Photon WebRPC

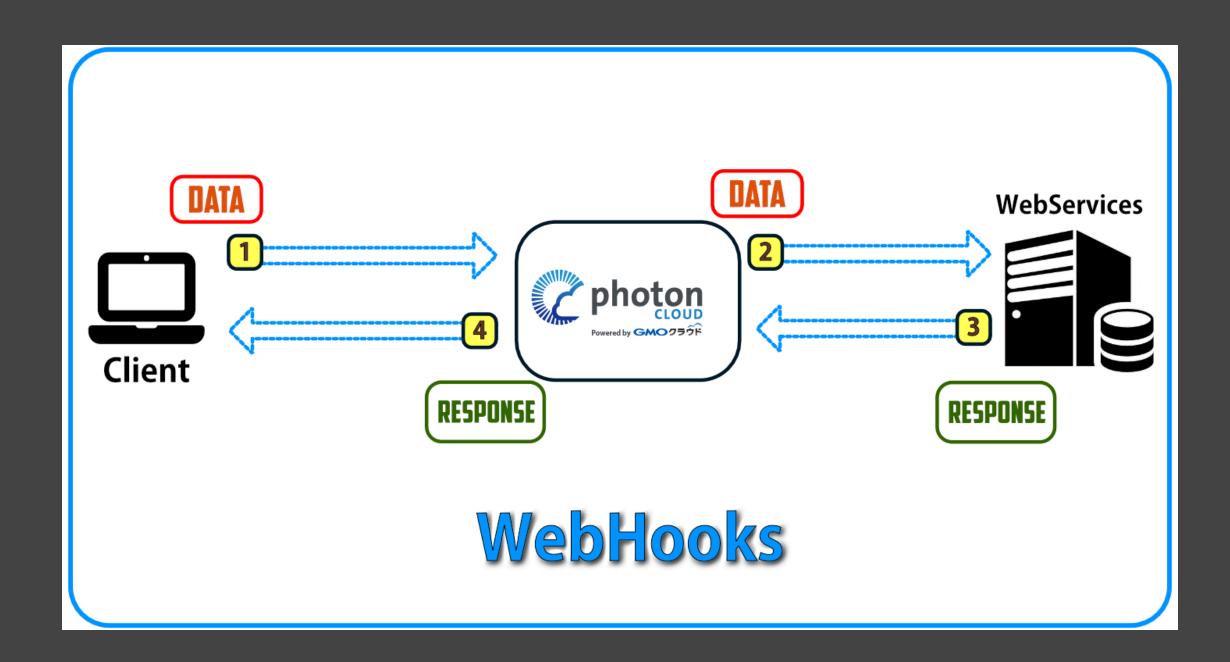
Arthur Pai

https://github.com/ispan-umvr09/tank-server

https://github.com/ispan-umvr09/tanks

Photon WebRPC

WebRPC是一種靈活的方式,可以將外部服務與Photon Cloud結合起來。例如,通過WebRPC,Photon客戶端可以要求伺服器從外部網絡服務中獲取數據。



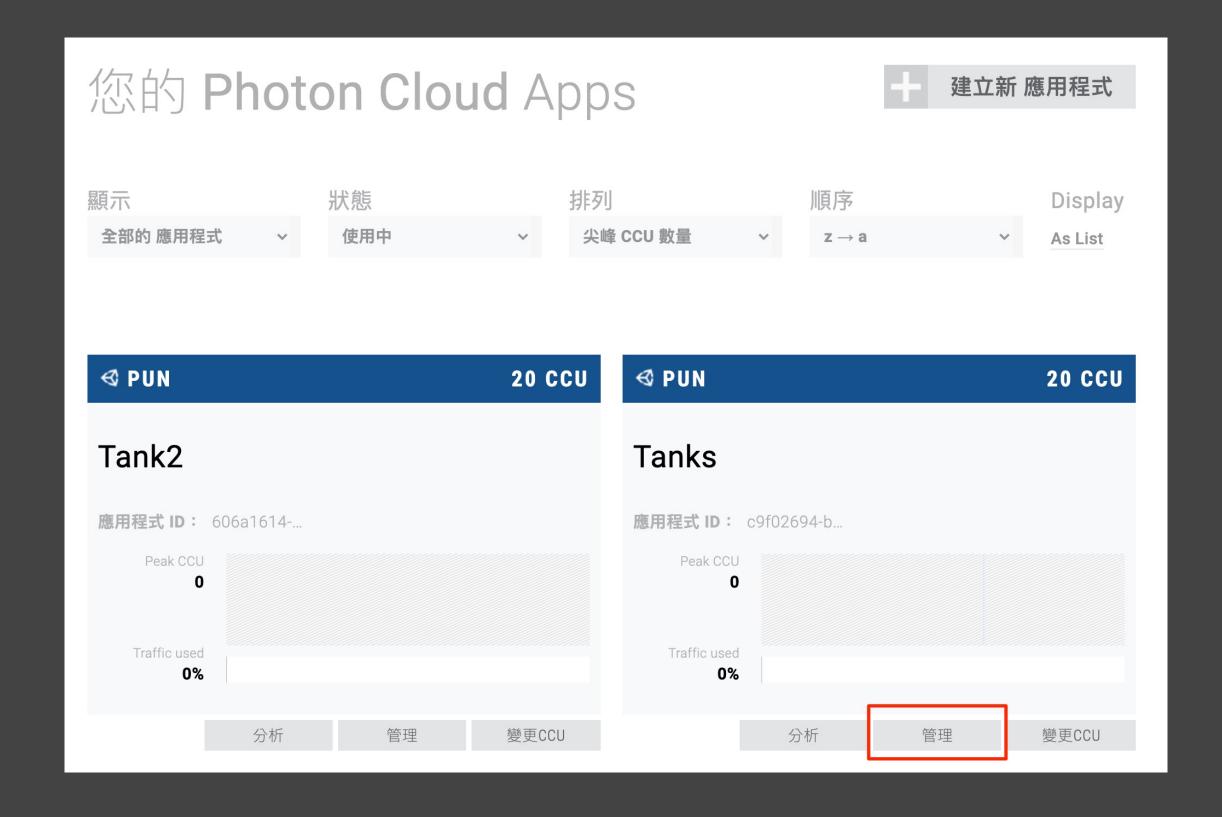
https://doc.photonengine.com/zh-tw/pun/current/gameplay/web-extensions/webrpc https://doc.photonengine.com/en-us/realtime/current/gameplay/web-extensions/webhooks

Photon WebRPC

- 在客戶端, Photon WebRPC 必須連接到主伺服器或遊戲伺服器後才可使用
- 它需要一個URI路徑字符串(又稱WebRPC方法名稱)和一個包含要發送 給網絡服務的數據的第二個參數(又稱WebRPC參數)
- 這兩個參數可以傳遞給 PhotonNetwork. WebRPC 方法

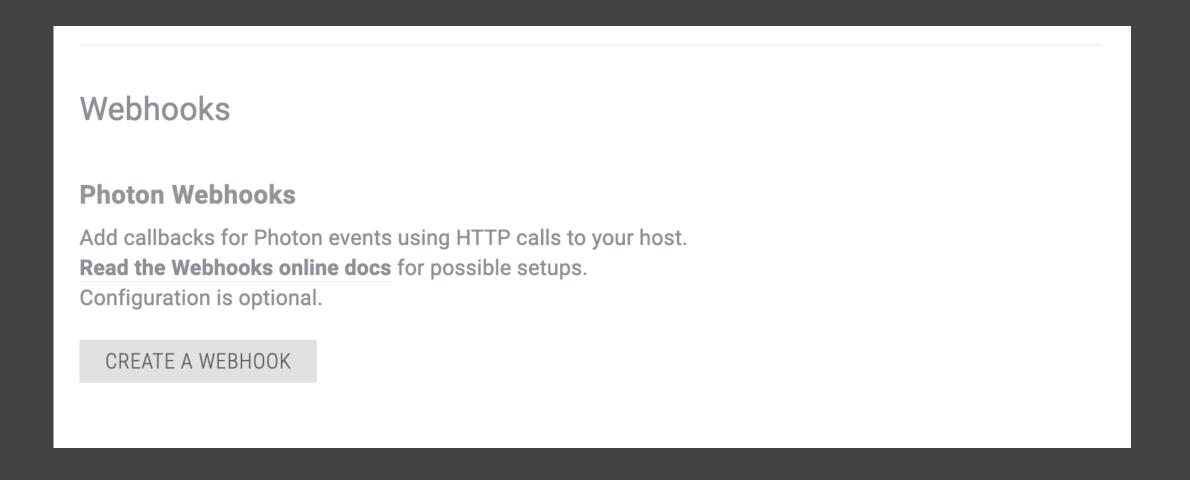
Photon Cloud 設定

- 開啟Photon Dashboard,點選"管理"按鈕
 - https://dashboard.photonengine.com/zh-TW/



Photon Cloud 設定

- 將 ngrok 產生的 url 填到 BaseUrl
- 以及填上其他 API Path





Authentication URL

https://9024-59-127-47-160.ngrok.io/api/auth/login

Reject all clients if not available.

EDIT

or Delete

Add a new authentication provider for

STEAM

FACEBOOK

FACEBOOK GAMING

OCULUS

HTC VIVE

EPIC

Webhooks

Photon Webhooks

Add callbacks for Photon events using HTTP calls to your host.

Read the Webhooks online docs for possible setups.

Keys Values

BaseUrlhttps://9024-59-127-47-160.ngrok.ioHasErrorInfofalseIsPersistenttrueAsyncJointrueCustomHttpHeaders{ 'X-Origin': 'Photon' }

FDII

or Delete

WebRPC Example Client Side TankShooting.cs

```
private void Fire ()
   // Set the fired flag so only Fire is only called once.
    m Fired = true;
    // Create an instance of the shell and store a reference to it's rigidbody.
    Rigidbody shellInstance =
        Instantiate (m Shell, m FireTransform.position, m FireTransform.rotation) as Rigidbody;
    photonView.RPC("FireOther", RpcTarget.Others, m FireTransform.position);
    // Set the shell's velocity to the launch force in the fire position's forward direction.
    shellInstance.velocity = m CurrentLaunchForce * m FireTransform.forward;
    // Change the clip to the firing clip and play it.
    m ShootingAudio.clip = m FireClip;
    m ShootingAudio.Play ();
    // Reset the launch force. This is a precaution in case of missing button events.
    m CurrentLaunchForce = m MinLaunchForce;
    m FireTimes++;
    var parameters = new Dictionary<string, object>
        { "score", m FireTimes }
    PhotonNetwork. WebRpc("api/scores", parameters);
```

WebRPC Example Client Side TankShooting.cs

```
public override void OnWebRpcResponse(OperationResponse operationResponse)
   if (operationResponse.ReturnCode != 0) {
       Debug.Log("WebRPC 操作失敗. Response: " + operationResponse.ToStringFull());
       return;
   WebRpcResponse webRpcResponse = new WebRpcResponse (operationResponse);
   if (webRpcResponse.ResultCode != 0)
       Debug.Log("WebRPC '" + webRpcResponse.Name + "發生問題. Error: " +
webRpcResponse.ResultCode + " Message: " + webRpcResponse.Message);
       return;
    // 列出回傳參數值,像是 排名、訊息等
   var parameters = webRpcResponse.Parameters;
    var message = parameters
        .Aggregate("Leaderboard: \n", (current, pair) =>
           current + $"User({pair.Key}): Score: {pair.Value}\n");
   Debug.Log(message);
```

WebRPC Example Server Side

```
namespace TankServer.Requests;

public class ScoreRequest
{
   public string? AppId { get; set; }
   public string? AppVersion { get; set; }
   public string? Region { get; set; }
   public string? UserId { get; set; }
   public int score { get; set; }
}
```

```
namespace TankServer.Controllers;
                                              WebRPC Example
[Route("api/[controller]")]
[ApiController]
public class ScoresController : ControllerBase
                                                       Server Side
 private readonly TankContext _context;
 public ScoresController(TankContext context)
    context = context;
  [HttpPost]
 public async Task<PhotonResult> post([FromBody] ScoreRequest request)
   var userId = int.Parse(request.UserId!);
   var player = await _context.Players
     .Where(p => p.Id == userId)
     .FirstOrDefaultAsync();
   if (player == null)
     return new PhotonResult
       ResultCode = 1,
       Message = "Not Login"
   // 儲存到資料庫
   player.Score = request.score;
   await _context.SaveChangesAsync();
   // Leaderboard
   var players = await _context.Players
     .Take(10)
     .OrderByDescending(p => p.Score)
     .ToListAsync();
   var leaderboard = players
     .ToDictionary<Player, string, object>(p => p.Id.ToString(), p => p.Score);
    return new PhotonResult
     ResultCode = 0,
     Data = leaderboard
```