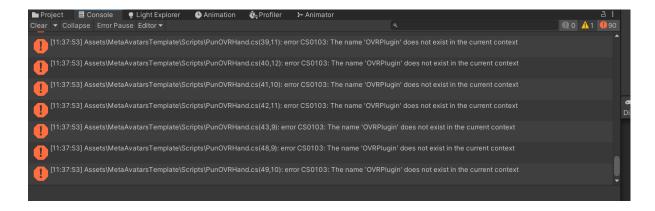
Multiplayer Mixed Reality Template (MMRT) setup guide.

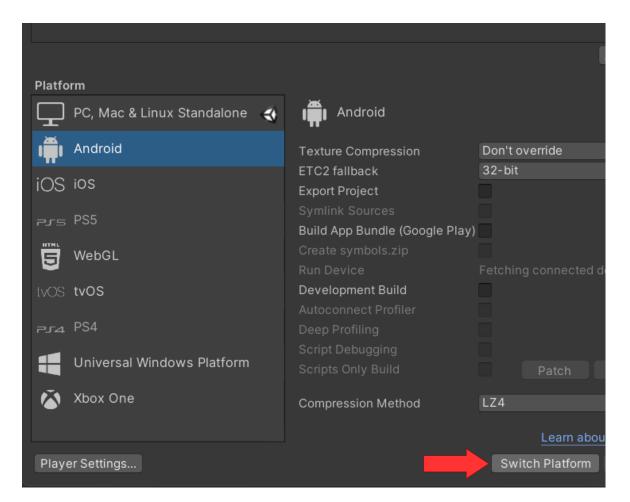
Thanks for purchasing! Join us on the discord server: https://discord.gg/gEhHu8Xydr

After importing the package to a fresh Unity 2020.3.X or 2021.3.X project, you will see many errors. Don't panic! That's because we still need to import other packages for it to work.



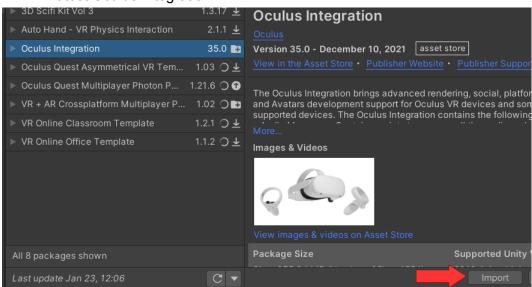
Let's start setting up the project!

1. Go to build settings and switch the platform to Android.



2. Now, let's import some packages:

- Latest Oculus Integration:



Photon Pun 2 - FREE



Photon Voice 2



Go to https://developer.oculus.com/downloads/package/meta-avatars-sdk/ and download the latest Meta Avatars SDK.

VERSION

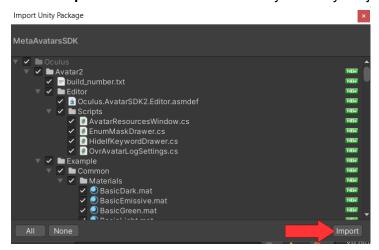
9.1 🗸

DOWNLOAD 🕹

Meta Avatars SDK



- Import the MetaAvatarSDK into your Unity Project.



- If you get this error:

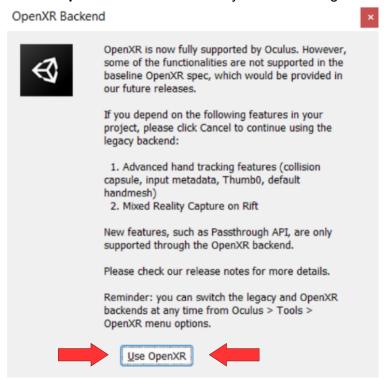


[12:29:50] Multiple precompiled assemblies with the same name Newtonsoft. Json.dll included or the current platform. Only or

Go to Assets > Oculus > Avatar2 > Scripts > AvatarEdtorDeepLink, and delete these 2 files (they are duplicated).

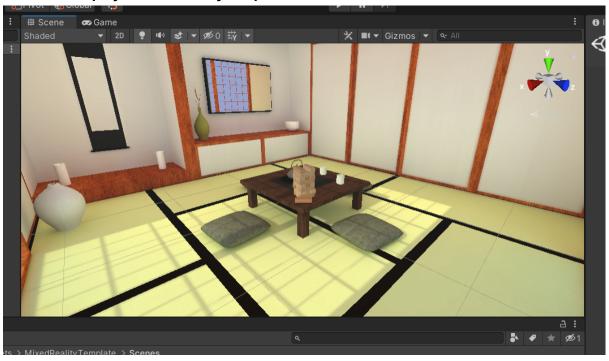


- Now, the project should compile, and start asking for some updates. Accept all the updates requested.
- 3. Enable Open XR This is mandatory for Passthrough to work.



Unity will want to restart afterward, click yes.

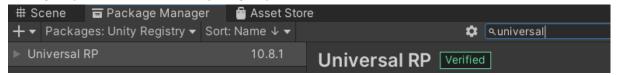
4. You can now open the main scene in Assets>MultiplayerMixedRealityTemplate>Scenes



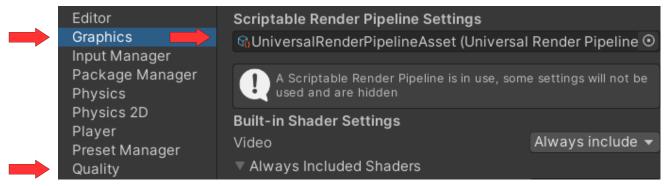
OPTIONAL: if you see everything pink like in this screenshot,



you need to install the URP (Universal render pipeline) package from the package manager (you find it under Unity Registry Tab).

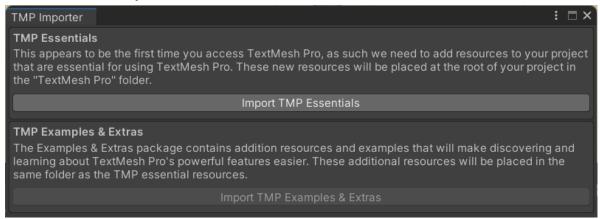


After importing the URP, go to Project Settings > Quality and Project Settings > Graphics and assign the UniversalRenderPipelineAsset into the fields.



Then, the scene should render appropriately.

5. You will need to import Text Mesh Pro:

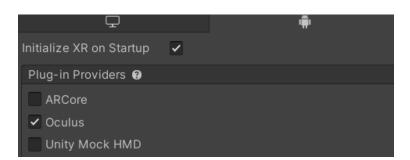


6. Install XR Plugin Management

Go to Project Settings > XR Plugin Management and install the plugin.



7. Add the Oculus platform for both windows and android.

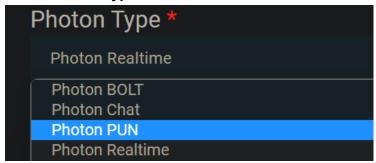


8. Configure Photon Pun2

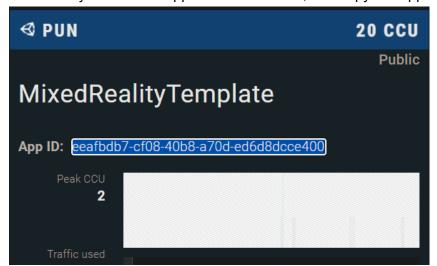
- Go to https://dashboard.photonengine.com/en-US/ and create an account if you don't have one.
- Create a new Pun App (you can create as many apps as you like)

Your Photon Cloud Apps CREATE A NEW APP

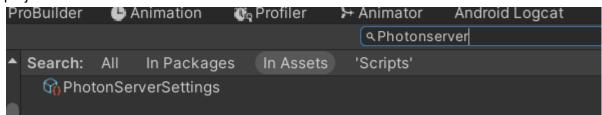
- Make sure it's Type PUN



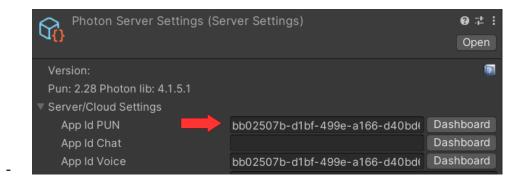
Search for your created App in the dashboard, and copy the App ID



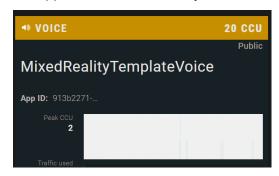
- Go back to Unity and look for the PhotonServerSettings configuration file in the project window.

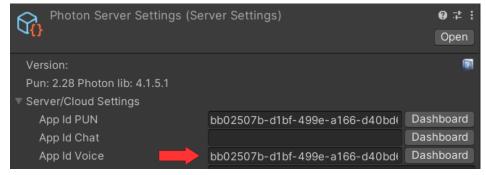


- In the PhotonServerSettings configuration, paste the AppID.

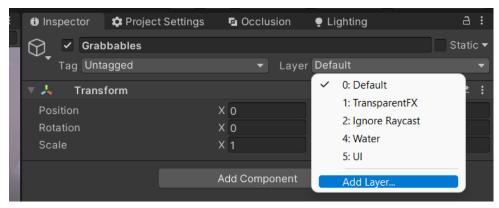


 Go back to the Photon Dashboard and also create a Voice app and paste the ID on the App id Voice field in Unity:





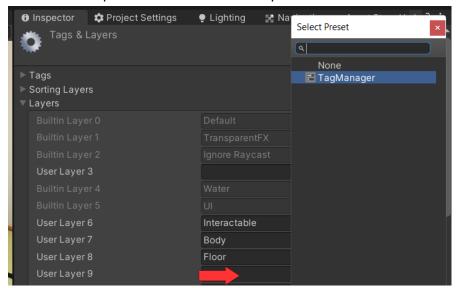
9. **Setting up layers:** the template needs a custom layer setup to avoid unwanted collisions. To set up this, select any object in the scene and go to Layer>Add Layer:



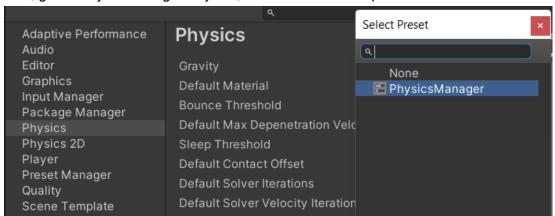
Then, click on the "presets" button in the top right:



And select the preset included in the template.

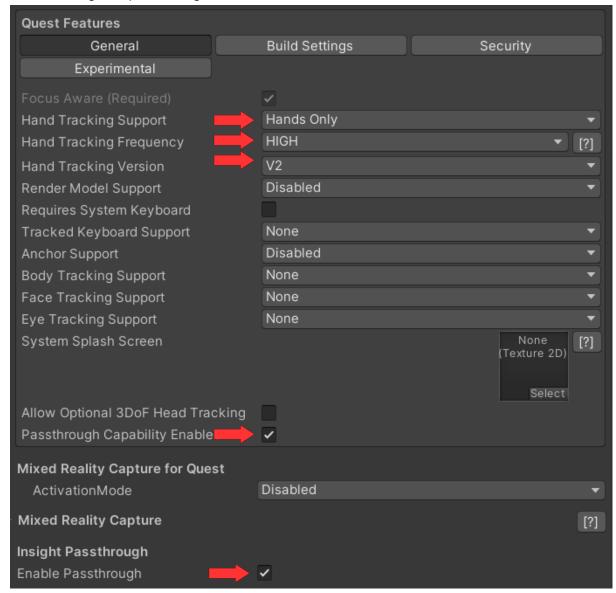


Now, go to Project Settings>Physics, and also select the preset included with the asset:



10. Enabling hand tracking and passthrough

- Go to the OVRNetworkCameraRig, and to the Quest Features section, and enable hand tracking and passthrough:

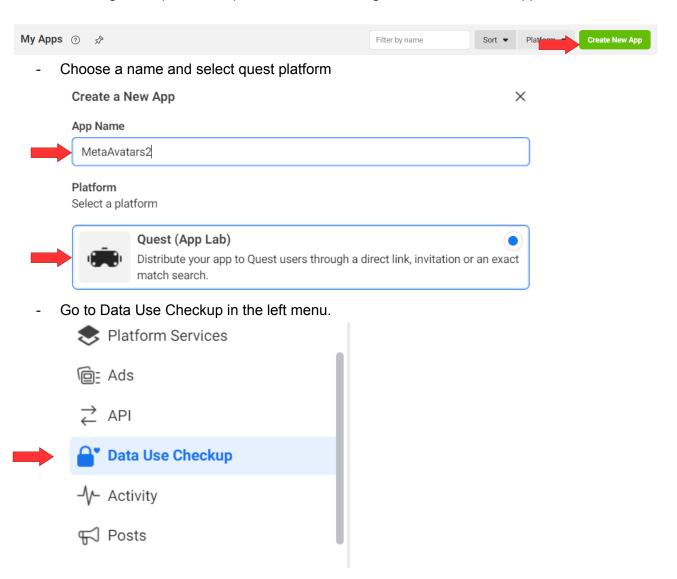


11. Go to Project Settings>Player Settings, switch the scripting backend to ILC2PP, and set the project to 64bit

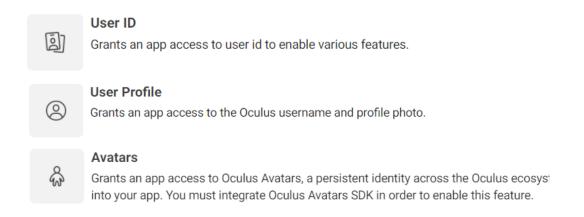


12. Creating an Oculus App and enabling avatars.

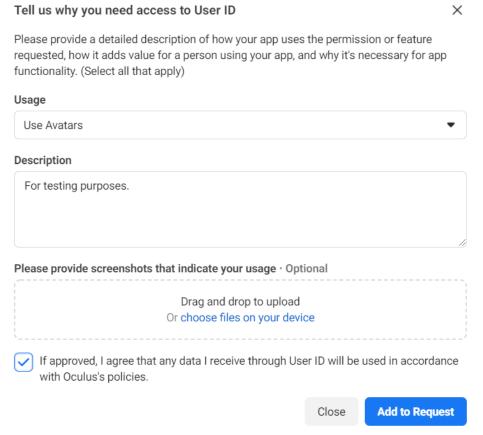
In order to use the avatars, you need to enable them in the oculus developer portal. Please go to https://developer.oculus.com/manage/ and create a new app:



Request access to the following features: UserID, User Profile, and Avatars.



 Add the 3 requests like in this example, you can describe your personal purpose/use case.



- After adding the 3 requests, click on "Submit Requests (3)"



 You will be asked to provide a privacy policy, but as we will not yet be sending the app to the Oculus Store, you can provide a placeholder link, for example, your GitHub account.

Privacy Policy URL

The following Privacy Policy URL will be saved to your application after your access request is approved. If this URL is not your most up-to-date Privacy Policy, please make changes to the URL before submitting this request for review.



https://github.com/lucas-martinic



You will not be able to submit another Data Use Checkup request for this application while this request is under review.

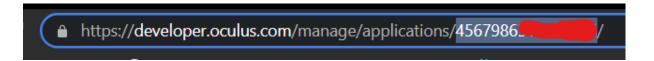


✓ I certify compliance with the Oculus Platform Policy together with all other applicable terms and policies and that my usage of the above features is accurate.



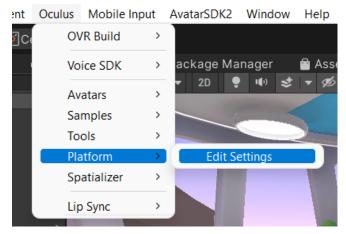
These features will be approved right away. Remember we need to complete this step because the Meta Avatars require an Oculus ID to work, as they use the user's personal avatar that is linked to their account.

13. Now, copy your **Oculus App ID** from the top of your browser:

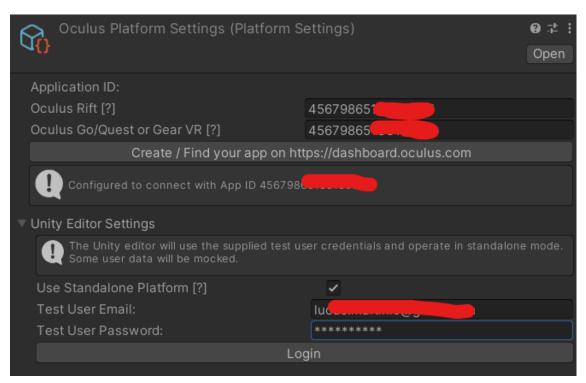


And go back to Unity, and paste it into Oculus > Platform > Edit Settings in both Oculus Rift and Oculus Quest fields.

indroid - Unity 2020.3.26f1 Personal <DX11>



Also, select "Use Standalone Platform" and enter your oculus/meta credentials.



Now, you should be able to click on "Play" and the app should load your own Avatar linked to your oculus account!

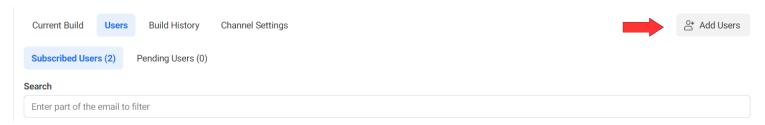


IMPORTANT

For an external player to join your app/game with their own Avatars, they must pass the "entitlement check" (normally, to own the game). You can go to the Oculus Developer Portal, and upload it to an Alpha/Beta channel. You need to follow their instructions to upload your apk into the release channel.



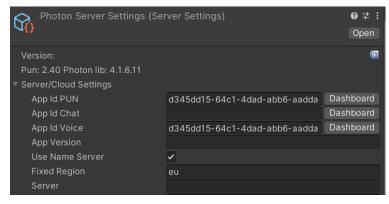
After that, you will be able to invite other accounts with their emails. Then they will be able to join and correctly load their avatars.



Common Issues

1. "When I tested with my colleague, I am able to see my avatar and he is able to see his avatar, but we are not able to see each other's avatars."

Please try fixing the Photon Region in the PhotonServer settings file, you can try with something like eu or us to force both clients to connect to the same Photon Server.



More info on Photon Regions here.