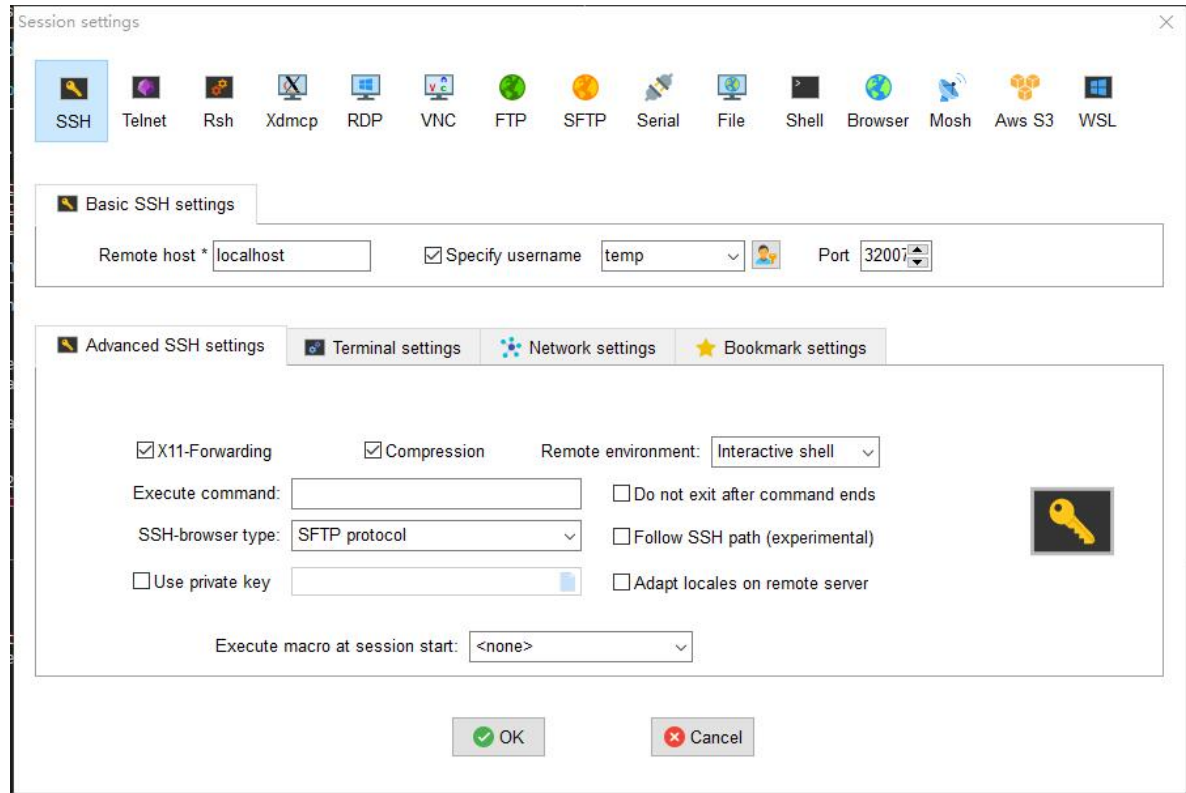


# pycharm本机远端服务器调试步骤:

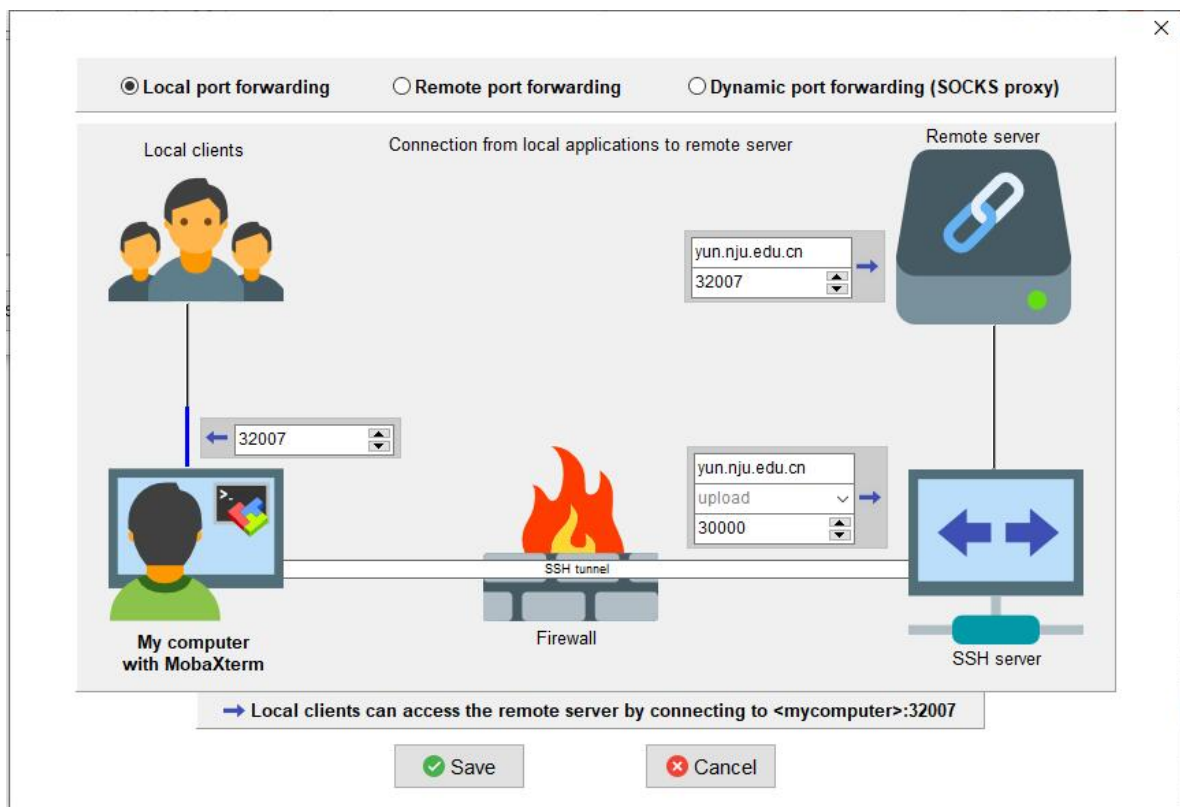
源自dmc, 转载注明

## 1、mobaxterm设置localhost

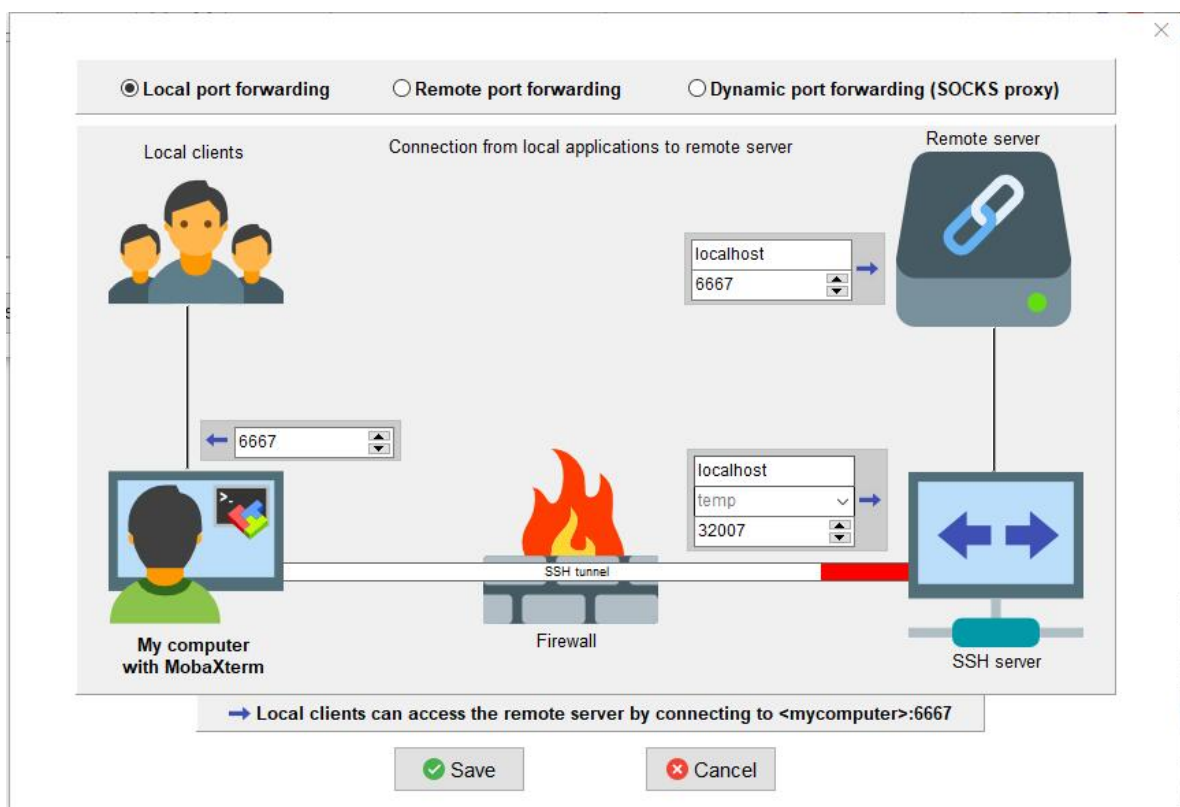


## 2、设置tunnel

设置tunnel\_1,该tunnel转接upload到32007



设置tunnel\_2,该tunnel转接32007到docker容器内，容器内端口命名为6667



### 3、拉取镜像配置容器

若无image, pull it:

```
docker pull pytorch/pytorch:1.8.1-cuda11.1-cudnn8-devel
```

新建容器:

```
NV_GPU=2 nvidia-docker run --shm-size=4g --rm -d -it --privileged --net=host --name dmc_cfp yun.nju.edu.cn:5000/dmc/dmc_tic bash
```

进入容器：

```
docker exec -it dmc_cfp bash
```

## 4、安装必要库

---

```
apt-get update  
apt-get install openssh-server  
apt-get install openssh-client  
apt-get install vim
```

## 5、设置密码

---

```
passwd
```

## 6、修改ssh配置文件

---

```
vim /etc/ssh/sshd_config
```

配置修改如下：

Port改为自定义的容器端口

PermitRootLogin改为yes

```

Port 6667
#AddressFamily any
#ListenAddress 0.0.0.0

#ListenAddress ::

#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key

# Ciphers and keying
#RekeyLimit default none

# Logging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#PubkeyAuthentication yes

# Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile .ssh/authorized_keys .ssh/authorized_keys2

#AuthorizedPrincipalsFile none

#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody

# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

# To disable tunneled clear text passwords, change to no here!
#PasswordAuthentication yes
#PermitEmptyPasswords no

```

## 7、重启ssh

```

service ssh restart
#or you can use:
#/etc/init.d/ssh restart

```

## 8、退出容器，测试 (upload挂载端，即32007, 32001等)

```
ssh -p 6667(your prot_id) root@localhost
```

若无法进入，可能docker容器内没有ssh工具，安装即可，安装代码如下：

进入容器后

```

sudo apt-get install ssh
chmod 777 /etc/ssh/ssh_config
vim /etc/ssh/sshd_config    #在末尾加入如图所示的代码

```

```

Host *
# ForwardAgent no
# ForwardX11 no
# ForwardX11Trusted yes
# PasswordAuthentication yes
# HostbasedAuthentication no
# GSSAPIAuthentication no
# GSSAPIDelegateCredentials no
# GSSAPIKeyExchange no
# GSSAPITrustDNS no
# BatchMode no
# CheckHostIP yes
# AddressFamily any
# ConnectTimeout 0
# StrictHostKeyChecking ask
# IdentityFile ~/.ssh/id_rsa
# IdentityFile ~/.ssh/id_dsa
# IdentityFile ~/.ssh/id_ecdsa
# IdentityFile ~/.ssh/id_ed25519
# Port 22
# Protocol 2
# Ciphers aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc
# MACs hmac-md5,hmac-sha1,umac-64@openssh.com
# EscapeChar ~
# Tunnel no
# TunnelDevice any:any
# PermitLocalCommand no
# VisualHostKey no
# ProxyCommand ssh -q -W %h:%p gateway.example.com
# RekeyLimit 1G 1h
SendEnv LANG LC_*
HashKnownHosts yes
GSSAPIAuthentication yes
StrictHostChecking no
UserKnownHostsFile /dev/null
~
~
~
~
~

```

重启ssh服务：

```

service ssh restart
#or you can use:
#/etc/init.d/ssh restart

```

## 配置pycharm远程连接

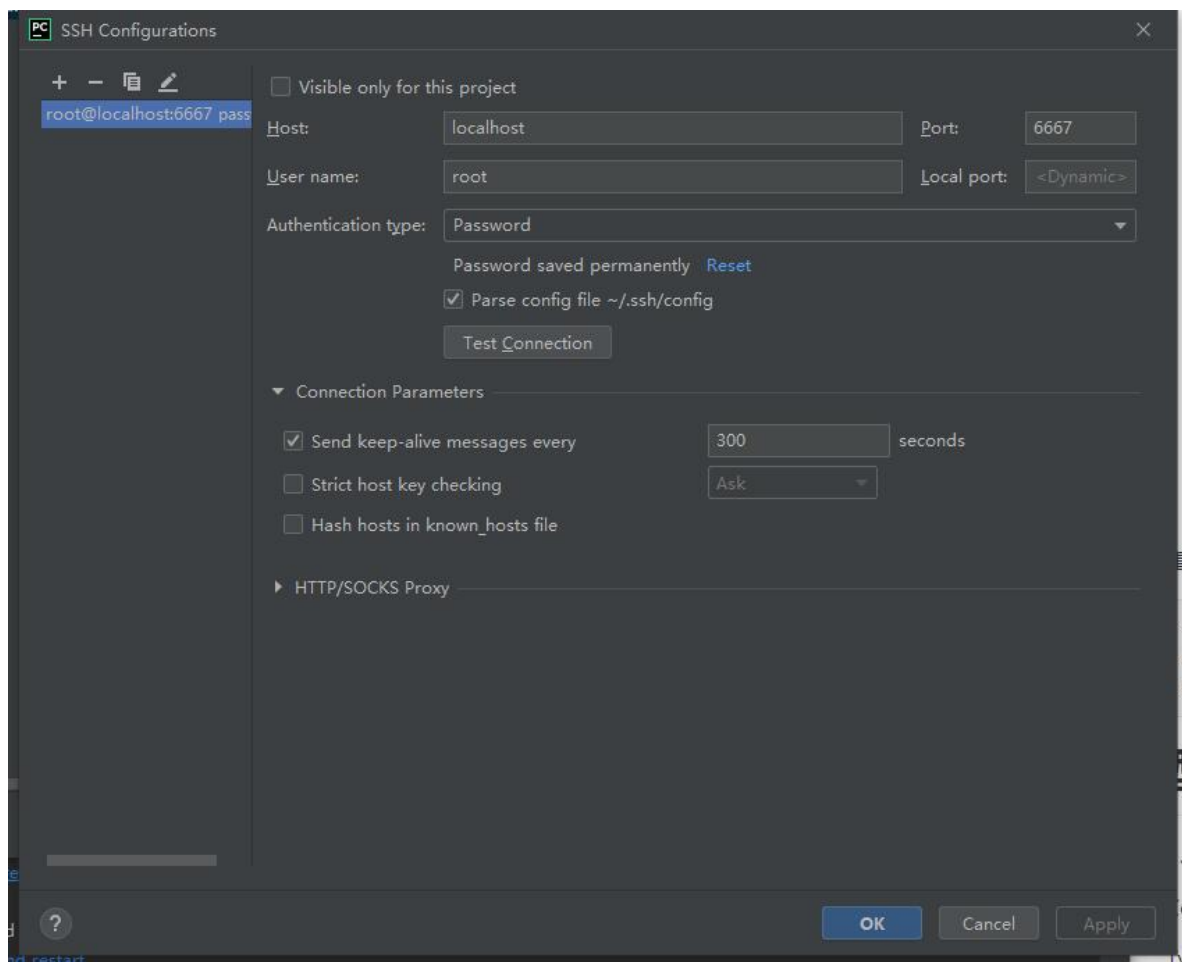
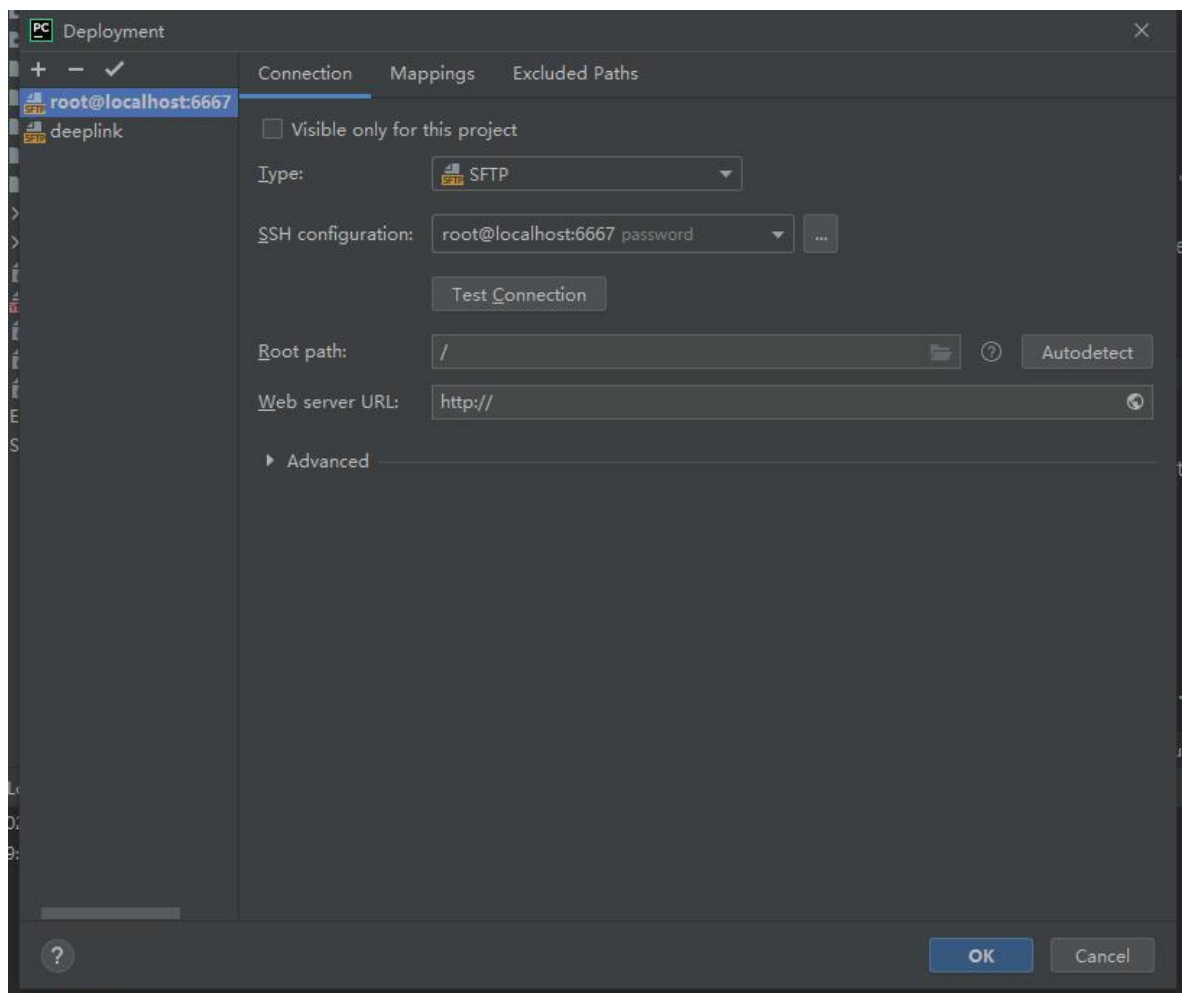
1、点击 Tools ---> Deployment ---> Configuration

Connection配置：

Type选择 SFTP

点击SSH configuration后省略号

如图：



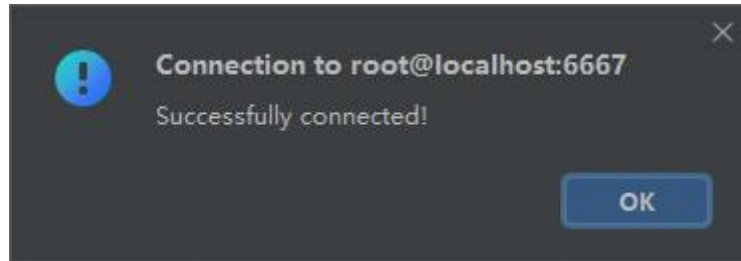
Host为localhost

Port配置为容器内端口号

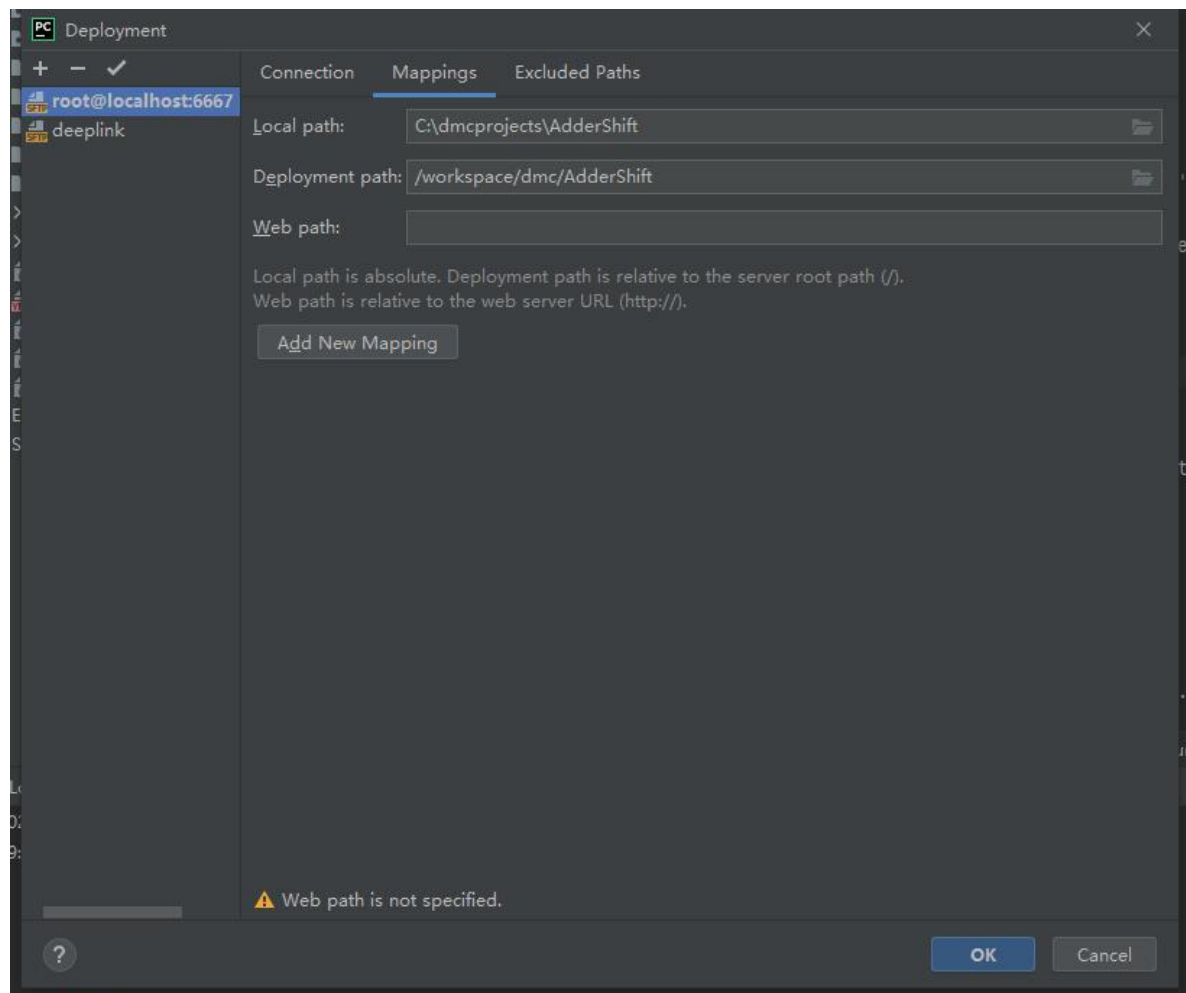
User Name为root

Password设置为刚刚在容器内设置的密码

点击Test Connection,若出现如下标识,说明连接成功

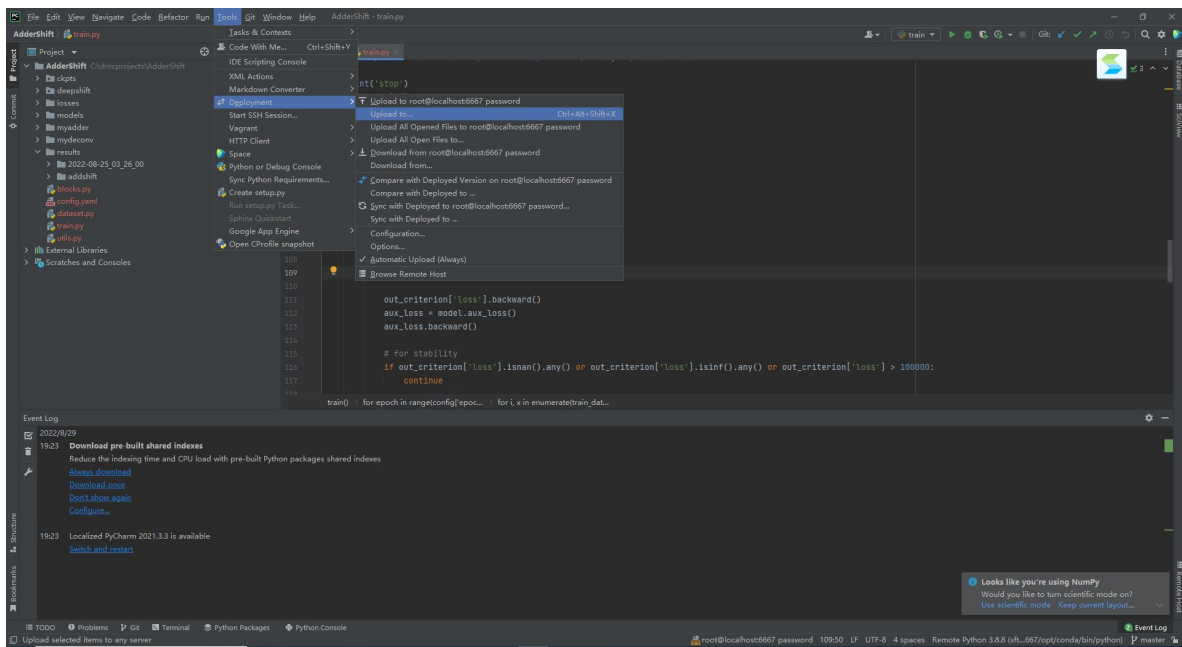


配置mapping:



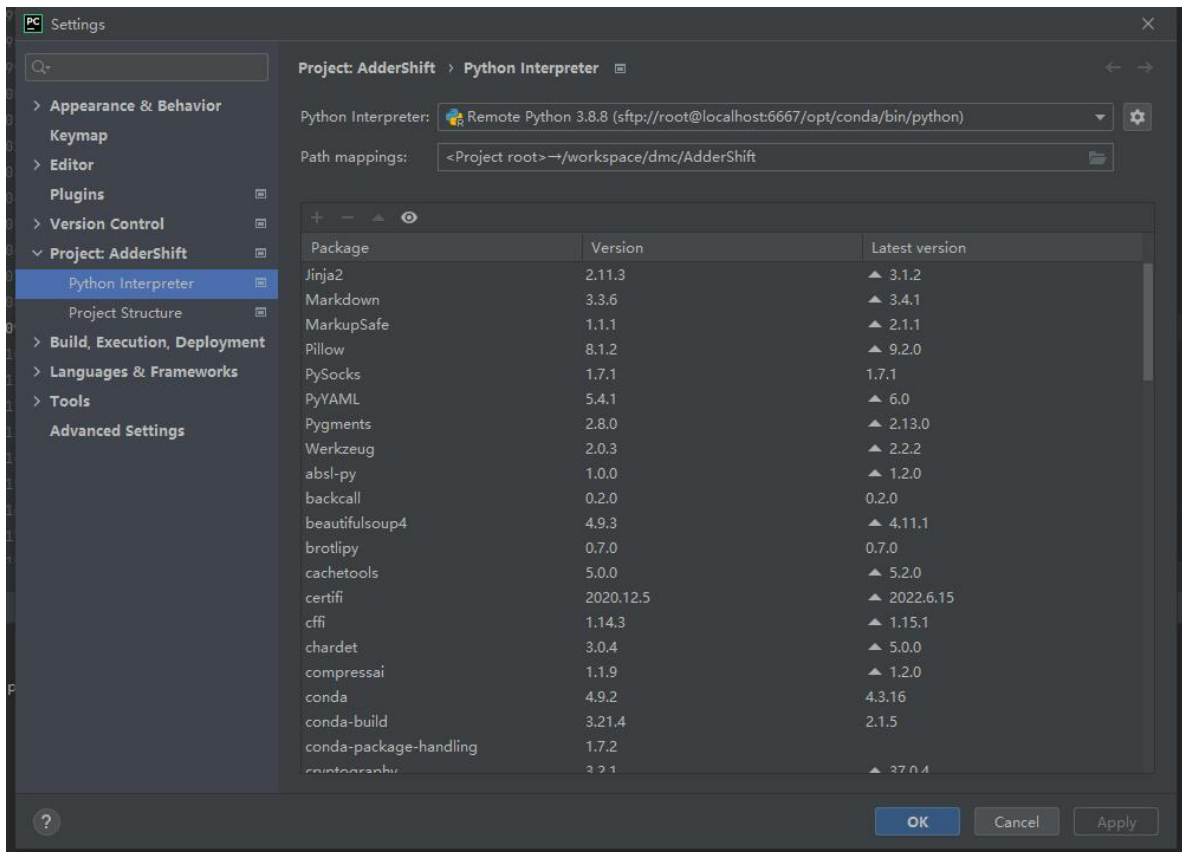
2、上传代码到服务器





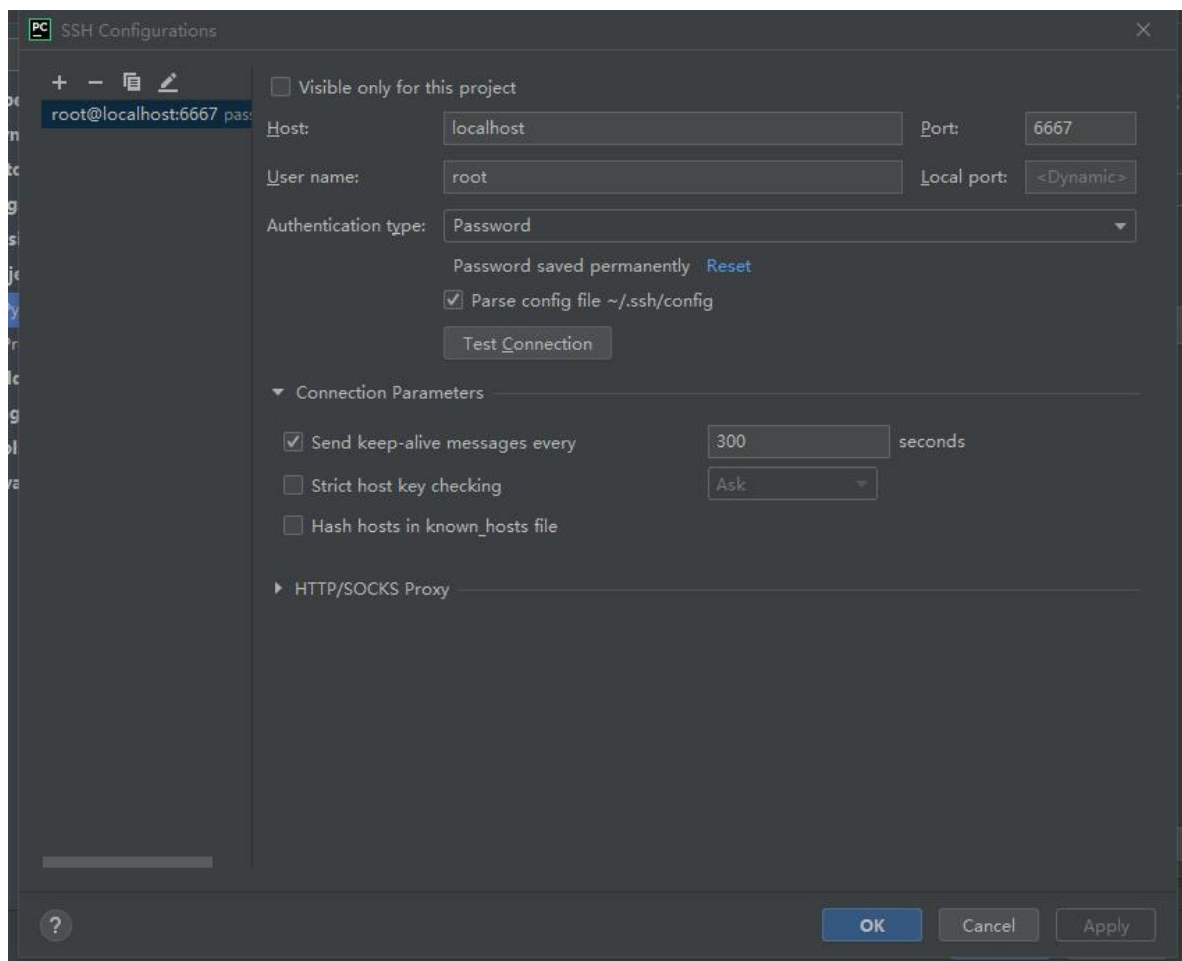
### 3、配置远端解释器

点击File ---> Setting ---> projects--->python interpreter

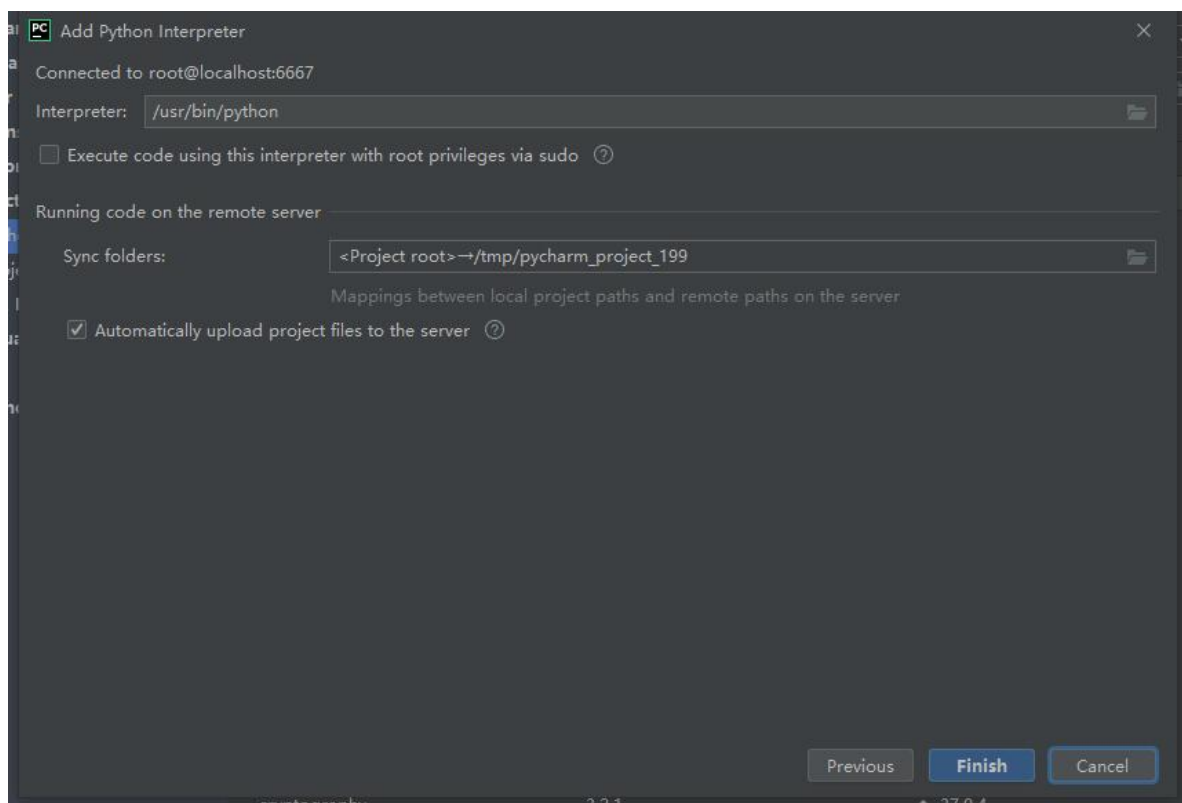


点击 右上角设置，点击ADD，点击SSH interpreter, 点击Existing sever config





按图配置后，点击OK，点击Next



配置interpreter,一般在/opt/conda/bin/python

配置sync folders, 将本地端和远端对应项目目录配对