

saturncloud云端部署sd教程

saturncloud 平台优势

1. 免费版一个月150小时，目前没有NSFW限制
2. 免费版配置T4 GPU - 4 cores CPU - 16 GB RAM - 40Gi Disk，注意环境不占用磁盘空间，40G完全够用
3. 可自定义域名，可不使用gradio、内网穿透等。格式为：`abc.community.saturnenterprise.io:8000`
4. 云端工作空间不会被删除，第一次拉取后，后面启动1-2分钟左右，取决于模型和插件加载速度。

1.注册

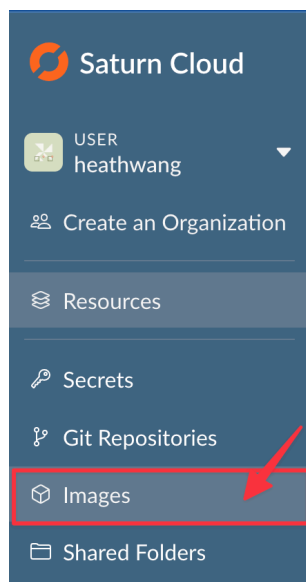
<https://saturncloud.io/>

建议使用国外邮箱。

注册完成后需要验证邮箱。

2.制作环境镜像

环境镜像可组织共享，他人可使用，环境镜像可加速sd启动。



点击右上角的“New”按钮新建，按照下面的图例操作：

New Image

Owner

heathwang

Name

sd_name 输入你喜欢的名字

Description

输入一点描述

Access

Anyone in the organization can use this image

Hardware Support

You must select CPU or GPU hardware. You cannot change this on new versions of an image.

☐ CPU

☒ GPU

Feature Support

Select which features in Saturn Cloud this image supports. You must ensure the required software is installed in the image.

☒ JupyterLab

Required for Jupyter Server resources

☐ Dask

Required for attaching Dask clusters to resources

☐ R

Required for R Server resources

Add

Cancel

点击添加,完成镜像基本创建，在镜像详情页面，点击“New Version”按钮，来创建一个镜像版本。
按照下面的图例输入：

Build New Image Version

Copy settings from existing image

Type or choose an image

Pre-populate fields with selections from a previous image build.

Version

No valid versions

Version

v1.0

输入一个你喜欢的版本号

Description

v1.0

Base Image

public.ecr.aws/saturncloud/saturnbase-python-gpu-11.8:2023.05.01

Build Data

Conda Environment

Pip Requirements

Apt Packages

postBuild

If provided, this should be a list of packages to install with `pip install`, with one package name per line.

```
--extra-index-url https://download.pytorch.org/whl/cu118
torch==2.0.1+cu118
torchvision==0.15.2+cu118
torchaudio==2.0.2+cu118
torchtext==0.15.2
torchnet==0.6.1
```

Build

Cancel

请在 **Pip Requirements** 输入下面的依赖：

```
1 | --extra-index-url https://download.pytorch.org/whl/cu118
2 | torch==2.0.1+cu118
3 | torchvision==0.15.2+cu118
4 | torchaudio==2.0.2+cu118
5 | torchtext==0.15.2
6 | torchnet==0.6.1
7 | xformers==0.0.20
8 | triton==2.0.0
```

在 **Apt Packages** 输入：

```
1 | aria2
2 | libgl1
3 | libglv2.0-0
4 | git-lfs
```

然后点击Build按钮。
生成镜像需要30多分钟，可以先去干其他的。
刷新页面，如下图咋镜像制作完成：

Version	Image URI	Created	Status
v1.0		9 days ago	<div>built</div>

状态为 **built** 则完成了

3.部署sd工作空间

创建

点击左边菜单栏上的Resources来创建：

USER
heathwang

Create an Organization

Resources

Secrets

Git Repositories

Images

Shared Folders

Create a Resource

Resources are self-contained compute environments that you can customize with your preferred hardware and s

python

点我创建

New Python Server

Use JupyterLab, or connect PyCharm or VS Code

R

New R Server

Write and run code in the R IDE

aws

Launch in your AWS account

在创建页面，输入名字，选择硬件



Hardware

The hardware your Jupyter server will run on.

[Hide Advanced Options](#)

Disk Space

40Gi

Your current plan is limited to 50GiB of disk space.

用过 kaggle, colab 的应该会选吧 = =

Hardware

CPU

An instance with only CPU processors.

GPU

An instance with both CPU and GPU processors.

Size

T4-XLarge - 4 cores - 16 GB RAM - 1 GPU

Disabled options are not supported due to your account limit. To increase the limit, please contact your administrator.



Environment

The software your Jupyter server will use. This includes libraries, packages, environment variables, and other attributes.

[Show Advanced Options](#)

Image

heathwang/studyaigc

Version

v1.0

Extra Packages

Extra packages are installed every time the resource starts up - right before the start script. Use spaces to separate packages.

If you find yourself adding the same packages to lots of resources, you may want to permanently add packages to a custom image instead. (?)

Conda

Pip

Apt

click numba



Additional features

Optional settings for your Jupyter server.

[Hide Advanced Options](#)

Allow SSH Connections

Use SSH to directly connect to the server, including through VSCode, PyCharm, and other tools (?)

☒ Expose app port

Open port 8000 for developing dashboards and APIs

☐ Spot Instance

This requests the server of specified size as Spot Instance. Spot Instances are less expensive, but may be shut down at any time (with a two-minute warning). (?)

Shutoff After

1 hour

Disabled options are not supported by your current plan. Contact support if you have any questions.

Subdomain

ai-xyz

填写你喜欢的名字吧

.community.saturnenterprise.io

Set a custom subdomain for the workspace URL. Must be globally unique. If unset, a default will be chosen based on name.

最后“Create”完成创建。

运行

Jupyter Server

stopped

T4-XLarge - 4 cores - 16 GB RAM - 1 GPU - 40Gi Disk

Auto Shutoff: 1 hour
Spot Instance: No
SSH URL: (not enabled) (?)
App URL: (server not running)

Jupyter Lab

Start

直接点我!

等待下面的按钮变为蓝色，即可进入。

进入jupyter后，上传群里的 `start.ipynb` 文件

File Edit View Run Kernel Git Tabs Settings Help

+

+

⬆

↺

⚙

Filter files by name

/ workspace /

Name	Last Modified
sd_DL	2 days ago
sd-configs2	2 days ago
ui	19 hours ago
cloudflared-linux-a...	21 days ago
start.ipynb	2 minutes ago

start.ipynb

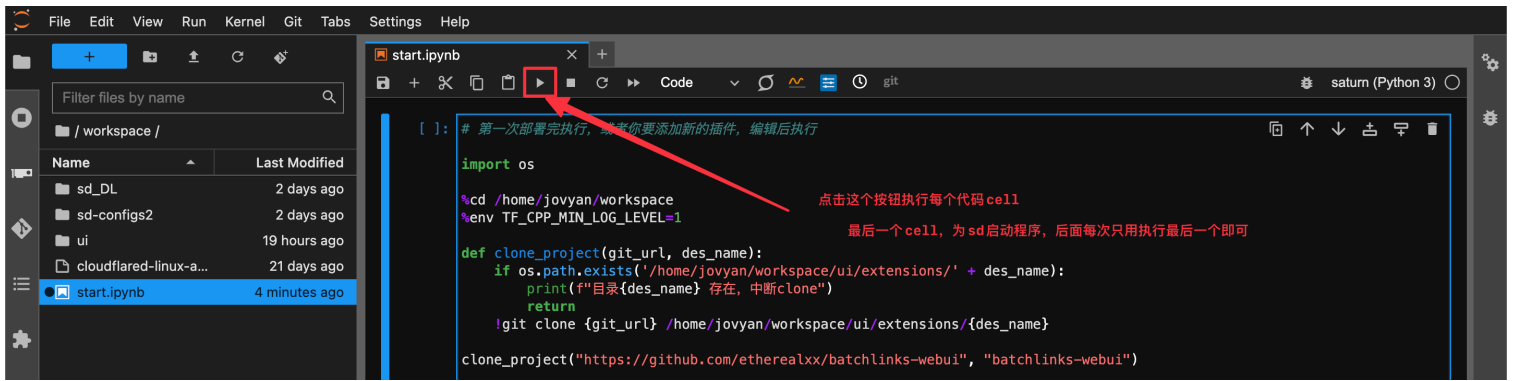
[]: # 第一次部署完执行, 或者你要添加

import os

%cd /home/jovyan/workspace
%env TF_CPP_MIN_LOG_LEVEL=

def clone_project(git_url,
if os.path.exists('/ho
print(f"目录{des_na
return

上传完毕后，打开脚本，并执行下面的操作：



```
Launching Web UI with arguments: --listen --lowram --xformers --enable-insecure-extension-access --disable-console-progre
ssbars --theme dark --gradio-queue --disable-safe-unpickle --disable-nan-check --no-hashing --port 8000
Tag Autocomplete: Could not locate model-keyword extension, Lora trigger word completion will be limited to those added t
hrough the extra networks menu.
[+] ADetailer initialized. version: 23.7.11, num models: 9
Checkpoint curiousmerge25D_v50V4V2.safetensors not found; loading fallback ghostmix_v20Bakedvae.safetensors
Loading weights [None] from /home/jovyan/workspace/ui/models/Stable-diffusion/ghostmix_v20Bakedvae.safetensors
Running on local URL: http://0.0.0.0:8000

To create a public link, set `share=True` in `launch()`.
Startup time: 111.1s (launcher: 97.7s, import torch: 3.9s, import gradio: 1.1s, setup paths: 2.4s, other imports: 0.8s, s
etup codeformer: 0.3s, load scripts: 3.8s, create ui: 0.9s, gradio launch: 0.1s).
```

部署完毕，去你的工程里找到一下地址，打开即可：

