



## Agenda

• Land Acknowledgement

• Apple Developer Program Update

• Apple Enterprise Program Update

Google Update

• GitHub Advanced Security



### **Land Acknowledgement**

• I would like to acknowledge the land on which I am privileged to work, live and recreate on is the unceded territory of the Malahat people.



### **Apple Developer Program**

- Distribution Certificate **expires September 19**<sup>th</sup>
- This affects teams that use a pipeline to sign their app
- Teams that use XCode managed signing certificates are NOT affected



### What happens when a certificate expires?

- Users of your app are NOT affected
- The app will function as usual
- Developers cannot upload new versions of the app to the app store with the expired certificate
  - The app must be signed with a current certificate



### **Developer Experience Team Actions**

- Monday, September 16<sup>th</sup> at 8:30 am
- Create the new certificate
- Create new provisioning profiles for affected apps
- Place new certificate in GitHub secrets



### **Developer Experience Actions**

- The following bcgov GitHub organization secrets will be updated:
  - APPLE\_APP\_STORE\_BUILD\_CERTIFICATE\_BASE64
  - APPLE\_APP\_STORE\_BUILD\_CERTIFICATE\_PASSWD
- Notification of when work is completed will be posted to the <u>#devops-mobile-development</u> channel in Rocket.Chat



 Download the new provisioning profile at:

https://developer.apple.com/account

#### **Program resources**



#### **App Store Connect**

Manage your app's builds, metadata, and more on the App Store.

- Apps
- App Analytics
- Sales and Trends
- Payments and Financial Reports
- ♣ Business
- Users and Access



#### Certificates, IDs & Profiles

Manage the certificates, identifiers, profiles, and devices required to develop, test, and distribute apps.

- Identifiers
- Devices
- Profiles

  Keys
- Service configuration



#### Services

View and manage your usage of developer services.

- Xcode Cloud
- CloudKit
- ① Apple Maps
- Push Notifications



 The new provisioning profile will be named "app name -2024/25"

 Update your GitHub repo's secret to use the new provisioning profile

Profiles •			Q All Types - All Platforms - Edit
NAME ~	PLATFORM	TYPE	EXPIRATION
BC Secure Wallet - 2023/24	iOS	App Store	2024/09/19
BC Services Card DEV - Dev Distribution	iOS	Development	Expired
BC Virtual Visit Notification Ext. Patient 2023/24	iOS	App Store	2024/09/19
BC Virtual Visit Notification Ext.Provider 2023/24	iOS	App Store	2024/09/19
BC Virtual Visit Patient 2023/24	iOS	App Store	2024/09/19
BC Virtual Visit Provider - 2023/24	iOS	App Store	2024/09/19
BC WILD - 2023/24	iOS	App Store	2024/09/19 Download
BC WILD - Development	iOS	Development	Expired
BC Wildfire Information - 2023/24	iOS	App Store	2024/09/19
Developer Experience Mobile Test App - 2023/24	iOS	App Store	2024/09/19
InvasivesBC - Plants and Animals - 2023/24	iOS	App Store	Invalid
InvasivesBC Muscles - 2023/24	iOS	App Store	2024/09/19
WorkBC - 2023/24	iOS	App Store	2024/09/19
WorkBC Test - 2023/24	iOS	App Store	2024/09/19



- Base64 encode the provisioning profile and update your GitHub secret with it.
  - Do NOT CHECK IT INTO YOUR CODEBASE. USE A GitHub SECRET
- Optionally: Update your exportOptions.plist file to use new provisioning profile id.
- Refer to GitHub's documentation on installing certificates for details



- Trouble?
  - Contact the developer experience team:

Developer.Experience@gov.bc.ca



### **Questions?**

• Does this timeline and strategy work for you?



### **Apple Enterprise Program**

- All Enterprise Program apps are now signed in a GitHub workflow
- Build artifacts are created in either a private bcgov-c repo or in a private project in Artifactory
- The Enterprise Certificate and build files are now handled securely and meet Apple's requirements for belonging to the Enterprise Program
- Thank you to all the teams for your work on this project!







### **Apple Enterprise Program**

- One internal app is scheduling deployment
- The old certificate will be revoked once that app is deployed
- A notice will be sent via email and in Rocket.Chat before the old certificate is revoked



### **Apple Certificates Milestone**

- For both the Developer and Enterprise program all apps are now either signed by a CI/CD pipeline or via XCode managed signing
- Certificates are no longer emailed to teams
- Thank you everyone for your work on this over the past year!







# Questions?

Any questions?



### **Google Program – Developer Profile**

- Developer Experience Team working to verify account
- Account verification requires contact info to display on listing page
- We are working with OCIO IT Service Desk to setup a phone number and email address for this.
- We expect very little contact via this. Any inquiries received will be forwarded to appropriate teams

### Your developer profile and all apps will be removed from Google Play on 25 September 2024

All developers must complete account verification to comply with the updated <u>Play Console requirements policy</u>. If you do not complete account verification by 25 September 2024, your developer profile and apps will be removed from Google Play.

To learn more about account verification, visit the Help Centre

Verify your developer account

Only the account owner can verify this developer account

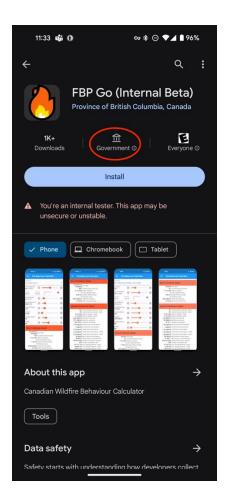
Need more time? Request an extension

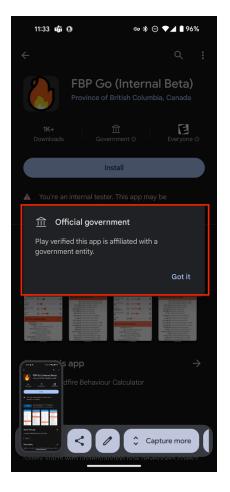
Got started



### **Google Program - Reminder**

- Google now adds a "Government" badge in the app listings on official apps
- App teams can declare an app as an official government app by providing details to Google







### **Google Program**

#### Monetise

▶ ☑ Products

Price experiments

Promo codes

\$ Financial reports

Monetisation setup

#### Policy and programmes

Policy status

(i) App content

Teacher approved

#### Government apps

Tell us if your app is for use by a government of any kind. This includes national, state and city governments, and local authorities. This helps us make sure that the right teams review your submission. Learn more

#### Why this impacts your app

All developers are required to tell us if their app is a government app. Submit this declaration to release app updates.

Start declaration

#### Financial features

Apps that provide financial features may need to comply with certain regulations in some countries/regions. Submit accurate and up-to-date details of the financial features in your app to help us make sure that the right teams review your submission. <u>Learn more</u>

#### Why this impacts your app

All developers are required to submit this declaration for their apps

Start declaration



### **Google Program**

(i) Make sure that you have provided proof that your app meets our requirements

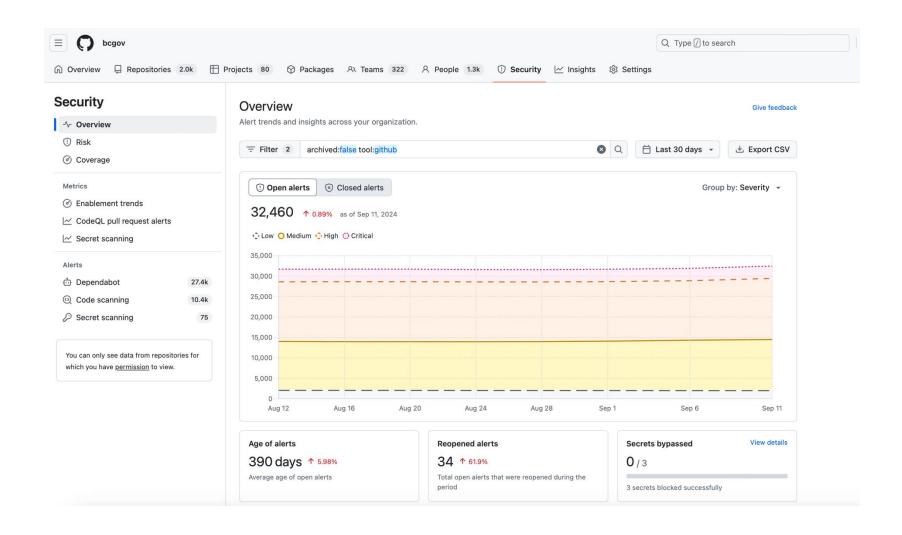
If you are a third-party developer facilitating a government process (such as voting or ID validation) you need to provide proof of authorisation. The relevant government or government entity must submit this documentation.

If you are a government entity, you can provide proof of permission by submitting documentation. This documentation must include government contact information for validation.

Go to advance notice form Learn more



### **GitHub Advanced Security**





### **GitHub Advanced Security**

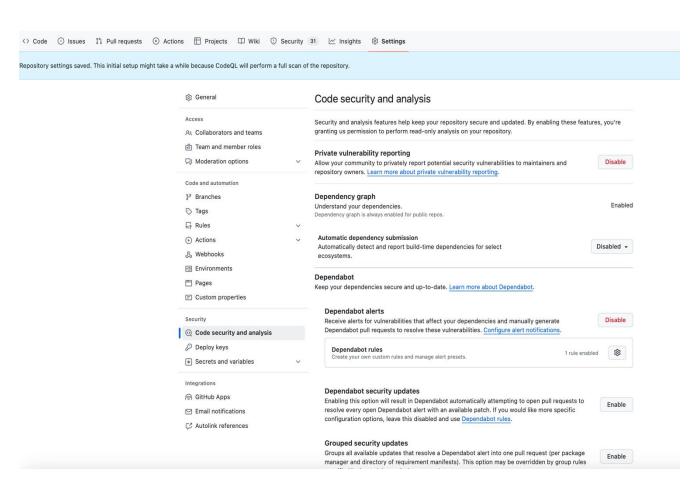
- Available to all public repositories
  - If your repo is in the bcgov organization, you have access to it
- View alerts to repos you have access to from the "Security" tab on the top menu bar
- Coming soon to private repos in bcgov-c organization

### **GitHub Advanced Security**

Settings available in repo's:

Settings -> Security -> Code security and analysis menu

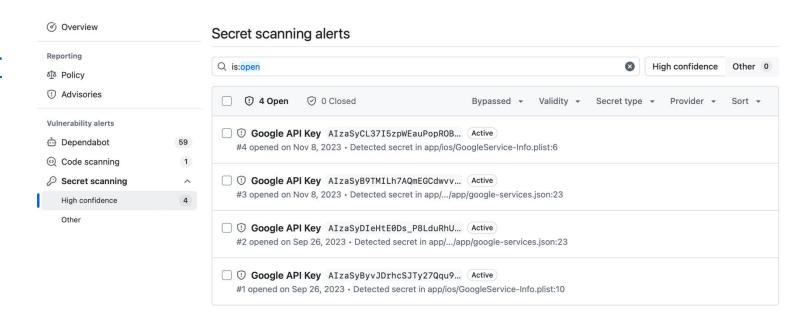






### **Secret Scanning**

- Alerts on <u>supported partner</u> secrets
- Can dismiss alerts as false positives or resolve them





### **Code Scanning**

- <u>CodeQL</u> scanning is enabled with "default setup" for all bcgov GitHub orgs
- Scans repos that use a supported language:
  - C/C++
  - C#
  - Go
  - Java/Kotlin
  - JavaScript/TypeScript
  - Python
  - Ruby
  - Swift
- You can configure multiple code scanning tools



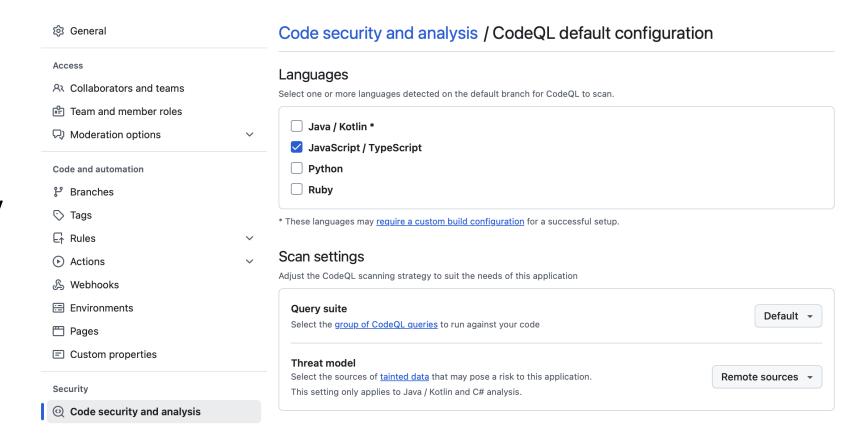
### **Code Scanning**

- GitHub will automatically detect the language of your repo
- If you are using a cross platform framework, you may need to configure the default settings
- Either exclude languages or provide an advanced codeql workflow



### **Code Scanning – ReactNative Example**

- GitHub detects Java/Kotlin from the android directory in my repo, but no custom code exists in that directory
- Turn off Java/Kotlin for the repo





### **Code Scanning – ReactNative Example**

- GitHub detects Java/Kotlin and I want to provide a custom configuration for it
- Turn on "Advanced" CodeQL Anaylasis
- This will provide a boilerplate workflow you can edit

```
name: "CodeQL Advanced"
          branches: [ "main" ]
        pull request:
          branches: [ "main" ]
          - cron: '34 8 * * 4'
      jobs:
10
        analyze:
11
          name: Analyze (${{ matrix.language }})
12
          runs-on: ${{ (matrix.language == 'swift' && 'macos-latest') || 'ubuntu-latest' }}
13
          permissions:
14
            security-events: write
15
            packages: read
            actions: read
17
            contents: read
18
          strategy:
19
            fail-fast: false
            matrix:
              include:
22
              - language: java-kotlin
23
                build-mode: none # This mode only analyzes Java. Set this to 'autobuild' or 'manual' to analyze Kotlin too.
              - language: javascript-typescript
25
                build-mode: none
26
          steps:
27
          - name: Checkout repository
            uses: actions/checkout@v4
          - name: Initialize CodeQL
30
            uses: github/codeql-action/init@v3
31
              languages: ${{ matrix.language }}
              build-mode: ${{ matrix.build-mode }}
          - if: matrix.build-mode == 'manual'
            shell: bash
              echo 'If you are using a "manual" build mode for one or more of the' \
                'languages you are analyzing, replace this with the commands to build'
                'your code, for example:'
              echo ' make bootstrap'
              echo ' make release'
              exit 1
        - name: Perform CodeQL Analysis
            uses: github/codeql-action/analyze@v3
45
              category: "/language:${{matrix.language}}"
```



### What's next

- Turn on Advanced Security for bcgov-c
- Investigate additional configurations:
  - example:
    - block uploads of .env files
    - Provide custom secret patterns to scan for



# Questions

Any questions?



### Next Meetup - Dec 4th @1pm

### We are looking for presenters!

- Please contact the Developer Experience team if you would like to present at the next meetup
- Developer.Experience@gov.bc.ca