

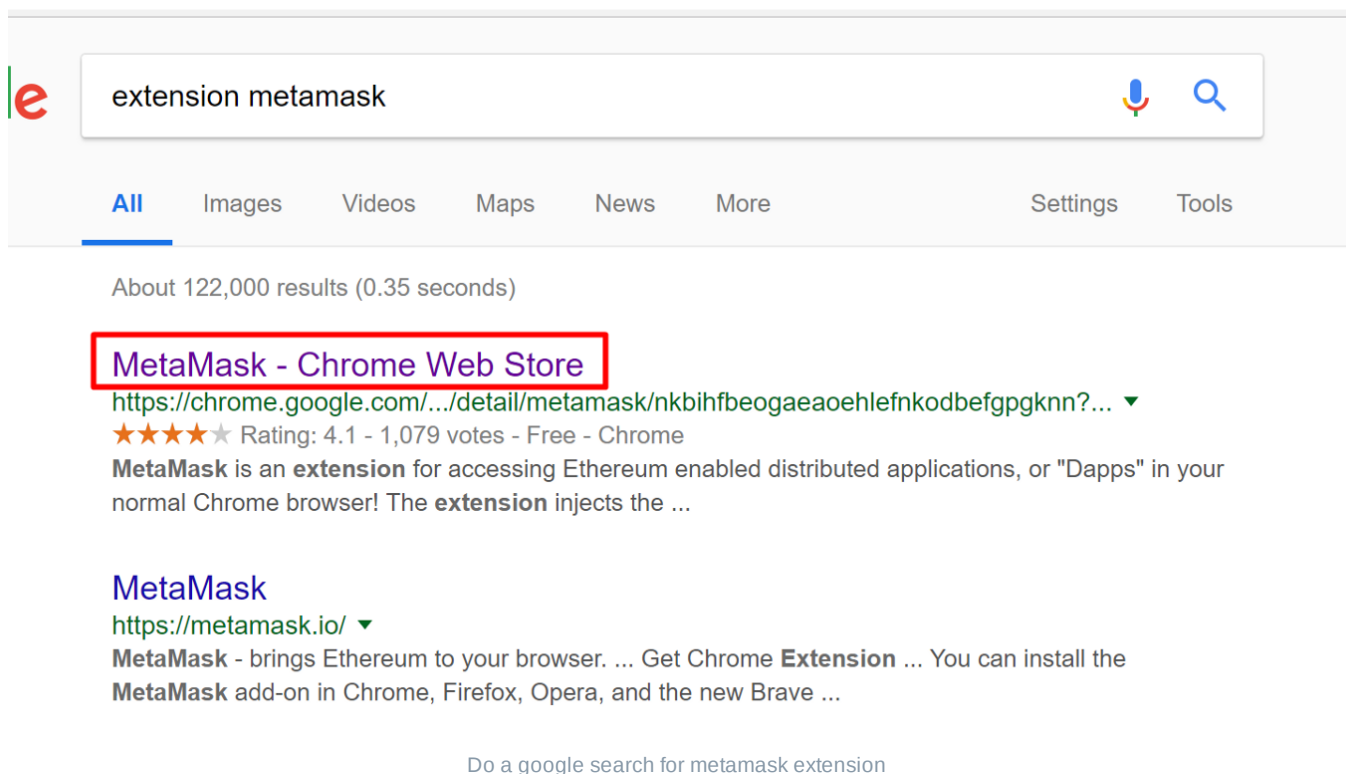
ChainSafe Gaming SDK

Installation

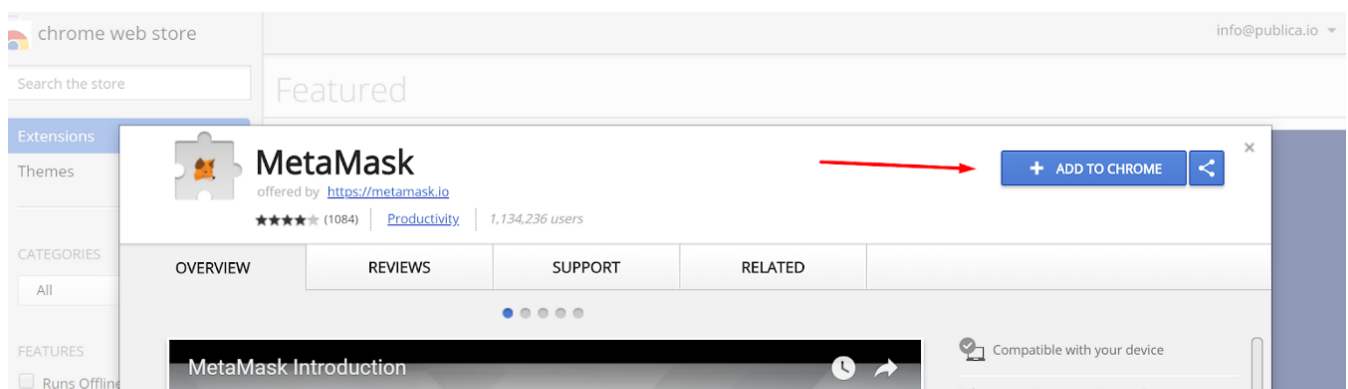
In this section, we will go through the steps necessary to install the ChainSafe Gaming SDK into the Unity3D game engine.

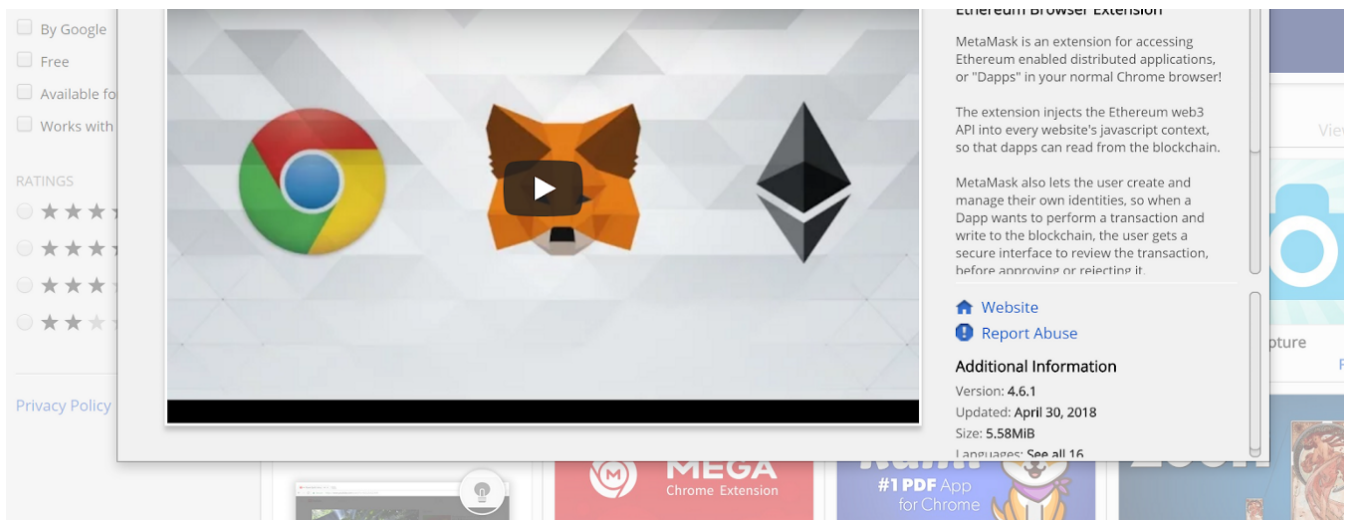
Install MetaMask

You will need to have MetaMask installed in order to make Web3 enabled games. If you already have MetaMask Installed you can skip this section and navigate to the Downloading SDK section.

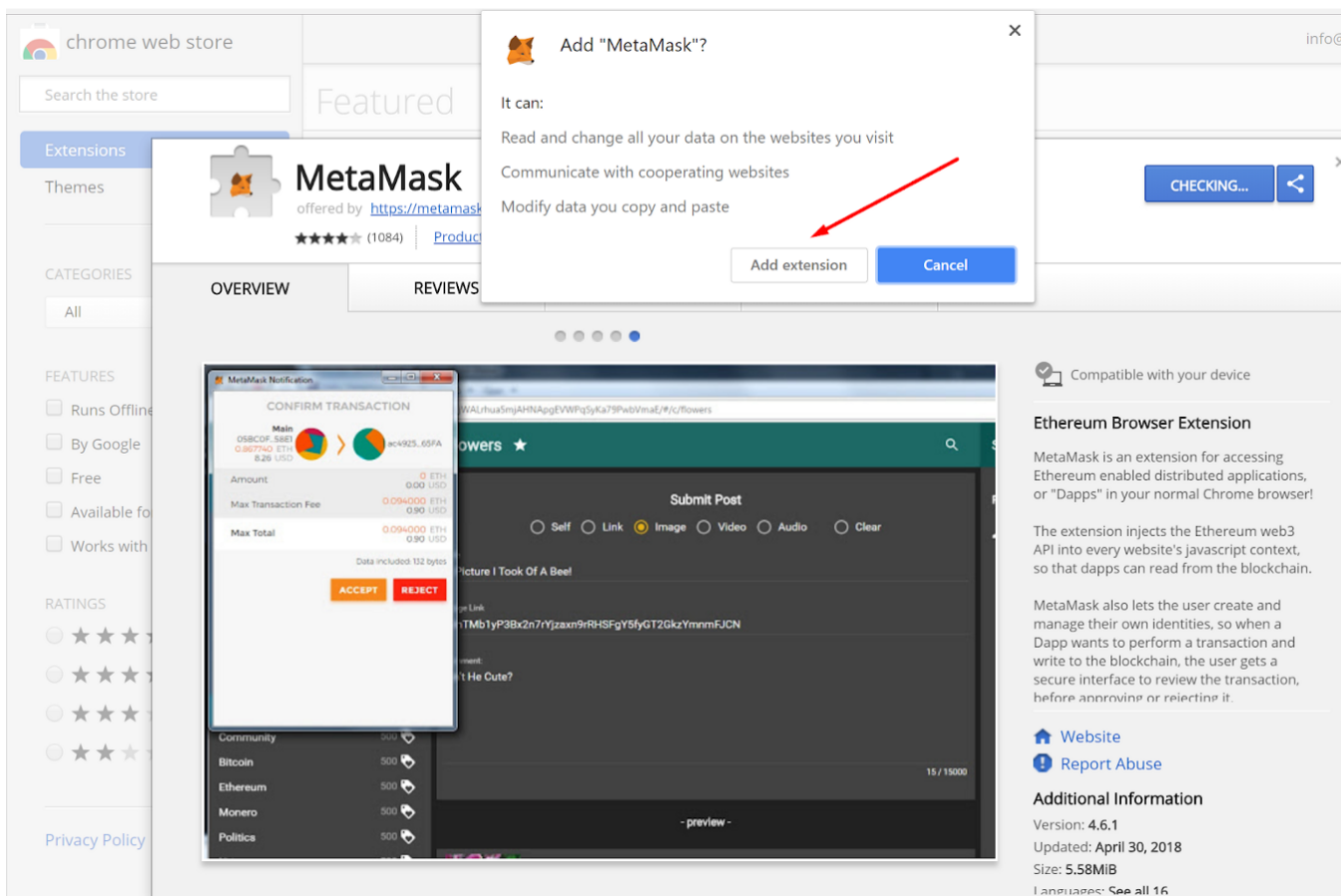


- Click on **Install MetaMask** as a Google Chrome extension.
- Click **Add to Chrome**.
- Click **Add Extension**.





Add to Chrome



Add extension to Chrome

Create an account

- Click on the extension icon in the upper right corner to open MetaMask.
- To install the latest version and be up to date, **click Try it now.**
- **Click Continue.**
- You will be prompted to create a new password. **Click Create.**

Create Password

New Password (min 8 chars)

Confirm Password

CREATE

Import with seed phrase



Click Reveal Secret Words.

Next, you will see a 12 words seed phrase. This is really important and usually not a good idea to store digitally, so take your time and write it down.

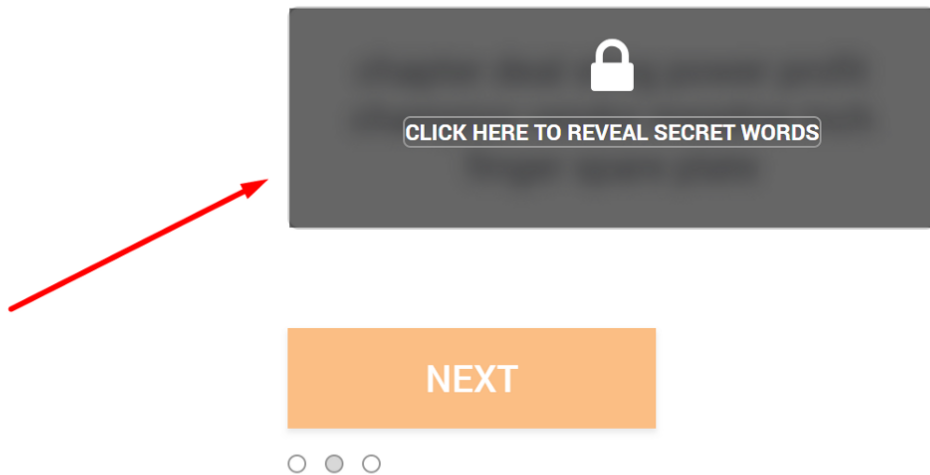
MetaMask | <chrome-extension://nkbihfbeogaeaoehlefnkodbefgpgknn/home.html#initialize/backup-phrase>



Secret Backup Phrase

Your secret backup phrase makes it easy to back up and restore your account.

WARNING: Never disclose your backup phrase. Anyone with this phrase can take your Ether forever.



MetaMask | chrome-extension://nkbihfbeogaeaoehlefnkodbefgpgknn/home.html#initialize/backup-phrase



Secret Backup Phrase

Your secret backup phrase makes it easy to back up and restore your account.

WARNING: Never disclose your backup phrase. Anyone with this phrase can take your Ether forever.

wool thought awful better jar
music slush give mechanic ginger
faculty portion

NEXT



Verify your secret phrase by selecting the previously generated phrase in order. **Click Confirm.**

Downloading the SDK

You will first need to download the ChainSafe Gaming SDK from our GitHub repository. This can be found by following this link [ChainSafe gaming SDK Github](#).

ChainSafe
building the infrastructure for web3
Toronto, Canada <http://chainsafe.io> @chainsafeth info@chainsafe.io **Verified**

Overview Repositories **252** Packages People **97** Teams **43** Projects

Pinned

- lodestar** (Public)
TypeScript Implementation of Ethereum proof of stake
TypeScript 598 115
- gossamer** (Public)
Gossamer: A Go implementation of the Polkadot Host
Go 312 81
- forest** (Public)
Rust Filecoin Node Implementation
Rust 408 91
- ChainBridge** (Public)
Modular Multi-Directional Blockchain Bridge to interact with Multiple Networks; Ethereum, Ethereum Classic, Substrate, based chains.
Go 387 224
- web3.js** (Public)
Ethereum JavaScript API
JavaScript 14.1k 3.9k
- web3.unity** (Public)
Unity SDK for building games that interact with blockchains.
C# 497 117

Repositories

After clicking on the web3.unity link you will be at our releases page. There you will be able to download the web3.unitypackage to install into the Unity3D game engine.

KBryan Merge pull request #117 from ChainSafe/template_update 2e82a50 3 days ago 162 commits

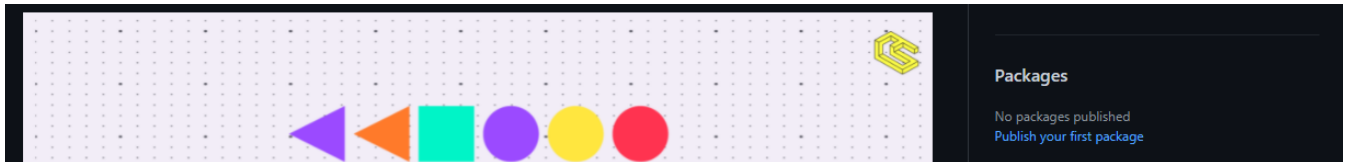
- .github/ISSUE_TEMPLATE Add bug/feature issue templates 4 months ago
- Plugins add web3private key in game signing 2 months ago
- Web3Unity Merge pull request #100 from ChainSafe/web3_unity_pagination last month
- WebGLTemplates/Web3GL-2020x removed_2019 3 days ago
- .gitattributes git attributes for unity git lfs 6 months ago
- .gitignore Update .gitignore 5 months ago
- LICENSE Update LICENSE 9 months ago
- README.md Update README.md last month

web3.unity (Public)
Unity SDK for building games that interact with blockchains.

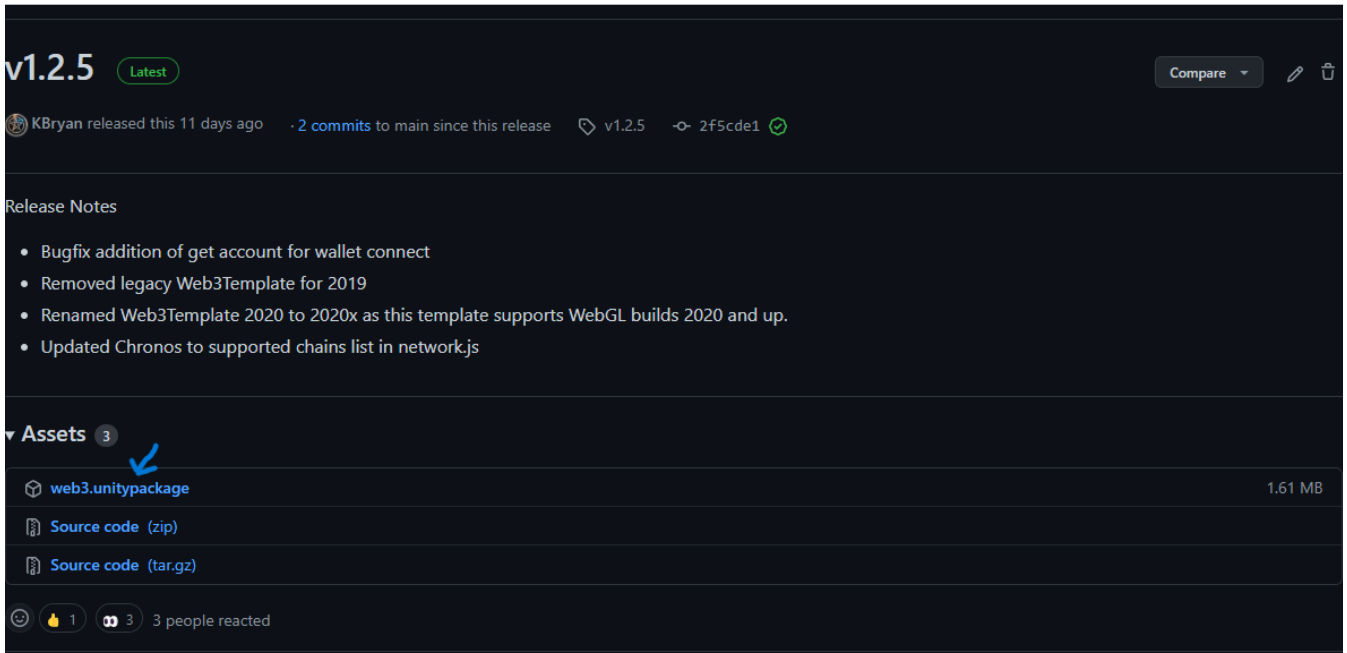
games unity blockchain cryptocurrency

Readme
LGPL-3.0 License
497 stars
61 watching
117 forks

Releases 23
v1.2.5 Latest 11 days ago
+ 22 releases

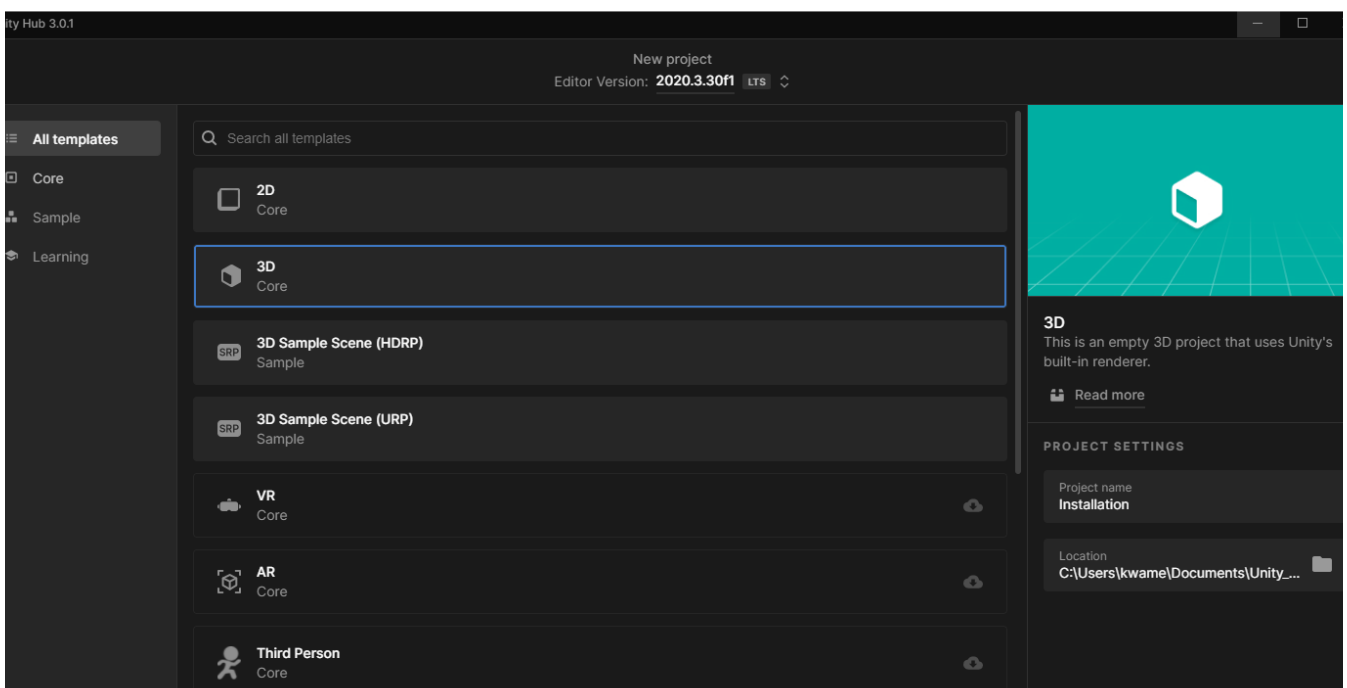


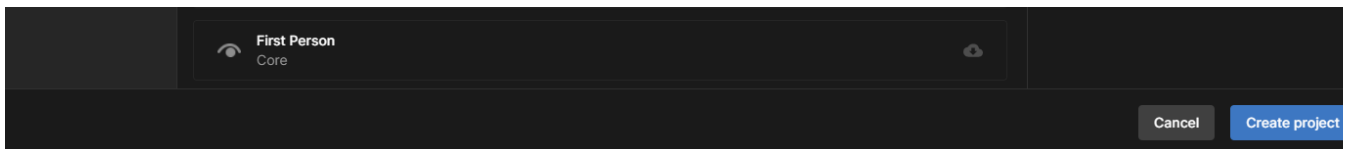
Here you will find our latest release. On clicking on the web3.unitypackage. This will download this to your computer.



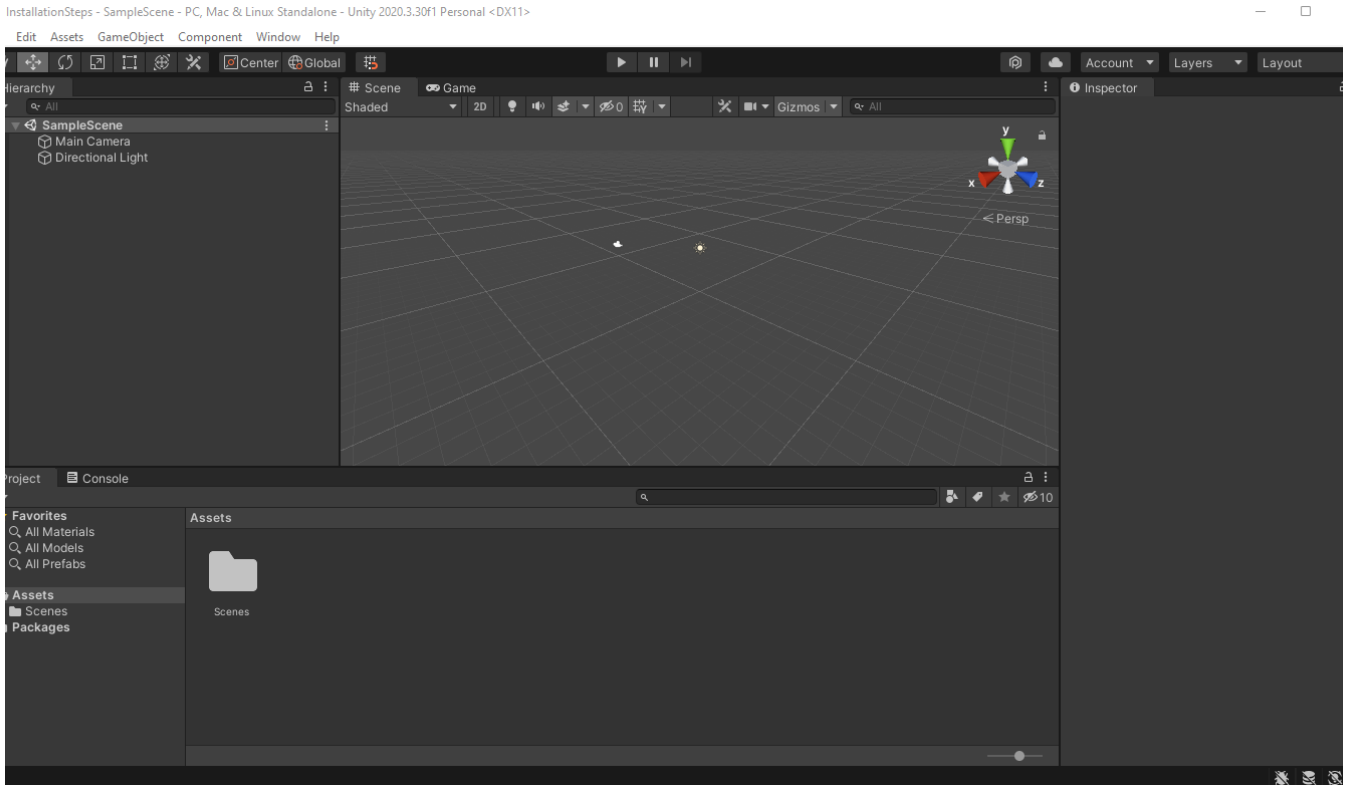
Creating a new Unity3D project

Once you have downloaded the web3.unitypackage you will need to create a new Unity3D project. In this example, we will create an empty 3D project. The SDK / Unity plugin supports all Unity project types. In this example, we will use a 3D scene.



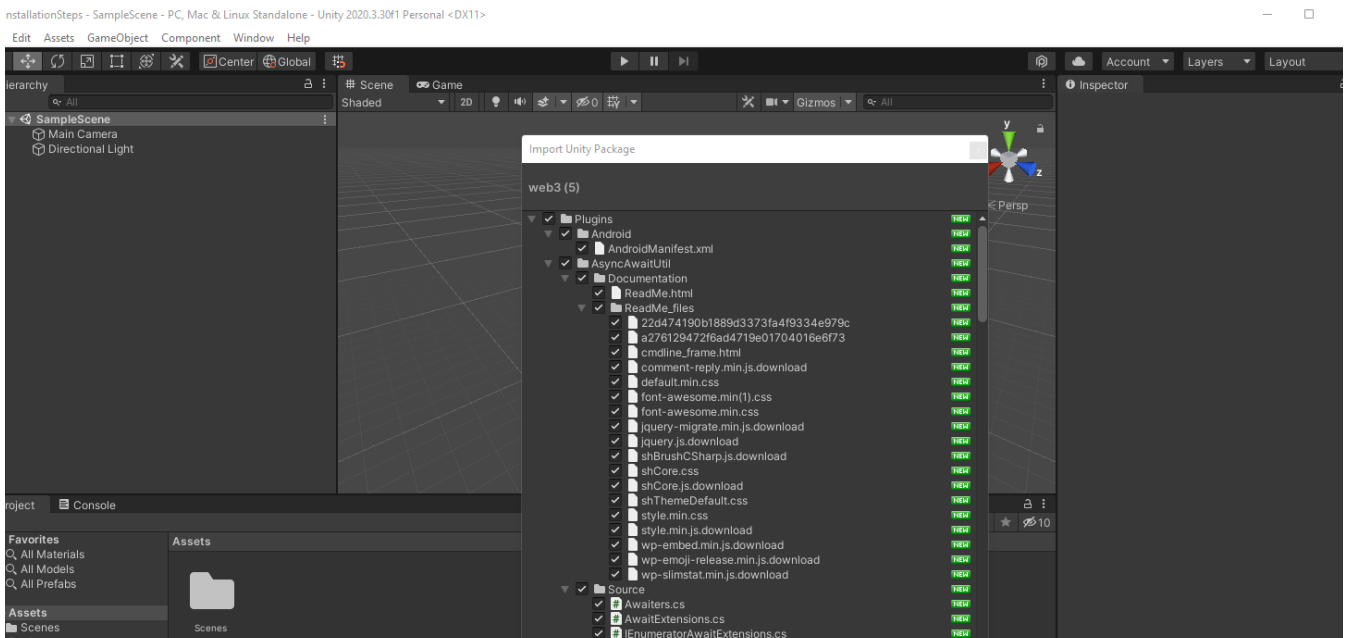


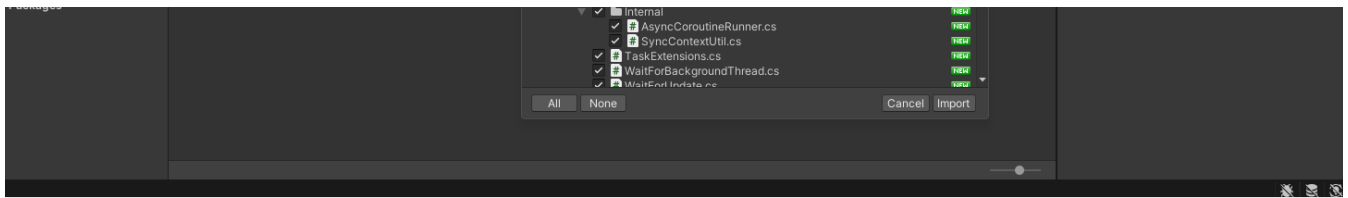
Now, that we have created a new project and have a clean interface to work with we can now import the SDK into our project.



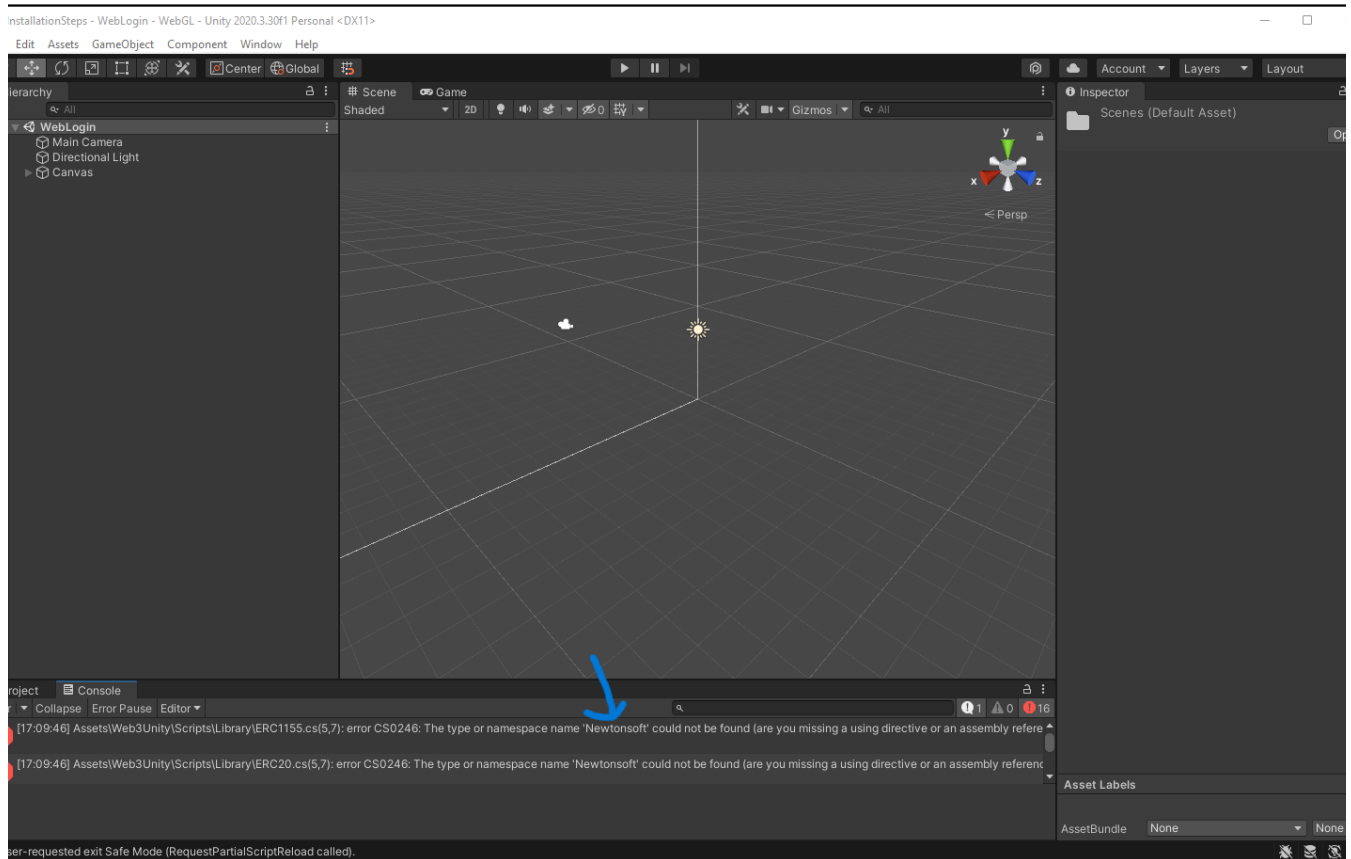
Importing the ChainSafe Gaming SDK

Now, that we have a new Unity3D project. We are ready to install the ChainSafe gaming SDK package. Dragging the package in the assets directory will bring up the following dialogue shown on the screen below.





Depending on the version of Unity3D you are using you might see the screen below.



If you do, you will need to download and install the [NewtonSoft](#) package found for free in the Unity Asset store and is listed as a dependency of the ChainSafe Gaming SDK.

Unity Asset Store

2D
Add-Ons
Audio
Essentials
Templates
Tools
VFX
Sale
Sell Assets

Over 11,000 five-star assets
Rated by 85,000+ customers
Supported by 100,000+ forum members

me > Tools > Input Management > JSON .NET For Unity

JSON .NET For Unity

parentElement, LLC ★★★★★ (569) | ♥ (2487)

FREE

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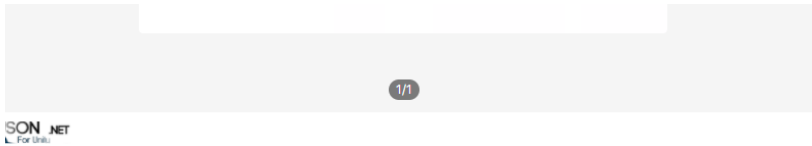
License agreement [Standard Unity Asset Store EULA](#)

License type [Extension Asset](#)

File size 1.4 MB

Latest version 2.0.1

Latest release date Nov 8, 2017

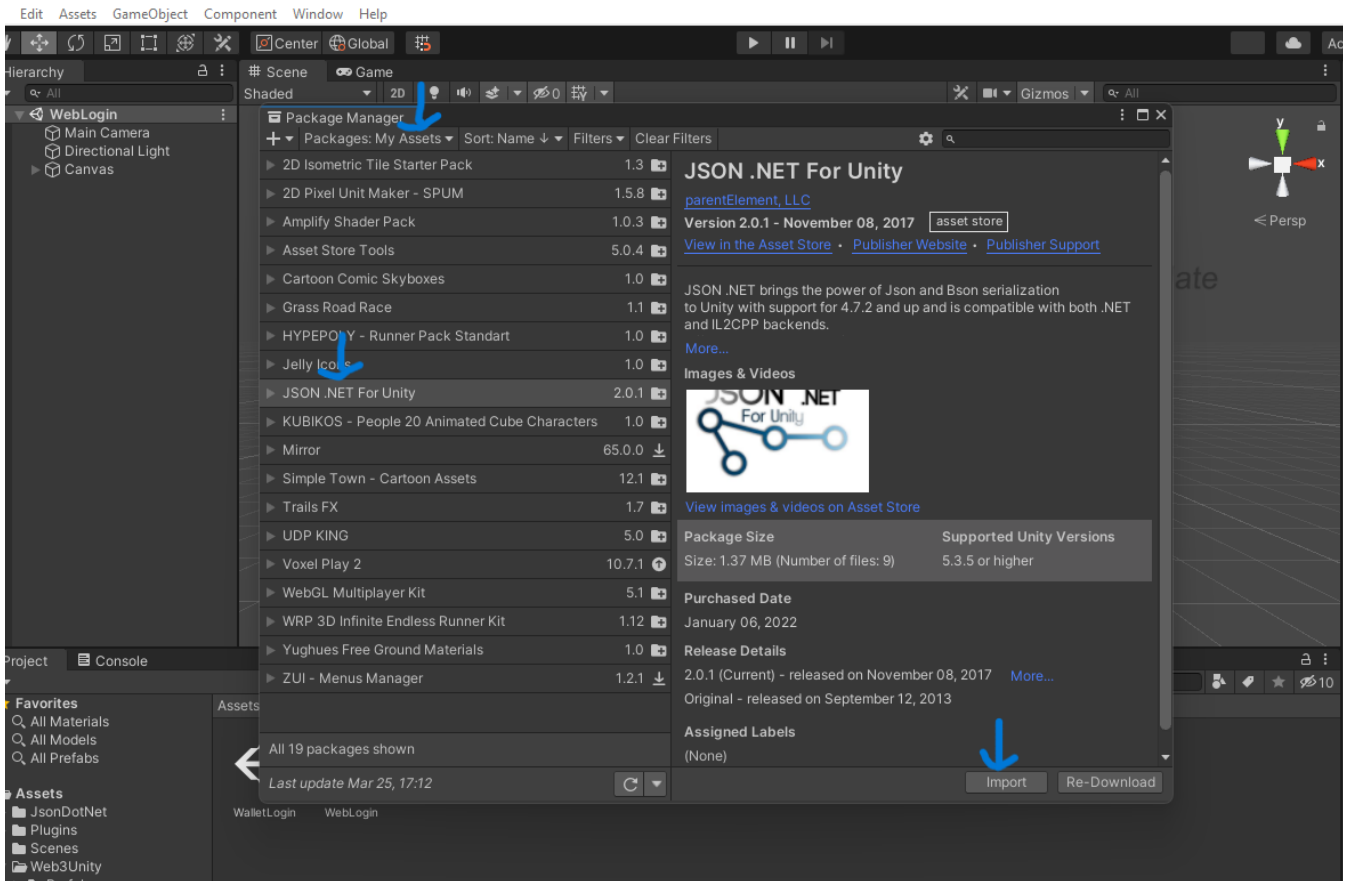


Supported Unity versions
Support

4.6.0 or higher
[Visit site](#)

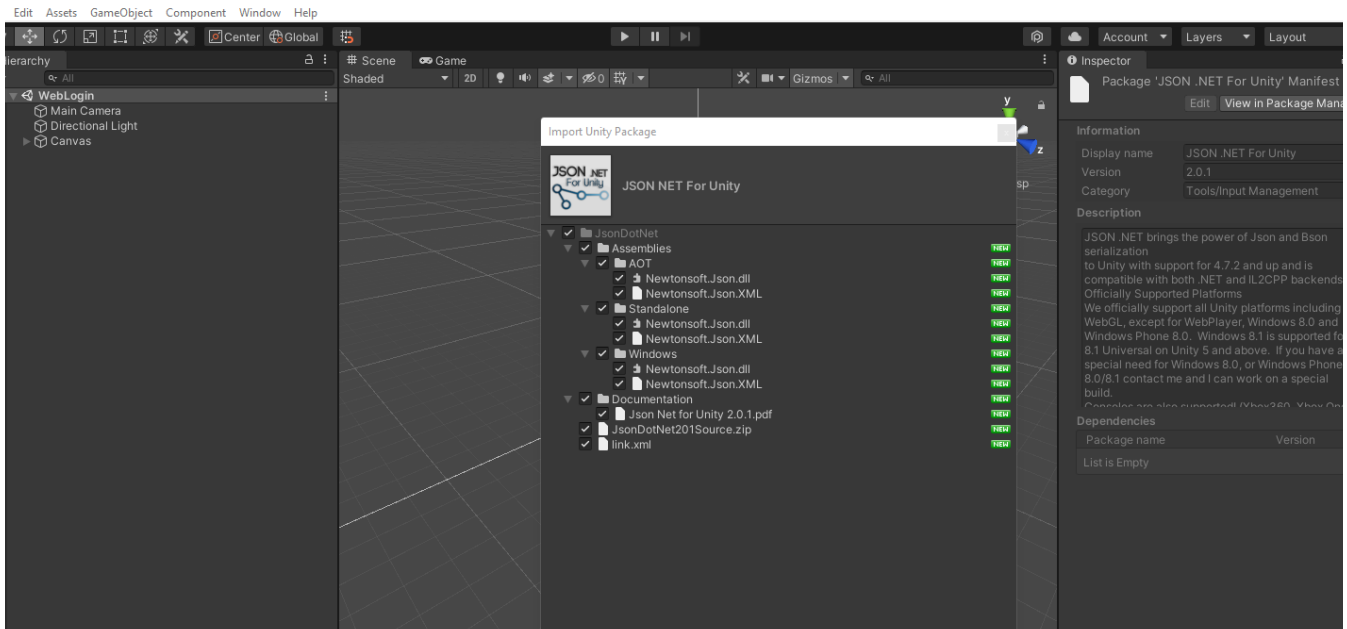
After downloading the package you will need to import it into your project. The steps for importing this package are as follows **Window -> Package Manager -> My Assets -> JSON. NET For Unity -> Import.**

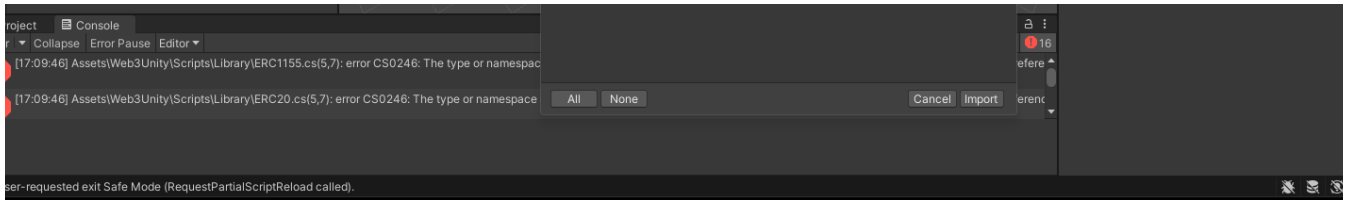
InstallationSteps - WebLogin - WebGL - Unity 2020.3.30f1 Personal <DX11>



After clicking the import button, you will see the following screen. Simply select the import button and the Newton Soft JSON dependency will be imported into your project and the error will be removed.

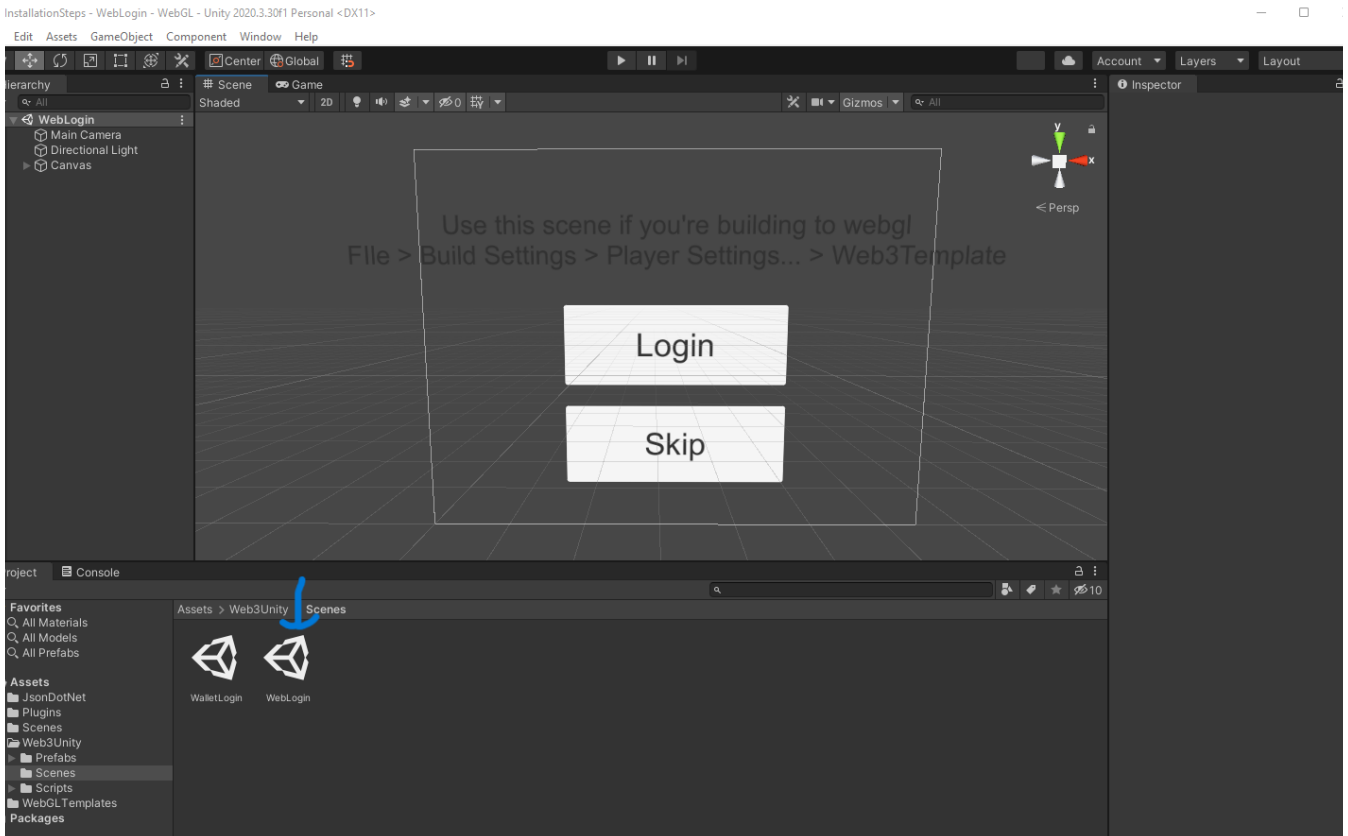
InstallationSteps - WebLogin - WebGL - Unity 2020.3.30f1 Personal <DX11>





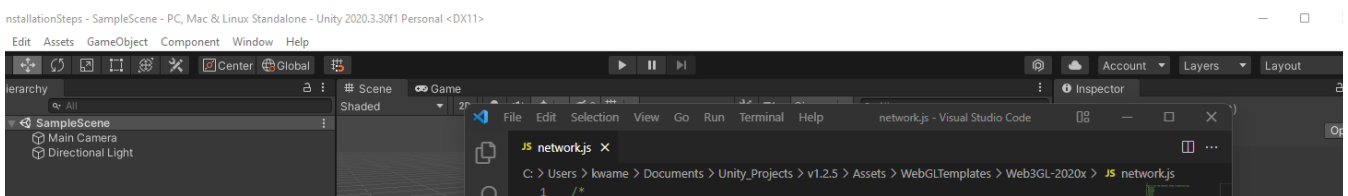
Building a WebGL Project

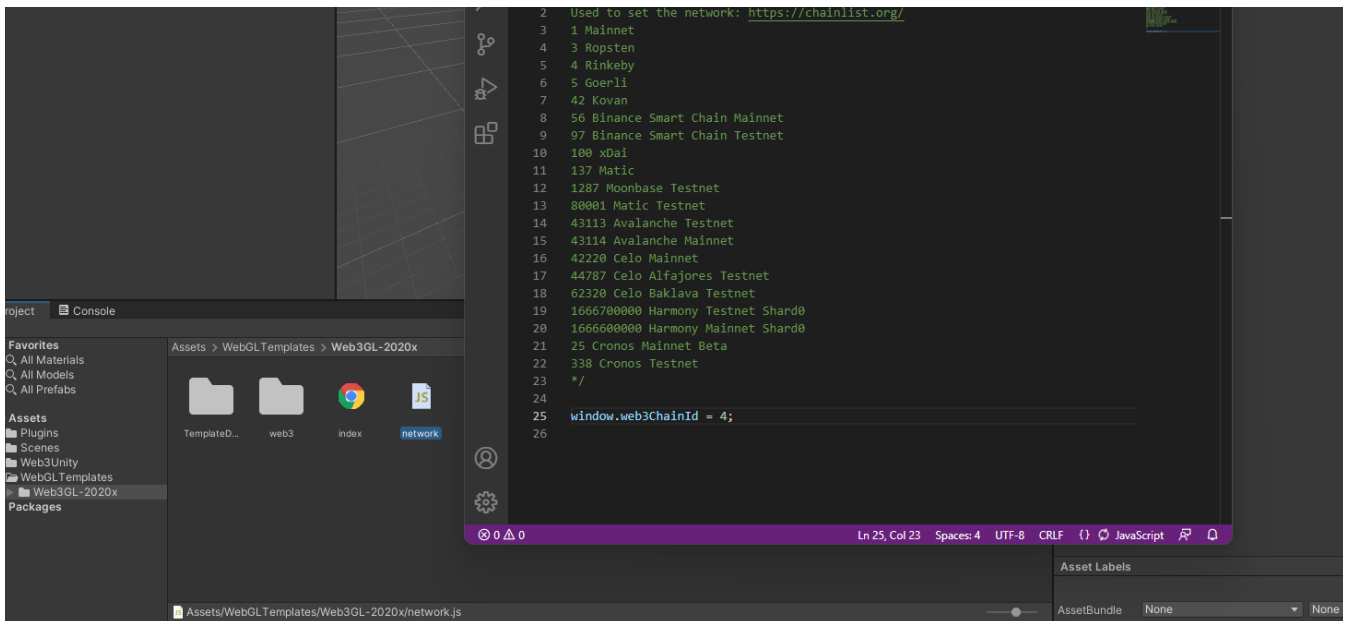
Now, we are going to build out our game scene. We will only add the necessary components to build and connect the SDK to a sample Unity3D scene. The SDK provides a WebLogin scene that connects your Web3 wallet to Unity. The is found in the Web3Unity -> Scenes folder and is name WebLogin. This is going to be the first scene that game developers will use.



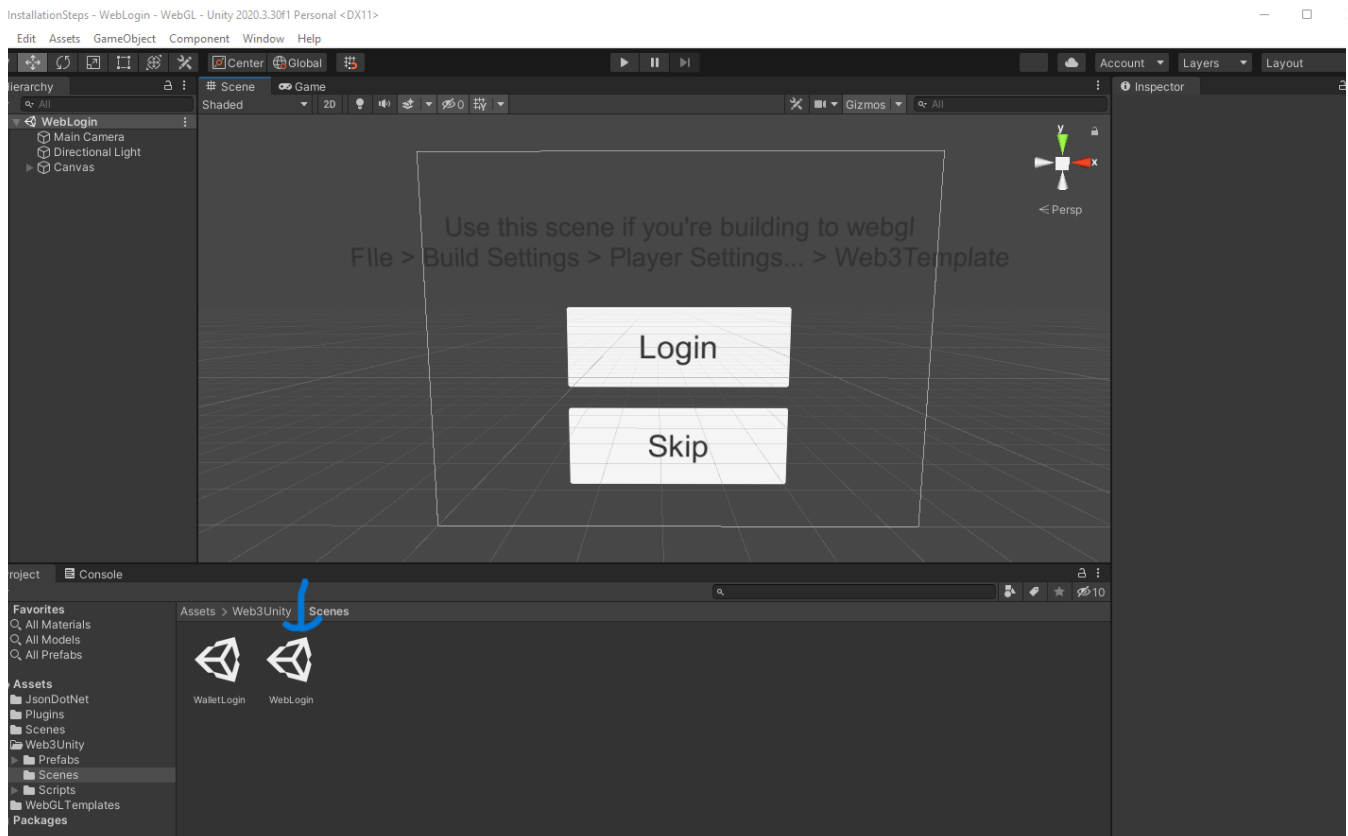
Building out our Sample Scene

The ChainSafe gaming SDK is Multi-Chain. Meaning, that our SDK can connect to many different versions of the Ethereum Virtual Machine. This is an important step that is often missed when deploying your project. This is found in the **WebGL Templates -> Web3GL - 2020x -> network.js** file. You will simply replace the value with the ChainId of the EVM blockchain you wish to connect to. The SDK however will detect the network your Web3 wallet has selected and will change without you having to configure it.

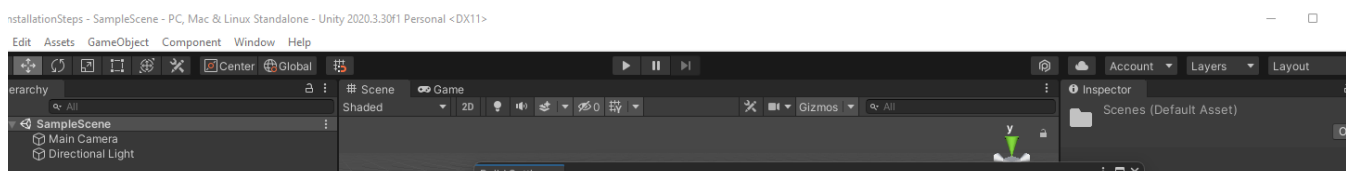


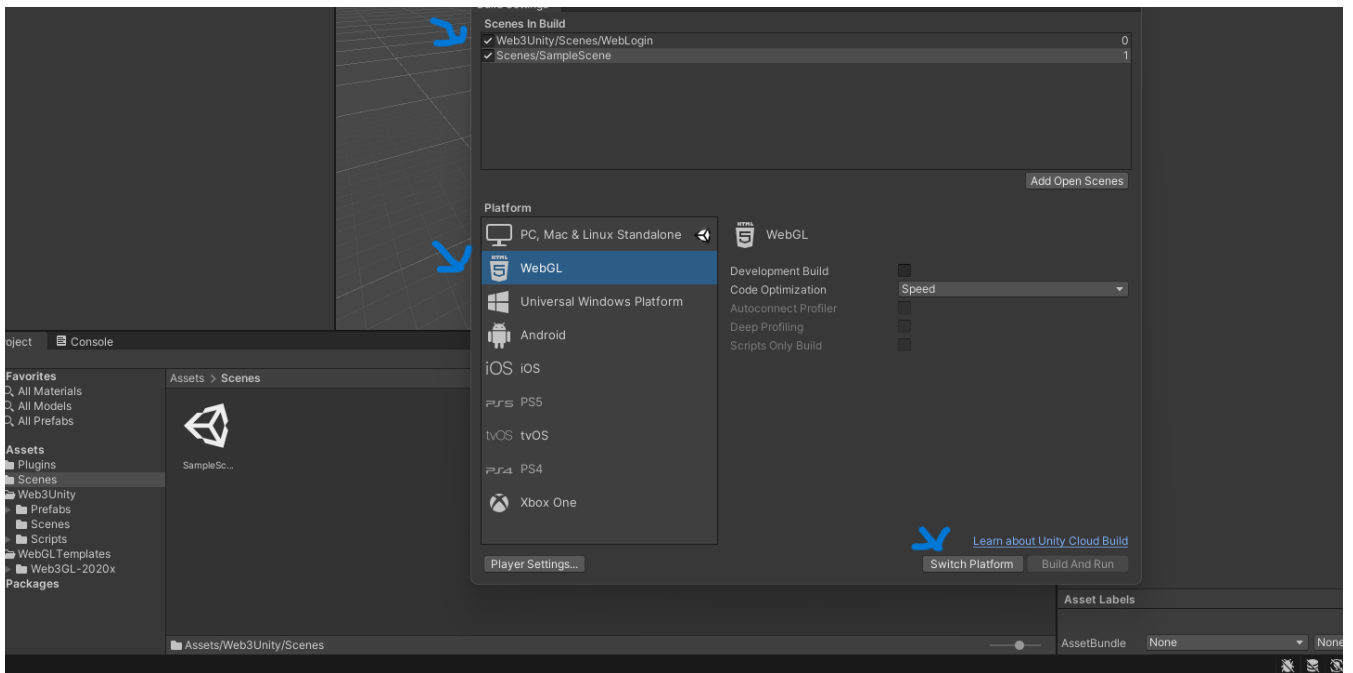


Now, we are ready to build out our sample project. This will need the WebLogin scene and the default scene provided by Unity. It's important to have a second scene as the SDK expects there to be a connecting screen. This is found by clicking **File -> Build Settings**. You will need to drag/import the WebLogin scene into the first build index. The WebLogin scene is found in the Web3Unity -> Scenes folder.



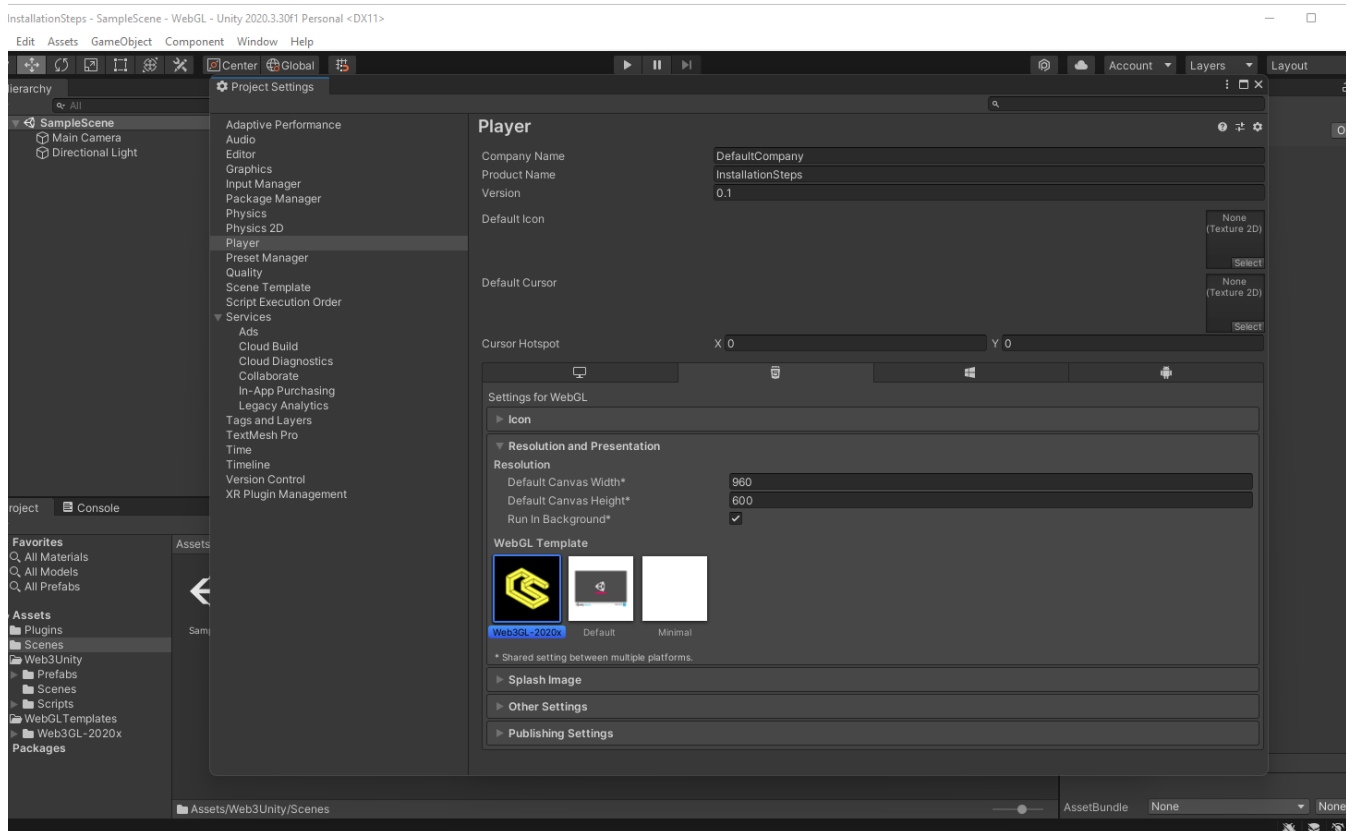
And make sure it is in the first index followed by the sample scene found in the scenes folder provided by Unity3D. We are also going to need to change our platform the WebGL.





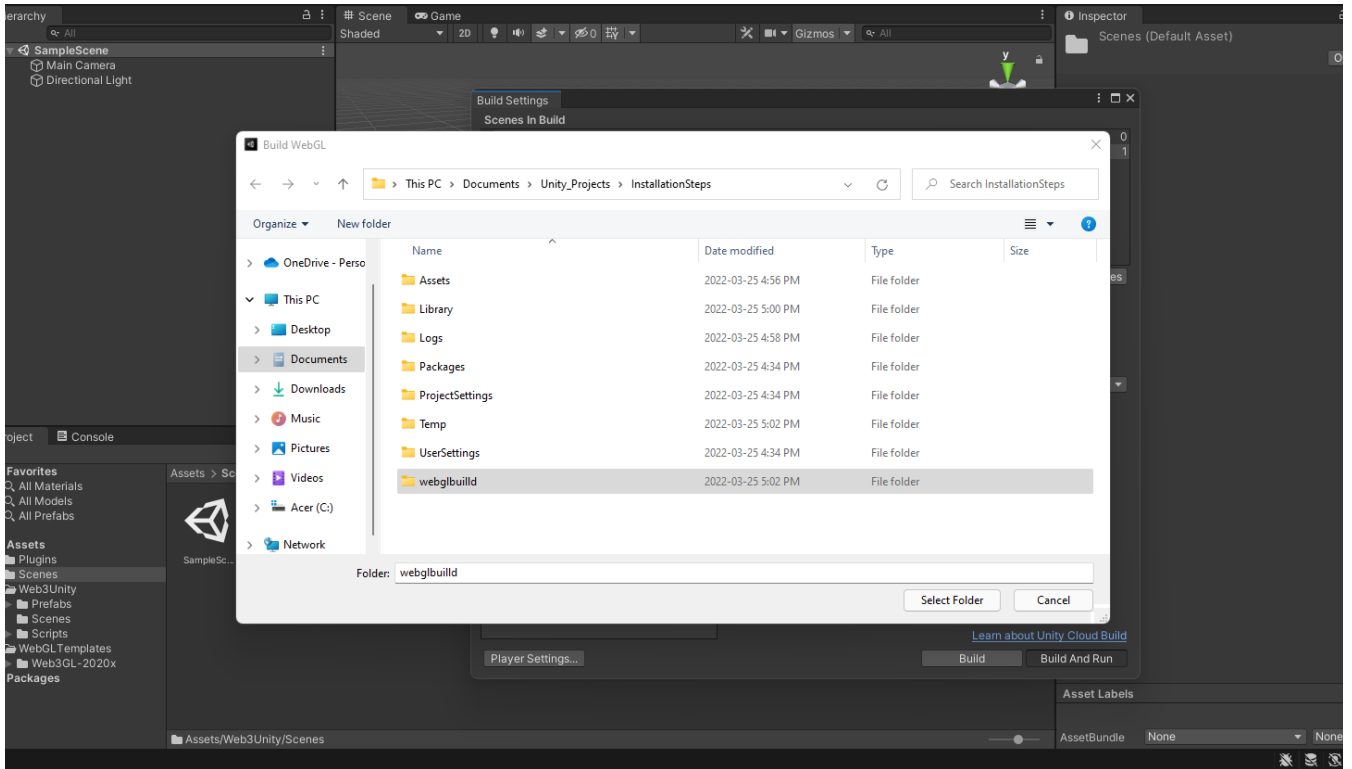
Connecting the ChainSafe WebGL Template

In order to connect the ChainSafe gaming SDK to Web3. We are going to need to select the custom template provided by the SDK. On selecting the Player Settings and navigating to Player -> Resolution and Presentation select the Web4GL-2020x template.



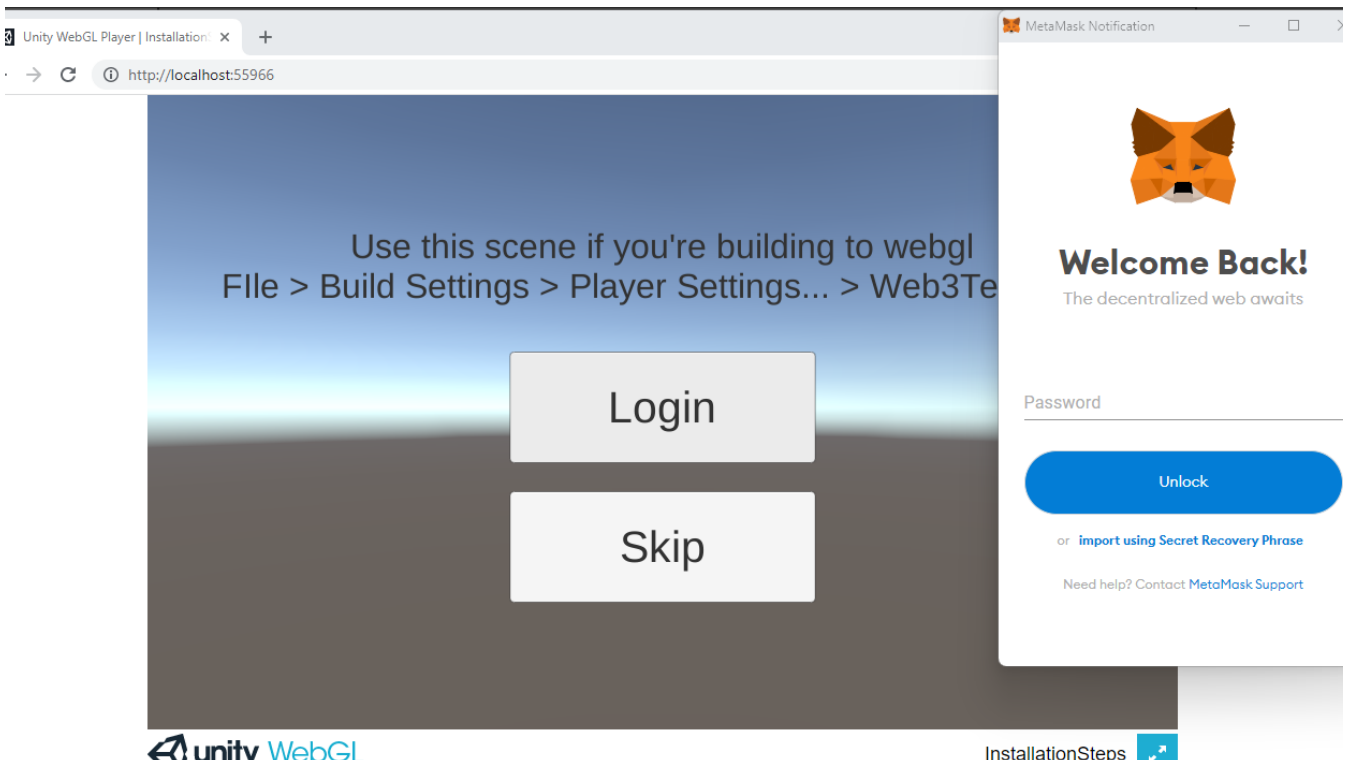
Now we are ready to build out our project and test it in the browser. This will require us to create a folder for our build. This can be named anything you wish.



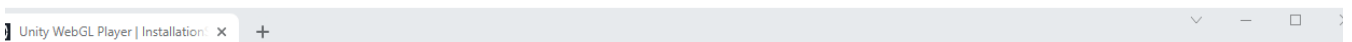


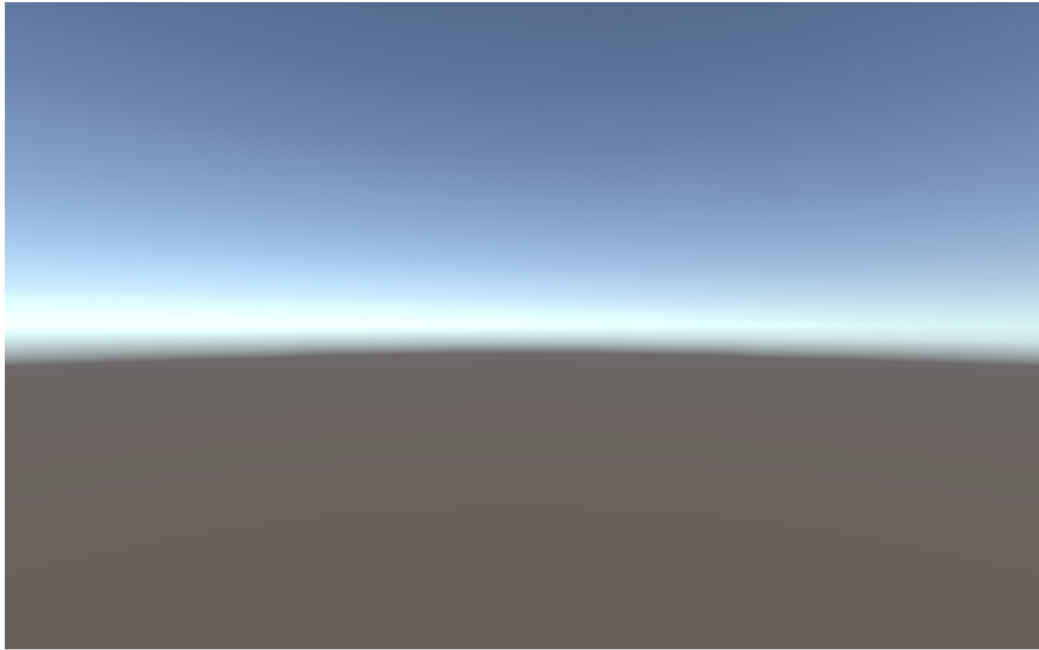
Viewing the project in the browser

Unity provides a built-in webserver for our Web3GL enabled games. On selecting the build and run option, Unity will create a built-out project and launch it in your browser. Selecting the login button will prompt MetaMask to open.



After entering your password and selecting an account, The SDK will automatically navigate you to the SampleScene we added to the build index.





InstallationSteps 

Congratulations

You have successfully installed the ChainSafe Gaming SDK. We look forward to seeing what you build.