

Setting Up Apple Sign-In with Firebase

64 Steps

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Created by

Chester Lok

Creation Date

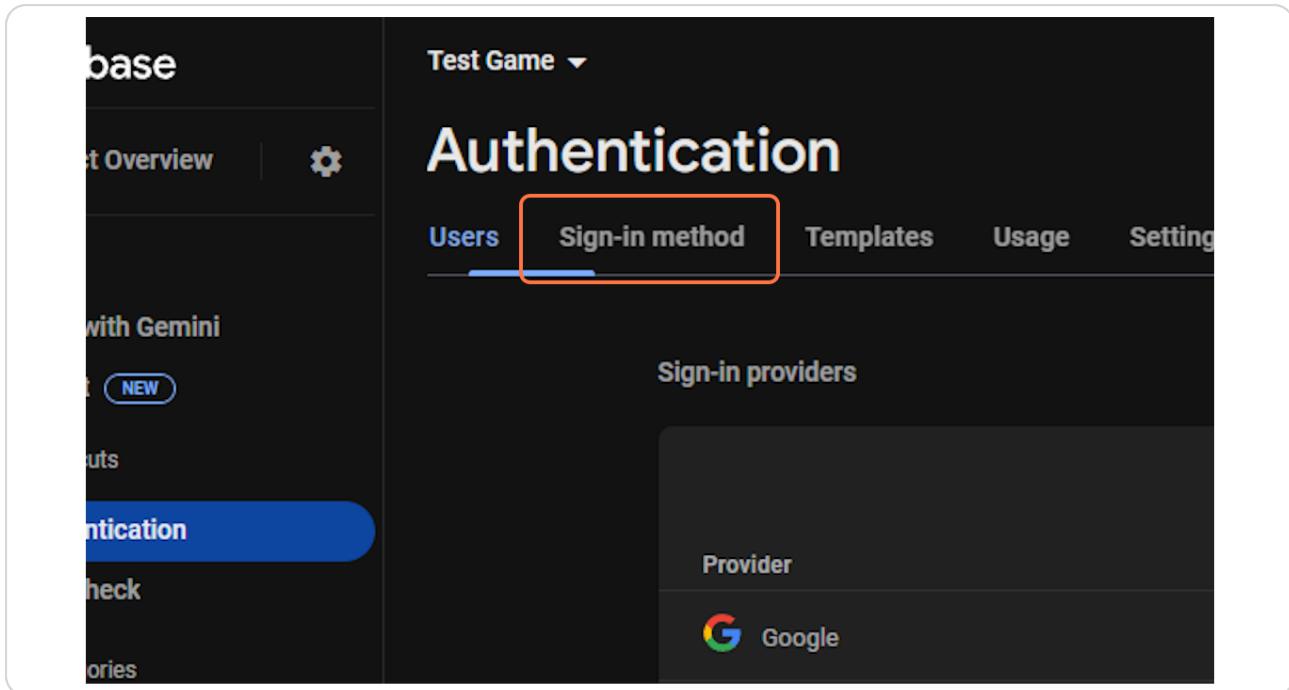
Mar 05, 2025

Last Updated

Mar 05, 2025

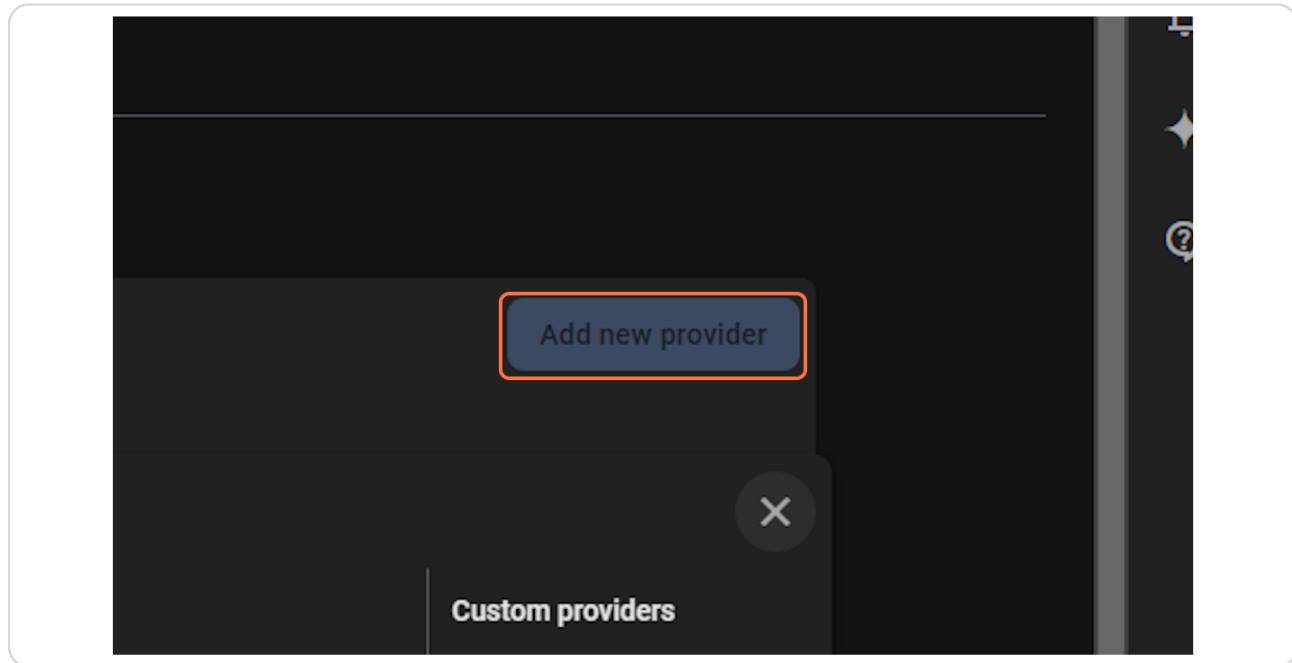
STEP 1

Click on Sign-in method



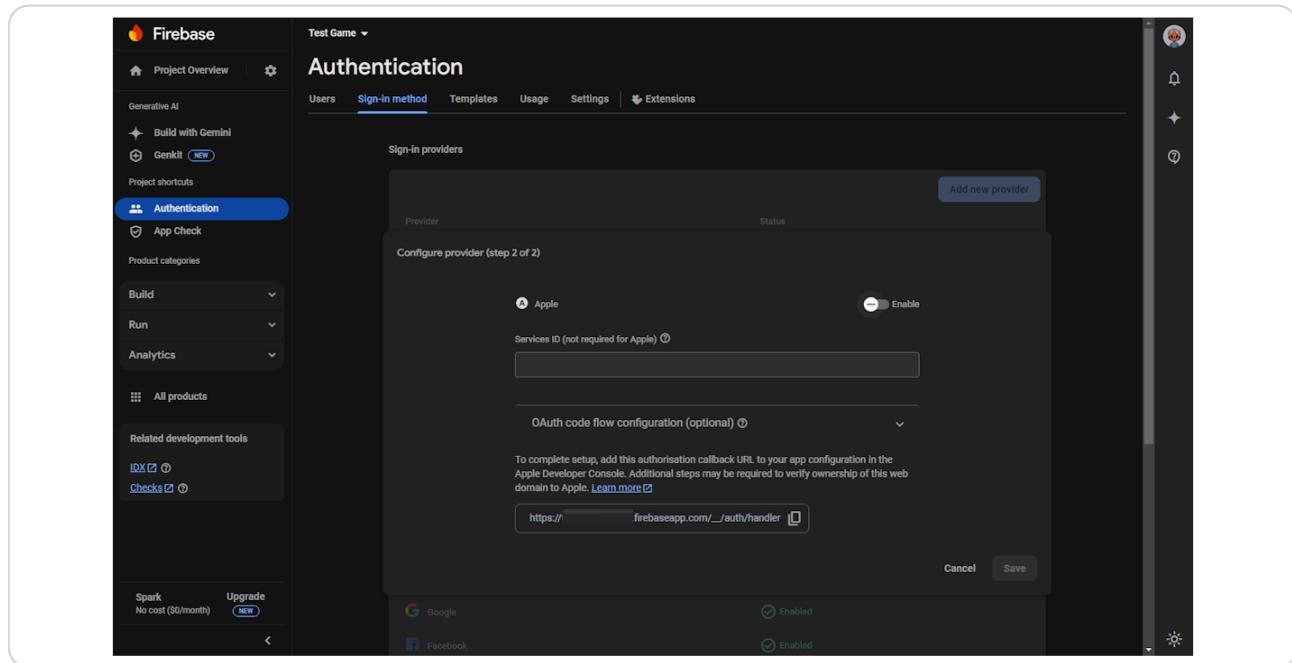
STEP 2

Click on Add new provider



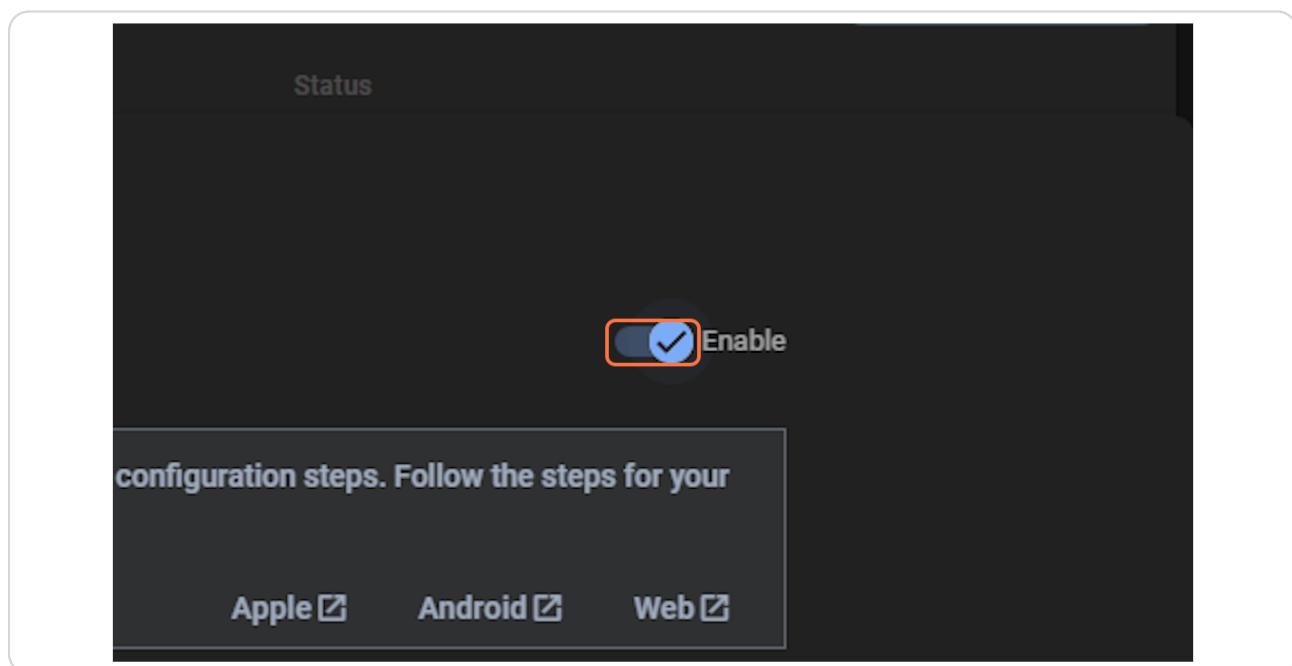
STEP 3

Click on Apple



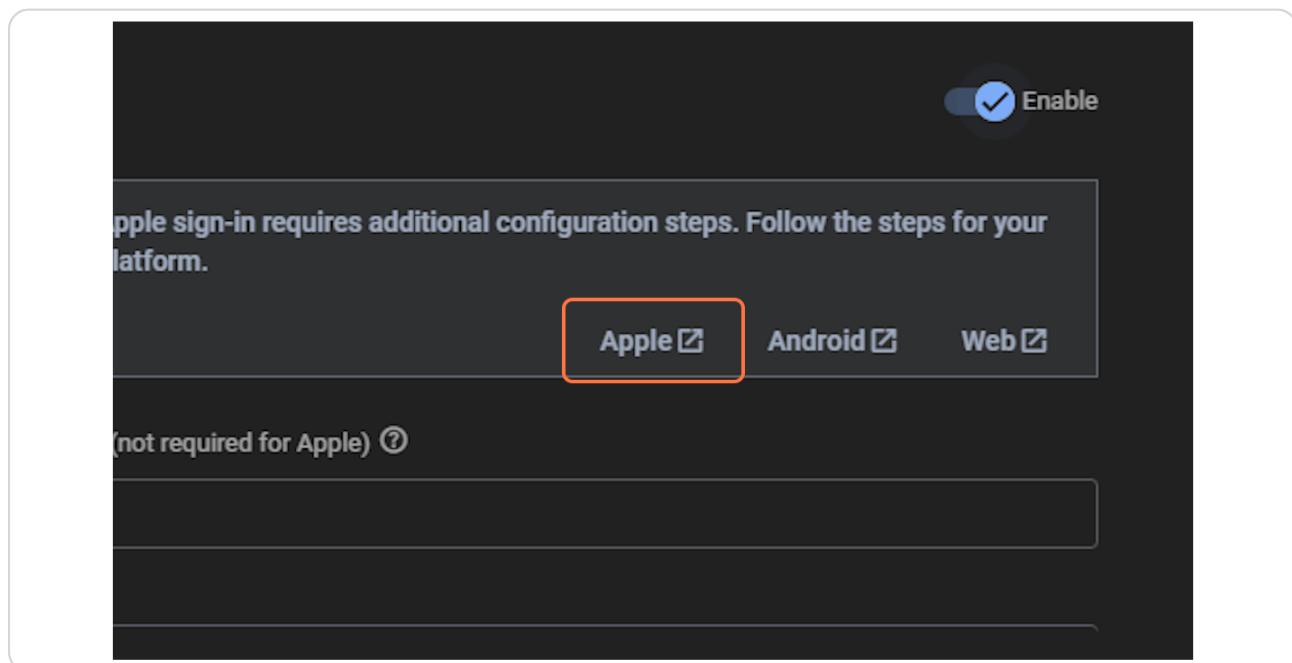
STEP 4

Click on Enable Apple sign-in



STEP 5

Click on Apple



STEP 6

Right click on Certificates, Identifiers & Profiles

The screenshot shows a section of the "Firebase Fundamentals" documentation. The text reads:

Developer Program
can only be configured by
Apple Developer Program.

Sign In with Apple
Sign In with Apple for your app on the [Certificates, Identifiers & Profiles](#) page of Apple's site.
Your website with your app as described in the first section of [Configure Sign In with the web](#). When prompted, register the following URL as a Return URL:

```
/YOUR_FIREBASE_PROJECT_ID.firebaseioapp.com/__/auth/handler
```

[Configure Sign in with Apple for the web - Con-](#)... 11 Steps

STEP 7

Click on Identifiers

The screenshot shows the Apple Developer portal interface. At the top, it says "Certificates, Identifiers & Profiles". Below that, there's a navigation bar with tabs: "Certificates" (selected), "Identifiers" (highlighted with a red box), "Devices", "Profiles", "Keys", and "Services". To the right, there's a table titled "Certificates +". It has two columns: "NAME" and "TYPE". The data in the table is as follows:

NAME	TYPE
Digital Games International Pte Ltd	
merchant.com.hashcodestudiodev.iapttest	
tuhin hossain	

STEP 8

Click on highlight

The screenshot shows the Apple Developer portal interface. At the top, it says "Certificates, Identifiers & Profiles". Below that, there's a navigation bar with tabs: "Certificates", "Identifiers" (selected and highlighted with a red box), "Devices", "Profiles", "Keys", and "Services". To the right, there's a table titled "Identifiers +". It has three columns: "NAME", "TYPE", and "IDENTIFIER". The data in the table is as follows:

NAME	TYPE	IDENTIFIER
Apple Sign In App ID		com.t
AZ Run		com.s

STEP 9

Select Services IDs...

The screenshot shows a user interface for registering a new identifier. At the top, there is a header that reads "REGISTER A NEW IDENTIFIER". Below this, there are three circular radio button options:

- App IDs**
Register an App ID to enable your app, add your app in a provisioning profile. You can change settings later.
- Services IDs**
For each website that uses Sign in with Apple, enter a domain and return URL, and create an associated service.
- Pass Type IDs**
Register a pass type identifier (Pass Type). Using your Pass Type IDs lets you generate App Store updates to your passes, and allow your users to...

STEP 10

Click on Continue

The screenshot shows a step confirmation screen. At the top, there is a header that reads "Digital Games International Pte Ltd - DZL403NFOV". Below this, there is a message: "You have successfully registered a new identifier." At the bottom center, there is a blue rectangular button with the word "Continue" in white text. This button is highlighted with a red rectangular border.

STEP 11

Type "Apple Sign In 2"

The screenshot shows the 'Certificates, Identifiers & Profiles' section of the Apple Developer portal. Under 'Identifiers', there is a form for 'Register a Services ID'. The 'Description' field contains 'Apple Sign In 2', which is highlighted with a red border. Below the field, a note says: 'You cannot use special characters such as @, &, *, ^'. To the right, there is a 'Identifier' field with a placeholder and a note: 'We recommend using a reverse-domain style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).'

STEP 12

Type "com.HashcodeStudio.AppleSignIn2"

The screenshot shows the 'Certificates, Identifiers & Profiles' section of the Apple Developer portal. Under 'Identifiers', there is a form where the 'Identifier' field contains 'com.HashcodeStudio.AppleSignIn2', which is highlighted with a red border. Below the field, a note says: 'We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).'. At the top right, it says 'Digital Games International Pte Ltd - B2L483KF6V'. At the bottom right, there are 'Back' and 'Continue' buttons.

STEP 13

Click on All Identifiers...

The screenshot shows the 'Certificates, Identifiers & Profiles' section of the Apple Developer portal. A specific step, 'Register a Services ID', is highlighted with a red box. In the 'Identifier' field, the value 'com.HashcodeStudio.AppleSignIn2' is entered. Below the field, a note states: 'We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).'. At the top right of the form, there are 'Back' and 'Continue' buttons.

STEP 14

Click on Continue

The screenshot shows a continuation screen with a large 'Continue' button highlighted by a red box. A 'Back' button is also present. On the left side of the screen, there is a note about identifier style: 'We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).'. The top of the screen displays the user's name and company information: 'tuhin hossain - Digital Games International Pte Ltd - DZL403NFOV'.

STEP 15

Click on Apple Sign In 2...

The screenshot shows the 'Identifiers' section of the Xcode configuration tool. On the left, there's a sidebar with links: Certificates, Identifiers (which is selected and highlighted in grey), Devices, Profiles, Keys, and Services. The main area is titled 'Identifiers' with a blue plus sign icon. It lists two entries: 'Apple Sign In' and 'Apple Sign In 2'. The 'Apple Sign In 2' entry is highlighted with a red rectangular border around its name and identifier value. The identifier value for 'Apple Sign In 2' is 'com.HashcodeStudio.AppleSignIn2'.

STEP 16

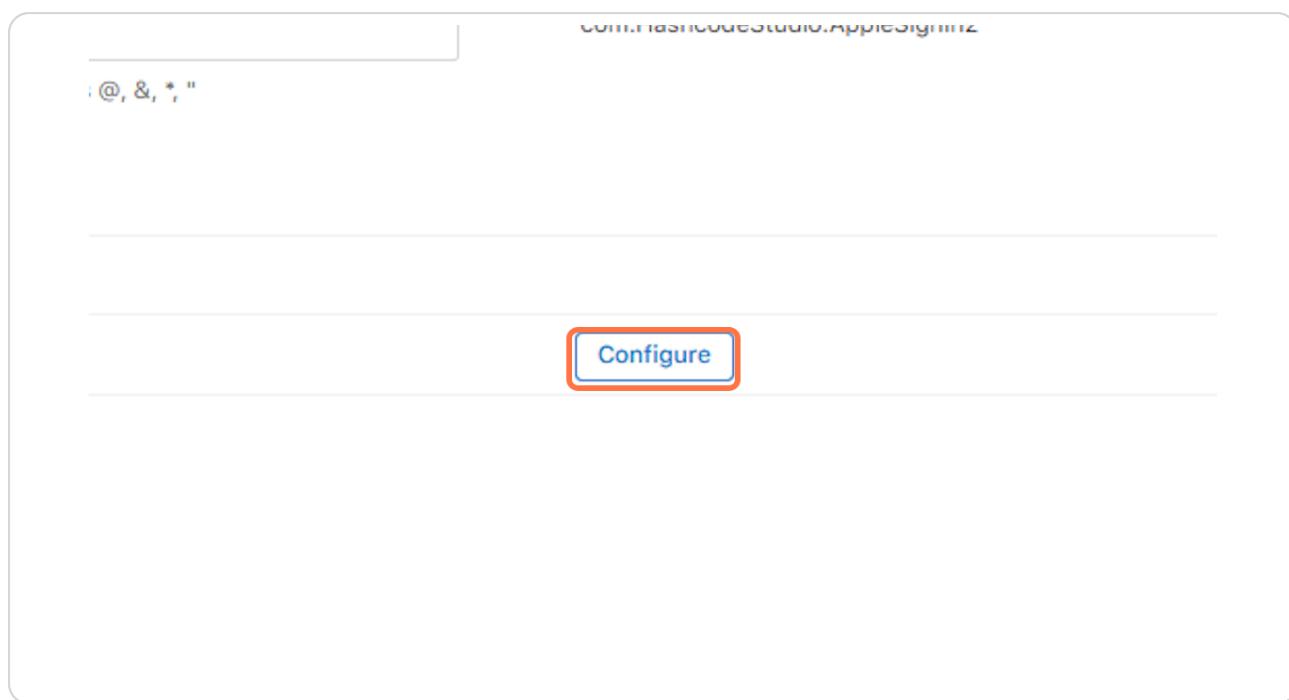
Check Sign In with Apple

The screenshot shows the 'Sign In with Apple' capability in the Xcode Capabilities tab. A warning message at the top says 'You cannot use special characters such as @, , ., etc.' Below this, there's a table with two rows. The first row has columns 'ENABLED' and 'NAME', with an empty checkbox under 'ENABLED' and 'iWork Document Exporting' under 'NAME'. The second row has a checked checkbox under 'ENABLED' (indicated by a blue outline) and 'Sign In with Apple' under 'NAME'.

ENABLED	NAME
<input type="checkbox"/>	iWork Document Exporting
<input checked="" type="checkbox"/>	Sign In with Apple

STEP 17

Click on Configure



Firebase

1 Step 

STEP 18

Drag highlighted option

The screenshot shows a section titled "Configure Sign In with Apple". Step 2 is highlighted with a red box around the URL input field. The URL is `https://YOUR_FIREBASE_PROJECT_ID.firebaseioapp.com/_/auth/handler`. A note below the URL says: "You can get your Firebase project ID on the [Firebase console settings page](#). When you're done, take note of your new Service ID, which you'll need in the next section."

Before you begin

- Join the Apple Developer Program
- Configure Sign In with Apple
- Enable Apple
- Comply with App Store requirements
- Sign in with Apple
- Firebase
- Reauthentication
- Token revocation
- Next steps

 Certificates, Identifiers & Profiles – Apple Devel-... 1 Step 

STEP 19

Click on /* Styles inlined from /styles/docs.css */...

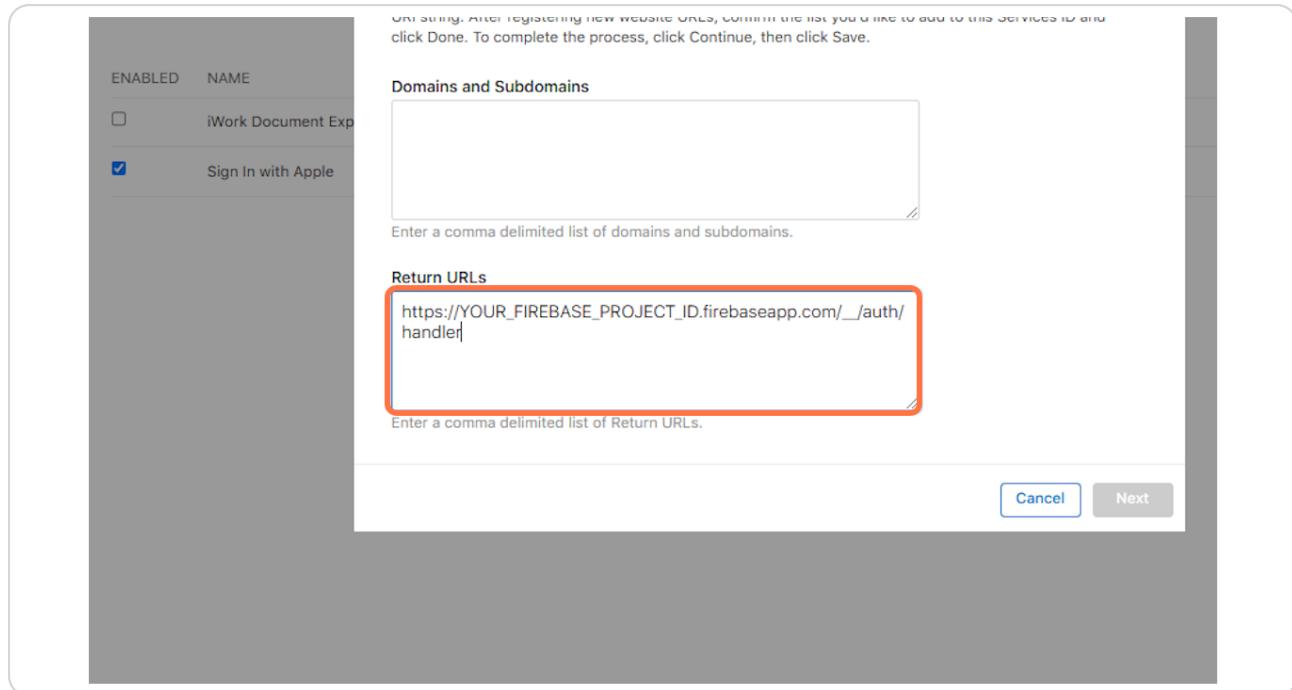
The screenshot shows a 'Register Website URLs' dialog box. On the left, there's a sidebar with a 'Description' section containing 'Apple Sign In 2' and a note 'You cannot use special characters'. Below it is a table with columns 'ENABLED' and 'NAME', showing two entries: 'iWork Document Export' (unchecked) and 'Sign In with Apple' (checked). A red box highlights the 'Domains and Subdomains' and 'Return URLs' input fields. The 'Domains and Subdomains' field contains a single character '|'. The 'Return URLs' field is empty. At the bottom right are 'Cancel' and 'Next' buttons.



STEP 20

Paste

"https://YOUR_FIREBASE_PROJECT_ID.firebaseioapp.com/_/auth/handler"
into text area



STEP 21

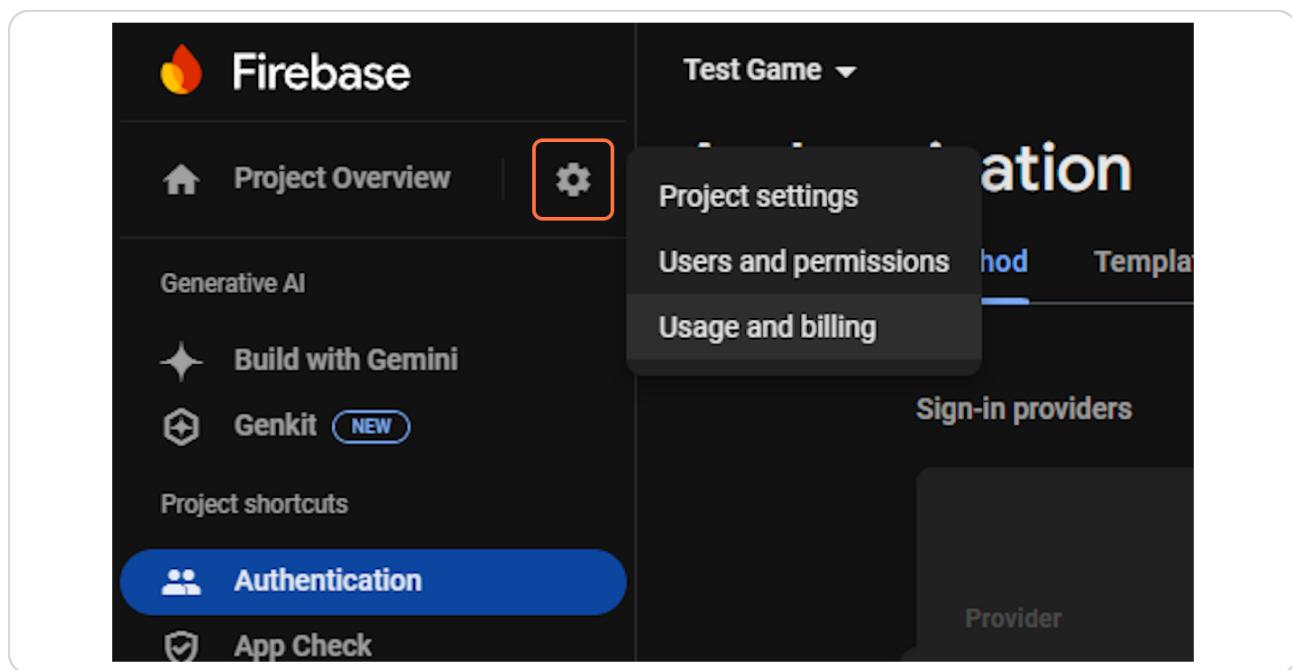
Paste "YOUR_FIREBASE_PROJECT_ID.firebaseioapp.com" into text area

The screenshot shows the 'Edit your Services' page in the Firebase console. On the left, there's a sidebar with a 'Description' section containing 'Apple Sign In 2' and a note about not using special characters. Below that is a table with columns 'ENABLED' and 'NAME'. Two rows are listed: 'iWork Document Export' (disabled) and 'Sign In with Apple' (enabled). The main content area is titled 'Register Website URLs'. It contains instructions for providing web domain and return URLs for Apple sign-in support. A red box highlights the 'Domains and Subdomains' input field, which contains 'YOUR_FIREBASE_PROJECT_ID.firebaseioapp.com'. Below it is a placeholder 'Enter a comma delimited list of domains and subdomains.' Another red box highlights the 'Return URLs' input field, which contains 'https://YOUR_FIREBASE_PROJECT_ID.firebaseioapp.com/_/auth/handler'. Below it is a placeholder 'Enter a comma delimited list of Return URLs.' At the bottom right are 'Done' and 'Save' buttons.

Test Game – Authentication – Sign-in method –... 5 Steps [↗](#)

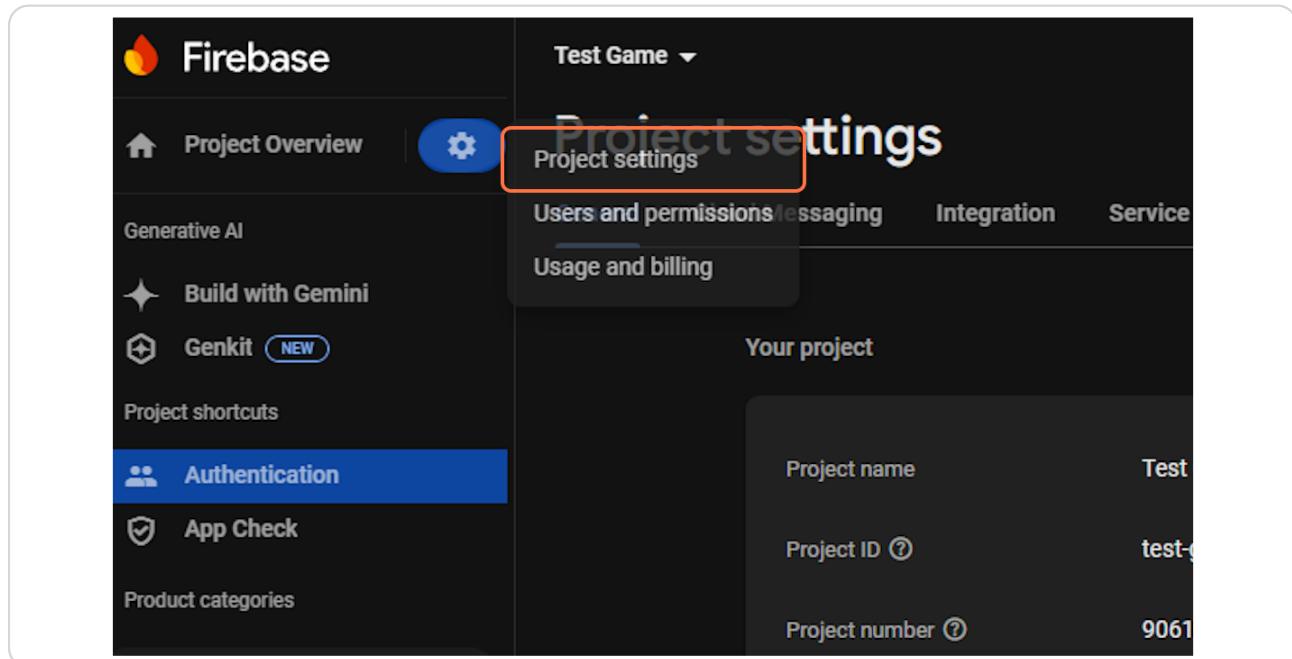
STEP 22

Click on



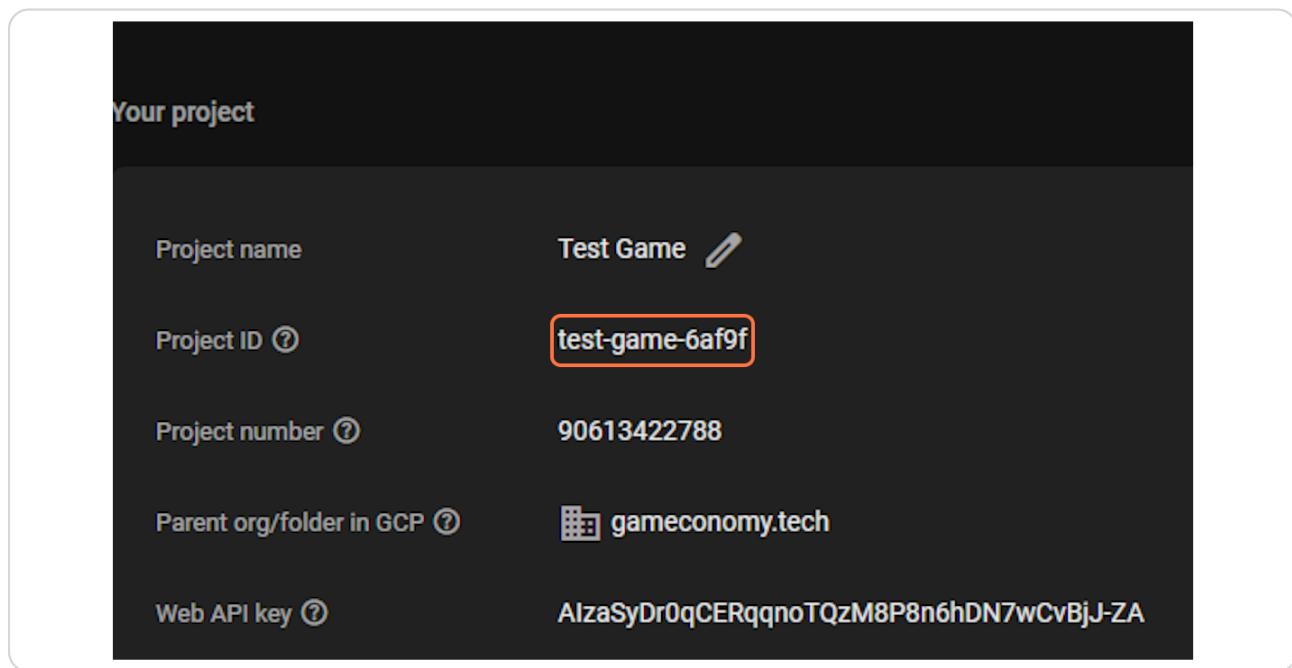
STEP 23

Click on Project settings



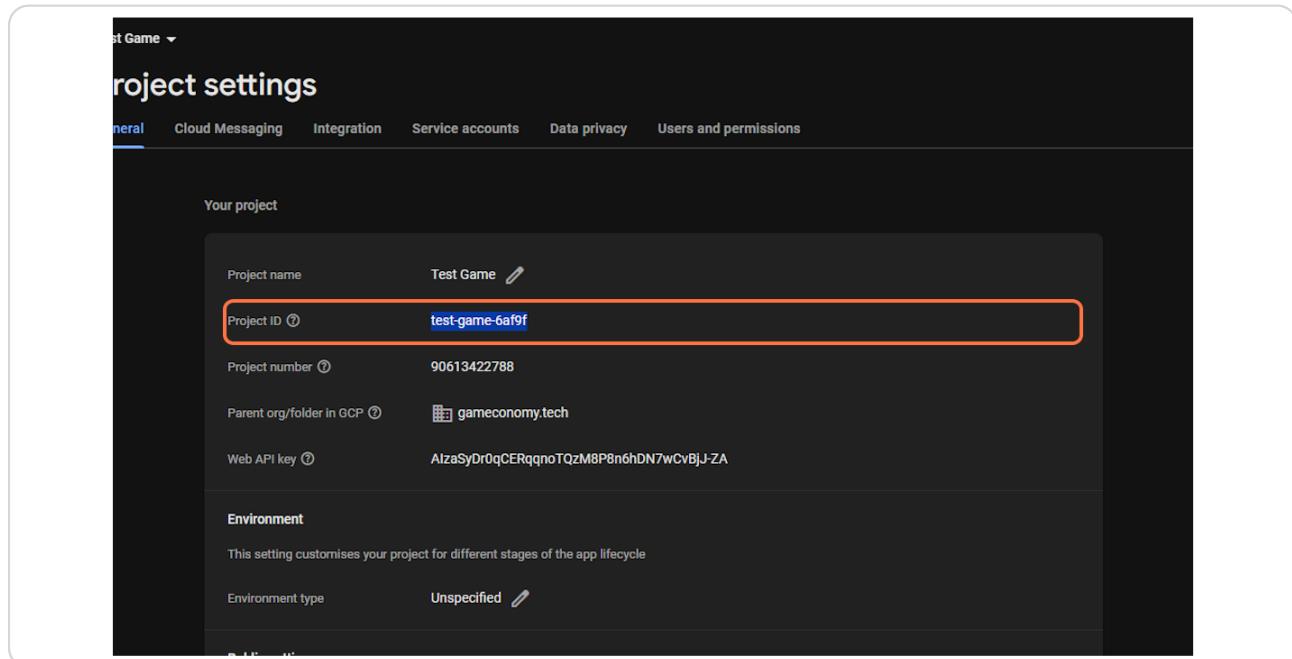
STEP 24

Click on test-game-6af9f



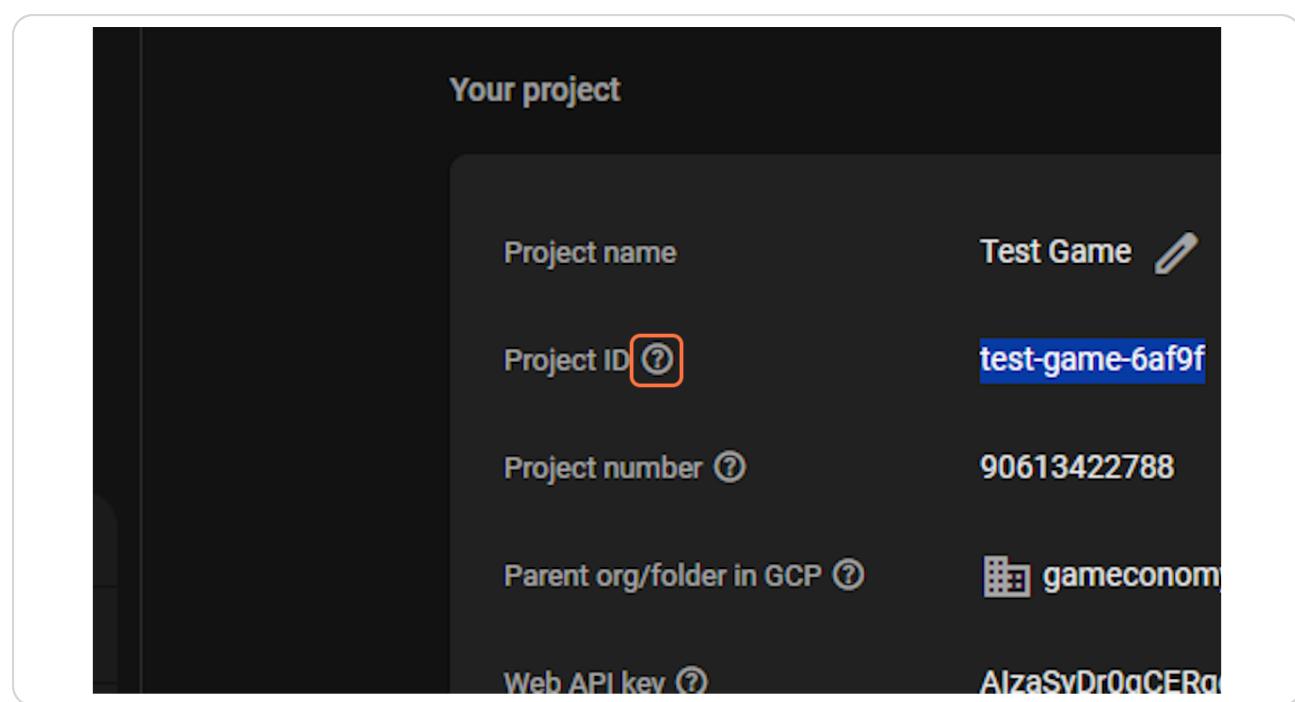
STEP 25

Click on test-game-6af9f



STEP 26

Copy button titled "help test-game-6af9f"



Certificates, Identifiers & Profiles – Apple De... 4 Steps ↗

STEP 27

Type "test-game-6af9f.firebaseio.com/"

The screenshot shows the "Edit your Services" page in the Firebase console. On the left, there's a sidebar with a "Description" section containing "Apple Sign In 2" and a note "You cannot use special characters". Below it is a table with columns "ENABLED" and "NAME", showing two entries: "iWork Document Export" (unchecked) and "Sign In with Apple" (checked). The main content area is titled "Register Website URLs" with a note about supporting TLS 1.2 and returning URLs with https://. It has sections for "Domains and Subdomains" (containing "test-game-6af9f.firebaseioapp.com") and "Return URLs" (containing "https://YOUR_FIREBASE_PROJECT_ID.firebaseio.com/_/auth/handler"). Both fields have placeholder text "Enter a comma delimited list of domains and subdomains." or "Enter a comma delimited list of Return URLs.". A red box highlights the "Domains and Subdomains" input field.

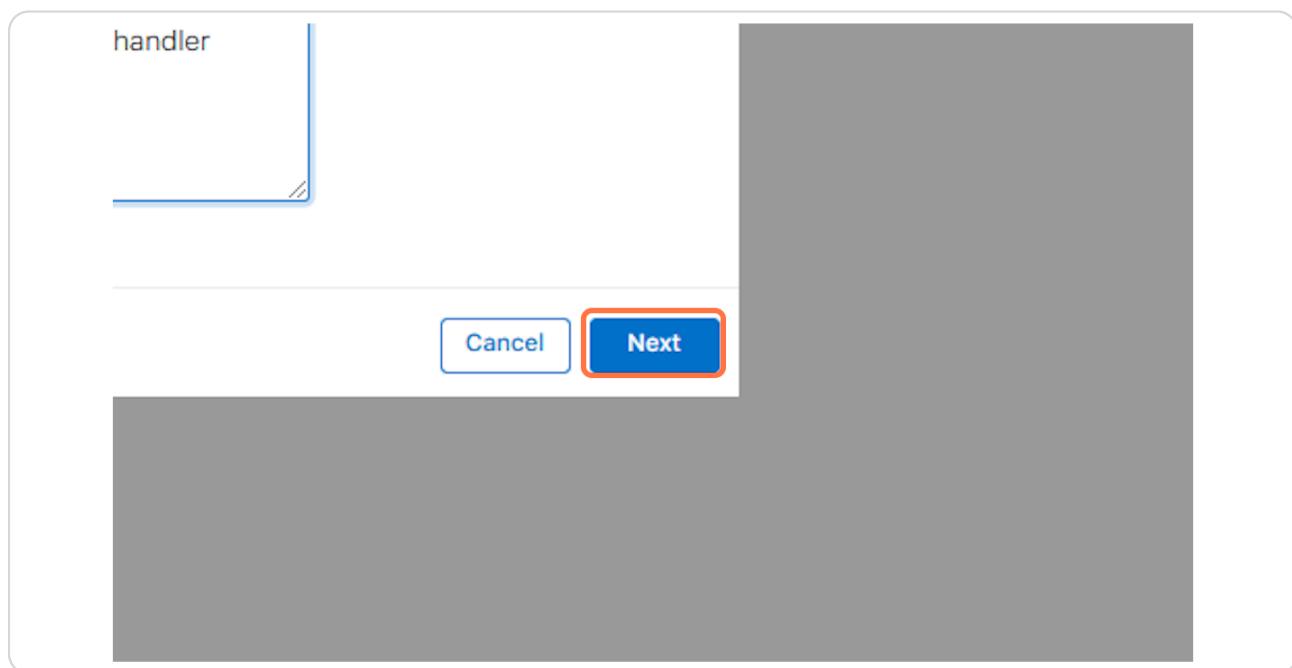
STEP 28

Type "https://test-game-6af9f.firebaseio.com/_/auth/handler"

This screenshot shows the continuation of the "Register Website URLs" process. The left sidebar and top navigation bar are identical to the previous step. The main area now includes a note: "On saving, after registering new website URLs, confirm the list you'd like to add to this Services ID and click Done. To complete the process, click Continue, then click Save." It contains the same "Domains and Subdomains" and "Return URLs" fields, both with their respective placeholder text. A red box highlights the "Return URLs" input field. At the bottom right, there are "Cancel" and "Next" buttons.

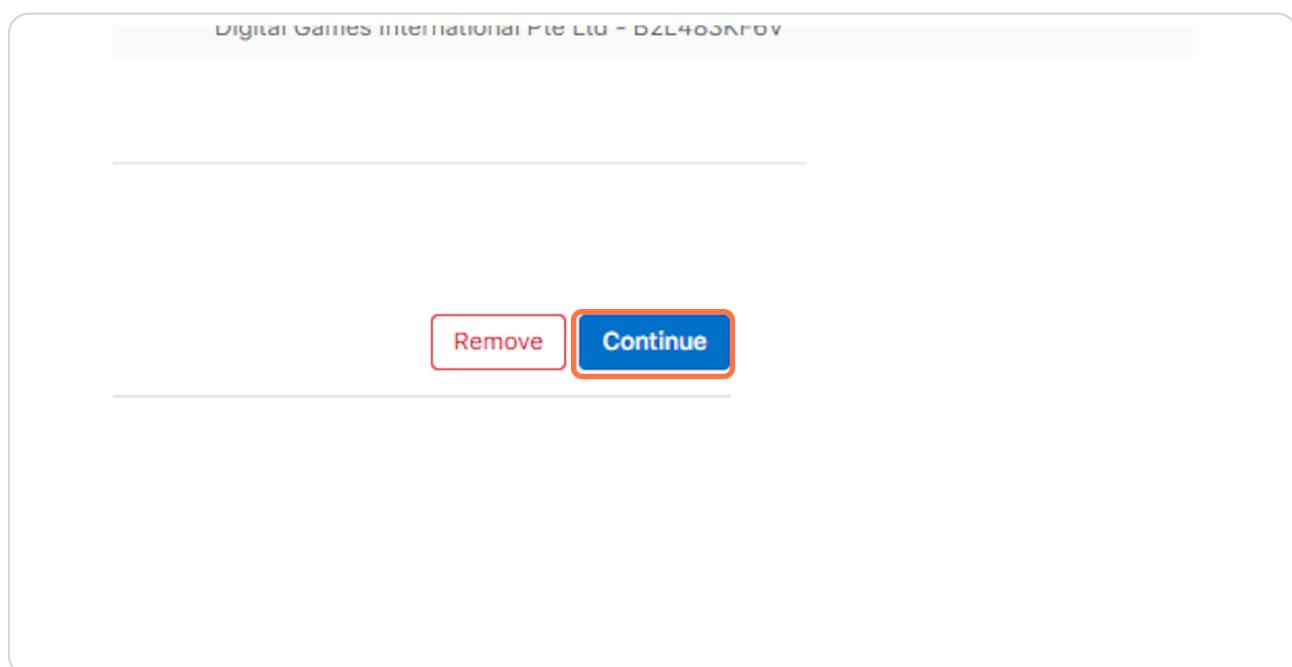
STEP 29

Click on Next

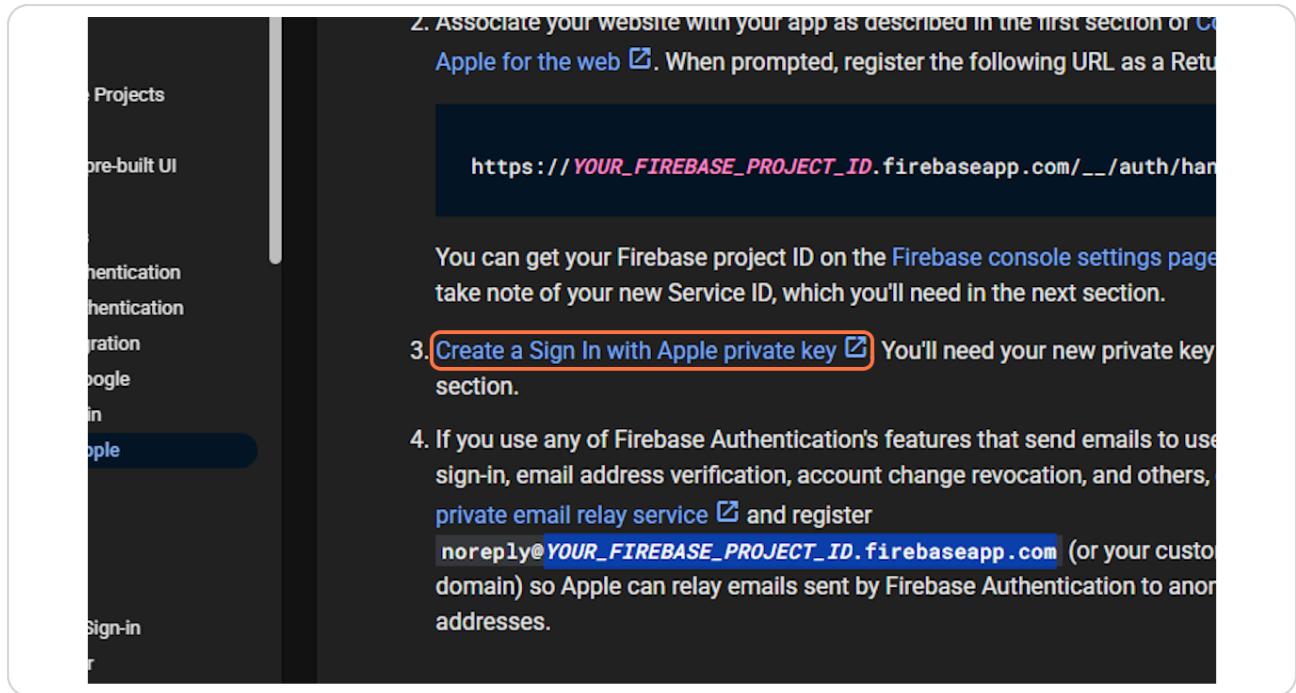


STEP 30

Click on Continue



STEP 31

Right click on Create a Sign In with Apple private key

The screenshot shows the Firebase Authentication console. On the left, there's a sidebar with options like Projects, Pre-built UI, Authentication (selected), Federation, Google, Sign-in (highlighted in blue), and People. The main area displays steps for setting up Apple sign-in:

2. Associate your website with your app as described in the first section or [Create a Sign In with Apple private key](#). When prompted, register the following URL as a Return URL for the web [\[link\]](#). When prompted, register the following URL as a Return URL for the web [\[link\]](#).
3. **Create a Sign In with Apple private key** [\[link\]](#) You'll need your new private key in the next section.
4. If you use any of Firebase Authentication's features that send emails to users during sign-in, email address verification, account change revocation, and others, [Set up a private email relay service](#) [\[link\]](#) and register noreply@YOUR_FIREBASE_PROJECT_ID.firebaseioapp.com (or your custom domain) so Apple can relay emails sent by Firebase Authentication to another address.

You can get your Firebase project ID on the [Firebase console settings page](#). Take note of your new Service ID, which you'll need in the next section.

 **Create a Sign in with Apple private key – Con...** 11 Steps 

STEP 32

Right click on create and download a private key

The screenshot shows a dark-themed web page titled "Create a Sign in with Apple private key". On the left, there's a sidebar with navigation links: "Certificates", "Identifiers", "Devices", "Profiles", "Keys", and "Services". The "Keys" link is highlighted with a blue background. The main content area has a large title "Create a Sign in with Apple private key". Below it, text explains that to communicate with "Sign in with Apple", a private key is required. It guides the user through enabling the service on iOS, tvOS, watchOS, or macOS, creating a primary App ID, and associating related apps. It also mentions creating two keys per primary App ID and getting a JWT token. A note about revoking old keys is included. A red box highlights the "create and download a private key" link.

To communicate with [Sign in with Apple](#), you'll use a private key to sign on behalf of your app.

First, enable the Sign in with Apple service on an iOS, tvOS, watchOS, or macOS app using a primary App ID. Enable the service on related apps and associate using the same App ID, verify your domain, and associate to an app for each website that uses your domain.

Next, [create and download a private key](#) with Sign in with Apple enabled and associated to your app.

You can associate two keys with each primary App ID. Then [get the key identifier](#) and [get the key identifier token \(JWT\)](#) that you'll use to communicate with the capabilities you enabled.

If you suspect a private key is compromised, first [create a new private key](#) and [revoke the old private key](#).

STEP 33

Click on Keys

The screenshot shows the "Certificates, Identifiers & Profiles" section of the Apple Developer portal. The left sidebar has tabs for "Certificates", "Identifiers", "Devices", "Profiles", "Keys" (which is selected and highlighted in grey), and "Services". The main area is titled "Keys" with a blue button containing a white plus sign. Below this is a table showing two entries:

KEY ID	SERVICES	NAME	CREATED AT
[Redacted]	🔒	Apple Sign In	2025/03/04
[Redacted]	⌚	kyokey	2023/04/25

STEP 34

Click on highlight

The screenshot shows the 'Certificates, Identifiers & Profiles' section of the Apple Developer portal. On the left, there are navigation links for Certificates, Identifiers, Devices, Profiles, and Keys. The 'Keys' link is highlighted with a grey background. In the center, there is a heading 'Keys' with a blue circular icon containing a white plus sign. Below this, there is a table with three columns: KEY ID, SERVICES, and NAME. The first row shows a blurred KEY ID, a lock icon in the SERVICES column, and 'Apple Sig...' in the NAME column. The second row shows a blurred KEY ID, a key icon in the SERVICES column, and 'kyokey' in the NAME column.

KEY ID	SERVICES	NAME
[REDACTED]	🔒	Apple Sig...
[REDACTED]	🔑	kyokey

STEP 35

Check Sign in with Apple

The screenshot shows a list of services under 'Sign in with Apple'. There are four items, each with a checkbox and a description. The fourth item, 'Sign in with Apple', has its checkbox checked, indicating it is selected. The other three items are 'Media Services (MusicKit Apple Music Feed)', 'iWork Document Exporting', and 'Account & Organizational'.

<input type="checkbox"/>	Media Services (MusicKit Apple Music Feed)
<input checked="" type="checkbox"/>	Sign in with Apple
<input type="checkbox"/>	iWork Document Exportin...
<input type="checkbox"/>	Account & Organizational

STEP 36

Type "Apple Sign In 2"

The screenshot shows the 'Certificates, Identifiers & Profiles' section of the Apple Developer portal. Under 'Register a New Key', a new key named 'Apple Sign In 2' has been created. The 'Key Name' field contains the name 'Apple Sign In 2'. Below it, a note says 'You cannot use special characters such as @, &, *, ^, %, -, _.' The 'Key Usage Description (optional)' field is empty. A table below lists two usage options: 'Apple Push Notifications service (APNs)' and 'DeviceCheck'. Both options have checkboxes next to them, and the 'DeviceCheck' row includes a link to learn more about user privacy.

ENABLE	NAME	DESCRIPTION
<input type="checkbox"/>	Apple Push Notifications service (APNs)	Establish connectivity between your notification server and the APNs Notification service. One key is used for all of your app.
<input type="checkbox"/>	DeviceCheck	Access the DeviceCheck and AppAttest APIs to get data that your server can use in its business logic to protect your users' privacy. Learn more

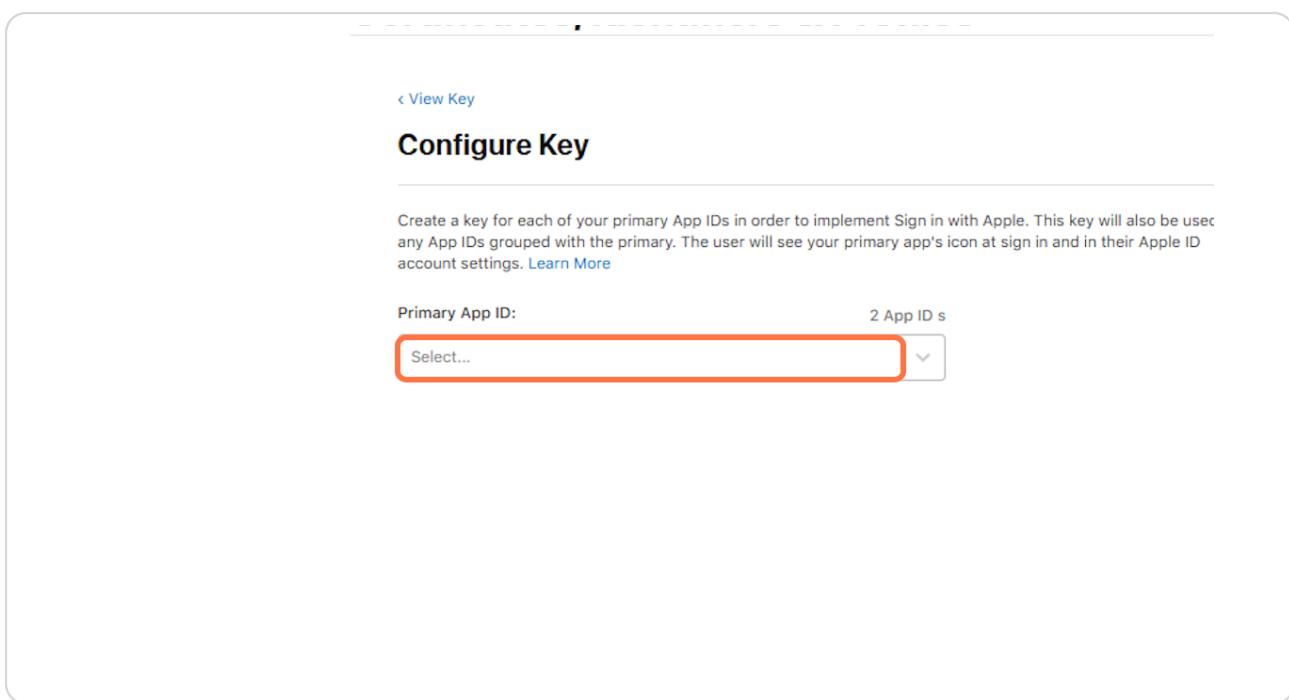
STEP 37

Click on Configure



STEP 38

Click on Select...



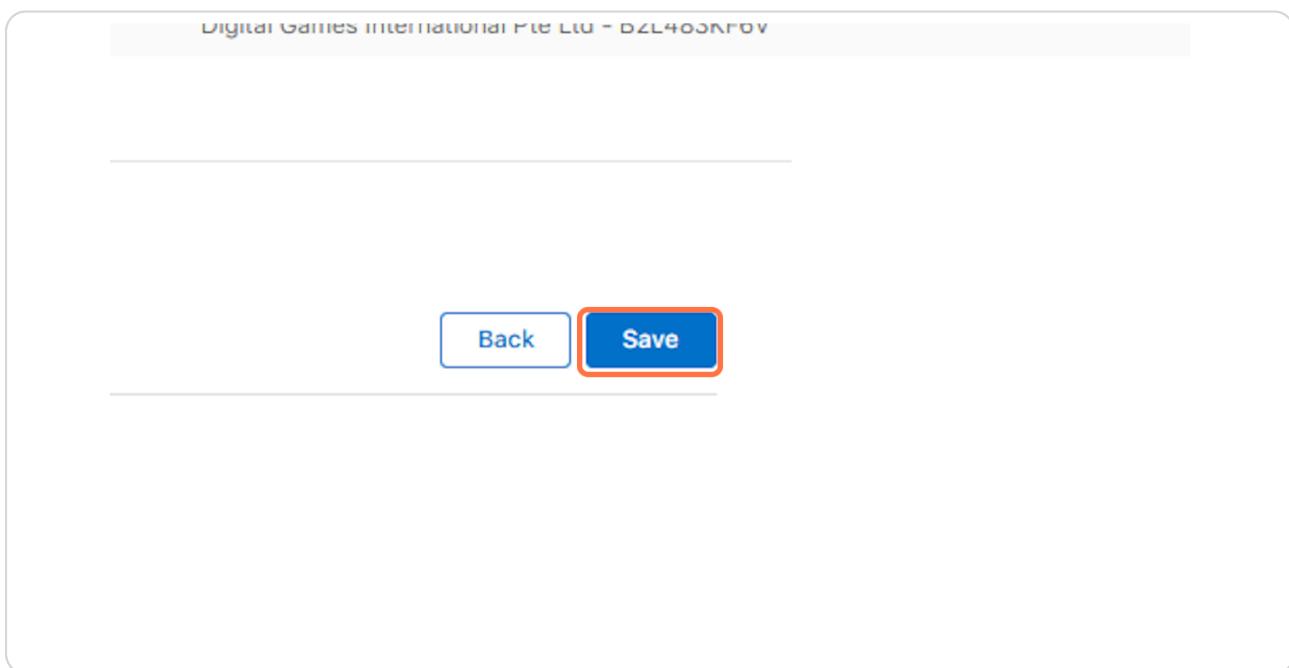
STEP 39

Click on Apple Sign In App ID (B2L483KF6V.com.HashcodeStudio.AppleSignInAppID)

The screenshot shows a user interface titled "Configure Key". A descriptive text at the top explains the purpose of creating a key for primary App IDs. Below this, a "Primary App ID:" dropdown menu is displayed, showing two entries: "XC com HashcodeStudio JWPrototype (B2L483KF6V.com.HashcodeStudio.JWPrototype)" and "Apple Sign In App ID (B2L483KF6V.com.HashcodeStudio.AppleSignInAppID)". The second entry is highlighted with a red rectangular border.

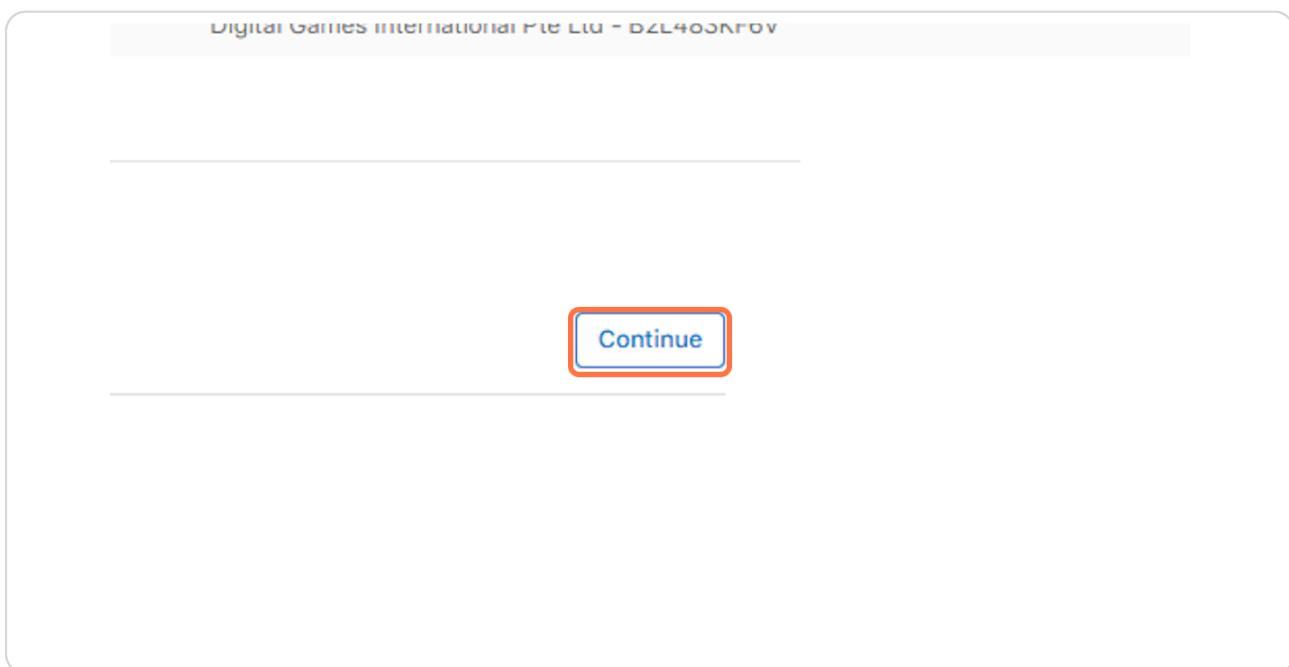
STEP 40

Click on Save



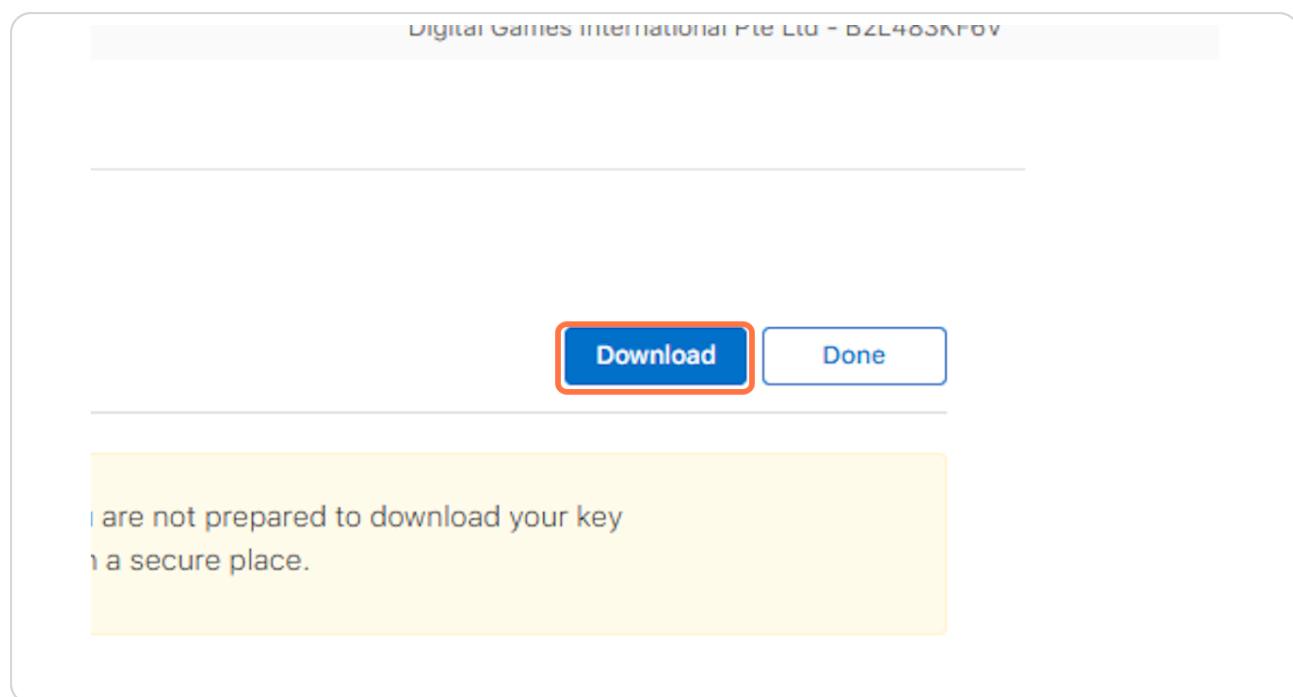
STEP 41

Click on Continue



STEP 42

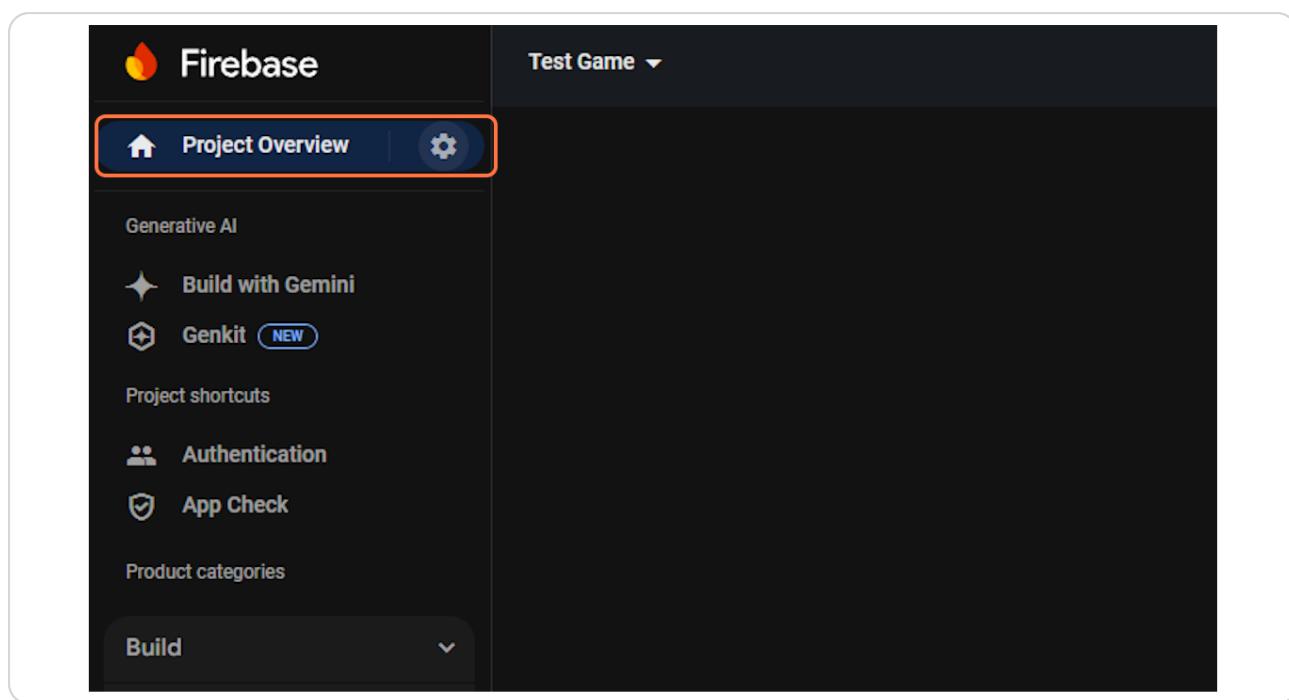
Click on Download



 **Test Game – Project settings – General – Fire-...** 11 Steps 

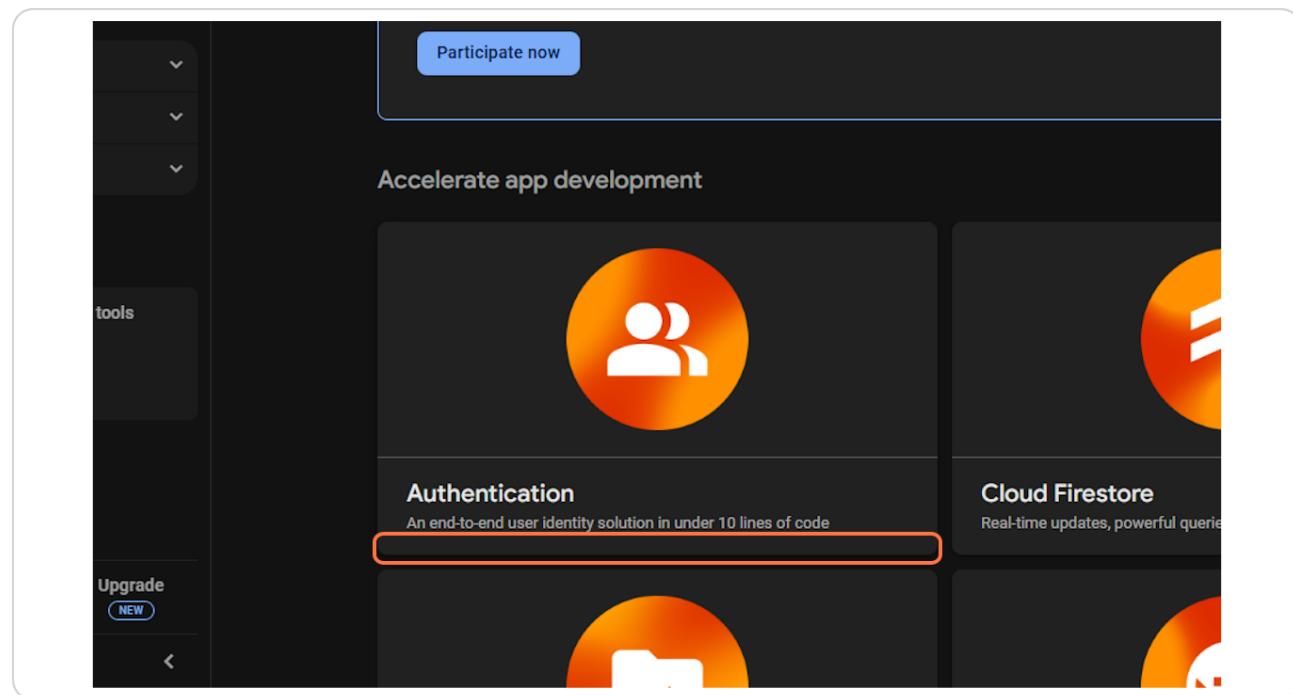
STEP 43

Click on Project Overview



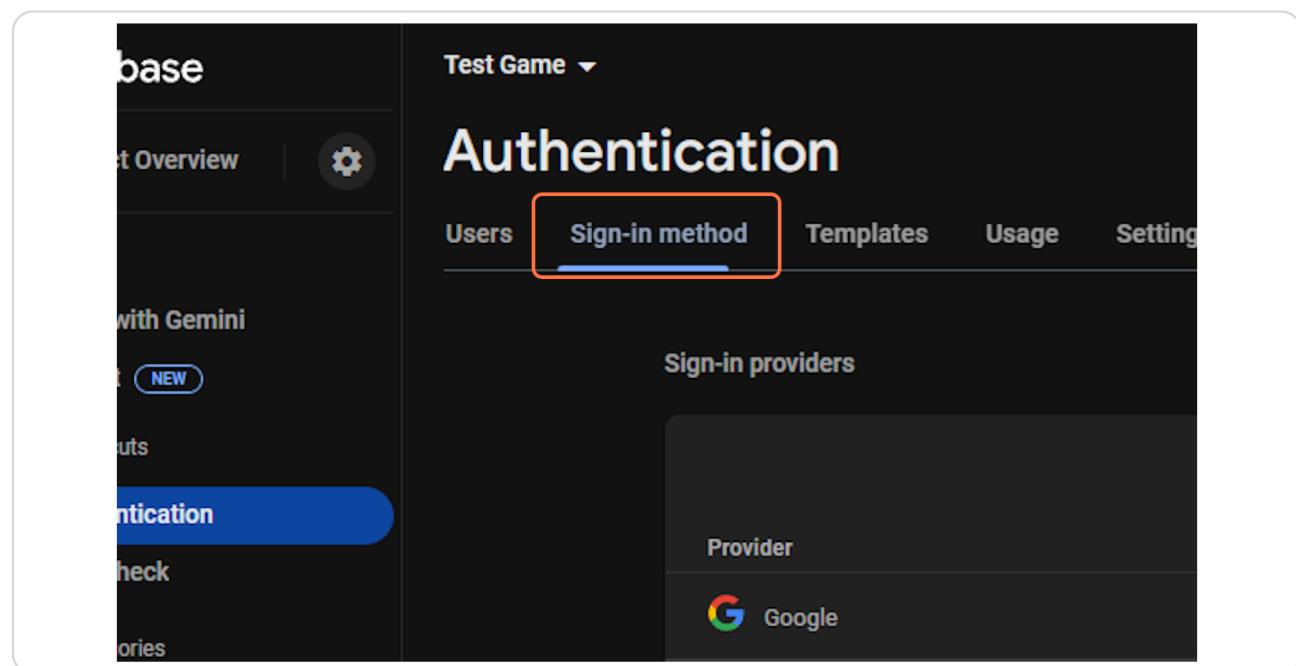
STEP 44

Click on Authentication An end-to-end user identity solution in under 10 lines of code



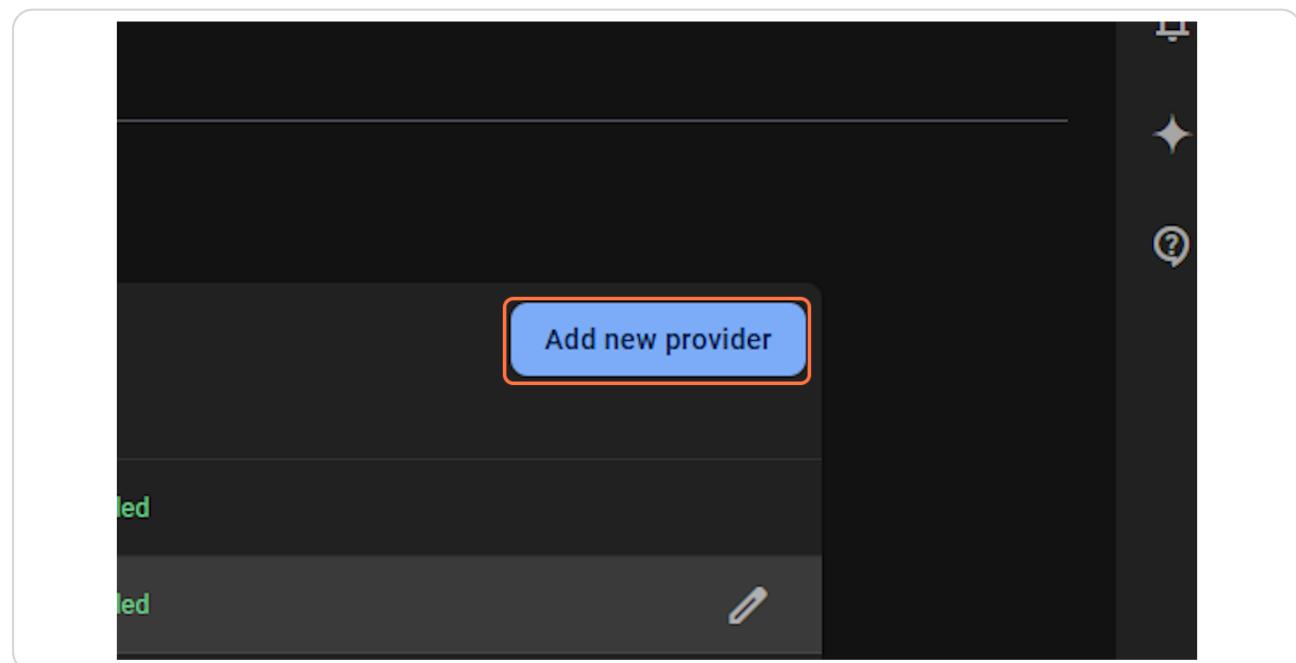
STEP 45

Click on Sign-in method



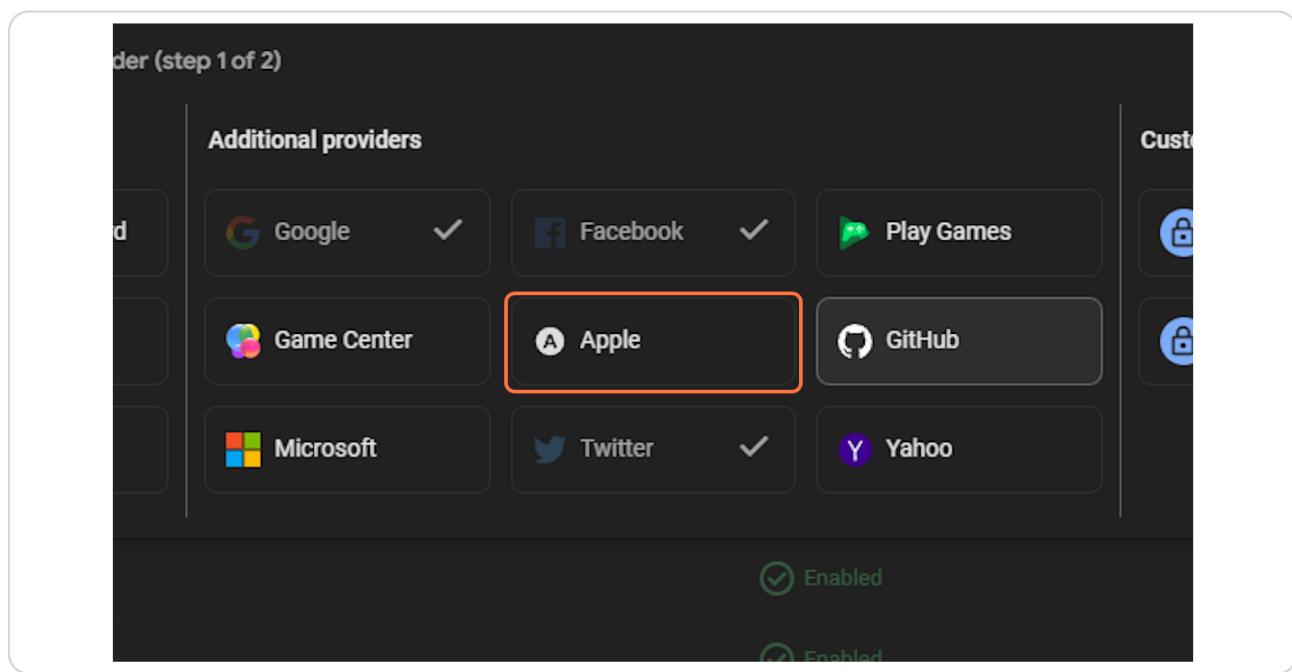
STEP 46

Click on Add new provider



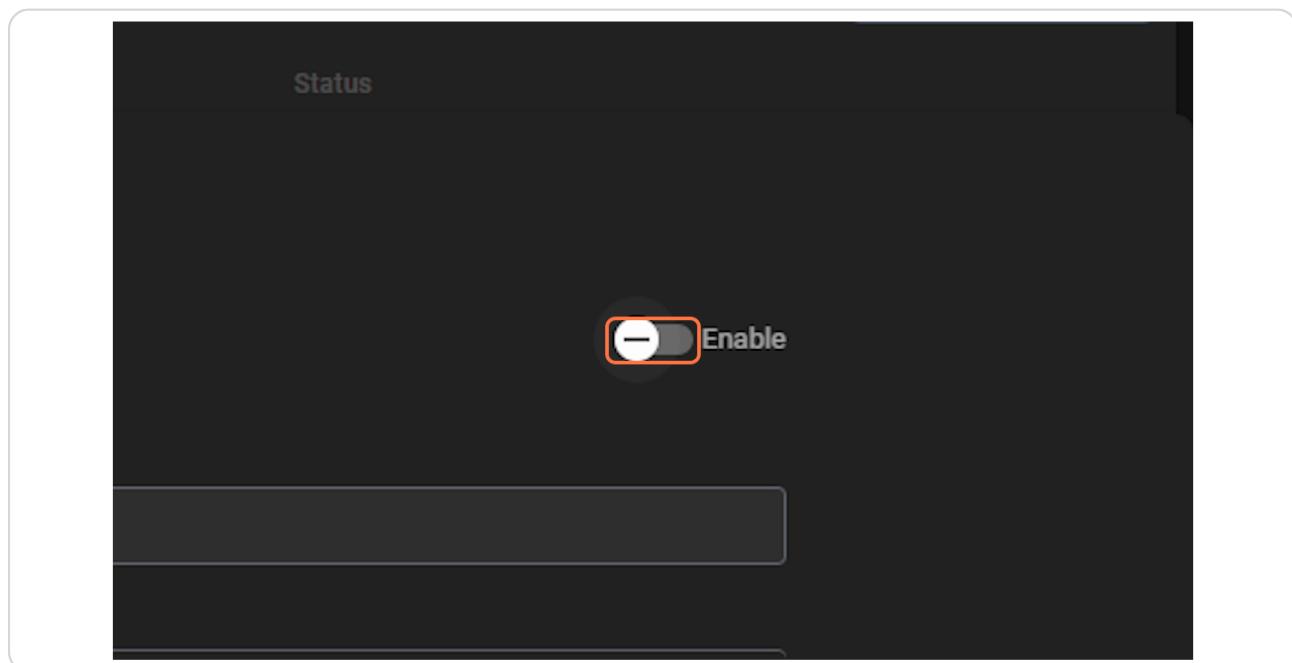
STEP 47

Click on Apple



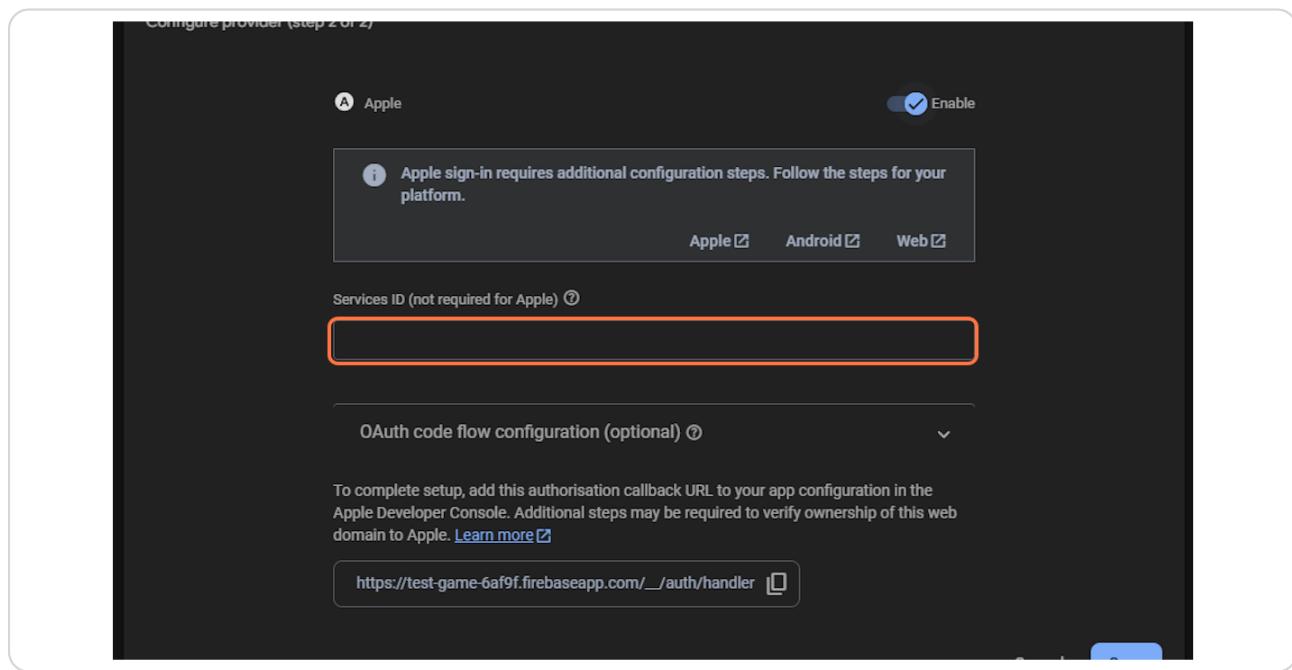
STEP 48

Click on Enable Apple sign-in



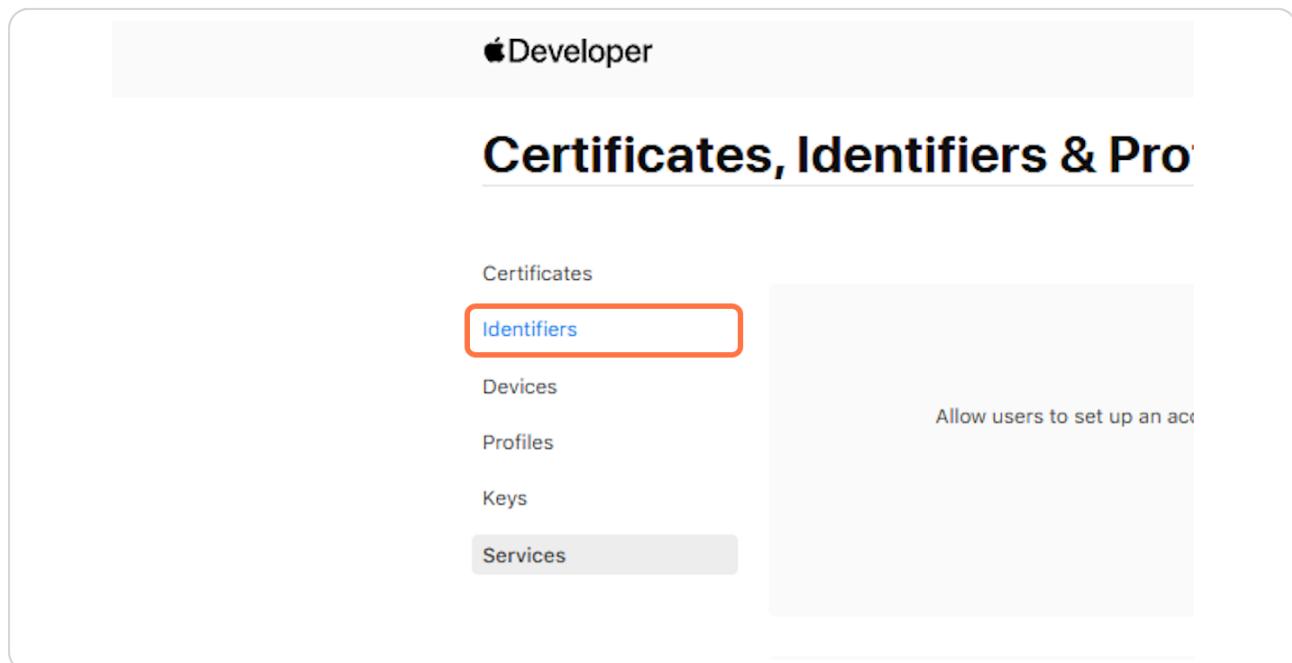
STEP 49

Click on Services ID (not required for Apple)



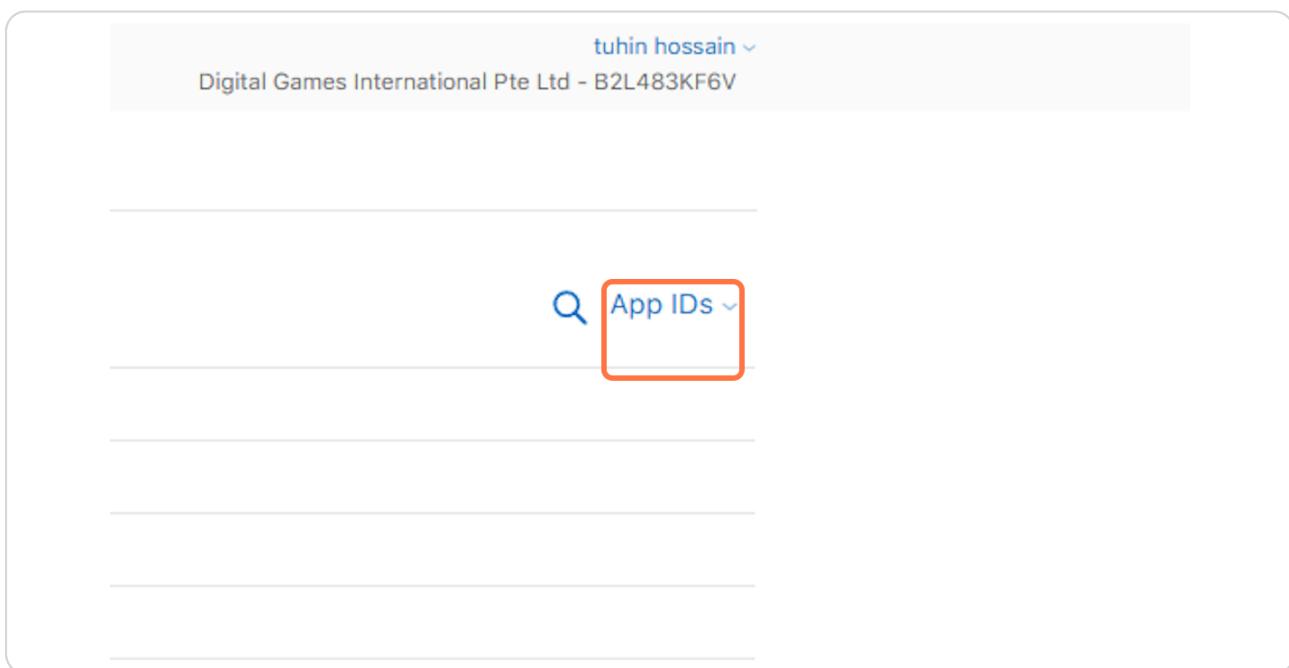
STEP 50

Click on Identifiers



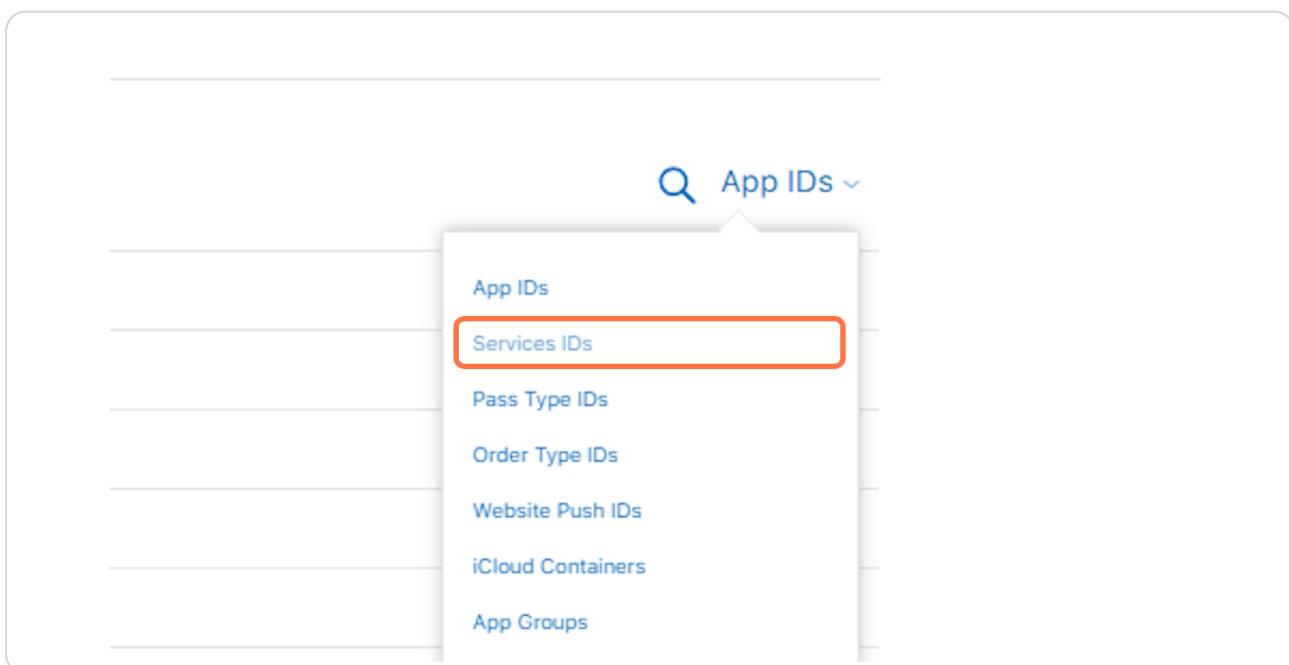
STEP 51

Click on App IDs



STEP 52

Click on Services IDs



STEP 53

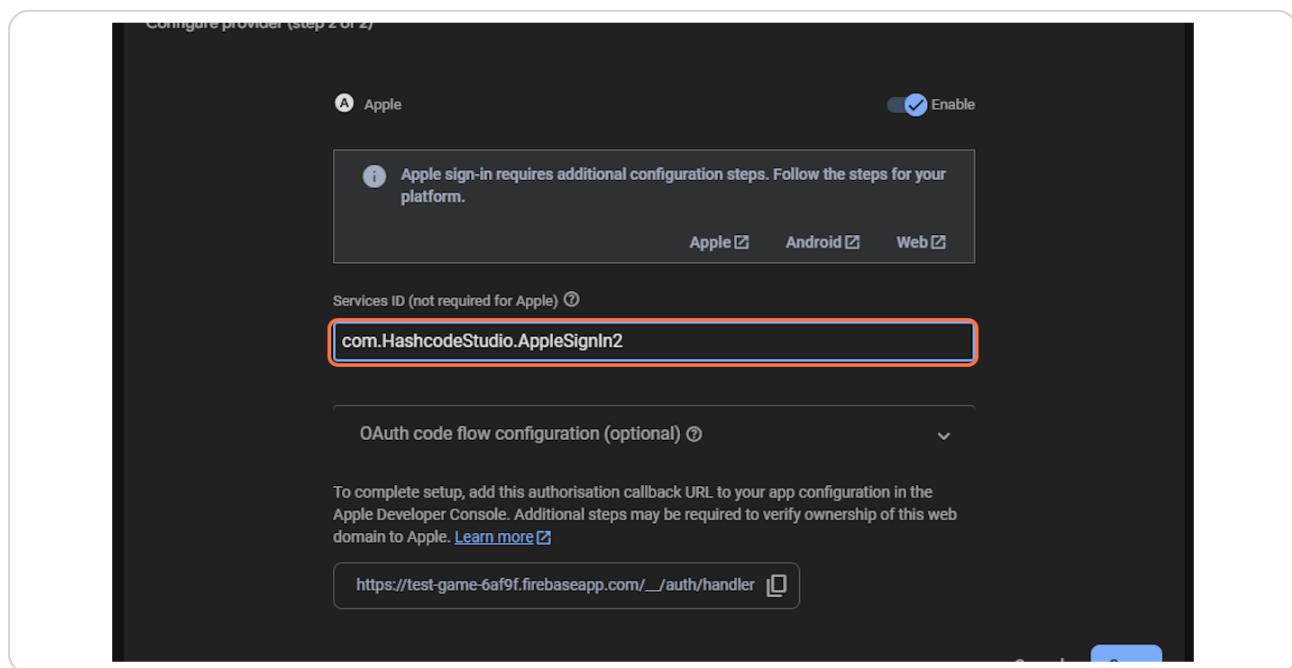
Click on Apple Sign In 2...

The screenshot shows the Unity Asset Store interface. At the top right, it displays the user's name 'tuhin hossain' and their company 'Digital Games International Pte Ltd - B2L483KF6V'. Below this, the search bar contains the text 'Apple Sign In'. The search results are listed under the heading 'Components & Profiles'. The first result is highlighted with a red border and has the identifier 'com.HashcodeStudio.AppleSignIn2'.

Test Game – Authentication – Sign-in method –... 3 Steps [↗](#)

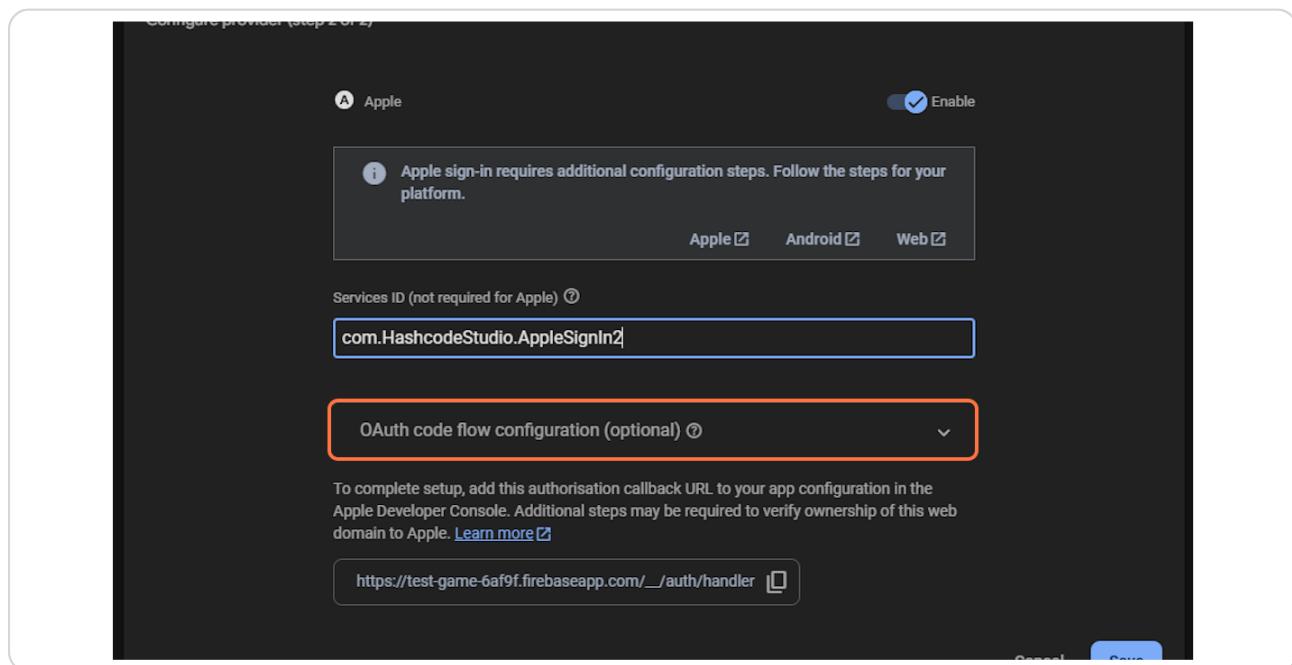
STEP 54

Paste "com.HashcodeStudio.AppleSignIn2" into input



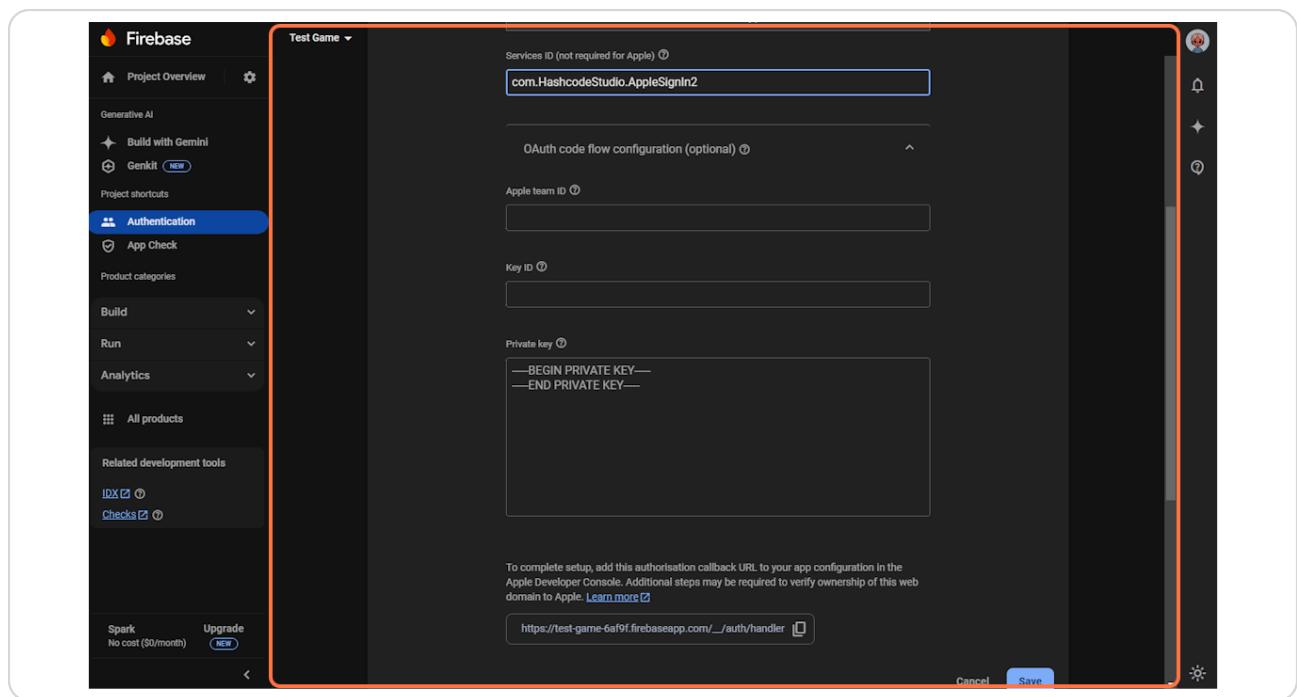
STEP 55

Click on OAuth code flow configuration (optional)



STEP 56

Drag highlighted element



 Certificates, Identifiers & Profiles - Apple De... 4 Steps 

STEP 57

Click on Apple Developer

The screenshot shows the Apple Developer portal interface. At the top, there is a navigation bar with the Apple logo and the text "Developer". Below the navigation bar, the main title "Certificates, Identifiers &" is displayed. Underneath the title, there is a link "[All Identifiers](#)". The main content area is titled "Edit your Services ID Configuration". A "Description" field contains the value "Apple Sign In 2". Below the description field, a note states "You cannot use special characters such as @, &, *, ". At the bottom of the screen, there are two buttons: "ENABLED" and "NAME".

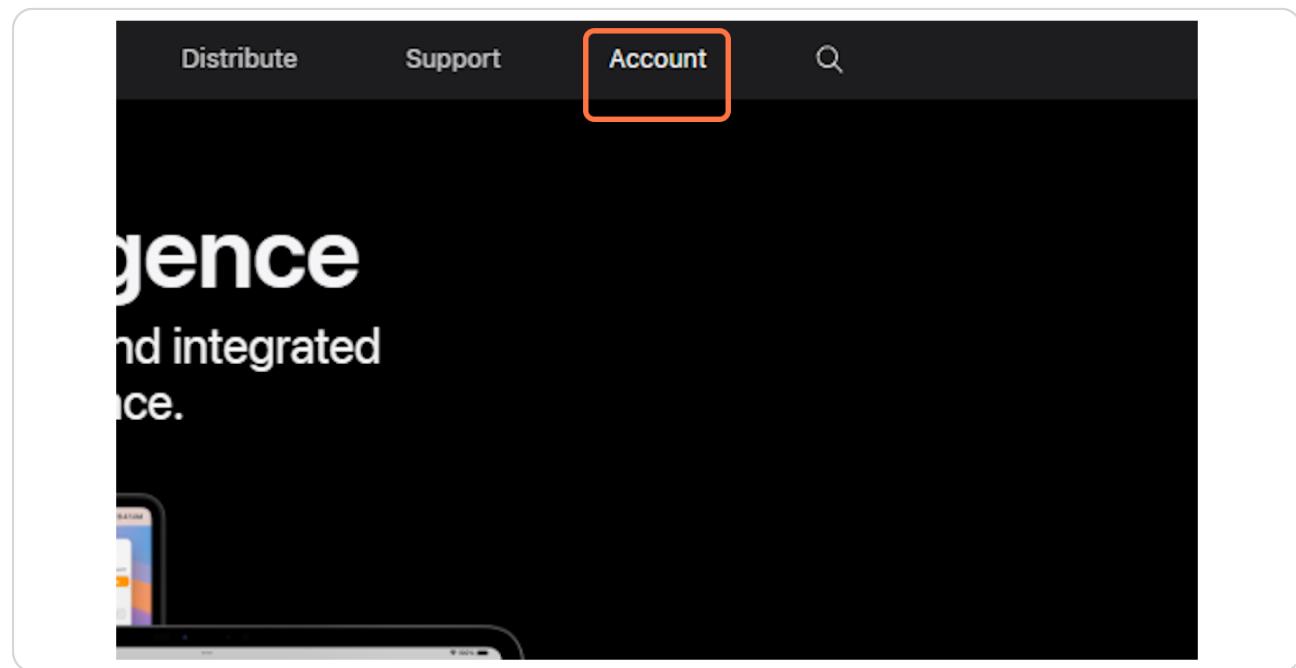
STEP 58

Drag highlighted option

The screenshot shows the Apple Developer portal interface. The top navigation bar displays the account name "tuhin hossain" and the entity name "Digital Games International Pte Ltd". The main content area is titled "Membership details". It lists various account information: Entity name (Digital Games International Pte Ltd), Team ID (B2L483KF6V, highlighted with an orange border), Program (Apple Developer Program), Enrolled as (Organization), Phone (65-86045013), Street address (31 Exeter Road, Comcentre, Singapore, 239732, Singapore), Account Holder (Services Storms), Your role (Admin), Renewal date (August 27, 2025), and Annual fee (S\$148). At the bottom of the screen, there is a "Logout" button.

STEP 59

Click on Account



STEP 60

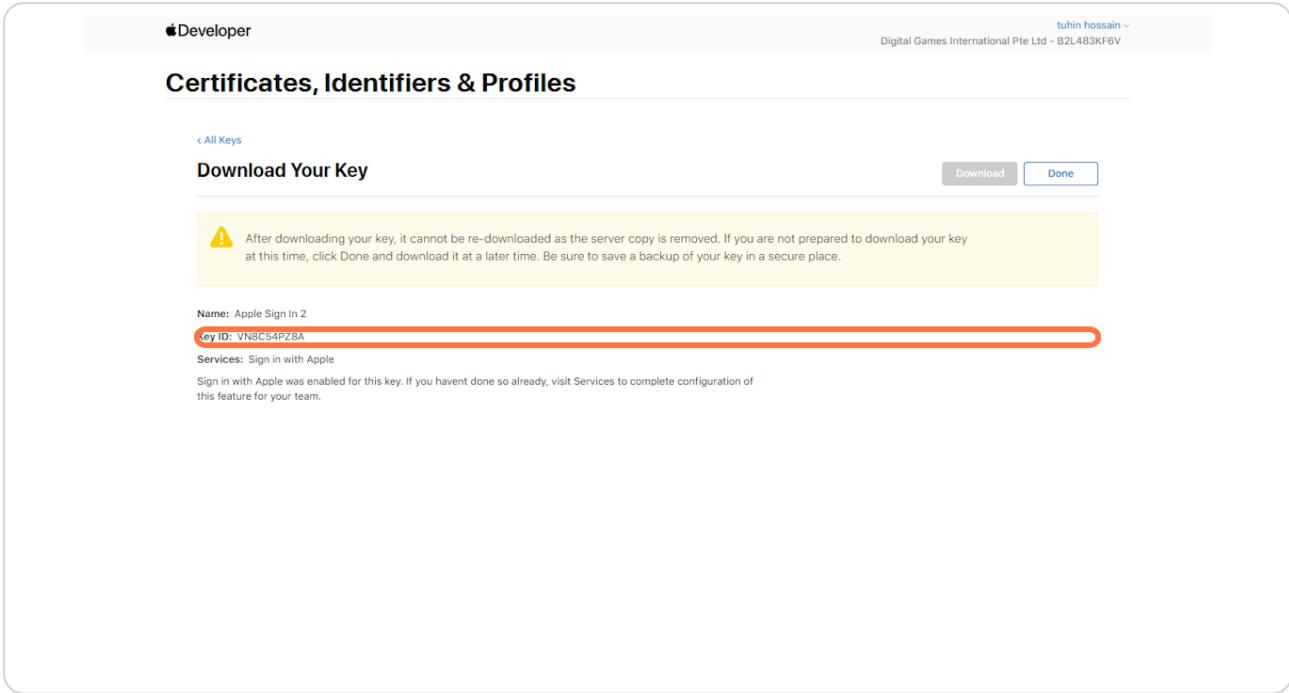
Paste "B2L483KF6V" into input

A screenshot of a configuration form for OAuth code flow. The 'Apple team ID' field is filled with the value 'B2L483KF6V', which is highlighted with a red box. Other fields shown include 'Services ID (not required for Apple)' containing 'com.HashcodeStudio.AppleSignIn2', 'Key ID' (with a note 'A key ID is required'), and 'Private key' containing the text '—BEGIN PRIVATE KEY—' and '—END PRIVATE KEY—'. There is also an 'OAuth code flow configuration (optional)' section with a collapse arrow.

Create a Sign in with Apple private key - Config-... 1 Step

STEP 61

Drag highlighted option

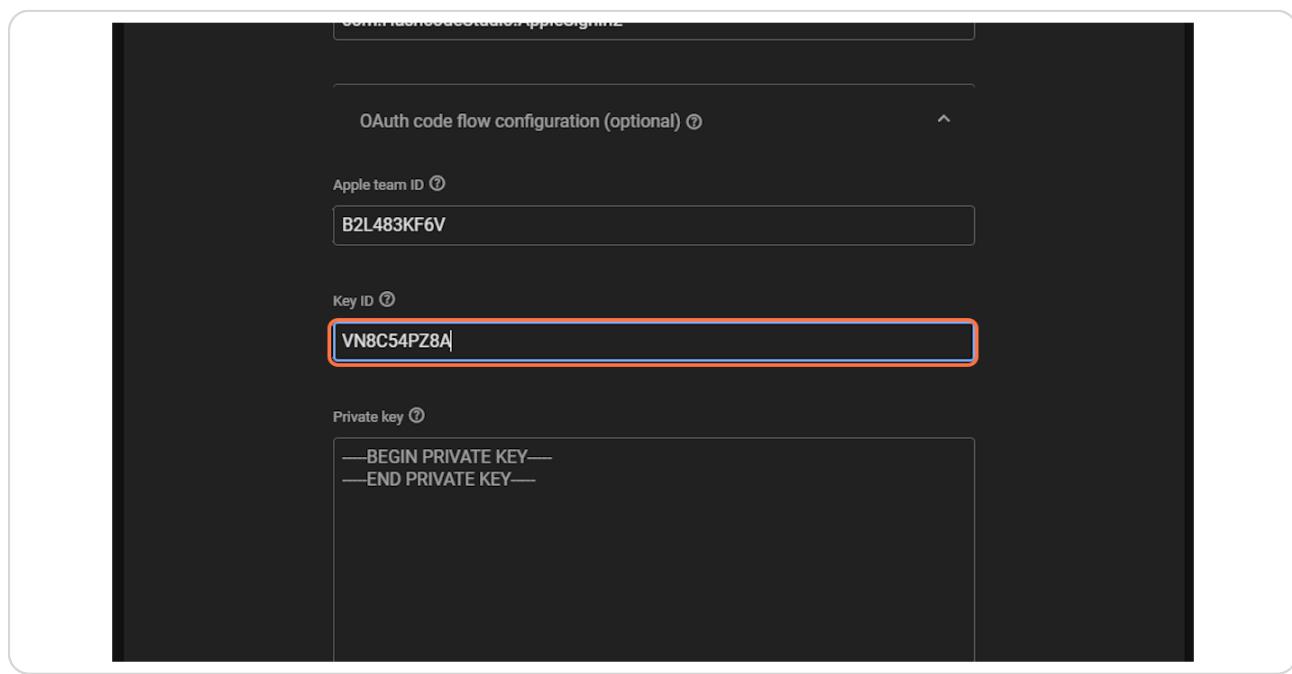


The screenshot shows the Apple Developer portal interface. At the top, it displays the user's name 'tuhin hossain' and team information 'Digital Games International Pte Ltd - B2L483KF6V'. Below this, the main heading is 'Certificates, Identifiers & Profiles'. Under this heading, there is a sub-section titled 'Download Your Key'. A warning message in a yellow box states: 'After downloading your key, it cannot be re-downloaded as the server copy is removed. If you are not prepared to download your key at this time, click Done and download it at a later time. Be sure to save a backup of your key in a secure place.' Below the warning, there are fields for 'Name' (Apple Sign In 2), 'Key ID' (VNHC54PZBA), and 'Services' (Sign in with Apple). A note below the services field says: 'Sign in with Apple was enabled for this key. If you haven't done so already, visit Services to complete configuration of this feature for your team.' At the bottom right of the 'Download Your Key' section are two buttons: 'Download' and 'Done'. A red highlight bar is placed over the 'Key ID: VNHC54PZBA' field.

Test Game – Authentication – Sign-in method –... 3 Steps

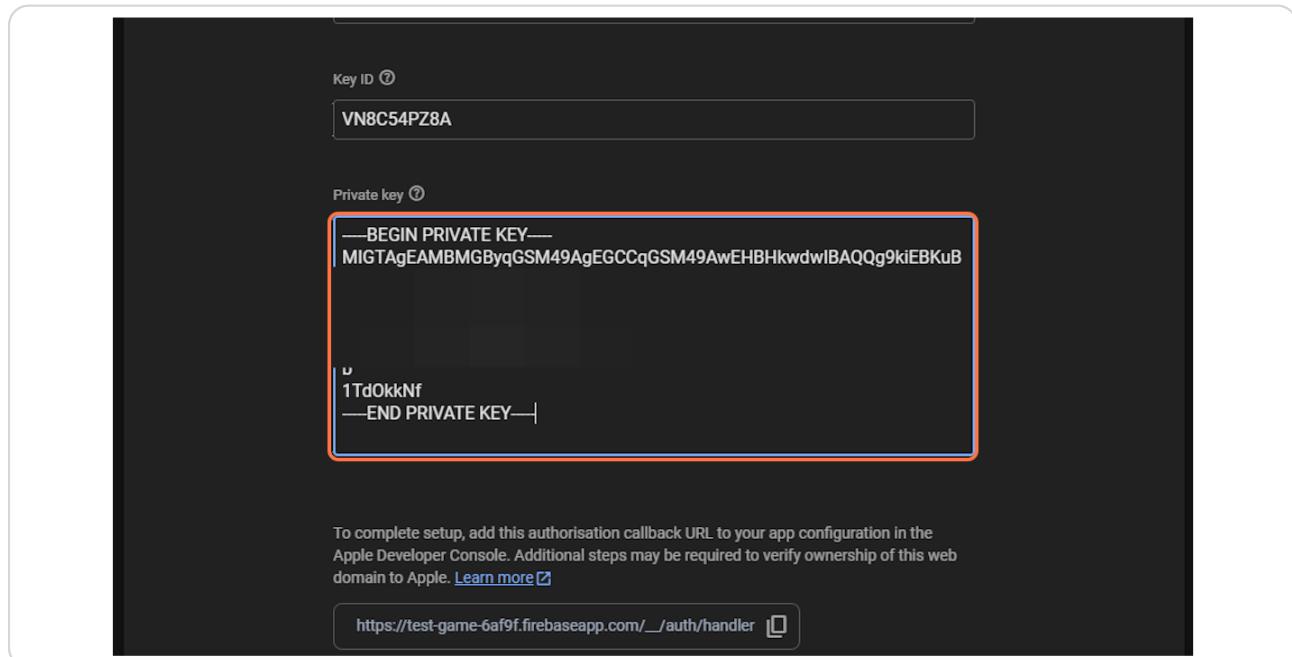
STEP 62

Paste "VN8C54PZ8A" into input



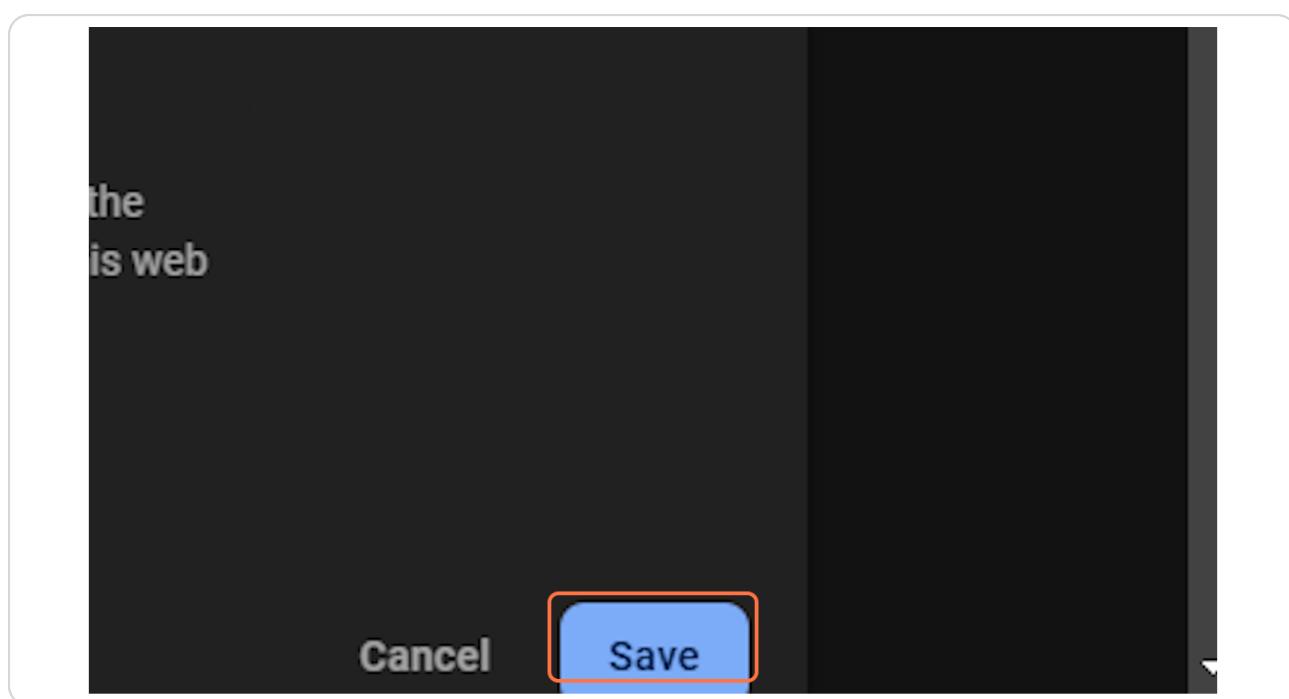
STEP 63

Paste selected text into text area



STEP 64

Click on Save



Tango

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