



Loxodon Framework Connection

license	MIT
release	v2.0.0

Developed by Clark

Requires Unity 2018.4 or higher.

This is a network connection component, implemented using TcpClient, supports IPV6 and IPV4, automatically recognizes the current network when connecting with a domain name, and preferentially connects to the IPV4 network.

Installation

Install via OpenUPM (recommended)

[OpenUPM](#) can automatically manage dependencies, it is recommended to use it to install the framework.

Requires [nodejs](#)'s npm and openupm-cli, if not installed please install them first.

```
# Install openupm-cli, please ignore if it is already installed.  
npm install -g openupm-cli
```

```
#Go to the root directory of your project  
cd F:/workspace/New Unity Project
```

```
#Install loxodon-framework-connection  
openupm add com.vovgou.loxodon-framework-connection
```

Install via Packages/manifest.json

Modify the Packages/manifest.json file in your project, add the third-party repository "package.openupm.com"'s configuration and add "com.vovgou.loxodon-framework-connection" in the "dependencies" node.

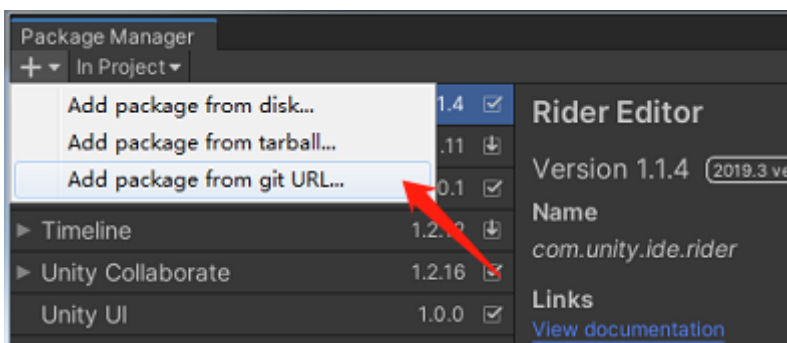
Installing the framework in this way does not require nodejs and openm-cli.

```
{
  "dependencies": {
    ...
    "com.unity.modules.xr": "1.0.0",
    "com.vovgou.loxodon-framework-connection": "2.0.0"
  },
  "scopedRegistries": [
    {
      "name": "package.openupm.com",
      "url": "https://package.openupm.com",
      "scopes": [
        "com.vovgou",
        "com.openupm"
      ]
    }
  ]
}
```

Install via git URL

After Unity 2019.3.4f1 that support path query parameter of git package. You can add <https://github.com/vovgou/loxodon-framework.git?path=Loxodon.Framework/Assets/LoxodonFramework> to Package Manager

- Loxodon.Framework.Connection: <https://github.com/vovgou/loxodon-framework.git?path=Loxodon.Framework.Connection/Assets/LoxodonFramework/Connection>



Install via *.unitypackage file

Download Loxodon.Framework.Connection.unitypackage, import them into your project.

- [Releases](#)

Quick Start

```

IConnector<Request, Response, Notification> connector;
ISubscription<EventArgs> eventSubscription;
ISubscription<Notification> messageSubscription;
async void Start()
{
    //Create TcpChannel
    var channel = new TcpChannel(new DefaultDecoder(), new DefaultEncoder(), new HandshakeHandle
    channel.NoDelay = true;
    channel.IsBigEndian = true;

    //TLS encryption is optional
    channel.Secure(true, "vovgou.com", null, (sender, certificate, chain, sslPolicyErrors) =>
    {
        //Verify self-signed certificates
        if (sslPolicyErrors == SslPolicyErrors.None)
            return true;

        if (certificate != null && certificate.GetCertHashString() == "3C33D870E7826E9E83B4476D6
            return true;

        return false;
    });

    //Create Connector
    connector = new DefaultConnector<Request, Response, Notification>(channel);
    connector.AutoReconnect = true;

    //Subscribe to events
    eventSubscription = connector.Events().ObserveOn(SynchronizationContext.Current).Subscribe((
    {
        Debug.LogFormat("Received Event:{0}", e);
    });

    //Subscribe to notification messages
    messageSubscription = connector.Received().Filter(message =>
    {
        //Filter messages
        if (message.CommandID > 0 && message.CommandID <= 100)
            return true;
        return false;
    }).ObserveOn(SynchronizationContext.Current).Subscribe(message =>
    {
        Debug.LogFormat("Received Notification:{0}", message);
    });

    //Send a notification message
    Notification notification = new Notification();
    notification.CommandID = 10;
    notification.ContentType = 0;
    notification.Content = Encoding.UTF8.GetBytes("this is a notification.");
    await connector.Send(notification);
}

```

```

//Send a request message and receive a response message.
Request request = new Request();
request.CommandID = 20;
request.ContentType = 0;
request.Content = Encoding.UTF8.GetBytes("this is a request.");
Response response = await connector.Send(request);
}

```

How to create a self signed certificate

- Download Makecert.exe from [here](#)

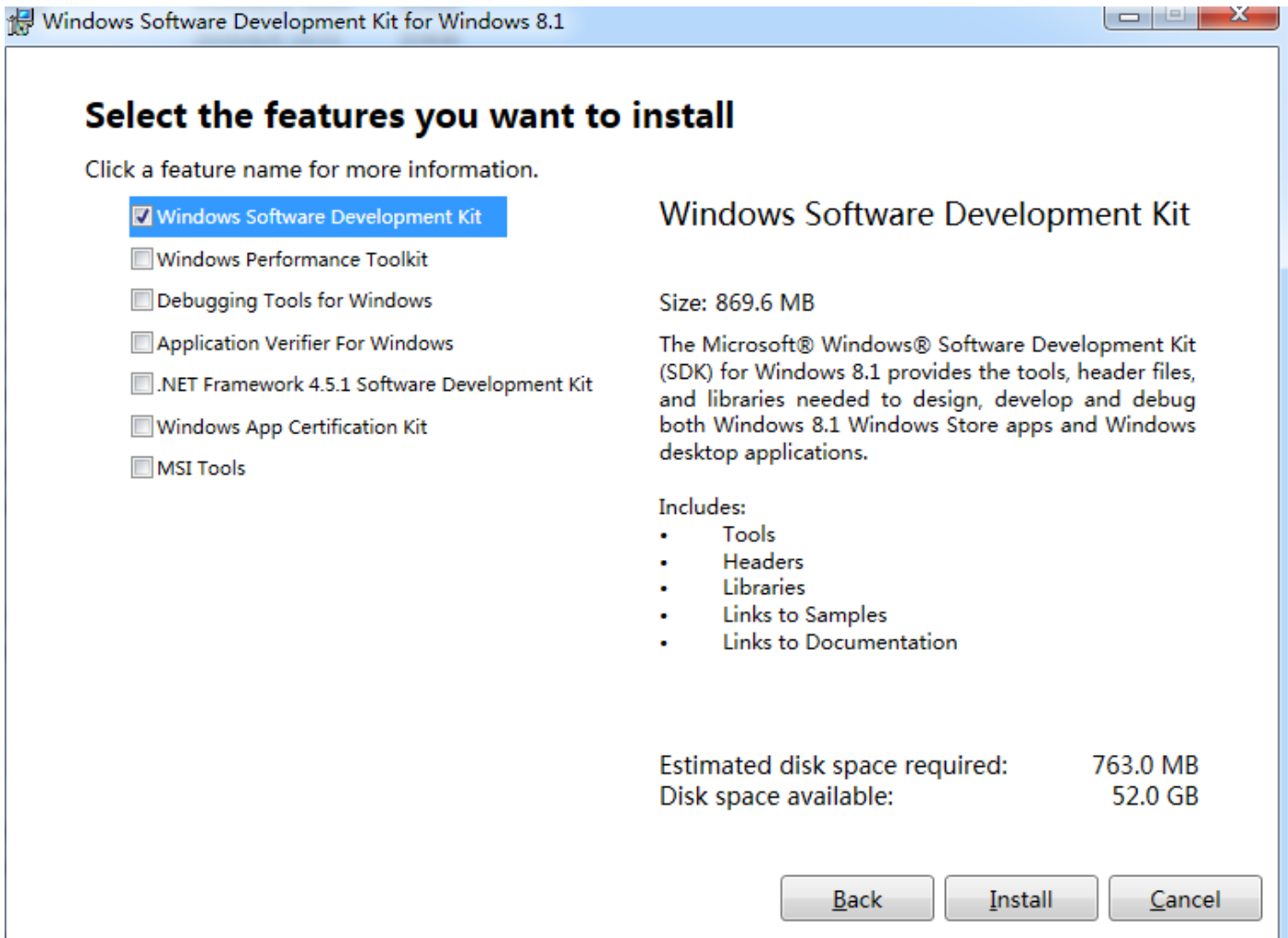
developer.microsoft.com/en-us/windows/downloads/sdk-archive/

技术 常用 服务器安装 人工智能 Unity3D 区块链 Car Buy Code, Scripts, ... Google Earth Google Translate Maven Repository...

Earlier releases

Release		
Windows 8.1 SDK	Released in October 2013, this SDK can be used to create Windows apps (for Windows 8.1 or later) using web technologies, native, and managed code; or desktop apps that use the native or managed programming model.	INSTALL SDK >
Windows Phone 8.1 development tools	The Windows Phone 8.1 development tools are installed with Visual Studio Community 2015 with Update 2. Features introduced in Update 2 include new emulators and universal app templates.	GET VISUAL STUDIO >
Windows Phone 8.1 Emulators	The Windows Phone 8.1 Emulators package adds six emulator images to an existing installation of Visual Studio 2013 so you can test how apps will work on phones running Windows Phone 8.1. (Requires Visual Studio	INSTALL EMULATORS >

- Install Window 8.1 SDK



- Add "C:\Program Files (x86)\Windows Kits\8.0\bin\x64" to the operating system environment variable PATH
- Creating self signed certificates

```
makecert -r -pe -n "CN=vovgou.com" -b 01/01/2020 -e 01/01/2120 -sky exchange -a sha256 -len  
pvk2pfx.exe -pvk vovgou.pvk -spc vovgou.cer -pfx vovgou.pfx
```

- Use self-signed certificates

```
TextAsset textAsset = Resources.Load<TextAsset>("vovgou.pfx");  
X509Certificate2 cert = new X509Certificate2(textAsset.bytes, "123456");  
  
var server = new Server(port);  
server.Secure(true, cert, (sender, certificate, chain, sslPolicyErrors) =>  
{  
    //The server does not verify the client's certificate and returns true  
    return true;  
});
```

For the complete makecert.exe parameter reference [click here](#)

Contact Us

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