

# xshell工具使用以及.net core项目发布

**目的：**将本地软件发布到linux服务器，或者传输本地文件到linux

## 一、XShell简介

xshell 是一个强大的安全终端模拟软件，它支持SSH1,SSH2，以及Microsoft Windows平台的TELNET协议。

xshell 可以在Windows界面下用来访问远端不同系统下的服务器，从而比较好的达到远程控制终端的目的。

由于在虚拟机中操作 Linux 系统需要频繁切换鼠标，缺乏个性化设置，不支持中文显示，所以我们将使用 xshell 来连接并使用安装好Linux系统的虚拟机。

以上介绍来源简书作者：若兮缘

链接：<https://www.jianshu.com/p/4716cc35750f>

## 二、XShell安装

这里因为是个人回顾学习，所以安装了学校学生免费使用版本

下载地址：[家庭/学校免费 - NetSarang Website \(xshell.com\)](http://www.xshell.com/)

填写自己的邮箱下载

	XMANAGER	XSHELL	XFTP	XLPD
免费只供非商业用途。				
姓名（必填） <input type="text"/>				
邮件（必填） <input type="text"/>				
<input type="checkbox"/> 两者 <input type="checkbox"/> 只需Xshell <input type="checkbox"/> 只需Xftp				
<input type="button" value="下载"/>				
注意：需要一个有效的电子邮件地址。下载链接将发送到您的邮箱。				



### 免费使用条款

NetSarang Computer, Inc. 免费许可 Xshell 和 Xftp 仅用于非商业用途。任何将我们免费的许可用于商业目的的行为都是严格违反我们的免费最终用户许可协议中规定的条款的。如果您希望将 Xshell 或 Xftp 用于商业用途，我们鼓励您购买许可证，并帮助我们进一步开发我们的软件。

感谢您对 Xshell 7 的关注。请点击以下链接开始下载您的软件：

<https://www.xshell.com/zh/downloading/?token=YVFaqXkzZXVmeVFscV9vU3h3Ykxjd0BKsZjhRGh1THZ2OUZxakN0NlhwaZBR>

此链接将于 July 30, 2022 到期

如果您不需要下载链接，请通过 [support@xshell.com](mailto:support@xshell.com) 联系我们的支持团队，以便在之后与 Xshell 7 相关的任何邮件中删除您的邮件地址。

#### 请表达您的支持

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请访问我们的技术支持页面。

我们通过电子邮件为免费许可提供有限的技术支持。如果您无法通过我们的技术支持页面解决您的问题，请发送电子邮件至 [support@xshell.com](mailto:support@xshell.com)。

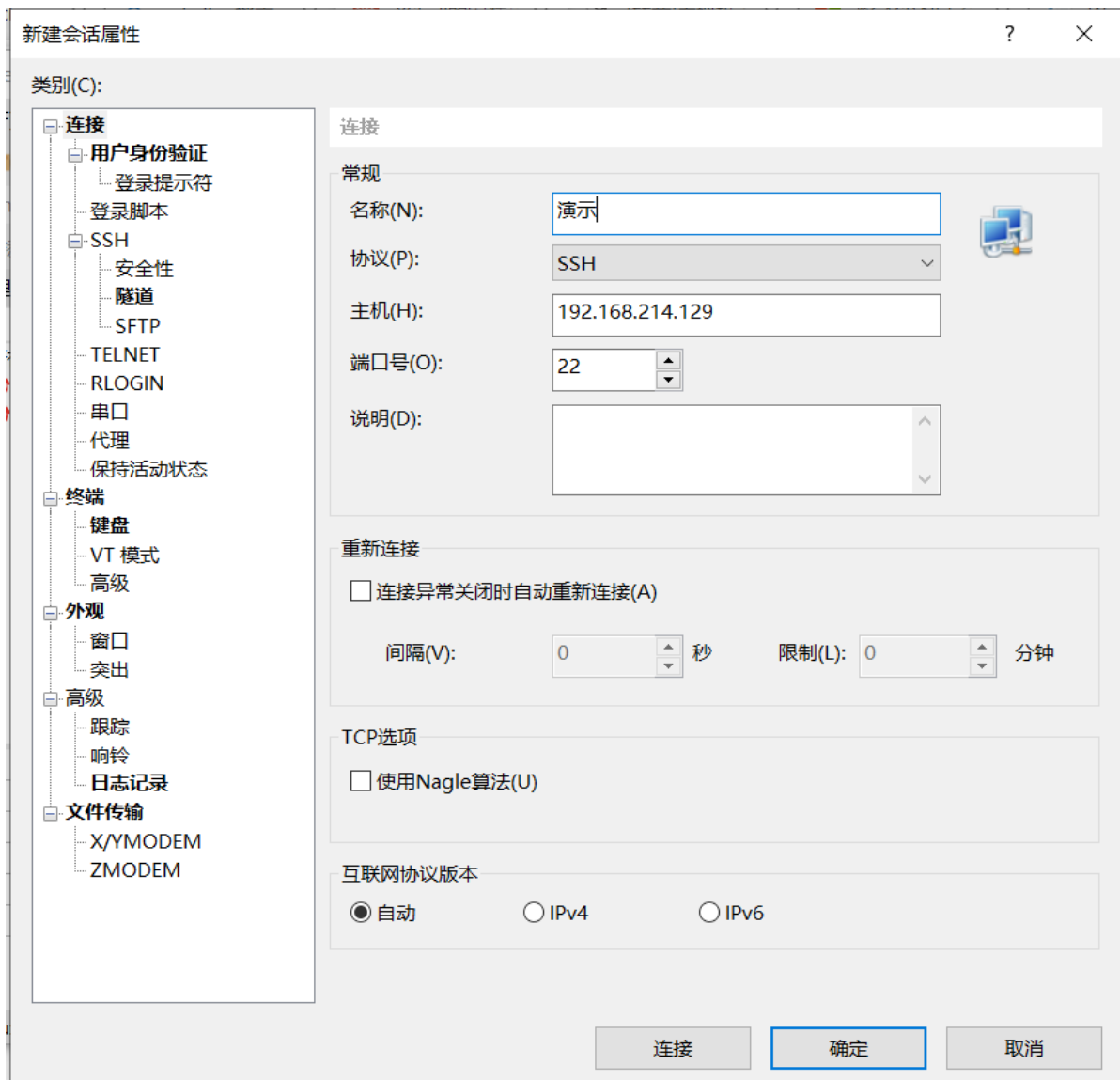


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电子邮件: [sales@xshell.com](mailto:sales@xshell.com)

安装过程不做讲解，只要注意一下安装位置即可

## 1. 远程连接

官方动态演示: [XShell - NetSarang Website](#)



2.0选择导航菜单的文件 --> 新建，输入名称和主机IP，协议默认SSH，端口默认22

3.0如果不知道主机IP可以登录虚拟机的Linux系统，输入命令 `ifconfig` 查看 (inet addr)

```
linux@localhost:~  
File Edit View Search Terminal Help  
[linux@localhost ~]$ ifconfig  
ens160: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.214.129 netmask 255.255.255.0 broadcast 192.168.214.255  
    inet6 fe80::f5f1:6044:3695:698c prefixlen 64 scopeid 0x20<link>  
    ether 00:0c:29:a2:00:5b txqueuelen 1000 (Ethernet)  
    RX packets 436229 bytes 619073703 (590.3 MiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 57647 bytes 3264304 (3.1 MiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
    inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 1000 (Local Loopback)  
    RX packets 12 bytes 992 (992.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 12 bytes 992 (992.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
virbr0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500  
    inet 192.168.122.1 netmask 255.255.255.0 broadcast 192.168.122.255  
    ether 52:54:00:45:ce:d2 txqueuelen 1000 (Ethernet)  
    RX packets 0 bytes 0 (0.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0
```

4.0或者直接查看NewWork

Cancel

Wired

Apply

Details

Identity

IPv4

IPv6

Security

Link speed 10000 Mb/s

IPv4 Address 192.168.214.129

IPv6 Address fe80::f5f1:6044:3695:698c

Hardware Address 00:0C:29:A2:00:5B

Default Route 192.168.214.2

DNS 192.168.214.2

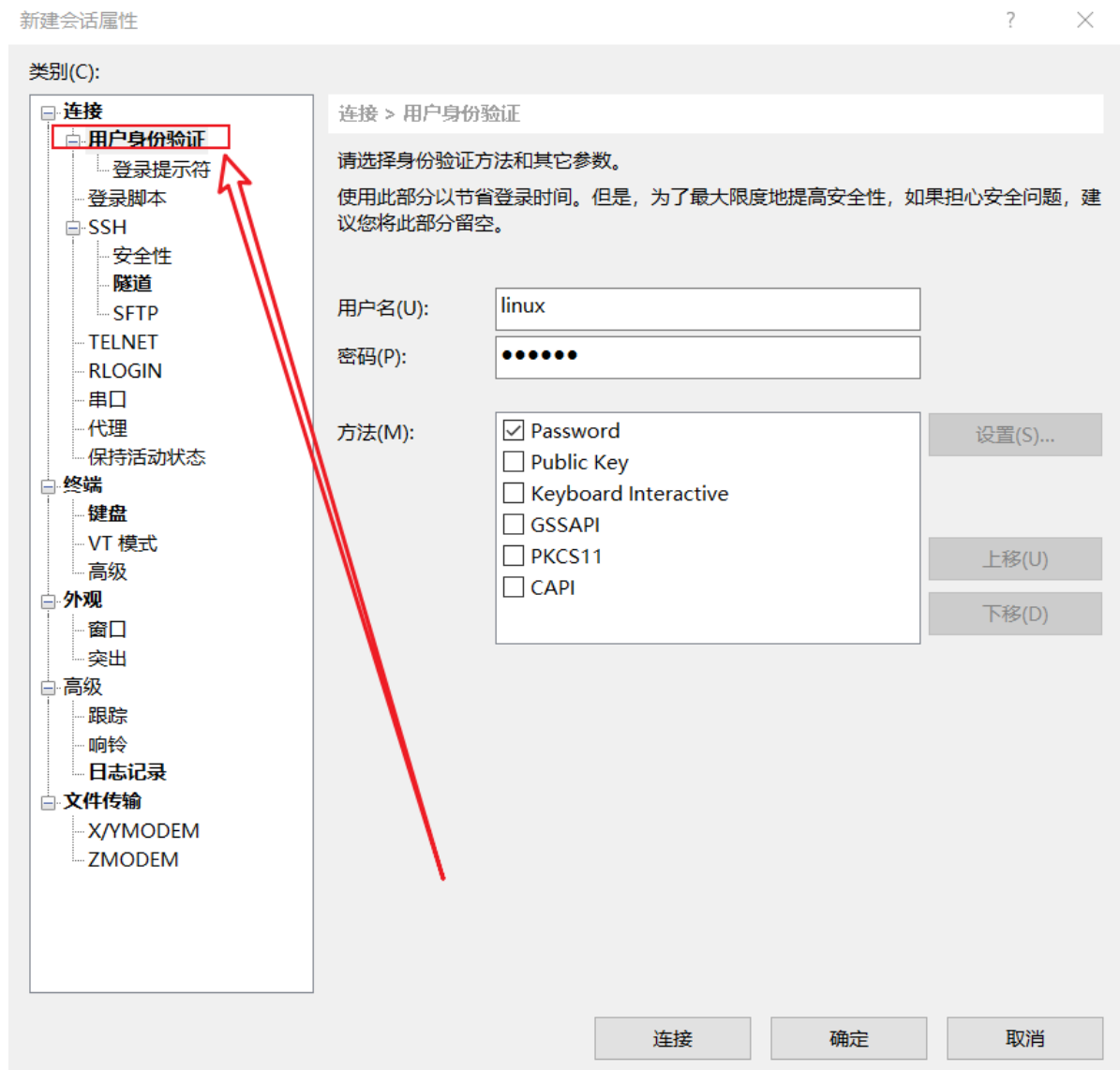
☒ Connect automatically

☒ Make available to other users

☐ Restrict background data usage  
Appropriate for connections that have data charges or limits.

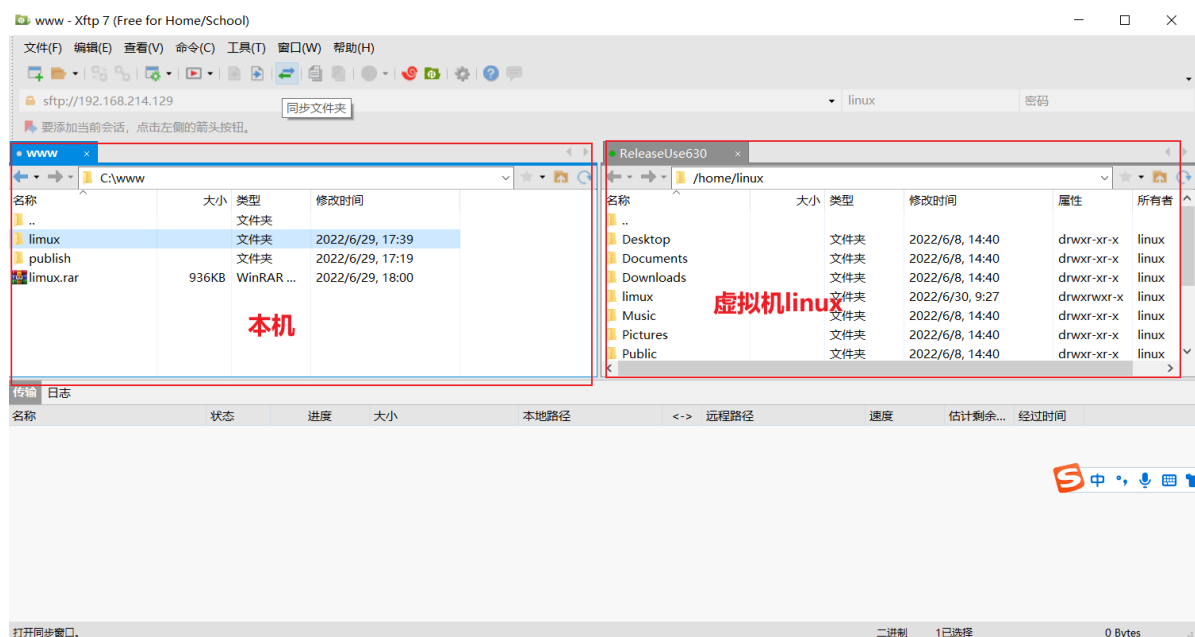
Remove Connection Profile

## 5.0 用户身份验证



### 1.1 传输文件

在 Linux 系统如果想要与本机传输文件，推荐安装与 xshell 配套的 xftp 工具。好用



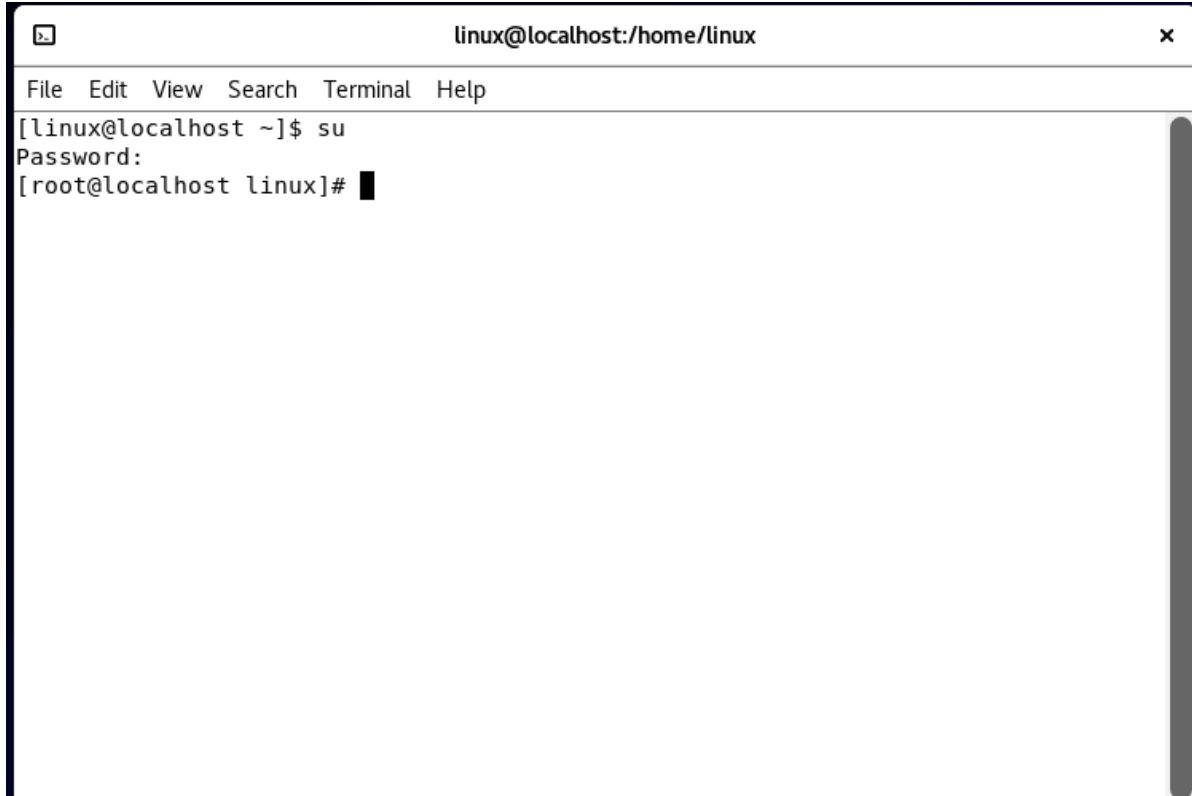
## 三、.NET CORE 项目发布到linux

## 1. 发布.NET Core项目

发布项目前需要给linux安装运行环境，Core 3.1或者更高

### 1.1 终端切换到root权限

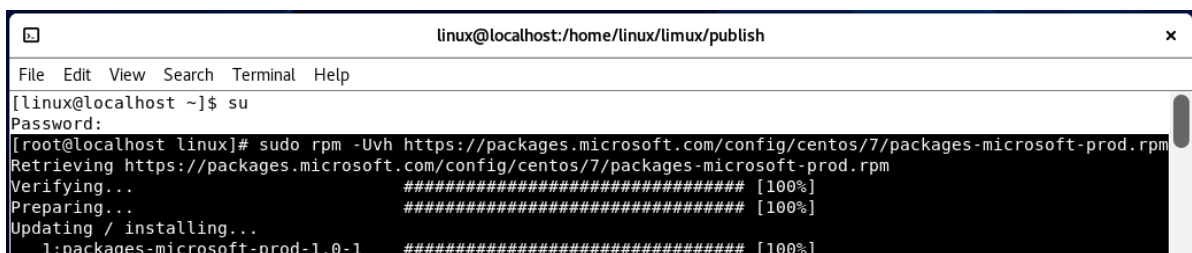
输入：su



```
linux@localhost:/home/linux
File Edit View Search Terminal Help
[linux@localhost ~]$ su
Password:
[root@localhost linux]#
```

### 1.2先注册 Microsoft 密钥；注册产品存储库；安装必需的依赖项

- 1 #注册 Microsoft 密钥。注册产品存储库。安装必需的依赖项。
- 2 `sudo rpm -Uvh https://packages.microsoft.com/config/centos/7/packages-microsoft-prod.rpm`



```
linux@localhost:/home/linux/linux/publish
File Edit View Search Terminal Help
[linux@localhost ~]$ su
Password:
[root@localhost linux]# sudo rpm -Uvh https://packages.microsoft.com/config/centos/7/packages-microsoft-prod.rpm
Retrieving https://packages.microsoft.com/config/centos/7/packages-microsoft-prod.rpm
Verifying... ##### [100%]
Preparing... ##### [100%]
Updating / installing...
 1:packages-microsoft-prod-1.0-1 ##### [100%]
```

### 1.3安装.NET Core Runtime 可根据自己的情况选择

- 1 #安装 .NET Core 运行时
- 2 `sudo yum -y install aspnetcore-runtime-3.1`

```
linux@localhost:/home/linux/linux/publish
File Edit View Search Terminal Help
[root@localhost linux]# sudo yum -y install aspnetcore-runtime-3.1
Last metadata expiration check: 0:04:40 ago on Wednesday, June 29, 2022 PM06:30:56 PDT.
Dependencies resolved.
=====
Package Arch Version Repository Size
=====
Installing:
aspnetcore-runtime-3.1 x86_64 3.1.26-1 packages-microsoft-com-prod 7.5 M
Installing dependencies:
dotnet-host x86_64 6.0.6-1 packages-microsoft-com-prod 67 k
dotnet-hostfxr-3.1 x86_64 3.1.26-1 packages-microsoft-com-prod 148 k
dotnet-runtime-3.1 x86_64 3.1.26-1 packages-microsoft-com-prod 29 M
dotnet-runtime-deps-3.1 x86_64 3.1.26-1 packages-microsoft-com-prod 2.8 k
Transaction Summary
-----
Install 5 Packages
Total download size: 36 M
Installed size: 90 M
Downloading Packages:
(1/5): dotnet-hostfxr-3.1.26-x64.rpm 345 kB/s | 148 kB 00:00
(2/5): dotnet-host-6.0.6-x64.rpm 153 kB/s | 67 kB 00:00
(3/5): dotnet-runtime-deps-3.1.26-centos.7-x64_ 24 kB/s | 2.8 kB 00:00
(4/5): aspnetcore-runtime-3.1.26-x64.rpm 5.3 MB/s | 7.5 MB 00:01
(5/5): dotnet-runtime-3.1.26-x64.rpm 171 kB/s | 29 MB 02:51
-----
Total 217 kB/s | 36 MB 02:52
packages-microsoft-com-prod 2.5 kB/s | 903 B 00:00
Importing GPG key 0x8E1229CF:
Userid : "Microsoft (Release signing) <ggpsecurity@microsoft.com>"
Fingerprint: BC52 8686 B50D 79E3 39D3 721C EB3E 94AD BE12 29CF
From : https://packages.microsoft.com/keys/microsoft.asc
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : dotnet-runtime-deps-3.1-3.1.26-1.x86_64 1/5
Installing : dotnet-host-6.0.6-1.x86_64 2/5
Installing : dotnet-hostfxr-3.1-3.1.26-1.x86_64 3/5
Installing : dotnet-runtime-3.1-3.1.26-1.x86_64 4/5
Installing : aspnetcore-runtime-3.1-3.1.26-1.x86_64 5/5
Verifying : aspnetcore-runtime-3.1-3.1.26-1.x86_64 1/5
Verifying : dotnet-host-6.0.6-1.x86_64 2/5
Verifying : dotnet-hostfxr-3.1-3.1.26-1.x86_64 3/5
Verifying : dotnet-runtime-3.1-3.1.26-1.x86_64 4/5
Verifying : dotnet-runtime-deps-3.1-3.1.26-1.x86_64 5/5
Complete!
[root@localhost linux]#
```

Installed:

aspnetcore-runtime-3.1-3.1.26-1.x86_64	dotnet-host-6.0.6-1.x86_64
dotnet-hostfxr-3.1-3.1.26-1.x86_64	dotnet-runtime-3.1-3.1.26-1.x86_64
dotnet-runtime-deps-3.1-3.1.26-1.x86_64	

Complete!

[root@localhost linux]#

## 1.4安装.NET Core SDK

- 1 #安装.NET Core SDK
- 2 sudo yum -y install dotnet-sdk-3.1

```
[root@localhost linux]# sudo yum -y install dotnet-sdk-3.1
Last metadata expiration check: 0:04:40 ago on Wednesday, June 29, 2022 PM06:30:56 PDT.
Dependencies resolved.
=====
Package Arch Version Repository Size
=====
Installing:
dotnet-sdk-3.1 x86_64 3.1.420-1 packages-microsoft-com-prod 73 M
Installing dependencies:
aspnetcore-targeting-pack-3.1 x86_64 3.1.22-1.el8.5 appstream 1.1 M
dotnet-apphost-pack-3.1 x86_64 3.1.26-1 packages-microsoft-com-prod 68 k
dotnet-targeting-pack-3.1 x86_64 3.1.22-1.el8.5 appstream 2.0 M
netstandard-targeting-pack-2.1 x86_64 6.0.0-0.6.28b3e9a06d908606704353b77882829d7f18.el8 appstream 1.5 M
Transaction Summary
-----
Install 5 Packages
Total download size: 77 M
Installed size: 238 M
Downloading Packages:
(1/5): aspnetcore-targeting-pack-3.1-3.1.22-1.el8.5 1.1 MB/s | 1.1 MB 00:01
(2/5): netstandard-targeting-pack-2.1-6.0.0-0.6.1.4 MB/s | 1.5 MB 00:01
(3/5): dotnet-apphost-pack-3.1-3.1.26-x64.rpm 122 kB/s | 68 kB 00:00
(4/5): dotnet-targeting-pack-3.1-3.1.22-1.el8.5 827 kB/s | 2.0 MB 00:02
(5/5): dotnet-sdk-3.1.420-x64.rpm 1.5 MB/s | 73 MB 00:49
-----
Total 1.5 MB/s | 77 MB 00:51
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : dotnet-apphost-pack-3.1-3.1.26-1.x86_64 1/5
Installing : netstandard-targeting-pack-2.1-6.0.0-0.6.28b3e9a06d908606704353b77882829d7f18.el8 2/5
Installing : dotnet-targeting-pack-3.1-3.1.22-1.el8.5.x86_64 3/5
Installing : aspnetcore-targeting-pack-3.1-3.1.22-1.el8.5.x86_64 4/5
Installing : dotnet-sdk-3.1-3.1.420-1.x86_64 5/5
Running scriptlet: dotnet-sdk-3.1-3.1.420-1.x86_64 5/5
This software may collect information about you and your use of the software, and send that to Microsoft.
Please visit http://aka.ms/dotnet-cli-ula for more information.
Welcome to .NET Core!

Learn more about .NET Core: https://aka.ms/dotnet-docs
Use 'dotnet --help' to see available commands or visit: https://aka.ms/dotnet-cli-docs

Telemetry
-----
The .NET Core tools collect usage data in order to help us improve your experience. It is collected by Microsoft and shared with the community. You can opt-out of telemetry by setting the DOTNET_CLI_TELEMETRY_OPTOUT environment variable to '1' or 'true' using your favorite shell.

Read more about .NET Core CLI Tools telemetry: https://aka.ms/dotnet-cli-telemetry

Configuring...
-----
A command is running to populate your local package cache to improve restore speed and enable offline access. This command takes up to one minute to complete and only runs once.
Verifying : dotnet-sdk-3.1-3.1.420-1.x86_64 5/5
Verifying : dotnet-targeting-pack-3.1-3.1.22-1.el8.5.x86_64 1/5
Verifying : dotnet-targeting-pack-3.1-3.1.22-1.el8.5.x86_64 2/5
Verifying : netstandard-targeting-pack-2.1-6.0.0-0.6.28b3e9a06d908606704353b77882829d7f18.el8.x86_64 3/5
Verifying : dotnet-apphost-pack-3.1-3.1.26-1.x86_64 4/5
Verifying : dotnet-sdk-3.1-3.1.420-1.x86_64 5/5
Installed:
aspnetcore-targeting-pack-3.1-3.1.22-1.el8.5.x86_64
dotnet-apphost-pack-3.1-3.1.26-1.x86_64
dotnet-sdk-3.1-3.1.420-1.x86_64
dotnet-targeting-pack-3.1-3.1.22-1.el8.5.x86_64
netstandard-targeting-pack-2.1-6.0.0-0.6.28b3e9a06d908606704353b77882829d7f18.el8.x86_64
Complete!
```

## 1.5查看Dotnet 版本信息

- 1 #查看Dotnet 版本信息
- 2 dotnet --version
- 3 #查看Dotnet 版本信息
- 4 dotnet --info

```
root@localhost linux# dotnet --version
3.1.420
root@localhost linux# dotnet --info
.NET Core SDK (reflecting any global.json):
Version: 3.1.420
Commit: c4a02e4c2d

Runtime Environment:
OS Name: centos
OS Version: 8
OS Platform: Linux
RID: centos.8-x64
Base Path: /usr/share/dotnet/sdk/3.1.420/

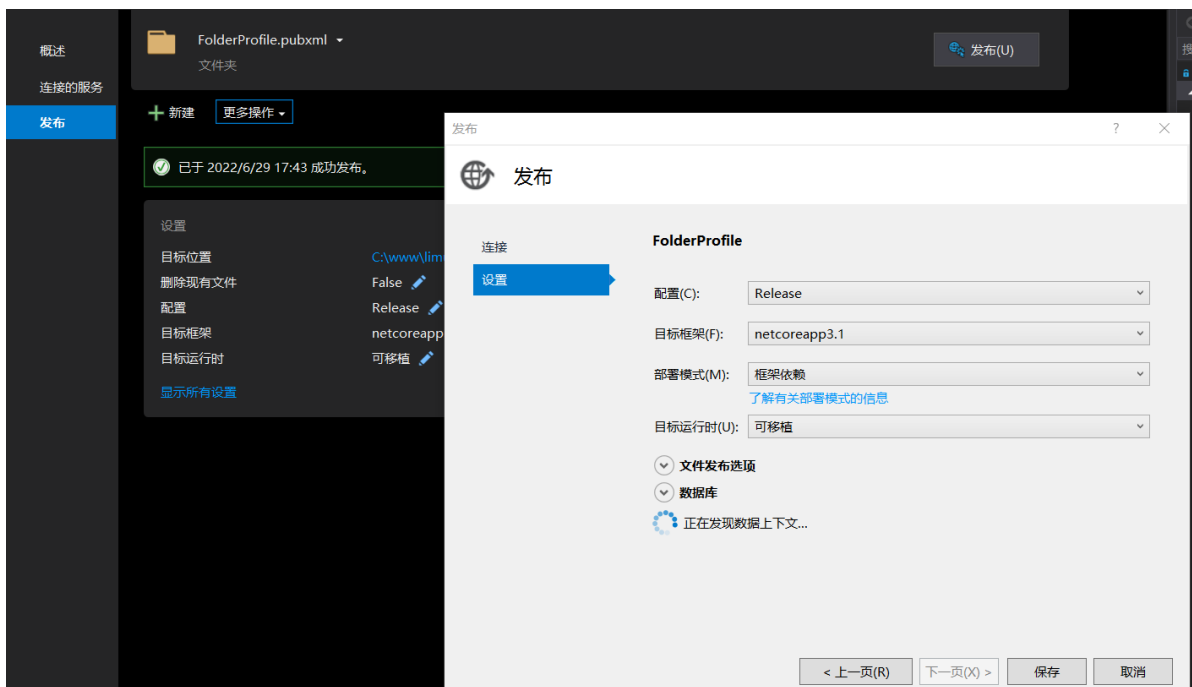
Host (useful for support):
Version: 3.1.26
Commit: dae24f14e7

.NET Core SDKs installed:
3.1.420 [/usr/share/dotnet/sdk]

.NET Core runtimes installed:
Microsoft.AspNetCore.App 3.1.26 [/usr/share/dotnet/shared/Microsoft.AspNetCore.App]
Microsoft.NETCore.App 3.1.26 [/usr/share/dotnet/shared/Microsoft.NETCore.App]

To install additional .NET Core runtimes or SDKs:
https://aka.ms/dotnet-download
```

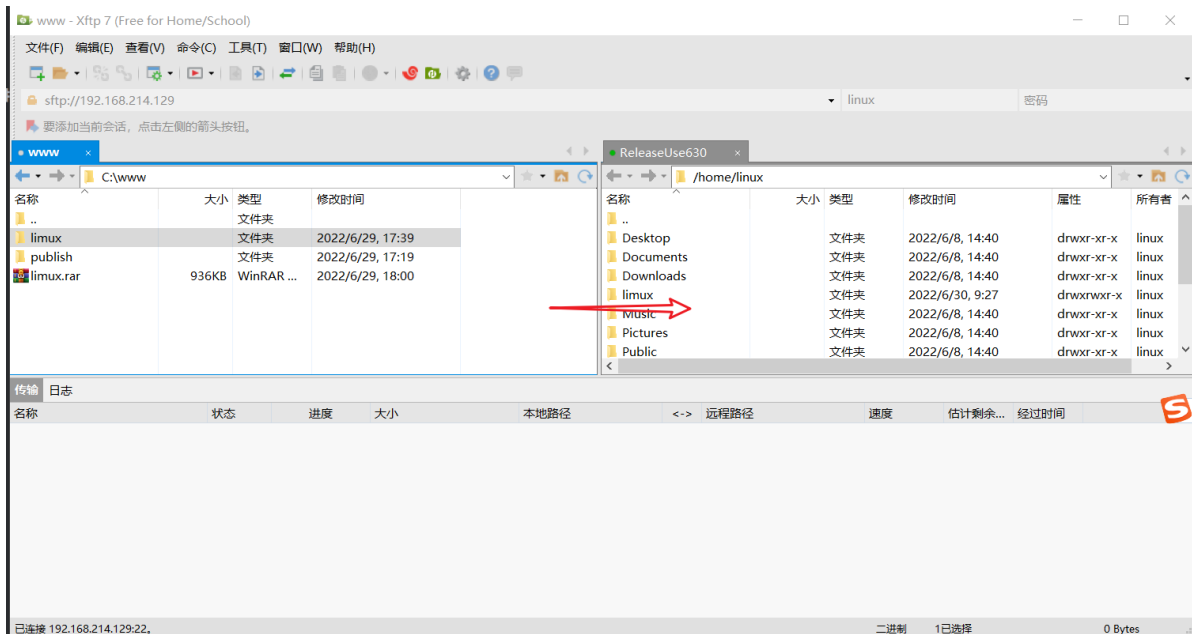
## 1.6发布项目到文件夹



## 1.7使用XFTP传输文件到linux

推荐博客：[本地文件上传到Linux服务器的几种方法](#)世界更美好的技术博客51CTO博客





## 1.8进入要发布的目录

```
1 cd /home/linux/linux/publish
2 ls
```

```
[root@localhost linux]# cd /home/linux/linux/publish
[root@localhost publish]# ls
appsettings.Development.json      ReleaseWindowAndLinux.runtimeconfig.json
appsettings.json                  ReleaseWindowAndLinux.Views.dll
ReleaseWindowAndLinux.deps.json   ReleaseWindowAndLinux.Views.pdb
ReleaseWindowAndLinux.dll         web.config
ReleaseWindowAndLinux.exe         wwwroot
ReleaseWindowAndLinux.pdb
```

## 1.9发布dll

```
1 # dll文件根据实际需求更改 端口需求更改
2 dotnet ReleaseWindowAndLinux.dll --urls="http://*:8001" --
  environment=Production
```

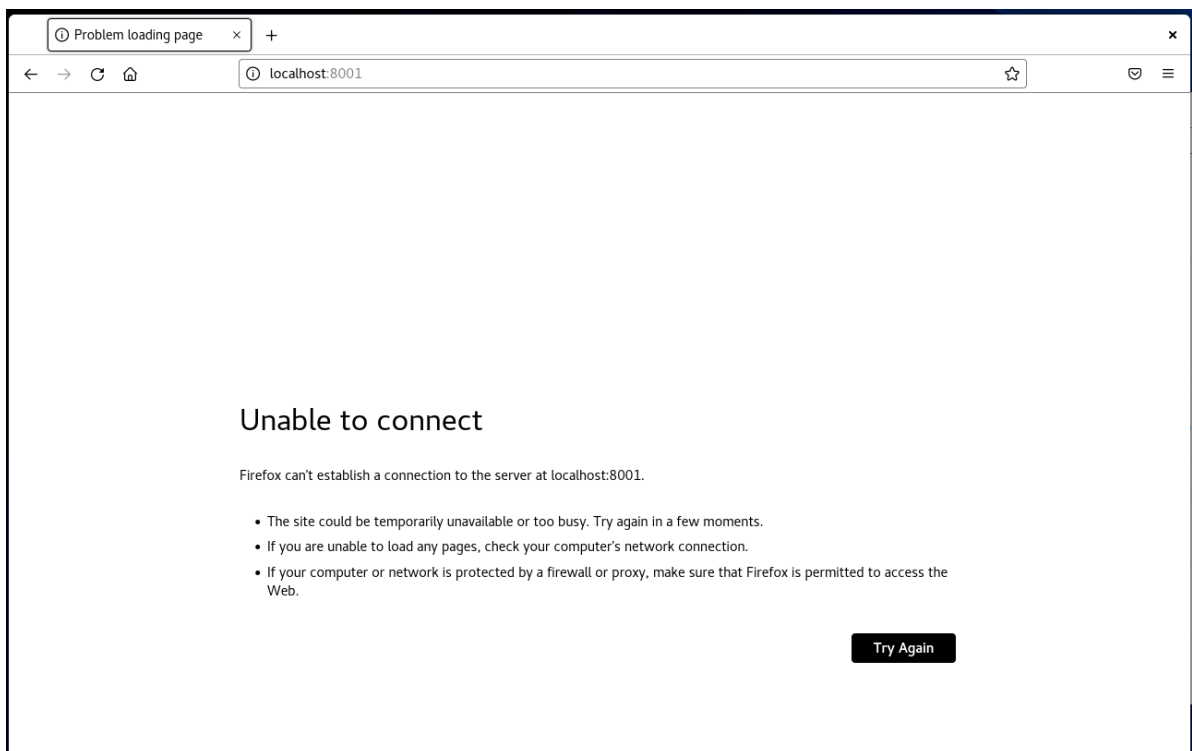
```
[root@localhost publish]# dotnet ReleaseWindowAndLinux.dll --urls="http://*:8001" --environment=Production
warn: Microsoft.AspNetCore.DataProtection.KeyManagement.XmlKeyManager[35]
      No XML encryptor configured. Key {ee8ec6cd-bcda-4d7d-9442-433ed0608a95} may be persisted to storage in unencrypted form.
info: Microsoft.Hosting.Lifetime[0]
      Now listening on: http://[::]:8001
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
      Content root path: /home/linux/linux/publish
```

```
1 #访问启动的站点
2 curl http://localhost:8001/
3 #停止站点 Ctrl+c
```

## 2.0发布结果



## 2.1 #停止站点 Ctrl+c



Windows 发布.net core项目到IIS

环境安装: [.NET 下载\(Linux、 macOS 和 Windows\)\(microsoft.com\)](https://learn.microsoft.com/zh-cn/aspnet/core/linux-fundamentals/installing-aspnetcore?view=aspnetcore-3.1)

## linux

```
1 [linux@localhost ~]$ su
2 Password:
3 [root@localhost linux]# cd /home/linux/linux
4 [root@localhost linux]# rmdir elasticsearch-8.3.3
5 rmdir: failed to remove 'elasticsearch-8.3.3': Directory not empty
6 [root@localhost linux]# rm -rf elasticsearch-8.3.3
7 [root@localhost linux]# cd /home
8 [root@localhost home]# rmdir justin
9 rmdir: failed to remove 'justin': Directory not empty
10 [root@localhost home]# rm -rf justin
11 [root@localhost home]# rm -rf justinwang
12 [root@localhost home]#
13
```