如何将前后端部署至服务器

Written by LCB 2024.8.1

0x10 前期准备

在部署之前,我们先需要将前后端打包。

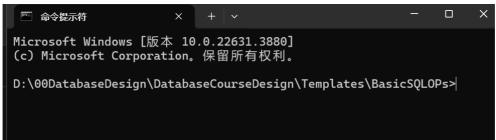
0x11 前端打包

前端打包较为简单,将front-end文件夹压缩即可,建议使用bandizip软件将其打包成.tar格式。

0x12 后端打包

进入Templates\BasicSQLOPs文件夹,在空白处 右键-在终端中打开:





打开后,输入这条指令即可:

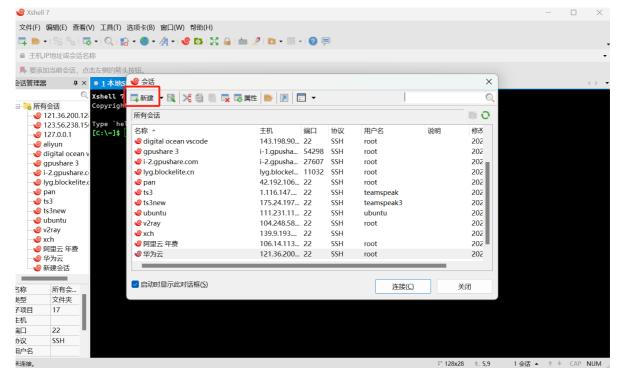
dotnet publish BasicSQLOPs.sln -c Release -r linux-x64 --self-contained true

WebAppTest -> D:\00DatabaseDesign\DatabaseCourseDesign\Templates\WebAppTest\bin\Release\net8.0\linux-x64\WebAppTest.dll
WebAppTest -> D:\00DatabaseDesign\DatabaseCourseDesign\Templates\WebAppTest\bin\Release\net8.0\linux-x64\publish\
D:\00DatabaseDesign\DatabaseCourseDesign\Templates\BasicSQLOPs>

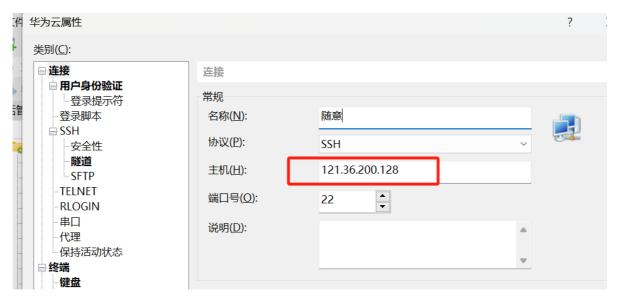
看见上图信息后就说明已经打包完成。

0x13 软件准备

下载群内的 Xshell Plus-7.0.0033r-Modified-Green.zip 并解压缩,运行!)绿化处理.bat运行完成后,打开文件夹内的 Xshell.exe,会弹出如下窗口,点击新建



填入如下信息:



然后点击左侧的 用户身份验证,填入如下信息:



```
用户名@密码:
lcboPer@lcblcb
zynoPer@zynzyn
hjxoPer@hjxhjx
```

然后点击下方**连接**

连接成功后可以使用 Is 指令,可以看见已经存在一个 webAppTest 文件夹,说明连接成功。

```
Xshell 7 (Build 0151)
Copyright (c) 2020 NetSarang Computer, Inc. All rights reserved.

Type 'help' to learn how to use Xshell prompt.
[C:\~]$

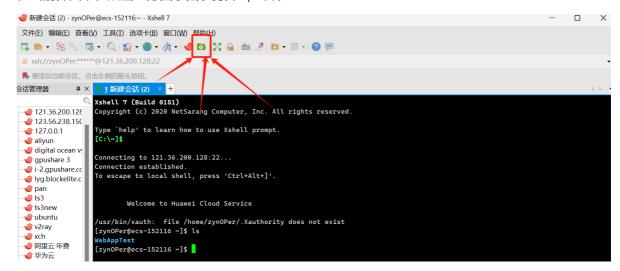
Connecting to 121.36.200.128:22...
Connection established.
To escape to local shell, press 'Ctrl+Alt+]'.

Welcome to Huawei Cloud Service

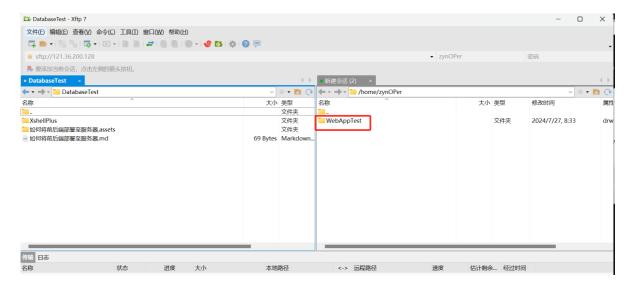
/usr/bin/xauth: file /home/zynOPer/.Xauthority does not exist
[zynOPer@ecs-152116 ~]$ ls
WebAppTest
```

0x20 后端上传

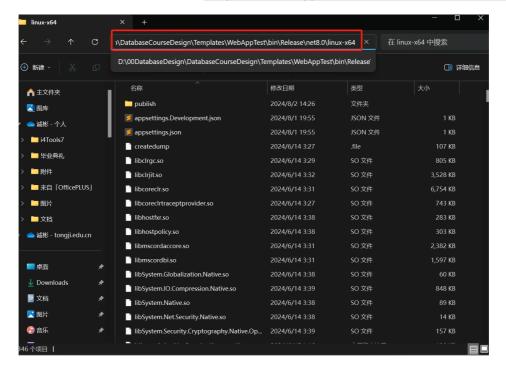
在当前界面下,点击上方图示图表打开ftp终端:



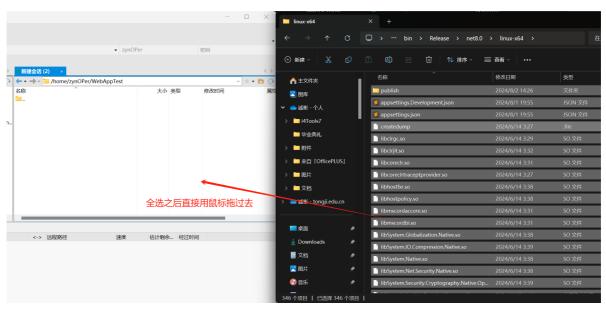
打开后看见如下图界面,双击进入WebAppTest文件夹:



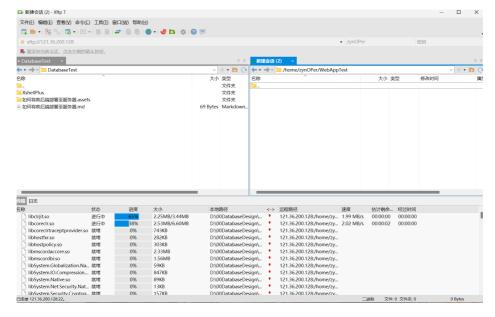
然后打开 **0x12** 步骤中后端打包的文件夹: |Templates\WebAppTest\bin\Release\net8.0\linux-x64|



将文件夹内内容全选后,拖入ftp终端:



等待上传完毕:



上传完成后,回到ssh界面,使用 cd WebAppTest 指令进入文件夹并使用 ls 指令查看内容:

```
[zynOPer@ecs-152116 ~]$ cd WebAppTest/
[zynOPer@ecs-152116 webAppTest]$ ls
appsettings.Development.json
appsettings.Json
createdump
libclrgc.so
libclrgit.so
libcoreclr.so
System.Collections.Jull
libcoreclr.so
System.Collections.NonGeneric.dl
System.Collections.NonGeneric.dl
System.Collections.NonGeneric.dl
libcoreclr.so
System.ComponentModel.DataAnnotations.dll
libnostfxr.so
System.ComponentModel.DataAnnotations.dll
libnostfxr.so
System.ComponentModel.EventBasedAsync.dll
System.ComponentModel.Frimitives.dll
libnostpolicy.so
System.ComponentModel.Frimitives.dll
libsystem.Globalization.Native.so
System.ComponentModel.Frimitives.dll
libSystem.Globalization.Native.so
System.ComponentModel.Tymitives.dll
libSystem.Net.Security.Cryptography.Native.OpenSsl.so
Microsoft.AspNetCore.Authentication.Abstractions.dll
Microsoft.AspNetCore.Authentication.BearerToken.dll
Microsoft.AspNetCore.Authentication.BearerToken.dll
Microsoft.AspNetCore.Authentication.Condiss.dll
Microsoft.AspNetCore.Authentication.Openschen.dll
Microsoft.AspNetCore.Omponents.Authorization.dll
Microsoft.AspNetCore.Omponents.Authorization.dll
Microsoft.AspNetCore.Omponents.Authorization.dll
Microsoft.AspNetCore.Components.dll
Microsoft.AspNetCore.Components.dll
Microsoft.AspNetCore.Components.dll
Microsoft.AspNetCore.Co
```

可以看见上传成功。

然后使用 sudo /usr/bin/dotnet /home/zynOPer/WebAppTest/WebAppTest.dll 指令

(其他xxxOPer请自行替换)

```
× 2 新建会话 (2)
[zynOPer@ecs-152116 WebAppTest]$ sudo /usr/bin/dotnet /home/zynOPer/WebAppTest/WebAppTest.dll
Data Source=localhost:1521/ORCL; User Id=BAMB00; Password=123456;
Error: ORA-01017: invalid username/password; logon denied
nttps://docs.oracle.com/error-help/db/ora-01017/
 rror Code: -2147467259
               at OracleInternal.ConnectionPool.PoolManager`3.Get(ConnectionString csWithDiffOrNewPassw, Boolean bGetForApp, Oracle
Details:
 ionnection connRefforCriteria, String affinityInstanceName, Boolean bForceMatch, Boolean bAsync)
at OracleInternal.ConnectionPool.OraclePoolManager.Get(ConnectionString csWithNewPassw, Boolean bGetForApp, OracleConnection
 at OracleInternal.CommectionPool.OraclePoolnanager.Get(CommectionString Cswitime@Wassw, Bootean BeetPorApp, GracteCommectionFoonnRefForCriteria, String affinityInstanceName, Boolean bForceMatch, Boolean bAsync)
at OracleInternal.ConnectionPool.OracleConnectionDispenser'3.Get(ConnectionString cs, PM conPM, ConnectionString pmCS, Oracle
paqueString securedPassw, OracleOpaqueString securedProxyPassw, OracleConnection connRefForCriteria, Boolean bAsync)
at Oracle.ManagedDataAccess.Client.OracleConnectionInternal.OpenInternal(Boolean bAsync)
    at Oracle.ManagedDataAccess.Client.OracleConnectionInternal.Open()
    at Oracle.ManagedDataAccess.Client.OracleConnection.Open()
    at SQLOperation.PublicAccess.Templates.SQLManager.Connection.ConnectSQL() in D:\00DatabaseDesign\DatabaseCourseDesign\Templat
 s\BasicSQLOPs\PublicAccess\Templates\SQLManager\Connection.cs:line 35
ORA-01017: invalid username/password; logon denied https://docs.oracle.com/error-help/db/ora-01017/
        Microsoft.AspNetCore.StaticFiles.StaticFileMiddleware[16]
        The WebRootPath was not found: /home/zynOPer/WebAppTest/wwwroot. Static files may be unavailable.
        Microsoft.Hosting.Lifetime[14]
        Now listening on: http://0.0.0.0:5000 Microsoft.Hosting.Lifetime[0]
        Application started. Press Ctrl+C to shut down.
        Microsoft.Hosting.Lifetime[0]
        Hosting environment: Production Microsoft.Hosting.Lifetime[0]
        Content root path: /home/zynOPer/WebAppTest
```

注:此处由于之前测试了,所以不会要求输入密码,如果要求输入密码,输入连接时的密码即可(如:zynzyn),另外,此处输入密码是是没有回显的,相信自己,你不会输错的(玫瑰。

可以看见,已经运行在了5000端口上,为了避免端口占用,请修改 webAppTest-Program.cs 中的如下内容:

```
用户名-端口:
lcboPer-5001
zynoPer-5002
hjxoPer-5003
注意,请先修改再上传!
```

至此后端部署完毕,要注意的是,xshell不能关闭,不然后端会自动停止运行。

(虽然有方法让他在后台运行,但是为了防止长时间占用端口,此处不教)

0x30 前端部署

目前由于一些奇怪的版本问题,建议大家前端还是在本地进行运行,前端中调用的api端口改为

```
http://121.36.200.128:5001(或5002/5003)/api/xxx
```

即可。