



Delphi Live

 Italia



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NOTIFICHE PUSH CON DELPHI

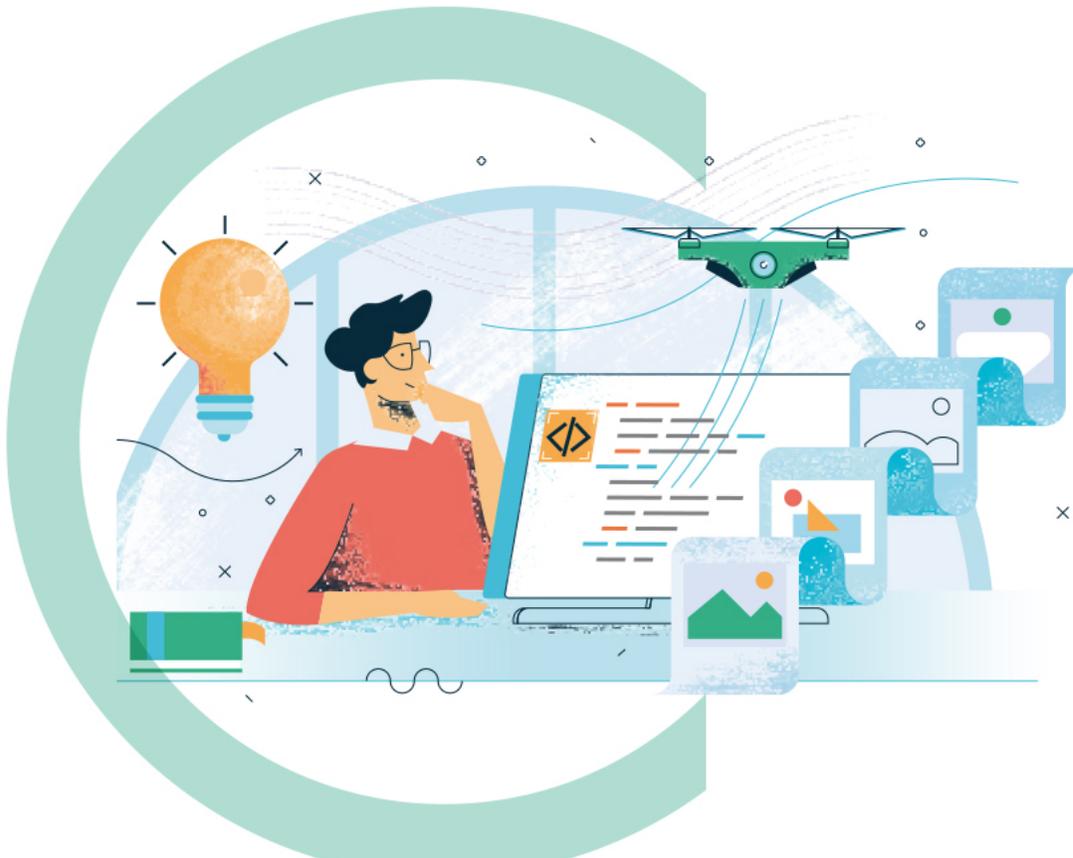




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**Sviluppo software & App
Digital Marketing
Consulenza e formazione**

www.wau73.com

AGENDA

- Configurazione account Apple / Google
- Creazione / configurazione progetto Firebase
- Configurazione client mobile
- Integrazione notifiche push nell'applicazione mobile
- Test server / firebase / personale
- Domande e saluti

PREMESSA

Le notifiche PUSH con Delphi non funzionano ...

... forse con Android

... forse con iOS

... no, aspettiamo la prossima versione di Delphi

Configurazione account Apple / Google

Account Apple developer attivo

Un'applicazione pronta

Tanta pazienza!

CONFIGURAZIONE ACCOUNT APPLE / GOOGLE



Certificates, Identifiers & Profiles

Certificates +

Identifiers

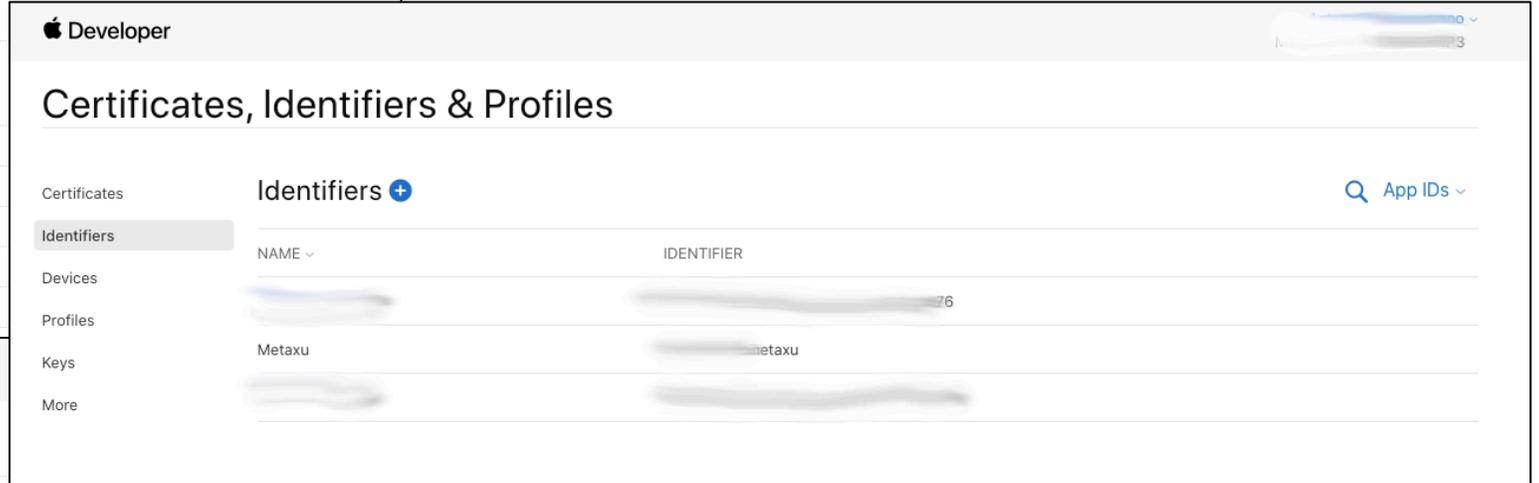
Devices

Profiles

Keys

More

NAME	TYPE	PLATFORM
[REDACTED]	Development	All
[REDACTED]	Apple Push Services	iOS
[REDACTED]	Apple Push Services	iOS
[REDACTED]	iOS Distribution	iOS



Certificates, Identifiers & Profiles

Identifiers +

App IDs

NAME

IDENTIFIER

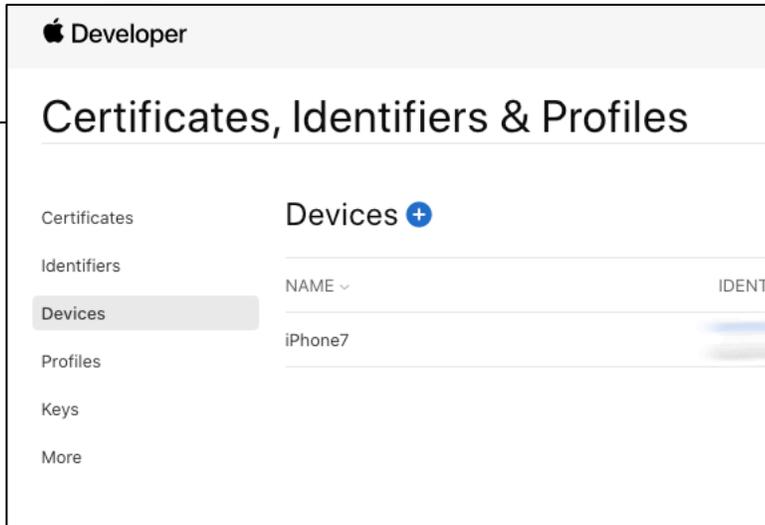
Devices

Profiles

Keys

More

NAME	IDENTIFIER
[REDACTED]	[REDACTED]76
Metaxu	[REDACTED]metaxu
[REDACTED]	[REDACTED]



Certificates, Identifiers & Profiles

Devices +

All Types

Edit

NAME

IDENTIFIER

TYPE

Devices

Profiles

Keys

More

NAME	IDENTIFIER	TYPE
iPhone7	[REDACTED]	iPhone

CONFIGURAZIONE ACCOUNT APPLE / GOOGLE

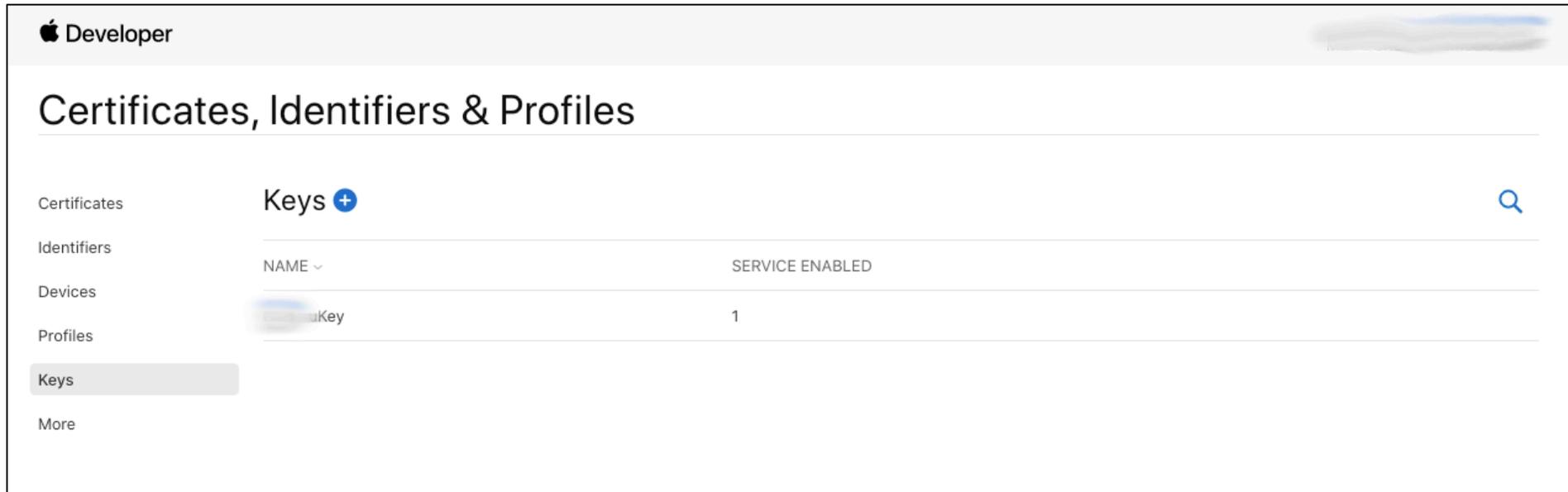
Apple Developer

Certificates, Identifiers & Profiles

Certificates Profiles + 🔍 All Types ▾ All Platforms ▾ Edit

NAME ▾	PLATFORM	TYPE	EXPIRATION
[REDACTED]	iOS	App Store	2020/06/03
[REDACTED] Store	iOS	App Store	2020/08/05
[REDACTED] DEV	iOS	Development	2021/04/07
[REDACTED]	iOS	App Store	2021/03/19

CONFIGURAZIONE ACCOUNT APPLE / GOOGLE



The screenshot shows the Apple Developer portal interface. At the top left, it says "Developer" with the Apple logo. The main heading is "Certificates, Identifiers & Profiles". On the left side, there is a navigation menu with the following items: "Certificates", "Identifiers", "Devices", "Profiles", "Keys" (which is highlighted with a grey bar), and "More". The main content area is titled "Keys" with a blue plus icon. Below this title, there is a search icon. A table is displayed with two columns: "NAME" and "SERVICE ENABLED". The table contains one row with the name "Key" and the value "1".

NAME	SERVICE ENABLED
Key	1

CONFIGURAZIONE ACCOUNT APPLE / GOOGLE

Apple Developer

Certificates, Identifiers & Profiles

[< All Keys](#)

Register a New Key Continue

Key Name

You cannot use special characters such as @, &, *, ', "

ENABLE	NAME	SERVICE	
<input type="checkbox"/>	Apple Push Notifications service (APNs)	Establish connectivity between your notification server and the Apple Push Notification service. One key is used for all of your apps. Learn more	
<input type="checkbox"/>	DeviceCheck	Access per-device, per-developer data that your associated server can use in its business logic. One key is used for all of your apps. Learn more	
<input type="checkbox"/>	MapKit JS	Use Apple Maps on your websites. Show a map, display search results, provide directions, and more. Learn more	Configure
<input type="checkbox"/>	MusicKit	Access the Apple Music catalog and make personalized requests for authorized users. Learn more	Configure
<input type="checkbox"/>	Sign in with Apple	Enable your apps to allow users to authenticate in your application with their Apple ID. Configuration is required to enable this feature.	Configure

ⓘ There are no identifiers available that can be associated with the key

CONFIGURAZIONE ACCOUNT APPLE / GOOGLE

Apple Developer

Certificates, Identifiers & Profiles

[< All Identifiers](#)

Edit your App ID Configuration

[Remove](#) [Save](#)

Platform
iOS, macOS, tvOS, watchOS

Description

You cannot use special characters such as @, &, *, ', "

App ID Prefix
 (Team ID)

Bundle ID
 (explicit)

Capabilities

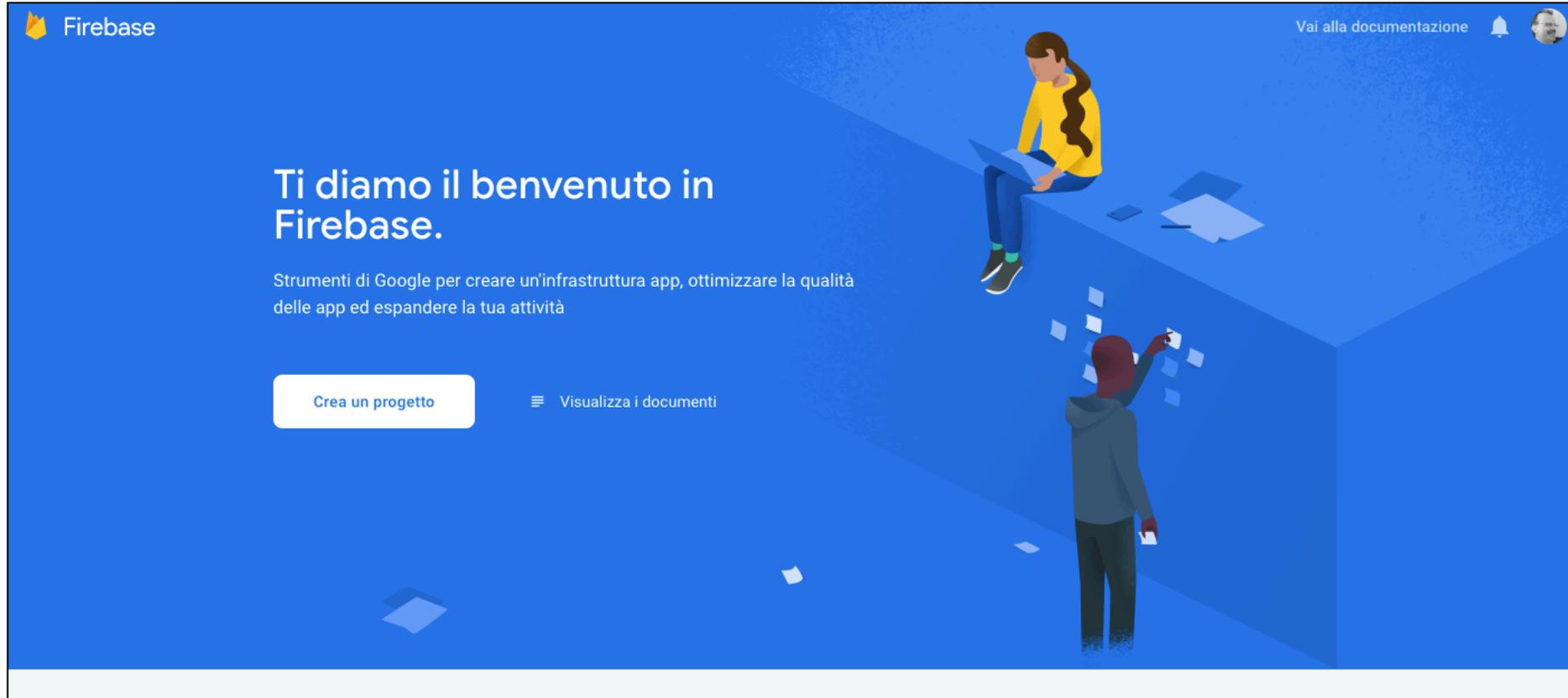
ENABLED	NAME
<input type="checkbox"/>	 Access WiFi Information ⓘ

CONFIGURAZIONE ACCOUNT APPLE / GOOGLE

<input type="checkbox"/>	 NFC Tag Reading ⓘ		
<input type="checkbox"/>	 Personal VPN ⓘ		
<input checked="" type="checkbox"/>	 Push Notifications ⓘ	Configure	Certificates (0)
<input type="checkbox"/>	 Sign In with Apple ⓘ	Configure	
<input type="checkbox"/>	 SiriKit ⓘ		
<input type="checkbox"/>	 System Extension ⓘ		
<input type="checkbox"/>	 User Management ⓘ		
<input type="checkbox"/>	 Wallet ⓘ		
<input type="checkbox"/>	 Wireless Accessory Configuration ⓘ		
<input type="checkbox"/>	 Mac Catalyst (Existing Apps Only) ⓘ	Configure	

Creazione / configurazione progetto Firebase

CREAZIONE / CONFIGURAZIONE PROGETTO FIREBASE



CREAZIONE / CONFIGURAZIONE PROGETTO FIREBASE

× Crea un progetto(Passaggio 1 di 3)

Inizia dando un nome al progetto[®]

Nome progetto

DelphiPush

delhipush-bc78e

Continua

× Crea un progetto(Passaggio 2 di 3)

Google Analytics per il tuo progetto Firebase

Google Analytics è una soluzione di analisi gratuita e illimitata che abilita il targeting, il reporting e molto altro su Firebase Crashlytics, Cloud Messaging, messaggistica in-app, Remote Config, Test A/B, Predictions e Cloud Functions.

Google Analytics abilita:

- Test A/B ⓘ
- Segmentazione e targeting degli utenti sui prodotti Firebase ⓘ
- Previsione del comportamento degli utenti ⓘ
- Utenti che non hanno sperimentato arresti anomali ⓘ
- Trigger di Cloud Functions basati su eventi ⓘ
- Reporting illimitato gratuito ⓘ

Abilita Google Analytics per questo progetto
Consigliata

Indietro

Continua

Google Analytics include rapporti di analisi gratuiti e illimitati riguardanti fino a 500 tipi di eventi diversi, oltre a una solida dashboard e strumenti di generazione dei rapporti disponibili direttamente nella Console Firebase.

CREAZIONE / CONFIGURAZIONE PROGETTO FIREBASE

× Crea un progetto(Passaggio 3 di 3)

Configura Google Analytics

Scegli o crea un account Google Analytics ?

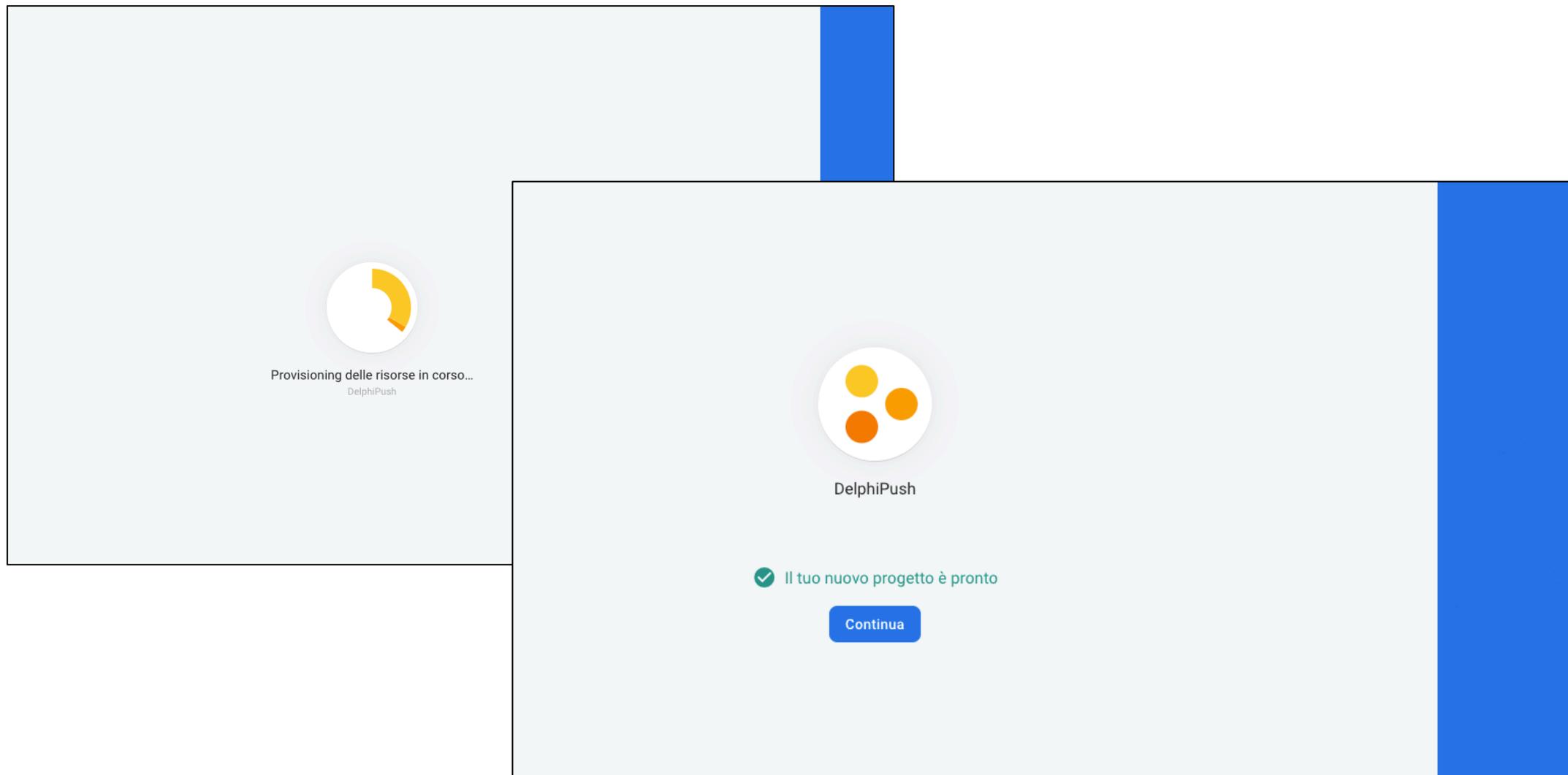
 Antonello Carlomagno ▼

Crea automaticamente una nuova proprietà in questo account ✎

Al momento della creazione del progetto, verrà creata una nuova proprietà di Google Analytics nell'account Google Analytics di tua scelta e sarà collegata al tuo progetto Firebase. Questo link abiliterà il flusso di dati tra i prodotti. I dati esportati dalla proprietà Google Analytics in Firebase sono soggetti ai Termini di servizio di Firebase, mentre i dati Firebase importati in Google Analytics sono soggetti ai Termini di servizio di Google Analytics. [Ulteriori informazioni.](#)

[Indietro](#) [Crea progetto](#)

CREAZIONE / CONFIGURAZIONE PROGETTO FIREBASE



CREAZIONE / CONFIGURAZIONE PROGETTO FIREBASE

The screenshot shows the Firebase console interface. On the left is a dark sidebar with the 'Firebase' logo and a navigation menu containing: 'Panoramica del progetto', 'Sviluppo' (with sub-items: Authentication, Database, Storage, ...), 'Qualità' (with sub-items: Crashlytics, Performance, Test Lab, ...), 'Analisi' (with sub-items: Dashboard, Events, Conversions, Au...), and 'Crescita' (with sub-items: Predictions, A/B Testing, Cloud Mes...). The main content area has a blue header with the project name 'DelphiPush' and a 'Vai alla documentazione' link. Below the header is a white banner with an email subscription prompt: 'Ricevi via email aggiornamenti relativi alla ricerca, agli eventi e alle funzionalità di Firebase' and a 'Registrati' button. The main body features a large blue illustration of two people interacting with a digital interface. The text 'Inizia aggiungendo Firebase alla tua app' is prominently displayed, with a 'Piano Spark' badge. Below this are icons for 'iOS', 'Android', 'Code', and 'Cloud', followed by the text 'Aggiungi un'app per iniziare'. At the bottom, a white banner with a close button 'x' contains the text 'Archivia e sincronizza i dati delle app in millisecondi' and two illustrative images: one showing purple ID badges and another showing server racks with a magnifying glass over code.

FIREBASE CONSOLE

Configurazione client mobile

Integrazione notifiche push nell'applicazione mobile

CONFIGURAZIONE CLIENT MOBILE

The image shows a screenshot of the GitHub repository page for 'DelphiWorlds / Kastrifree'. The repository has 44 Unwatched items, 129 Stars, and 78 Forks. The main content area displays the file browser for the 'master' branch, showing a list of folders and their commit history. A red arrow points to the 'EMBTFCMv2' folder.

Folder Name	Description	Last Commit
DelphiWorlds	Updated demo to demo issue with RecreateMenu	Latest commit f00af08 7 hours ago
..		
AndroidAPI26	NLR	10 months ago
AndroidBackground	Added Android Background demo	12 months ago
AndroidDangerousPermissions	Updated search path	2 years ago
AndroidLocation	Refactored Location demo	8 months ago
AndroidStartAtBoot	Updated AndroidStartAtBoot demo for Delphi 10.3 Rio	12 months ago
Connectivity	IDE generated changes	2 years ago
CrossPlatformLocation	Added updating locations to database	3 months ago
EMBTFCM	Fixed demo to ensure notification events are fired	7 months ago
EMBTFCMv2	Removed files NLR	4 months ago
ElasticLayout	Updated help text to align with changes in ElasticLayout interposer	2 years ago
FCMRevisited	Fixed issue with .dproj	10 months ago
FCMStarter	Removed units that are not included	2 years ago

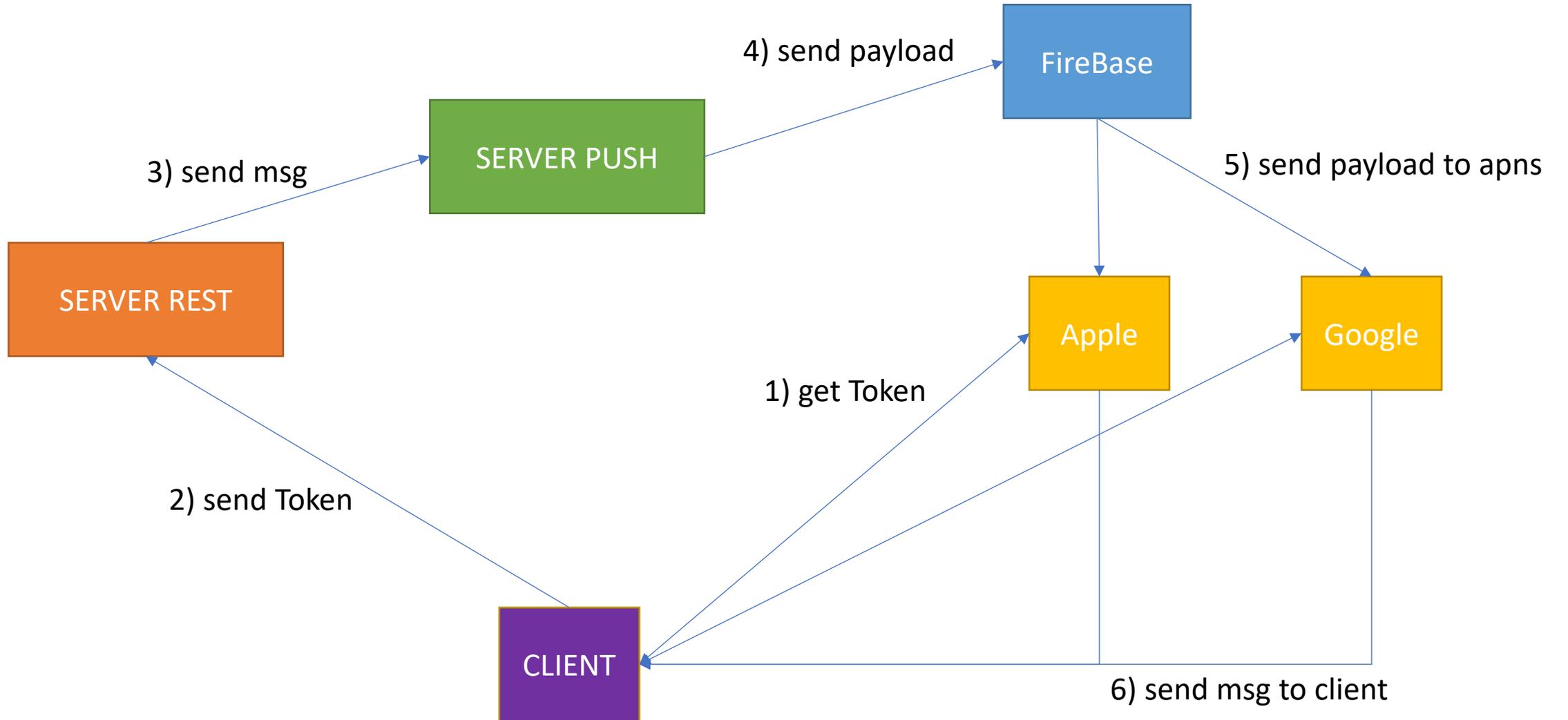
CLIENT DELPHI

Test server / Firebase

FIREBASE CONSOLE

Test server / personale

GIRO DEL FUMO



CONFIGURAZIONE CLIENT MOBILE

Invio PUSH a un singolo DEVICE

```
{
  "to": "Token del device _fAgQjpLGyk223NJBWydMQyiON2UbtzC_S4L7NcPiPoqWQ72UJ6KMfHSc0",
  "notification": {
    "body": "Messaggio del body ",
    "title": "Titolo messaggio",
    "sound": "default"
  },
  "apns": {
    "headers": {
      "apns-priority": "10"
    }
  },
  "data": {
    "tipoPush": "frase",
    "frase": "stay foolish stay hungry.",
    "autore": "Steve Jobs"
  }
}
```

CONFIGURAZIONE CLIENT MOBILE

x aggiungere un DEVICE a un TOPIC ... chiamata rest POST

<https://iid.googleapis.com/iid/v1/TOKEN/rel/topics/ILTUOTOPIC>

x eliminare un DEVICE da un TOPIC ... chiamata rest DELETE

<https://iid.googleapis.com/iid/v1/TOKEN/rel/topics/ILTUOTOPIC>

Invio PUSH a un TOPIC

```
{
  "to":"/topics/IL TUO TOPIC",
  "notification":{
    "body":"Messaggio body",
    "title":"Titolo messaggio",
    "sound":"default"
  },
  "apns":{
    "headers":{
      "apns-priority":"10"
    }
  },
  "data":{
    "tipoPush":"frase",
    "frase":"stay foolish stay hungry.",
    "autore":"Steve Jobs"
  }
}
```

SERVER DELPHI

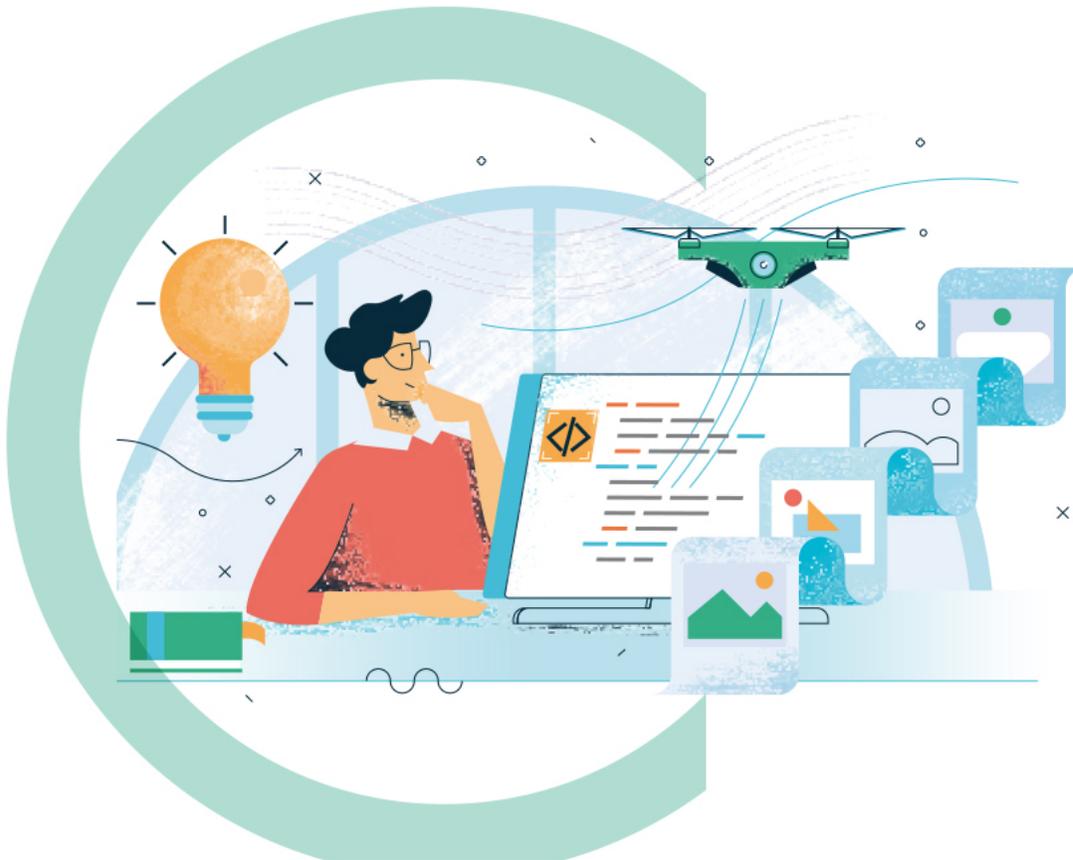
THE END



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