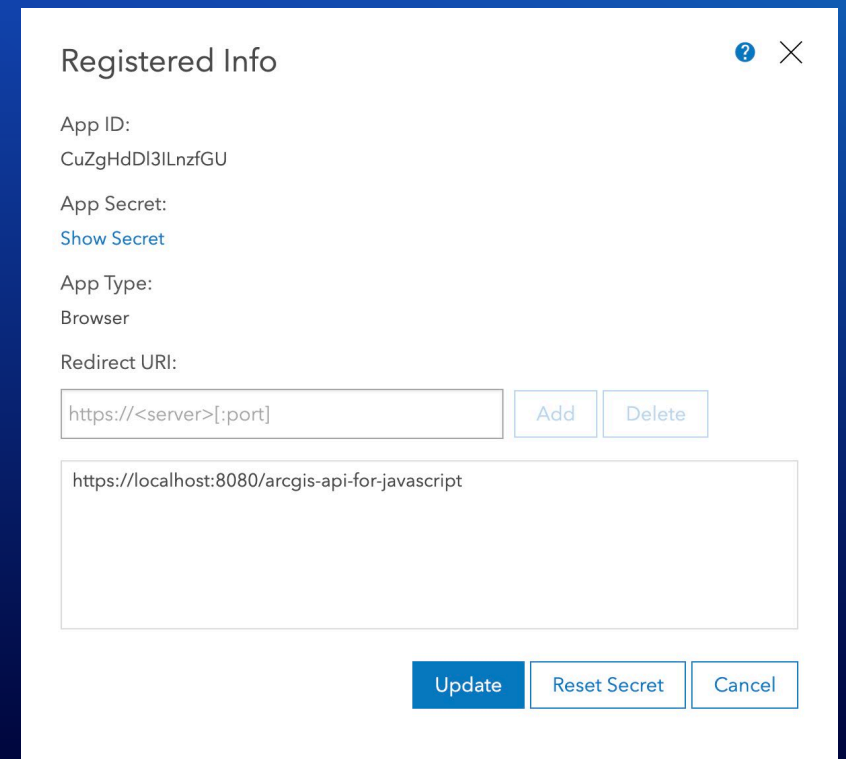
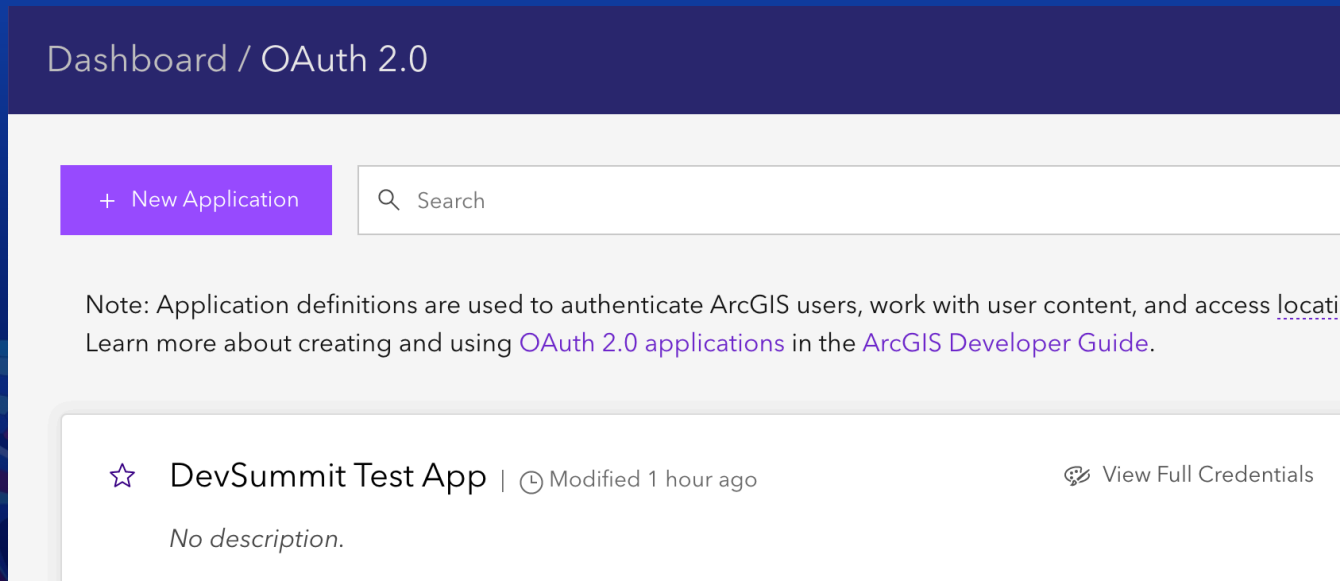
2021 ESRI
DEVELOPER SUMMIT

Lots of Options!

- In the front-end JavaScript world...
 - API keys
 - ArcGIS identity
 - Esri Leaflet, MapBox GL JS, OpenLayers
- Elsewhere...
 - ArcGIS Android API
 - ArcGIS iOS API
 - ArcGIS .Net API
 - ArcGIS Qt API
 - ArcGIS Java API
 - ArcGIS Python API

Allow a user to login to your custom web app

- **First step: Register your app in ArcGIS Online or Enterprise!**
 - <https://developers.arcgis.com/rest/users-groups-and-items/register-app.htm>



Allow a user to login to your custom web app

- **Next step: Use the ArcGIS API for JavaScript or ArcGIS REST JS!**
 - <https://esri.github.io/arcgis-rest-js/>

IdentityManager

Class: `esri/identity/IdentityManager`

Since: ArcGIS API for JavaScript 4.0

This object provides the framework and helper methods used in managing user credentials for the following resources:

- Secured [ArcGIS.com](#) or [ArcGIS Enterprise portal](#) resources (e.g. web maps).
- ArcGIS Server resources secured using token-based authentication. Note that only ArcGIS Server versions 10 SP 1 and greater are supported. If your application accesses services from different domains, it is deemed a cross-domain request and you need to setup a [proxy](#) or use [CORS](#) (if supported by browser). If CORS is supported, the Identity Manager knows to make a request to the token service over https.

ArcGIS REST JS

Compact, modular JavaScript wrappers for the ArcGIS REST API.

[Get Started](#)

[API Reference](#)

Resources

- [Implementing Named User Login](#)
- [Browser-based Named User Login](#)

```
// register your own app to create a unique clientId
const clientId = "abc123"

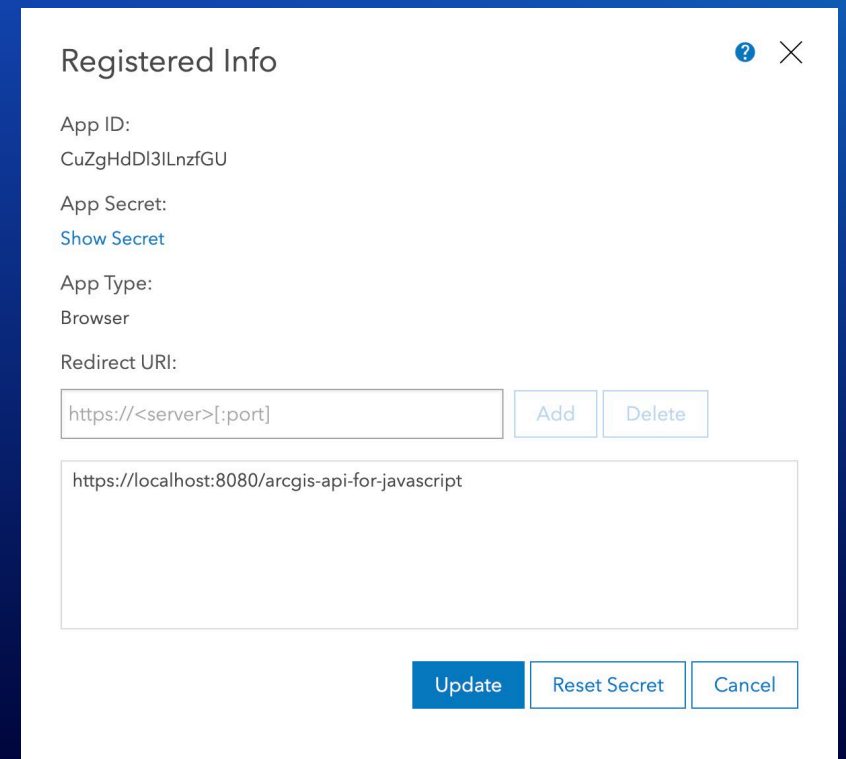
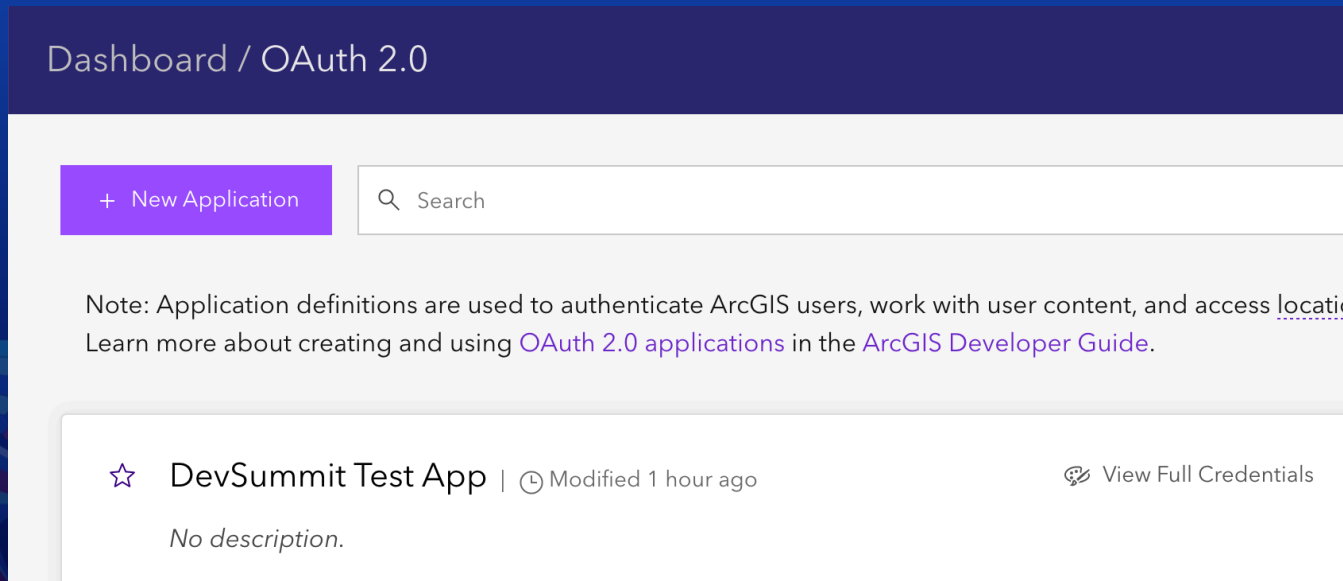
UserSession.beginOAuth2({
  clientId,
  redirectUri: 'https://yourapp.com/authenticate.html'
})
.then(session)
```

After the user has logged in, the `session` will keep track of individual `trustedServers` that are known to be federated and pass a token through when making requests.

```
request(url, { authentication: session })
```

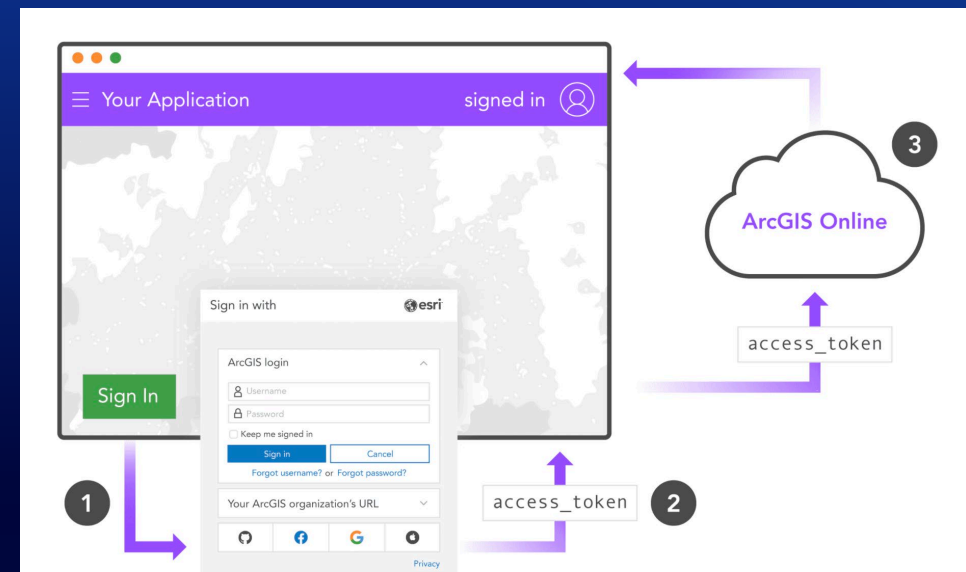
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Some other considerations

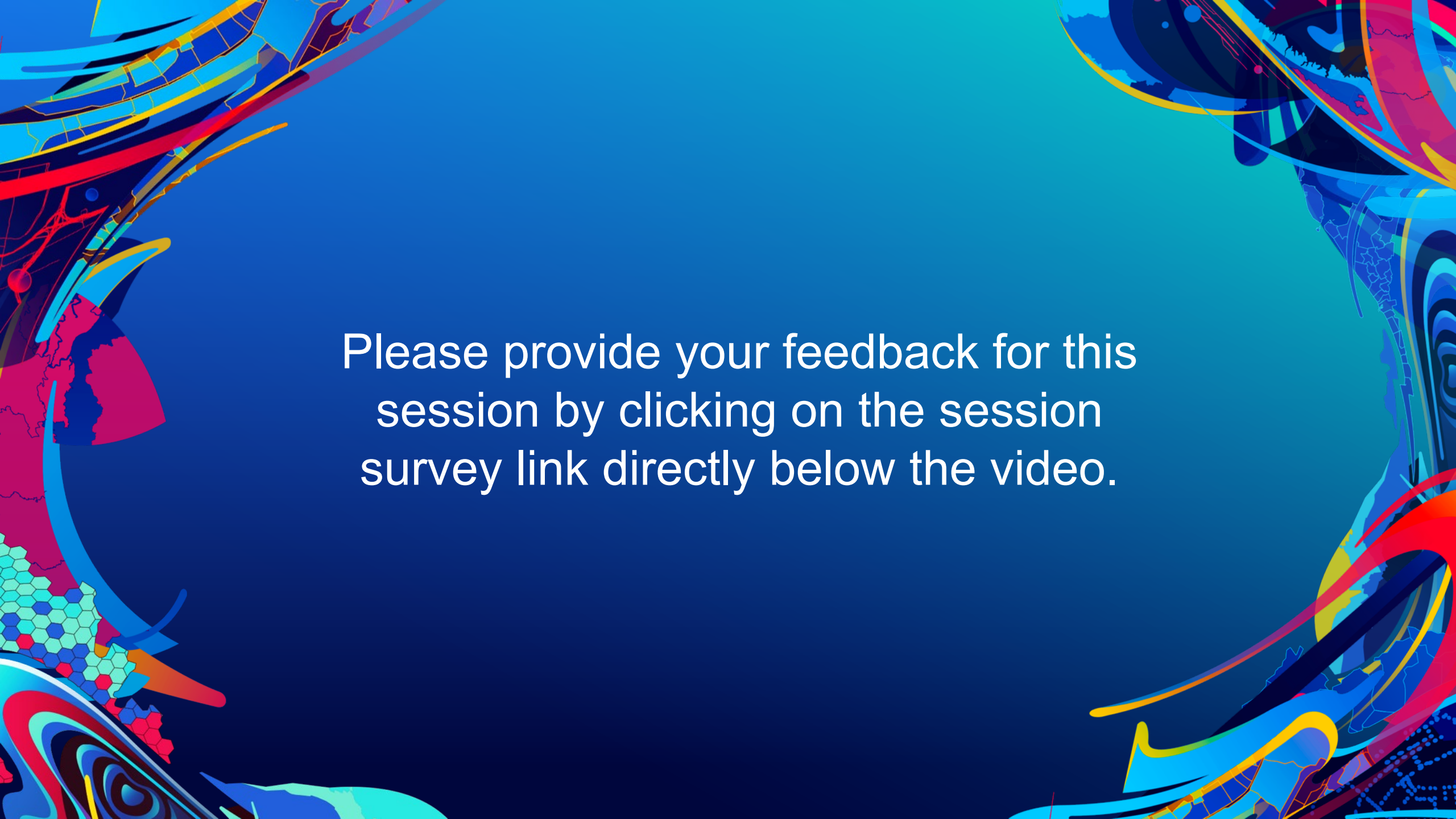
- Demo code: <https://github.com/esridevsummit/javascript-auth-demo>
- When to use API keys instead of ArcGIS identity
 - <https://developers.arcgis.com/documentation/security-and-authentication/api-keys/>
- Serverless web app workflow
 - <https://developers.arcgis.com/documentation/security-and-authentication/oauth-2.0/serverless-web-apps/>





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The background is a vibrant, abstract composition. It features a central area of solid blue and teal. The left and right sides are framed by complex, colorful patterns. On the left, there are swirling shapes in red, yellow, and blue, along with a section of a hexagonal grid in shades of green and blue. On the right, there are more swirling patterns in blue, red, and yellow, with some areas resembling a stylized face or mask. The overall effect is dynamic and modern.

Please provide your feedback for this session by clicking on the session survey link directly below the video.