

Intro

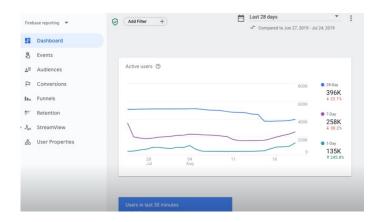
- What will GA4 replace in the current set up we are using?
 (a brief description of UA)
- What is actually GA4? (a brief description of GA4)
- What are the major differences between UA and GA4?
- How does GA4 look like?
- Why is this valuable to work on and how this transition could affect Global Analytics?
- Should we switch to GA4 right now? (short answer is NO)

Intro

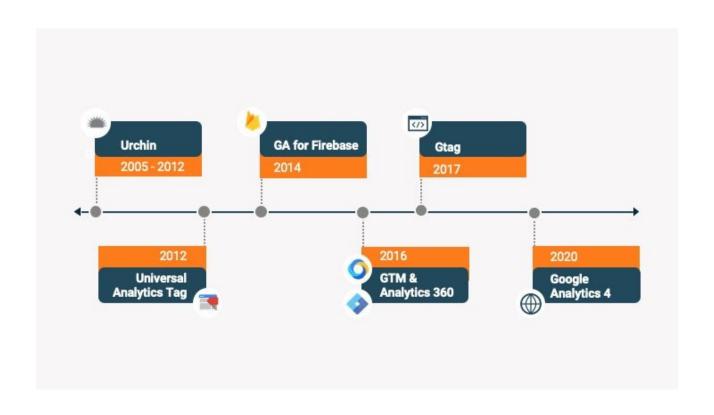








Intro



Core Implementation & Admin Section

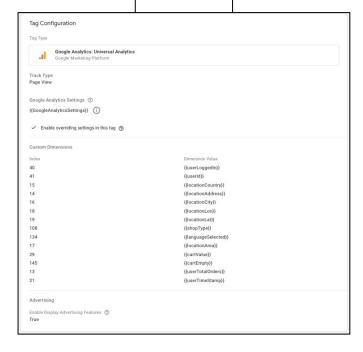
Properties, Data Streams, Identity...

GA4 Configuration

App Web Configuration from Configuration from Firebase Project GA **Creating Data** Stream/Streams in GA

GTM Config - Universal Analytics





App



GTM Config - Google Analytics 4

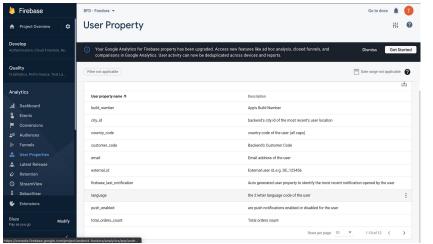
```
Web
Tag Configuration
Tag Type
   gtag('set', 'user_properties', {
Measur
     user_property_1: 'value_1',
{{GA4 -
      user_property_2: 'value_2',
      user_property_3: 'true'
user_p
    .. in addition to the automatically logged user
    properties
```

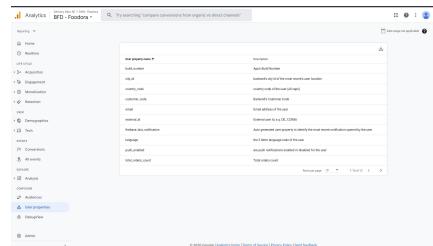
App × Choose tag type Google Analytics (Firebase) Google Analytics: Universal Analytics Floodlight Counter Google Ads Conversion Tracking Google Ads Remarketing Custom Custom Image More Kochava Event Tracking Tune Mobile App Tracking

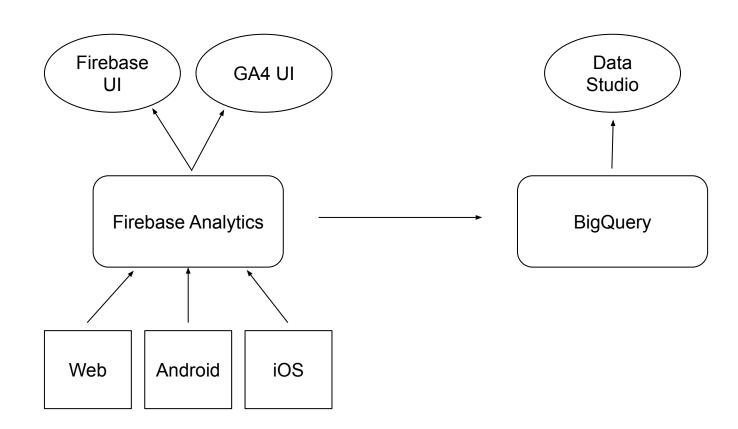
User Properties

Firebase



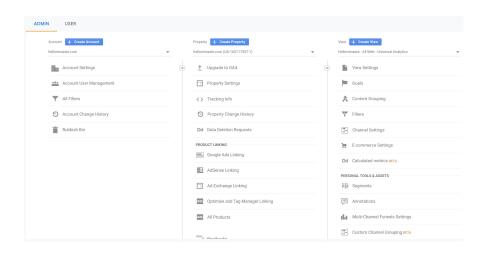


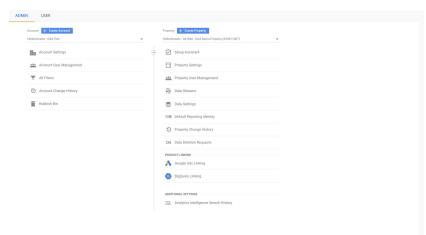


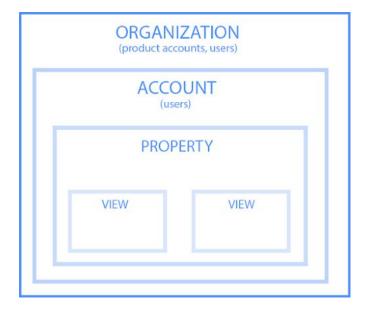


UΑ

GA4









Data Streams

Account structure

Principles applied

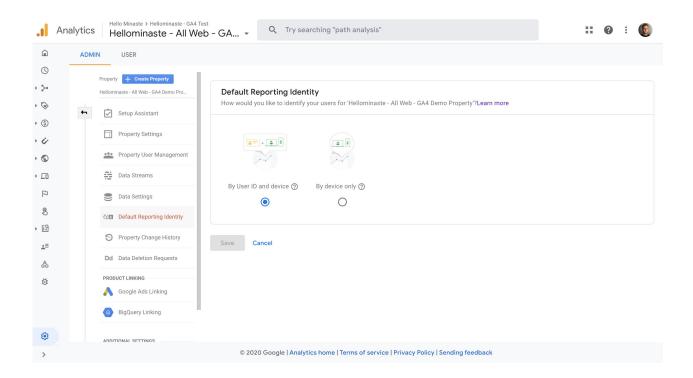
- · Account: One account. Data is owned by a single legal entity.
- Property: One property for a single logical user base.
- · Data streams: One data stream for the website. One data stream for each version of the app.

Structure	Rationale
One Analytics account. If there's an existing Analytics account, there's no need to create a new one.	The umbrella corporation has legal ownership of the data for all business entities.
One Google Analytics 4 property.	A single property with data streams for each website and each app implementation makes all the data available for inclusion in the same reports. You can combine data for sites and apps as necessary to see how users journey between the two. The umbrella corporation has a unified view of all data, and can compare data between different business entities.
One data stream for each regional business entity's website.	A separate data stream for each website allows each business entity to isolate its own data.
One Firebase project for the Android and iOS implementations of the app. The Firebase project is linked to the Google Analytics 4 property. One data stream each for the iOS and Android version of the app (i.e., two data streams).	A separate data stream for each app implementation makes it possible to isolate iOS vs Android data.
Each Google Ads account is linked to the property.	With each Google Ads account linked to the single property, audiences from the property are available to each Google Ads account for bidding.

Data Streams

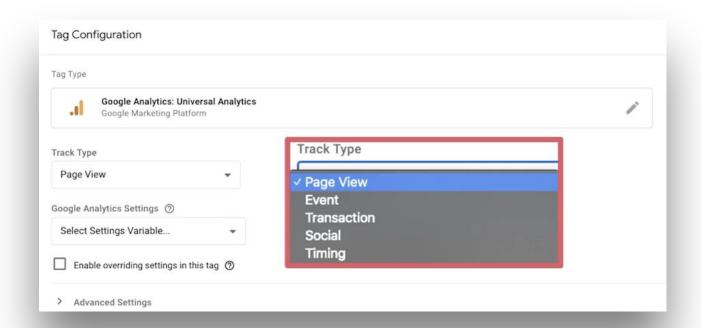


Identity

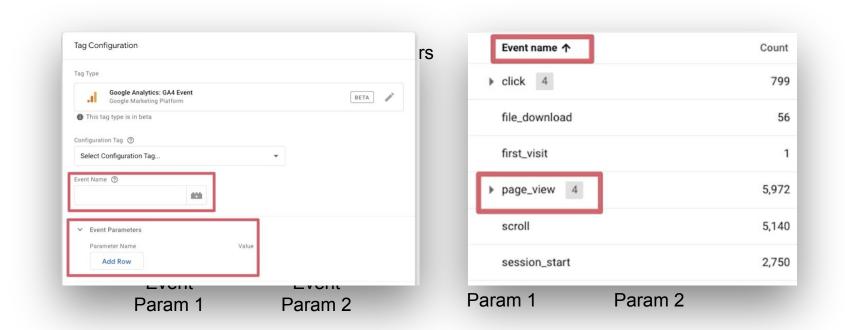


New Data Model - Events & Conversions

UA Events



GA4 Events



GA4 Events

UA

ec: android.order_confirmation

ea: transaction

el: acquisition // transactionType

cd108: darkstores //vendorType

cd20: 123

cd36:567 // transactionId

cd35: KWD // currencyCode

cm1: 10 // transactionRevenue

GA4

event_name: transaction

operating_system: android

screen_name: order_confirmation

vendorType: darkstores

vendor_id: 123,

transaction_id: 567,

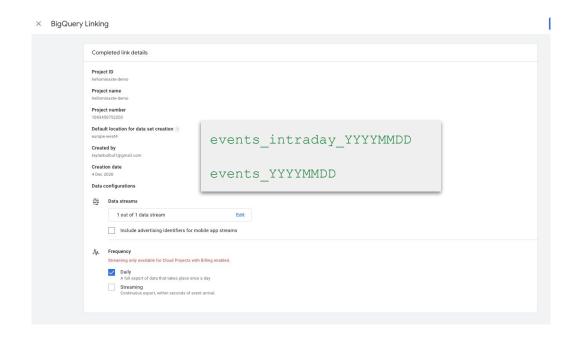
value: 10.0,

currency: KWD,

items: [product_1, product_2]

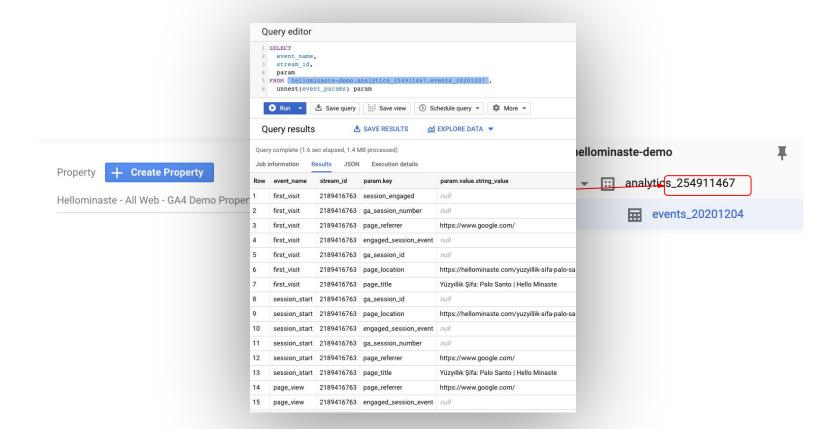
BigQuery

BQ Linking



- Crashlytics enables you to export fatal, non-fatal, and stack trace data for apps
- The Cloud Messaging export enables to evaluate whether the messages we send reach the user
- The Performance export creates a table that includes all the captured performance events
- The Predictions export creates a table for each app in the project that includes the Predictions data for each user
- Firebase A/B tests
- Events

Recall to Data Streams



Limitations

Limitations

Logged/Configured Item	Limit
Distinct events	500 per app instance (not automatically collected events)
Length of event name	40 characters
Event parameters per event	100
Length of event-parameter name	40 characters
Length of event-parameter value	100 characters
User properties	100 per property
Length of user-property names	24 characters
Length of user-property values	36 characters
Registered user properties	100
Event parameters	100 (50 numeric, 50 string)

Useful Sources

Confluence

UA vs GA4

Account Arch Options

Naming Conventions

Limits

Cross-Domain Tracking

GA4 Measurement Protocol (alpha)

BQ Export Schema

User Properties

Consent Mode (beta)

Ecom Guide for GTM

Google Signals & Privacy