

Web GIS Best Practices

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Agenda

- **Strategies for administering members**
- **Tips for managing credits**
- **Best practice for high demand layer**

Tips for Managing Members

New Member Defaults

Save

Cancel

General

Home Page

Gallery

Map

Items

Groups

Utility Services

Member Roles

New Member Defaults

Marketplace

Collaborations

Credits


Security

Open Data


Hub

New Member Defaults


Define the default values members receive when they are added/invited to the organization. These values will be applied to members who receive invitations as well as those who are added via enterprise logins.




User Type

Editor 


Role

Data Editor 


Add-on Licenses


Not set 

Groups

A 

Credits

100 

Enable Esri Access 

☐

Member Roles: Default Roles – Preplanning strategy

- **Role = Set of privileges assigned to a member**

Built-In Roles	Sets of privileges	Compatible User Types
Viewer	View content and members	Creator, GIS Professional, Field Worker, Editor, Viewer
Data Editor	+ Edit features	Creator, GIS Professional, Field Worker, Editor
User	+ Create content	Creator, GIS Professional
Publisher	+ Publish content	Creator, GIS Professional
Administrator	+ Organization administration	Creator, GIS Professional

User Types - Preplanning strategy

	Viewer	Editor	Field Worker	Creator	GIS Professional
View your team's private maps and apps	✓	✓	✓	✓	✓
Use ArcGIS Essential Apps	✓	✓	✓	✓	✓
Edit data		✓	✓	✓	✓
Use Field Apps Bundle			✓	✓	✓
Use Office Apps Bundle				✓	✓
Create maps and apps				✓	✓
Administer subscription				✓	✓
Use ArcGIS Pro					✓
Included service credits	0	250	250	500	500

Custom Role - Administrative privileges

Administrative Privileges

☐ Members [-]

☐ View all

☐ Update

☐ Delete

☐ Invite

☐ Disable

☐ Change roles

☐ Manage licenses

☐ ArcGIS Marketplace Subscriptions

☐ Create and manage

☐ Request purchase information

☐ Start trials

☐ Groups [-]

☐ View all

☐ Update

☐ Delete

☐ Reassign ownership

☐ Assign members

☐ Link to enterprise group

☐ Create with update capabilities

☐ Organization Settings [-]

☐ Security and infrastructure

☐ Organization website

☐ Collaborations

☐ Credits

☐ Member roles

☐ Utility services

☒ Content [-]

☒ View all

☐ Update

☐ Delete

☐ Reassign ownership

☐ Manage categories

Save role

Discard

Protect Privacy of Members

Who can see the list of members on the Members tab?

- ☒ All group members
- ☐ Only group owner and managers

Note: Group owner and managers are always shown. Item owners will not be hidden for content in the group.

group manager can remove members from this group.

Inviting large numbers of users to groups

Invite users

Search users

Name

Filter

Filters

Only search in Esri Canada Training

User type

Creator

Editor

Field Worker

GIS Professional Advanced

GIS Professional Basic

GIS Professional Standard

Insights Analyst

Role

Organization's groups

My groups

3 members selected

Clear Selection

Select all on page

AP

Andre Piasta

Andre_hubtraining

☒

Hardy Kraft

Hardy_hubtraining

☒

LS

LJCC01 Student

ljccstudent0157

☐

LS

LJCC01 Student

ljccstudent0184

☐

SO

Supervisor of Interns

ssepehr_hubtraining

☒

☒ Add organization members without requiring confirmation

Add to group

Cancel

Assign Group Manager

The screenshot displays the 'Hub Administration Group' interface with the 'Members' tab selected. A modal dialog titled 'Update Group Role' is open, allowing the user to assign the role of 'Group Manager' to 9 selected members. The background interface includes a search bar, filters, and a table of group members.

Hub Administration Group

Overview Content **Members** Settings

Invite users Search group member Date Joined Filter

Filters

- Group Role
 - Owner and Group Managers
 - Member
- Date Joined

9 selected Clear Selection Update Member's Group Role Remove Member From Group

Name	Group Role	Joined
<input checked="" type="checkbox"/> Ken Yurach (Hubtraining11)	Member	Jun 14, 2019
<input checked="" type="checkbox"/> Mathew Green (Hubtraining03)	Member	Jun 14, 2019
<input checked="" type="checkbox"/> Tony Lau (Hubtraining03)	Member	Jun 14, 2019
<input checked="" type="checkbox"/> Barry Otter	Member	Jun 14, 2019
<input checked="" type="checkbox"/> Kim Turchetta	Member	Jun 14, 2019
<input checked="" type="checkbox"/> Matthew P	Member	Jun 14, 2019
<input checked="" type="checkbox"/> Andre Pias	Member	May 12, 2019
<input checked="" type="checkbox"/> Sepi Sepehr	Member	Feb 10, 2019
<input checked="" type="checkbox"/> Hardy Kraft (Hardy_hubtraining)	Member	Sep 18, 2018
<input type="checkbox"/> Sepideh Sepehr (ssepehr_opendata)	Owner	May 23, 2018

Update Group Role

Update the 9 selected members to:

Group Manager

Update Cancel

Monitor member activities

▼ Last login

Clear

Today

Yesterday

Last 7 Days

Last 30 Days

• Never

Custom Range...

> Credits remaining

▼ Last login

Today

Yesterday

Last 7 Days

Last 30 Days

Never

Custom Range...

▼ App

AppStudio Developer Edition

ArcGIS Business Analyst Web a...

ArcGIS Community Analyst

CityEngine

Drone2Map for ArcGIS

GeoPlanner for ArcGIS

Insights for ArcGIS

Navigator for ArcGIS

▼ Organization's groups

🔍 Search my organization's groups

Grow your Youth Community E...

Hub Administration Group

joinanyone

June 18 Group

Matt's Open Data

New Template Initiative Collab...

New Template Initiative Open...

New Template June

New Year Event for Youth

OpenData_BEO

▼ Credits remaining

Clear

No limit

• Less than

Tips for Managing Credits

Managing Credits

You are out of Credits!

Panic Now



1. Enable Credit Budgeting

Esri Canada Training

OverviewMembersLicensesStatusSettings

SaveCancel

General

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Cancel

Credits ?

Manage and control expenditures by crafting a budget that assigns a flexible allocation of credits to some or all organization members. An allocation of any amount can be assigned to your members one at a time or as part of a bulk operation. Allocations for members may be modified at any time.

If this method does not meet your needs you can revert to solely making use of the default organization-wide credit monitoring strategy.

Credit Budgeting and Allocation



Check the checkbox below to budget credits. Once you have enabled the credit budgeting tools you can set default credit allocation for new members at the [New Member Defaults](#) page. Also, you can click "Manage Budget" to allocate credits to a selection of members in your organization. You can also set credit allocation in the Action menu associated with an individual member in the Organization page Members tab.

☒ Enable credit budgeting tools

☒ Show each member's available credits on their profile page

Manage Budget

2. Create custom member roles

The screenshot shows the 'General Privileges' configuration page. It is divided into six sections: Members, Groups, Content, Sharing, Premium Content, and Features. Annotations include a green arrow labeled 'Storage Privileges' pointing from the Groups section to the Content section, and another green arrow labeled 'Transaction Privileges' pointing from the Sharing section to the Premium Content section. The Content and Premium Content sections are highlighted with blue boxes.

[-] <input checked="" type="checkbox"/> Members	[-] <input checked="" type="checkbox"/> Groups	[-] <input type="checkbox"/> Content
<input checked="" type="checkbox"/> View	<input checked="" type="checkbox"/> Create, update, and delete groups <input checked="" type="checkbox"/> Join organizational groups <input checked="" type="checkbox"/> Join external groups <input checked="" type="checkbox"/> View groups shared with organization	<input checked="" type="checkbox"/> Create, update, and delete content <input checked="" type="checkbox"/> Publish hosted feature layers <input type="checkbox"/> Publish hosted tile layers <input type="checkbox"/> Publish hosted scene layers <input checked="" type="checkbox"/> View content shared with organization

[-] <input type="checkbox"/> Sharing	[-] <input type="checkbox"/> Premium Content	[-] <input type="checkbox"/> Features
<input checked="" type="checkbox"/> Share with groups <input checked="" type="checkbox"/> Share with organization <input checked="" type="checkbox"/> Share with public <input type="checkbox"/> Make groups visible to organization <input type="checkbox"/> Make groups visible to public <input type="checkbox"/> Make groups available to Open Data	<input checked="" type="checkbox"/> Geocoding <input type="checkbox"/> Network Analysis <input type="checkbox"/> Spatial Analysis <input type="checkbox"/> GeoEnrichment <input type="checkbox"/> Demographics <input type="checkbox"/> Elevation Analysis	<input checked="" type="checkbox"/> Edit <input type="checkbox"/> Edit with full control

[-] <input type="checkbox"/> Open Data
<input type="checkbox"/> Manage Open Data site(s)

3. Using Your Credits Wisely

Storage

Feature Services Storage (excludes feature attachments)

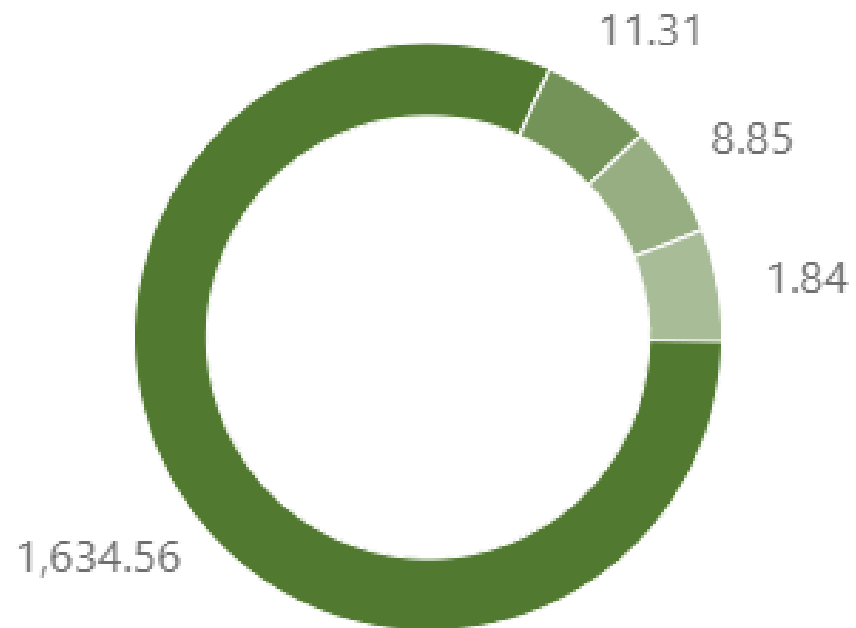
2.4 credits per 10 MB stored based on hourly calculations of storage per month

Tile and Data Storage (map tiles, feature attachments, scene layer packages, and documents)

1.2 credits per 1 GB stored per month

Analytics

4. Monitor credit Usage



Storage Usage Chart

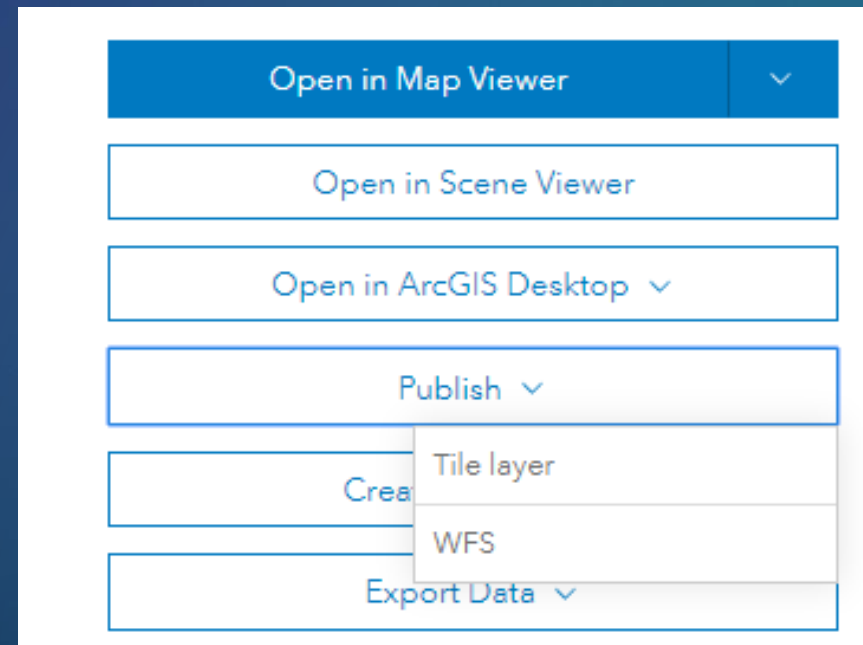
- Feature Storage (1,634.56)
- Tile Storage (11.31)
- File Storage (8.85)
- Scene Storage (1.84)

Best Practices for High Demand Layers

Best Practices for Layer Management

Pick the most appropriate layer Type for your data and workflow

- Create a **Hosted Tile Layer** for large complex datasets
- Use a Hosted Feature Service that is optimized for high demand for data



Optimize Hosted Feature Service for High Demand

1. Increase Cache Control

Cache Control

When a layer is shared with the public, it is cached by a Content Delivery Network (CDN). A CDN can dramatically decrease latency when delivering your content around the globe. This improves the map load time and the responsiveness of apps, and leads to a better user experience. By default, the CDN regularly checks the feature layer to make sure the CDN cache is current. You can further improve performance by increasing the length of time that the current cache is considered valid. If you do this, public users viewing the data will not immediately see edits made to the data and will have to wait longer to see the updates. [Learn more.](#)

What is the longest time you want your users to wait before seeing updates?

5 Minutes



Optimize Hosted Feature Service for High Demand

2. Editing is disabled.

Feature Layer (hosted)

Editing

☐ Enable editing.

☐ Keep track of created and updated features.

Publish ▼

Create View Layer

Optimize Hosted Feature Service for High Demand

3. Enable Optimize layer drawing of complex lines and polygons

Optimize Layer Drawing

This setting increases the drawing speed of line and polygon layers with detailed geometry (e.g., many vertices) but also uses additional storage space to do so.

Select the layers to optimize:

☐ MG_ZONING_BYLAW_POLY

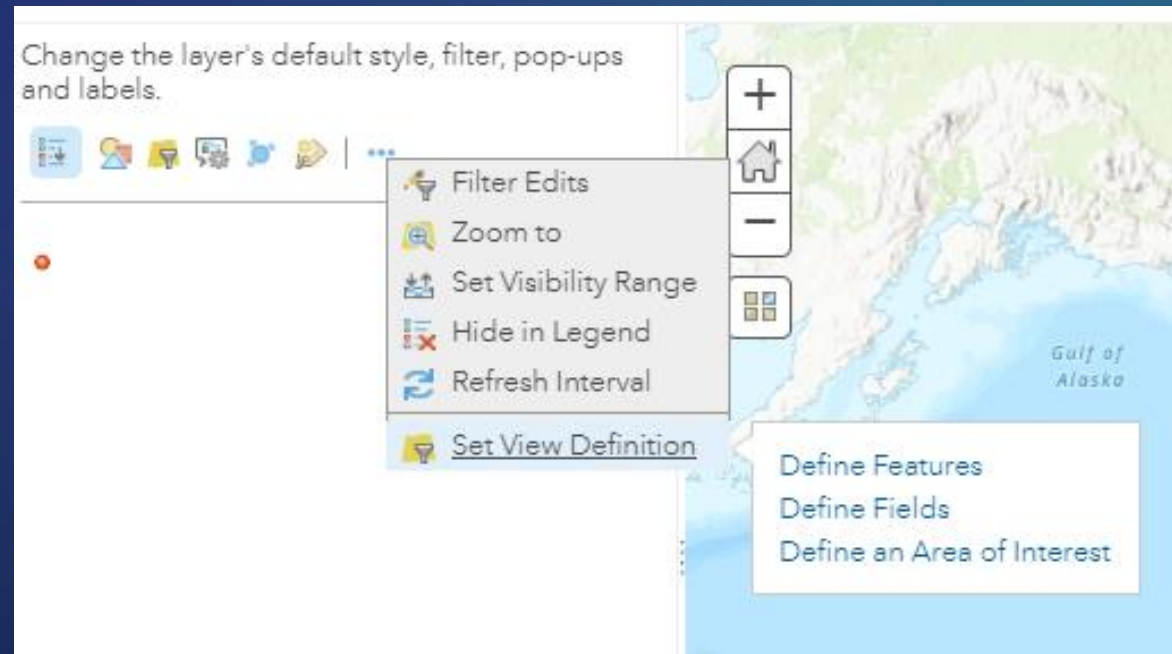
Note: Layer optimization takes a few minutes to complete. Editing will be temporarily disabled on layers undergoing optimization.

Optimize Hosted Feature Service for High Demand

4. Have your feature layer's projection match with the Esri base map projection to prevent re-projection by server

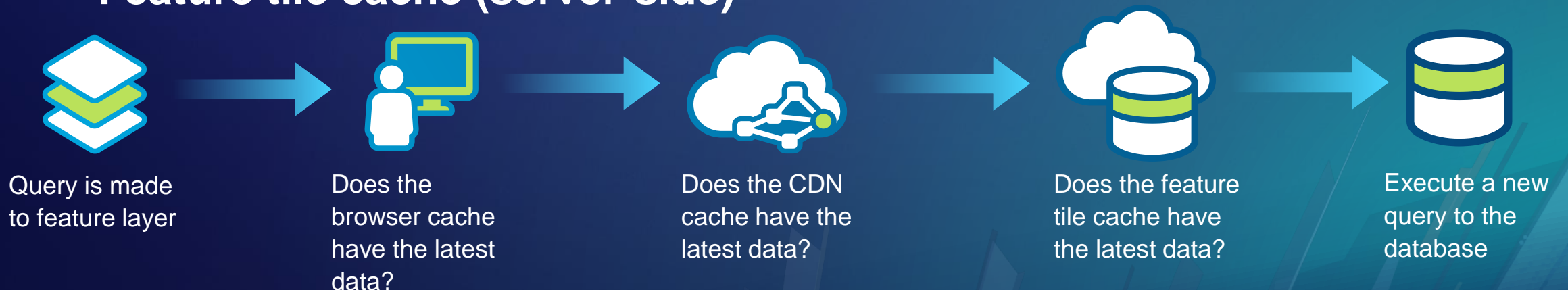
Optimize Hosted Feature Service for High Demand

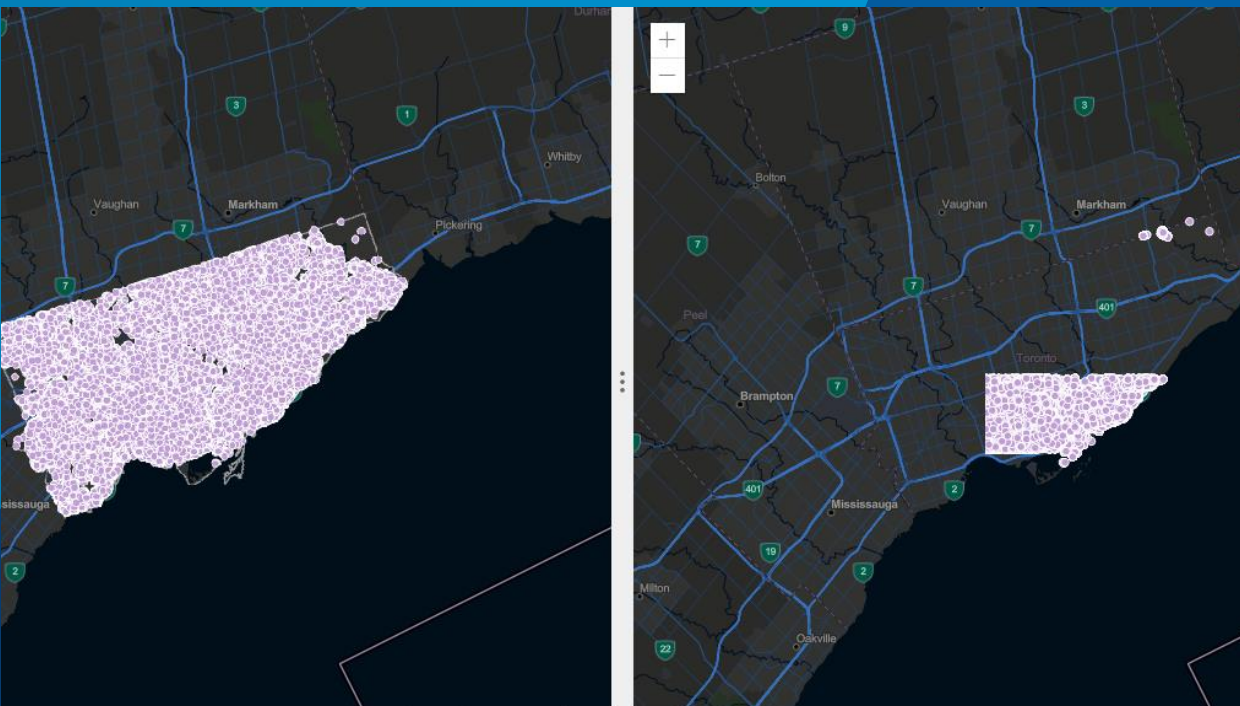
5. Remove any filters



Feature tile queries and response caching

- **ArcGIS Online Scales to meet demand of audience**
- **Queries to large datasets are sent as tiled requests whose responses can be cached**
- **Response caching levels:**
 - **Browser cache (client-side)**
 - **Content Delivery Network cache (CDN)**
 - **Feature tile cache (server-side)**





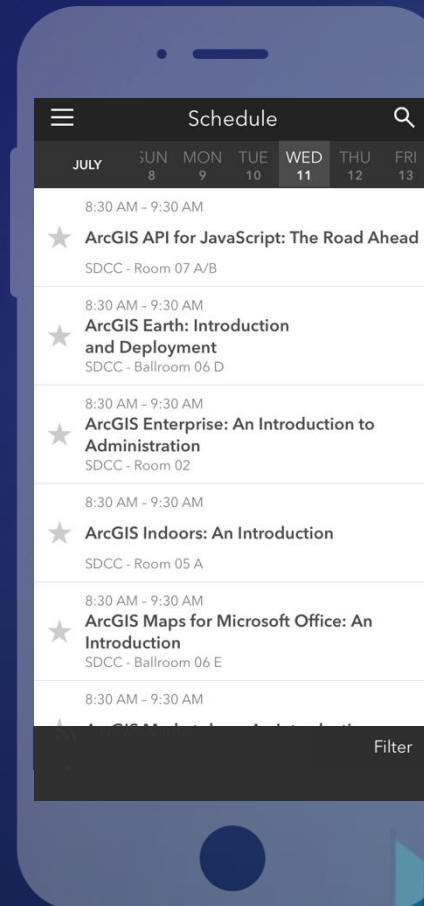
Hosted Feature Layer vs Hosted Tile Layer

Thank you for Attending this session:

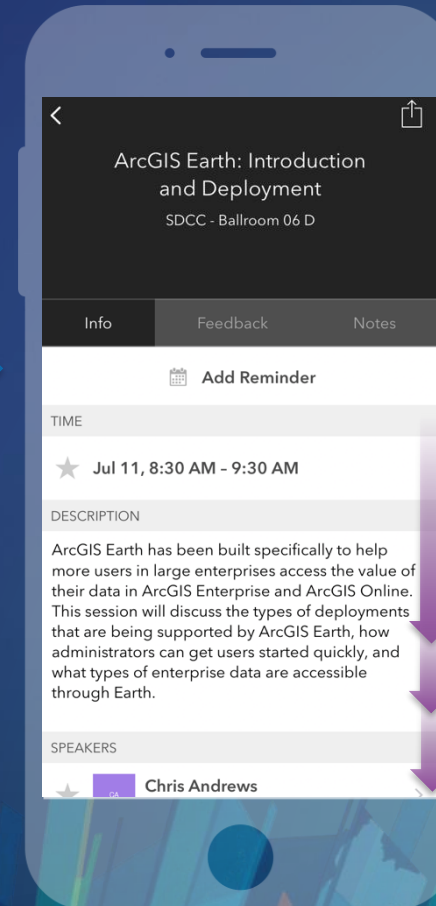
Download the Esri Events app and find your event



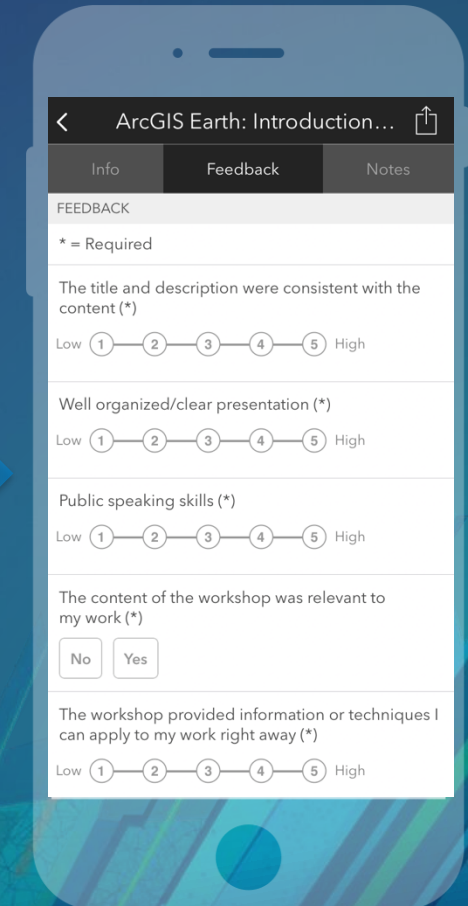
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"





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