

# 入门岛-Linux基础

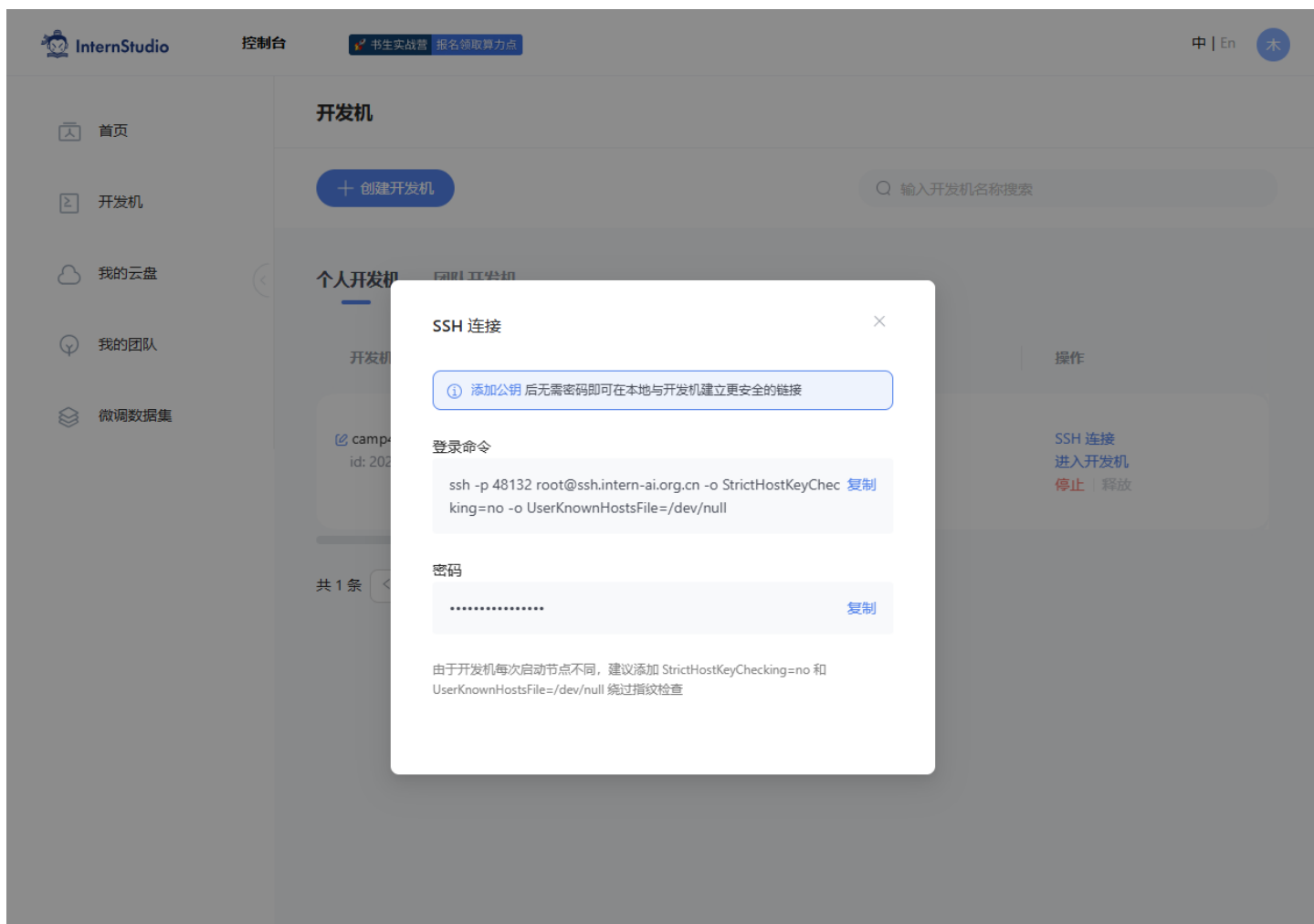
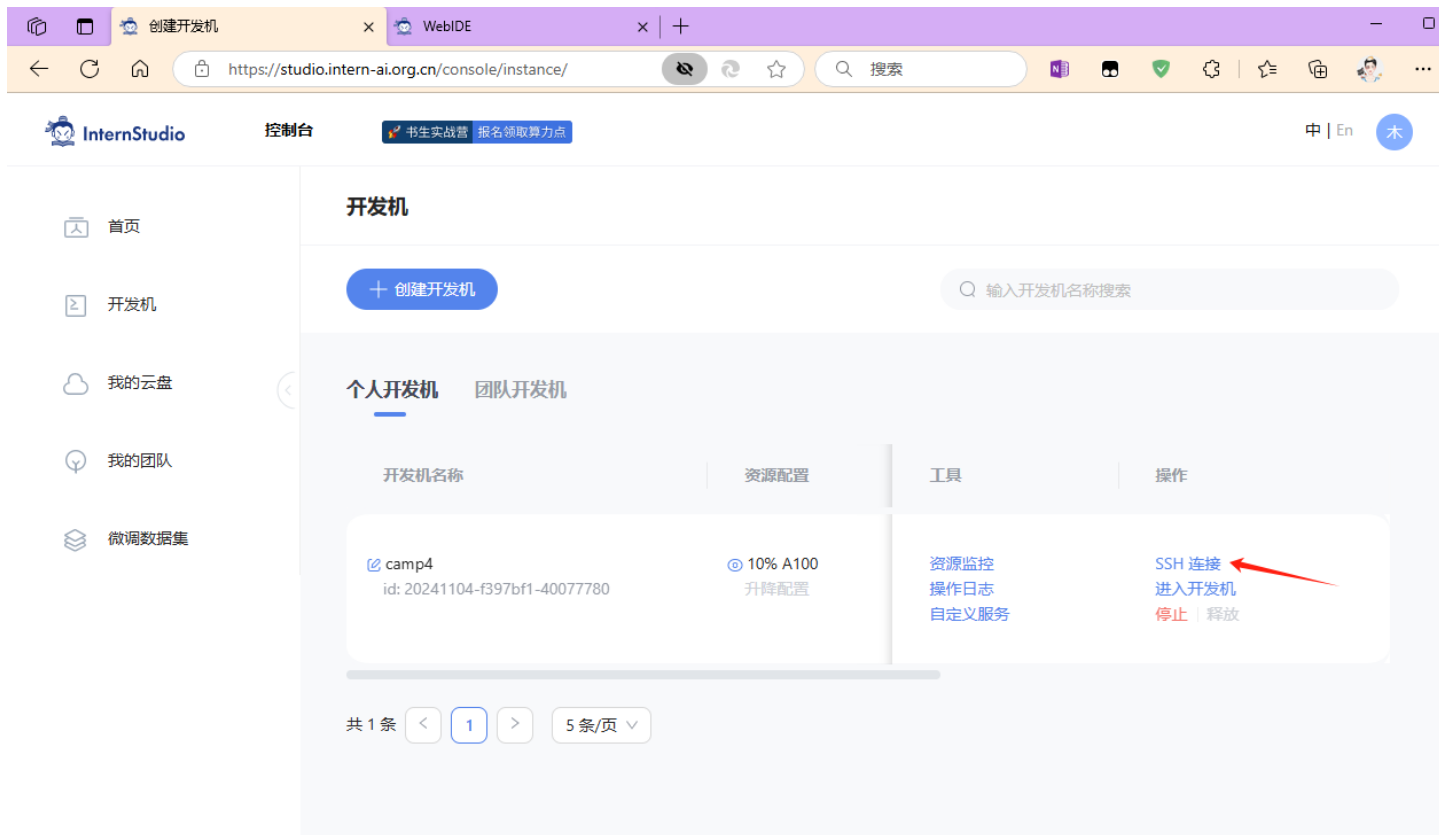


## 关卡任务

闯关任务需要在关键步骤中截图：

任务描述	完成所需时间	
闯关任务	完成SSH连接与端口映射并运行 <a href="#">hello_world.py</a>	10min
可选任务 1	将Linux基础命令在开发机上完成一遍	10min
可选任务 2	使用 VSCODE 远程连接开发机并创建一个conda环境	10min

## SSH连接



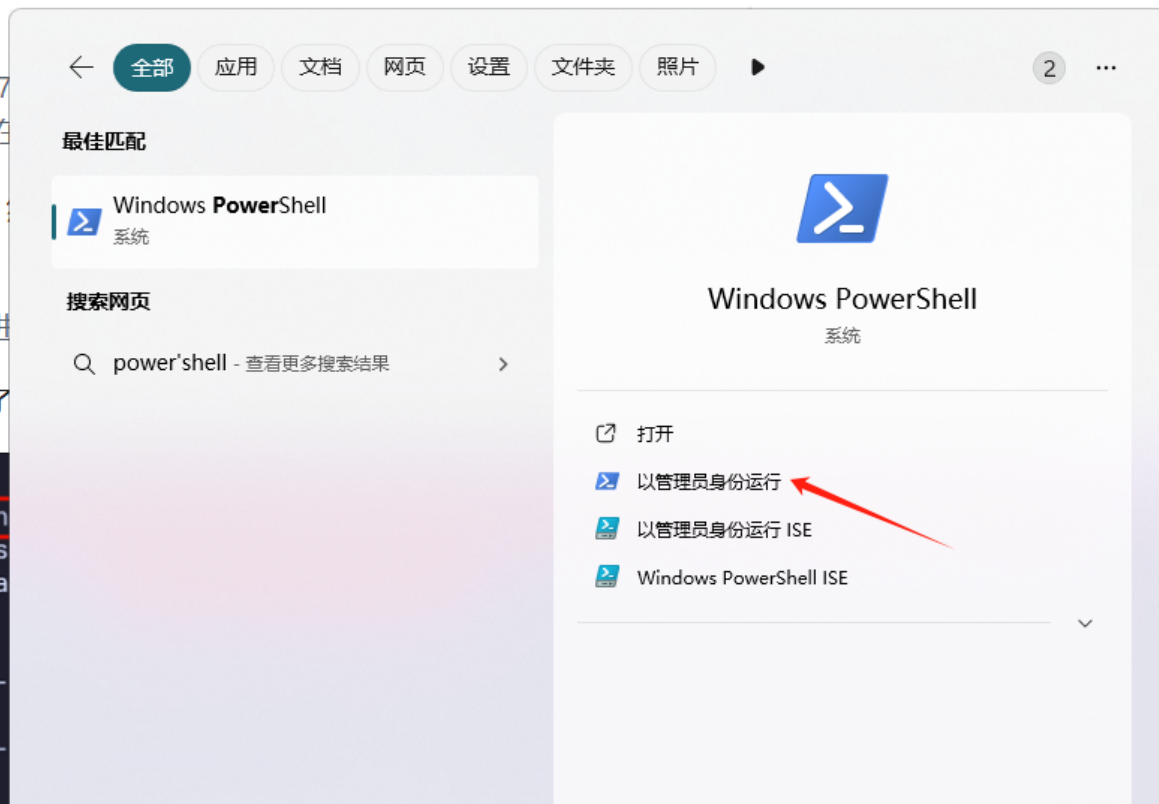
, 这里的37367  
所以如果大家

powershell中,  
这是正常的。

使用鼠标右键进

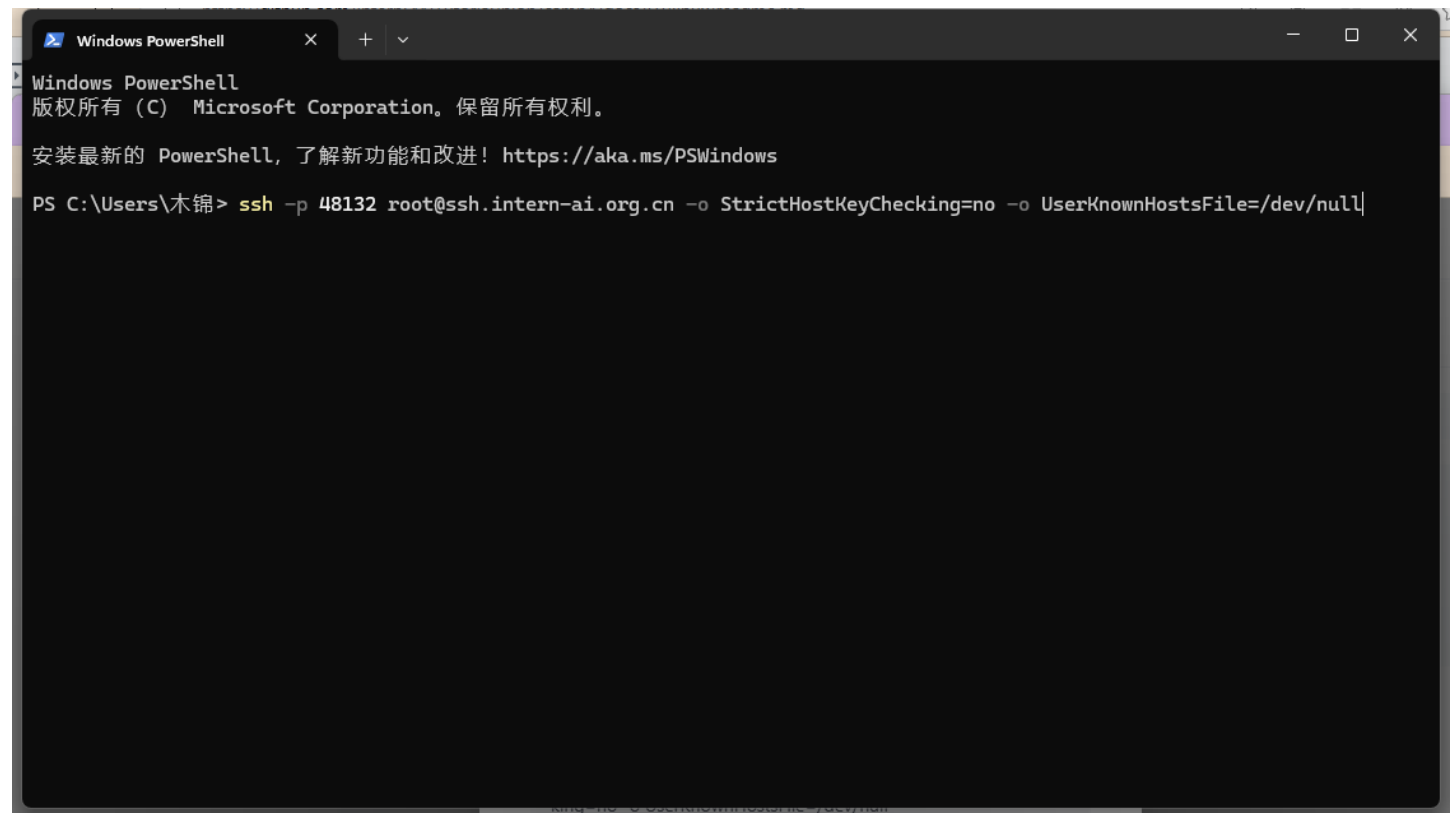
容就代表成功了

```
ot@ssh.intern  
ly added '[s  
i.org.cn's pa  
20.04.6 LTS  
-----  
+-----  
|
```



的, 并

端中,



```
Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。

安装最新的 PowerShell，了解新功能和改进！ https://aka.ms/PSWindows

PS C:\Users\木锦> ssh -p 48132 root@ssh.intern-ai.org.cn -o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null
Warning: Permanently added '[ssh.intern-ai.org.cn]:48132' (ED25519) to the list of known hosts.
root@ssh.intern-ai.org.cn's password: |
```

```
root@intern-studio-40077780 x + v

| 目录 | 名称 | 简介 |
|-----|-----|-----|
| / | 系统目录 | 每次停止开发机会将其恢复至系统（镜像）初始状态。不建议存储数据。 |
| /root | 用户家目录 | 您的所有开发机共享此目录，不受开发机的启停影响。强烈建议将 conda 环境、代码仓库等所有数据存储在此目录下。【注意】该目录有存储限额，超过限额后新写入的数据会被静默删除！ |
| /share | 共享目录 | 常用微调数据集、模型仓库、教程、xtuner 配置文件都存放在此。 |
|-----|-----|-----|

Tips:

1. 快速从本地上传文件：
scp -o StrictHostKeyChecking=no -r -P {端口} {本地目录} root@ssh.intern-ai.org.cn:{开发机目录}
*注：在开发机 SSH 连接功能查看端口号

2. 避免因终端关闭或 SSH 连接断开导致任务终止，强烈建议使用 tmux 将实验进程与终端窗口分离：
https://www.ruanyifeng.com/blog/2019/10/tmux.html

3. 查看 GPU 显存和算力使用率：studio-smi

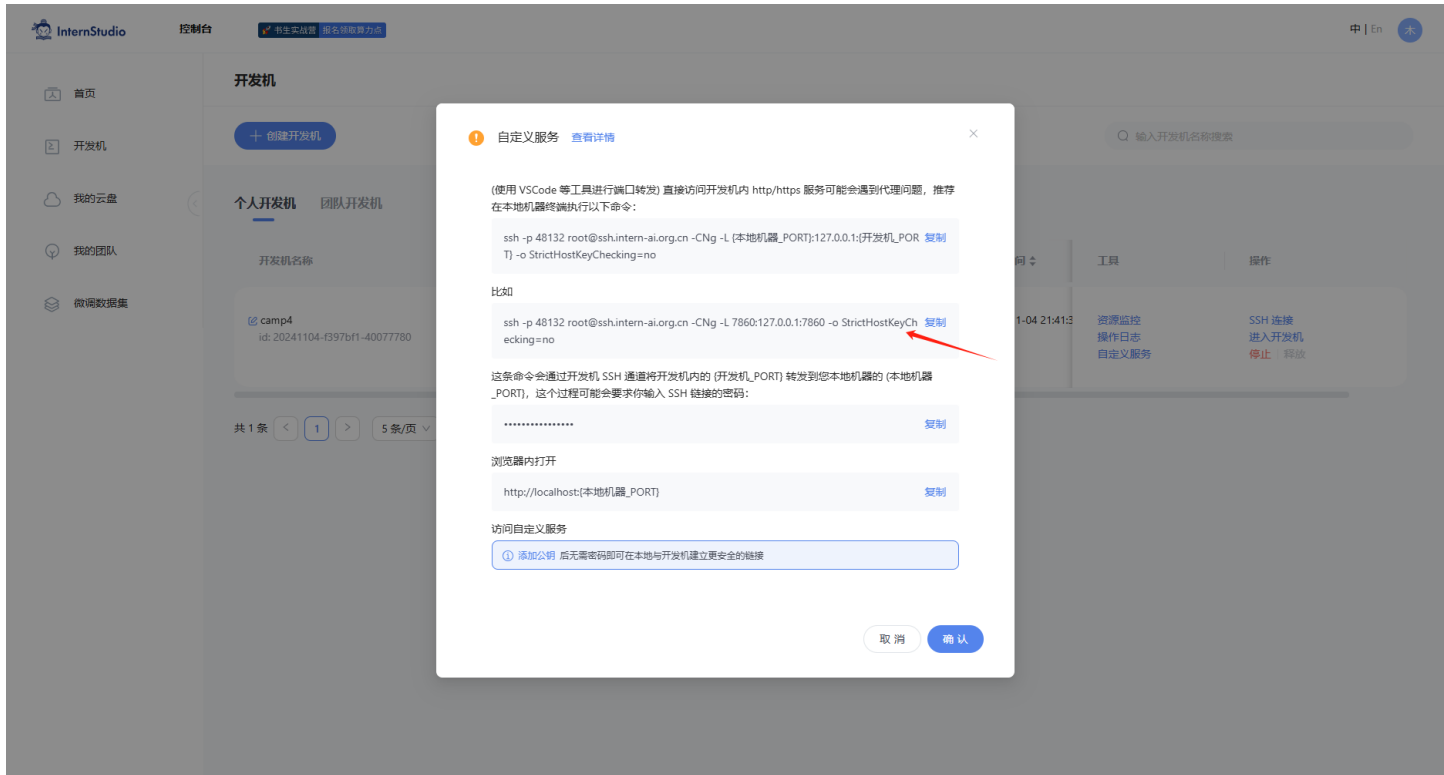
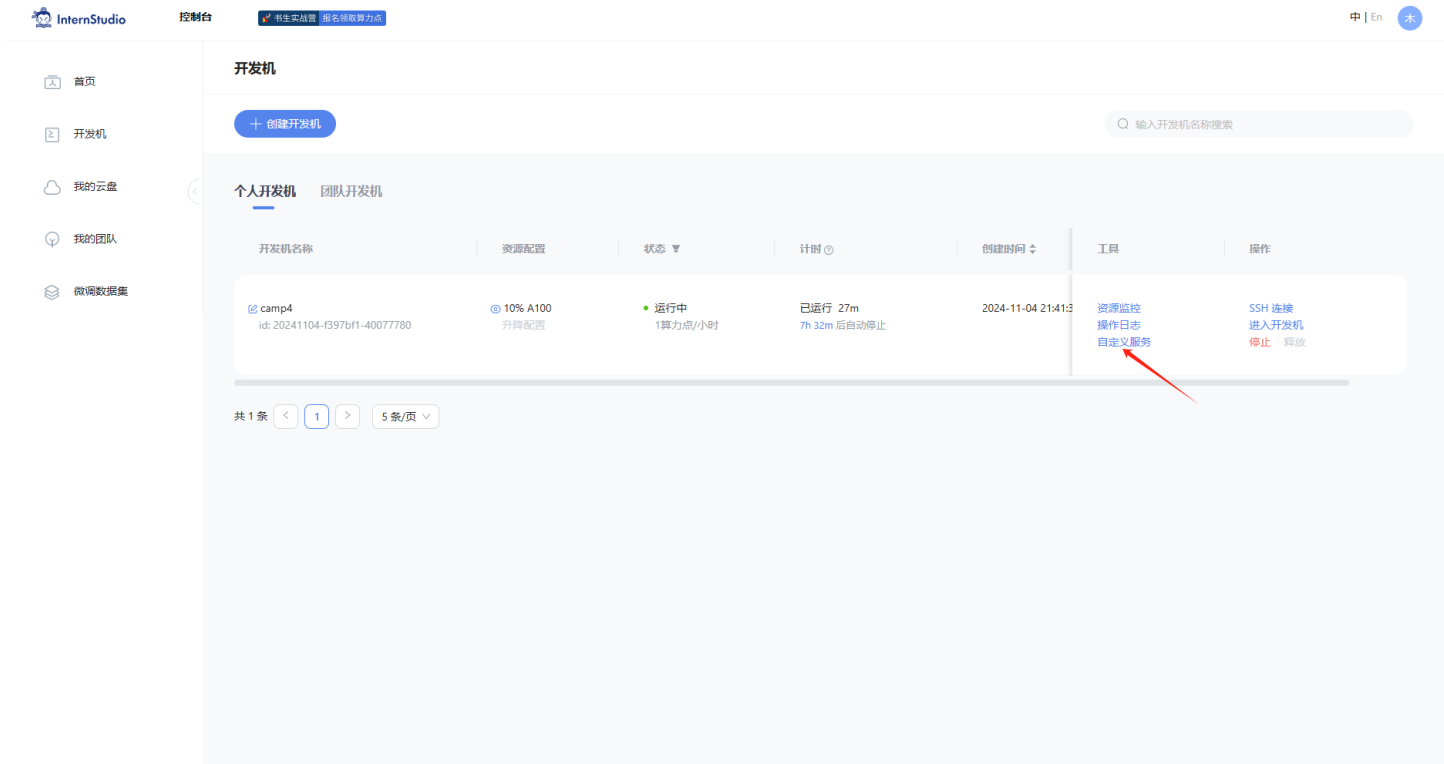
4. 使用InternStudio开箱即用的conda环境：
studio-conda -h

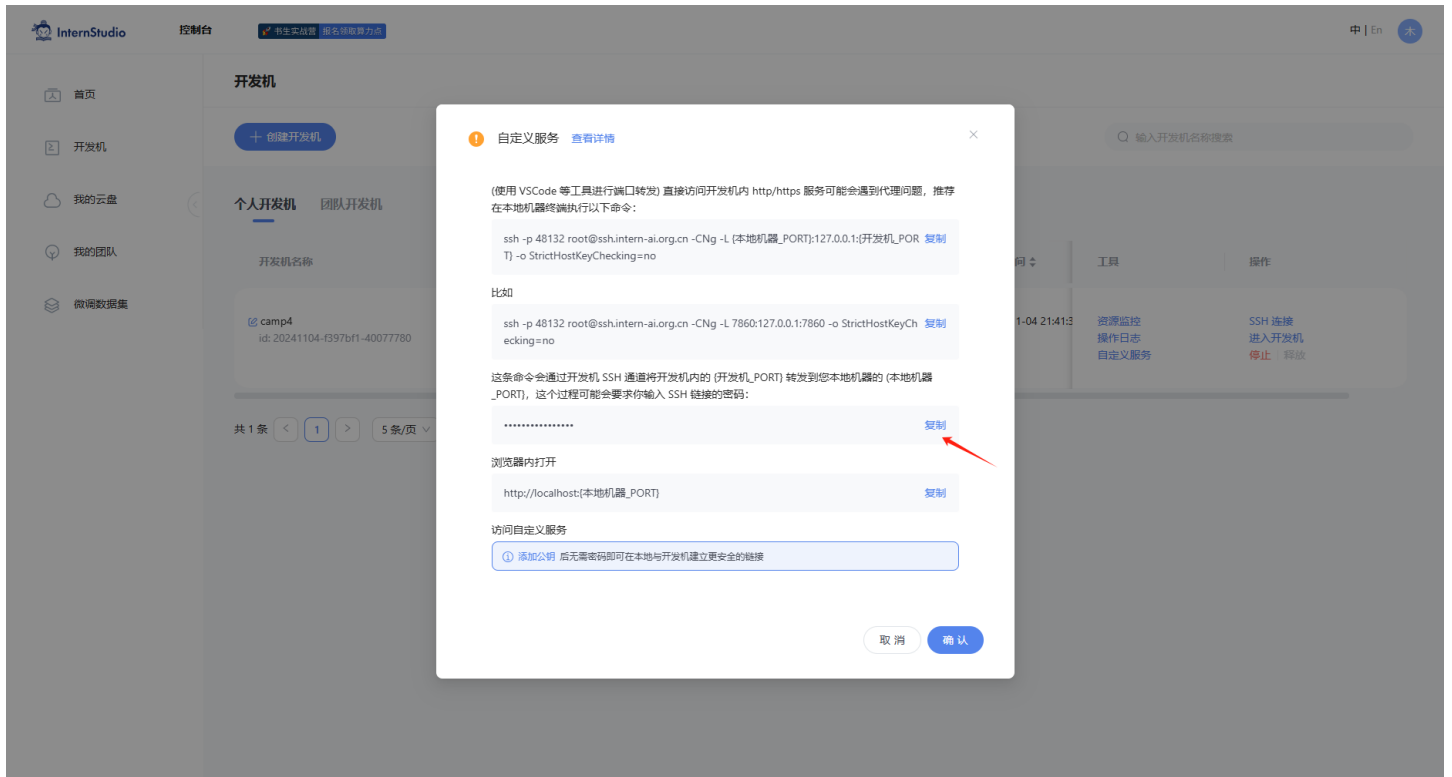
5. 将conda环境一键添加到jupyterlab:
lab add {YOUR_CONDA_ENV_NAME}

-----

(base) root@intern-studio-40077780:~# |
```

## 端口映射





```
(base) root@intern-studio-40077780:~# ssh -p 48132 root@ssh.intern-ai.org.cn -CNg -L 7860:127.0.0.1:7860 -o StrictHostKeyChecking=no
Warning: Permanently added '[ssh.intern-ai.org.cn]:48132,[8.130.47.207]:48132' (ECDSA) to the list of known hosts.
root@ssh.intern-ai.org.cn's password:
```

成功后什么都不会显示, 本地已经可以打开服务器链接。

## 运行Helloworld.py

```
factorial chat_history demo2 tanggpt model opencomp
(base) root@intern-studio-40077780:~# touch helloworld.py
(base) root@intern-studio-40077780:~# vim helloworld.py
(base) root@intern-studio-40077780:~# |
```

```
import socket
import re
import gradio as gr

# 获取主机名
def get_hostname():
    hostname = socket.gethostname()
    match = re.search(r'-(\w+)$', hostname)
    name = match.group(1)

    return name

# 创建 Gradio 界面
with gr.Blocks(gr.themes.Soft()) as demo:
    html_code = f'''
    <p align="center">
    <a href="https://intern-ai.org.cn/home">
    
    </a>
    </p>
    <h1 style="text-align: center;">👋 Welcome {get_hostname()} user, welcome to the ShuSheng LLM Practical Camp Course!</h1>
    <h2 style="text-align: center;">👋 Let's go on a journey through ShuSheng Island together.</h2>
    <p align="center">
    <a href="https://github.com/InternLM/Tutorial/blob/camp3">
    
    </a>
    </p>
    '''

    gr.Markdown(html_code)

demo.launch(share=True)
```

## 安装gradio

```
(base) root@intern-studio-40077780: ~# pip install gradio==4.29.0
Looking in indexes: https://pypi.tuna.tsinghua.edu.cn/simple
Requirement already satisfied: gradio==4.29.0 in ./conda/lib/python3.11/site-packages (4.29.0)
Requirement already satisfied: aiofiles<24.0,>=22.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (23.2.1)
Requirement already satisfied: altair<6.0,>=4.2.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (5.3.0)
Requirement already satisfied: fastapi in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (0.112.0)
Requirement already satisfied: ffmpy in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (0.4.0)
Requirement already satisfied: gradio-client==0.16.1 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (0.16.1)
Requirement already satisfied: httpx>=0.24.1 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (0.27.0)
Requirement already satisfied: huggingface-hub>=0.19.3 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (0.24.5)
Requirement already satisfied: importlib-resources<7.0,>=1.3 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (6.4.0)
Requirement already satisfied: jinja2<4.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (3.1.4)
Requirement already satisfied: markupsafe~=2.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (2.1.5)
Requirement already satisfied: matplotlib~=3.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (3.9.1.post1)
Requirement already satisfied: numpy~=1.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (1.26.4)
Requirement already satisfied: orjson~=3.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (3.10.7)
Requirement already satisfied: packaging in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (23.1)
Requirement already satisfied: pandas<3.0,>=1.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (2.2.2)
Requirement already satisfied: pillow<11.0,>=8.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (10.4.0)
Requirement already satisfied: pydantic>=2.0 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (2.8.2)
Requirement already satisfied: pydub in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (0.25.1)
Requirement already satisfied: python-multipart==0.0.9 in ./conda/lib/python3.11/site-packages (from gradio==4.29.0) (0.0.9)
```

```
(base) root@intern-studio-40077780: ~# python helloworld.py
Running on local URL: http://127.0.0.1:7861
IMPORTANT: You are using gradio version 4.29.0, however version 4.44.1 is available, please upgrade.
-----

To create a public link, set `share=True` in `launch()`.
```

## 升级一下gradio至4.44.1, 运行代码



Welcome 40077780 user, welcome to the ShuSheng LLM Practical Camp Course!

Let's go on a journey through ShuSheng Island together.

书生大模型  
实战营「第4期」  
带你从入门到进阶 大模型时代不迷路

活动亮点

开源免费 优质课程 实践算力 官方证书

课程安排

入门课程

第1节 - Linux/Python/Git 部署基础知识

第2节 - 玩转 HuggingFace / 魔搭社区

基础课程

第1节 - 书生大模型全栈开发体系

第2节 - 玩转书生大模型 Demo

第3节 - 搭建提示词工程实践

第4节 - InternLM + LlamaIndex RAG 实践

第5节 - XTuner 微调个人小助手应用

第6节 - OpenCompass 评测书生大模型实践

进阶课程

第1节 - 探索书生大模型能力边界

第2节 - Lagent 自定义的 Agent 智能体

第3节 - LMDeploy 量化部署进阶实践

第4节 - InternVL 多模态模型部署实践

第5节 - 图睿达：企业知识问答工具

第6节 - MindSearch 深度检索及实践

彩蛋课程

第1节 - 书生大模型遇见 City/Coco/Flowise

第2节 - Ascend 昇腾下部署部署书生大模型实践

第3节 - 更多精彩等你来探索

\*招募营一人赠送 50 官方礼 Voucher 用于兑换书生大模型 API 调用额度（仅限 1 人，10k 以内额度，兑换有效期至 10 月 31 日）  
成功兑换后请在有效期内兑换使用，有效期为兑换之日起 30 天内有效，逾期作废。兑换时请认准官方渠道，谨防诈骗。

邀请 3 人 > 解锁 24GB 30% A100, 80GB 存储, 1000W 推理 API tokens

邀请 5 人 > 解锁 40GB 50% A100, 120GB 存储, 2000W 推理 API tokens

邀请 16 人 > 解锁 60GB 100% A100, 200GB 存储, 5000W 推理 API tokens

扫码报名

通过 API 使用 使用 Gradio 构建