

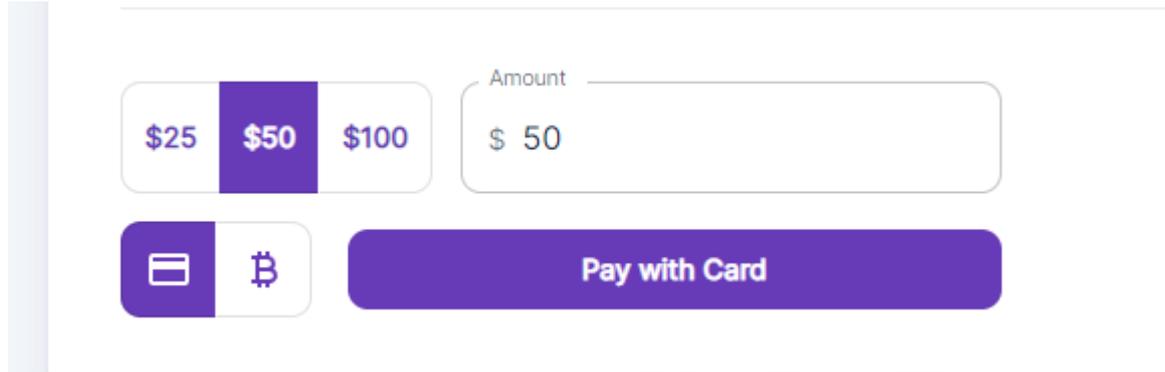
## Using WebUI on Runpod

We should already know how to use the normal WebUi but this guide will cover how to get the WebUI running on the RunPod cloud

### Basics

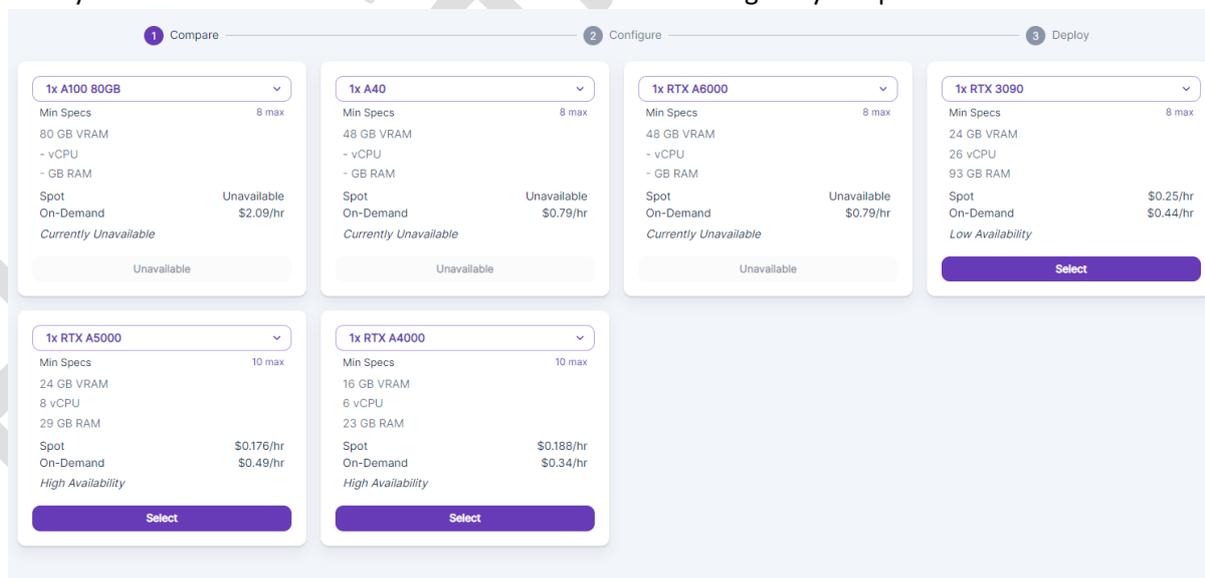
Runpod is a cloud service where you can rent a server that has a high powered GPU at around \$0.40-\$0.50 per hour.

Start by visiting [RunPod.IO](https://RunPod.IO), log in and add a balance to your account.



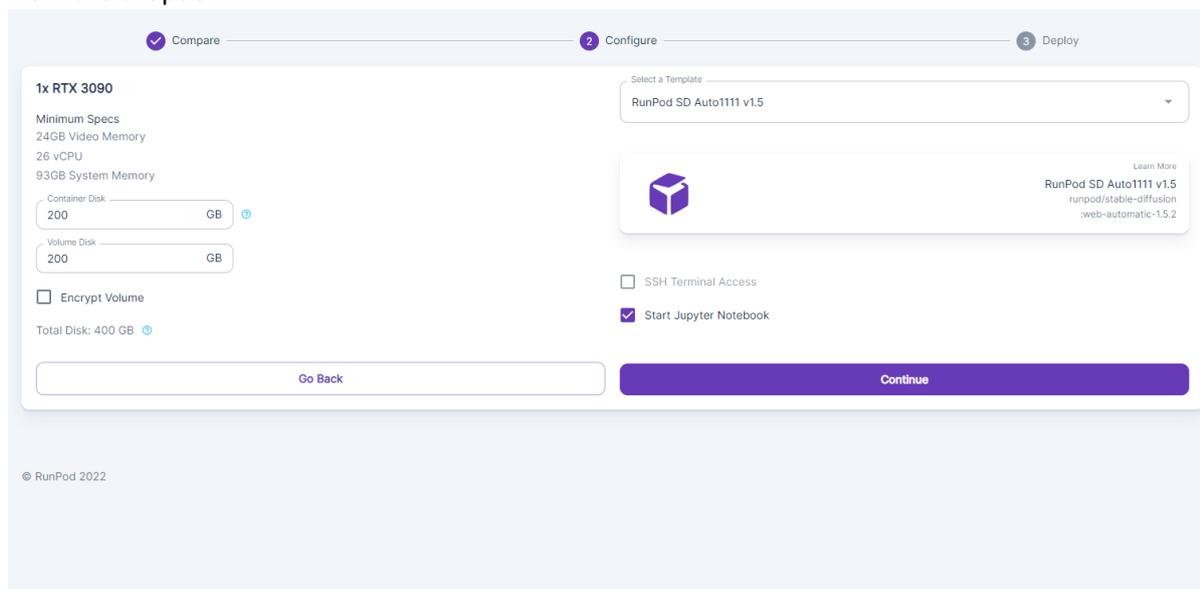
### Choose a server

1. Navigate to the **“Secure Cloud”** from the menu on the left of the main dashboard
  - a. Here you will see a list of available secure cloud servers managed by Runpod.



2. Look for a server that is available and the “select” button is highlighted purple to show it’s available to rent
  - a. Make sure the server has 24gb VRAM or higher, such as the RTXA5000 or RTX3090 etc
3. Choose Select and then on the next screen we can make configuration changes to the server we rent.
  - a. Add additional storage to the Container Disk and Volume Disk, if we are training files we will want more space for our checkpoints to be saved so I usually run with 200gb on each

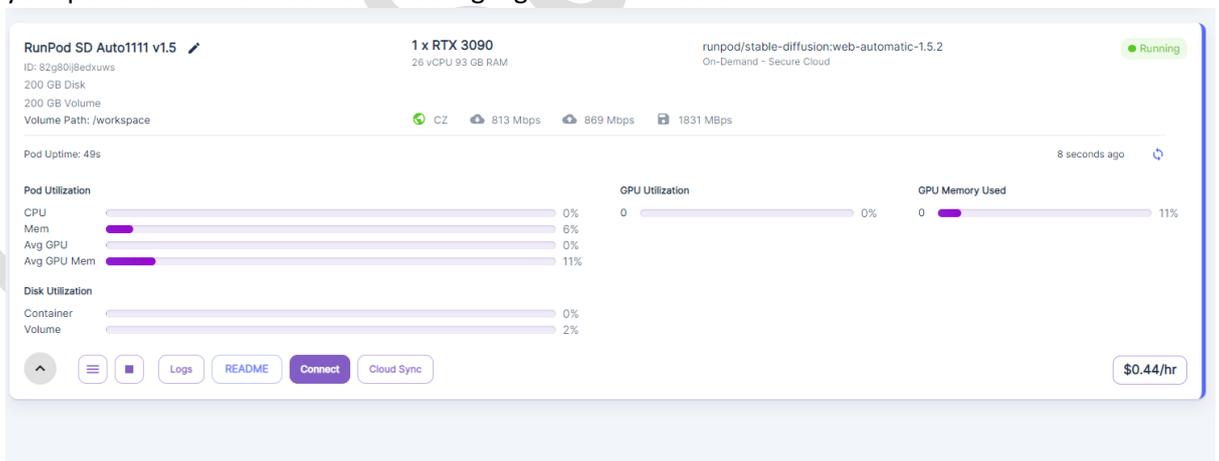
- b. Choose a starting template, if you want to run Stable Diffusion WebUI, choose it from the dropdown



4. Once you have the storage and template set, go ahead and choose “Continue”
5. Now you have a summary screen, just choose “Deploy on demand” if the summary matches up with what you selected

### Start the server and move your model

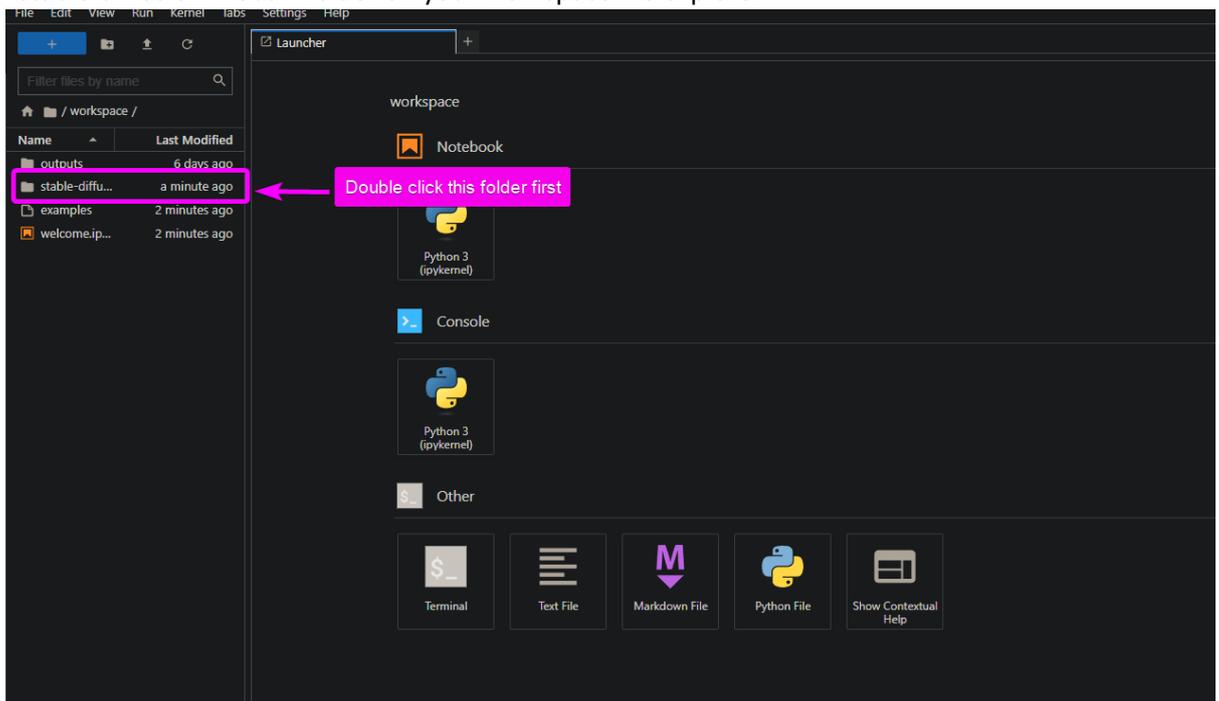
1. Navigate to “[My Pods](#)” and wait for your new pod to be ready, choose the down arrow on your pod and hit “Connect” once it’s highlighted as available



2. In the new modal popup, select “Connect to Jupyter Lab” which is like a Colab notebook interface for Runpod.



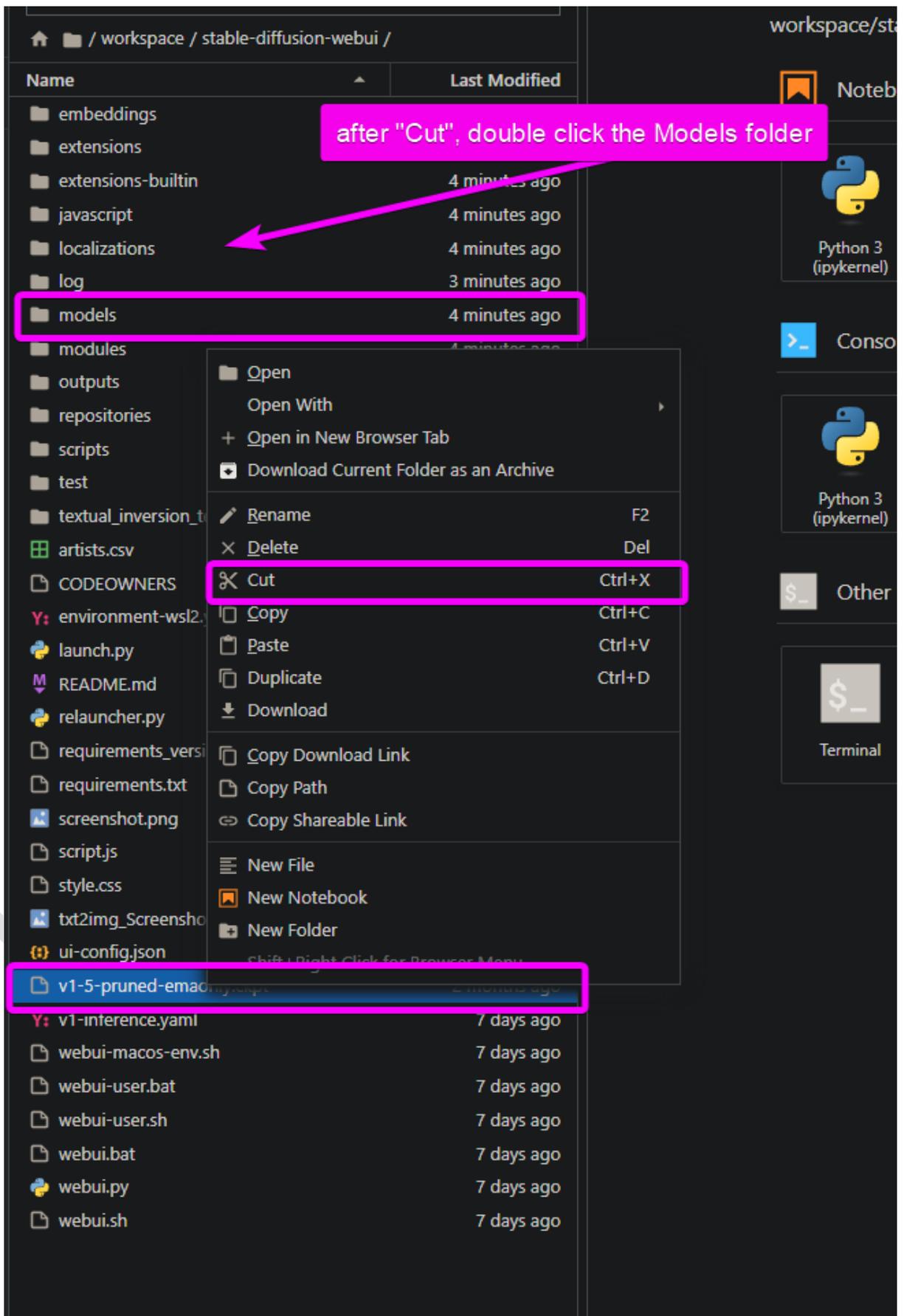
3. You should now see a launcher interface and a filesystem on the left, double click the “stable-diffusion-webui” folder on your workspace file explorer



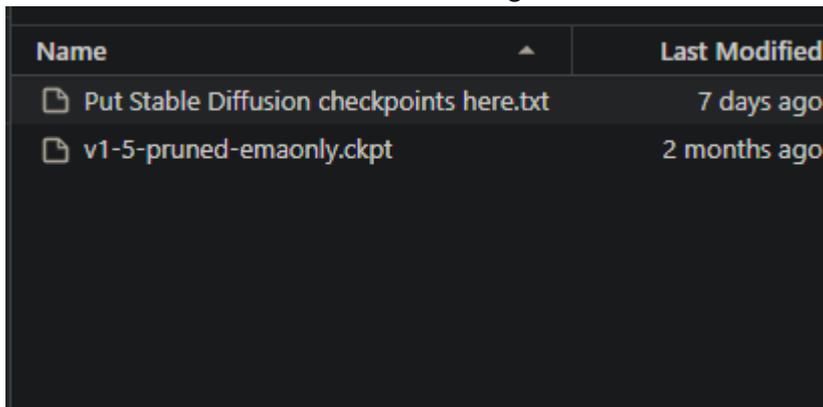
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4. Now you should see your WebUI files, first thing is to right click the “v1-5-pruned-emaonly.ckpt” model and “Cut” it so we can paste it in the correct folder .

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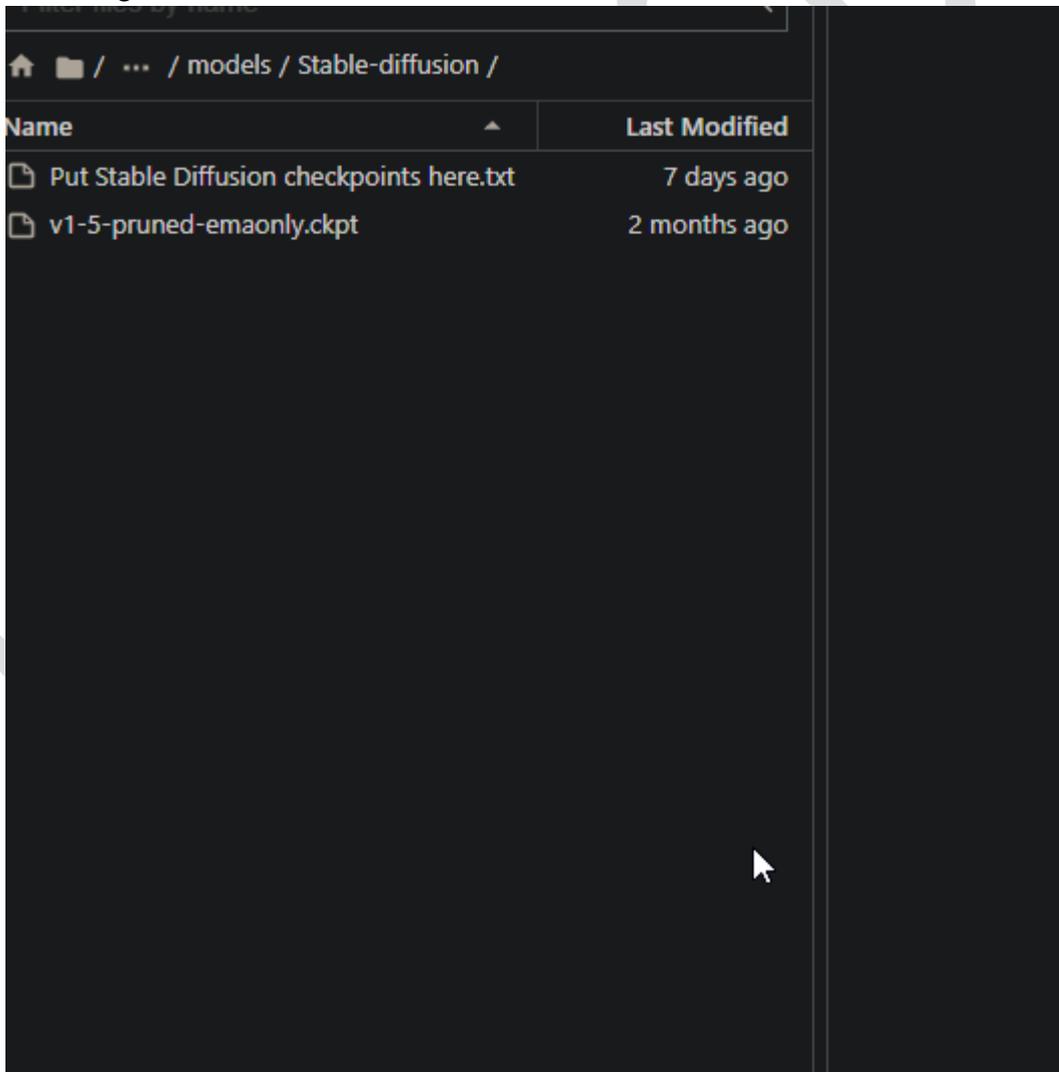


5. Navigate to the “models” folder and then “stable diffusion”, then right click and “Paste” the model here so our SD1.5 model is in the right folder



Name	Last Modified
Put Stable Diffusion checkpoints here.txt	7 days ago
v1-5-pruned-emaonly.ckpt	2 months ago

6. **Note: If you want to use another model in that folder, you need to download or upload the model to that folder also.**
7. Now navigate back to the main WebUI folder like such:

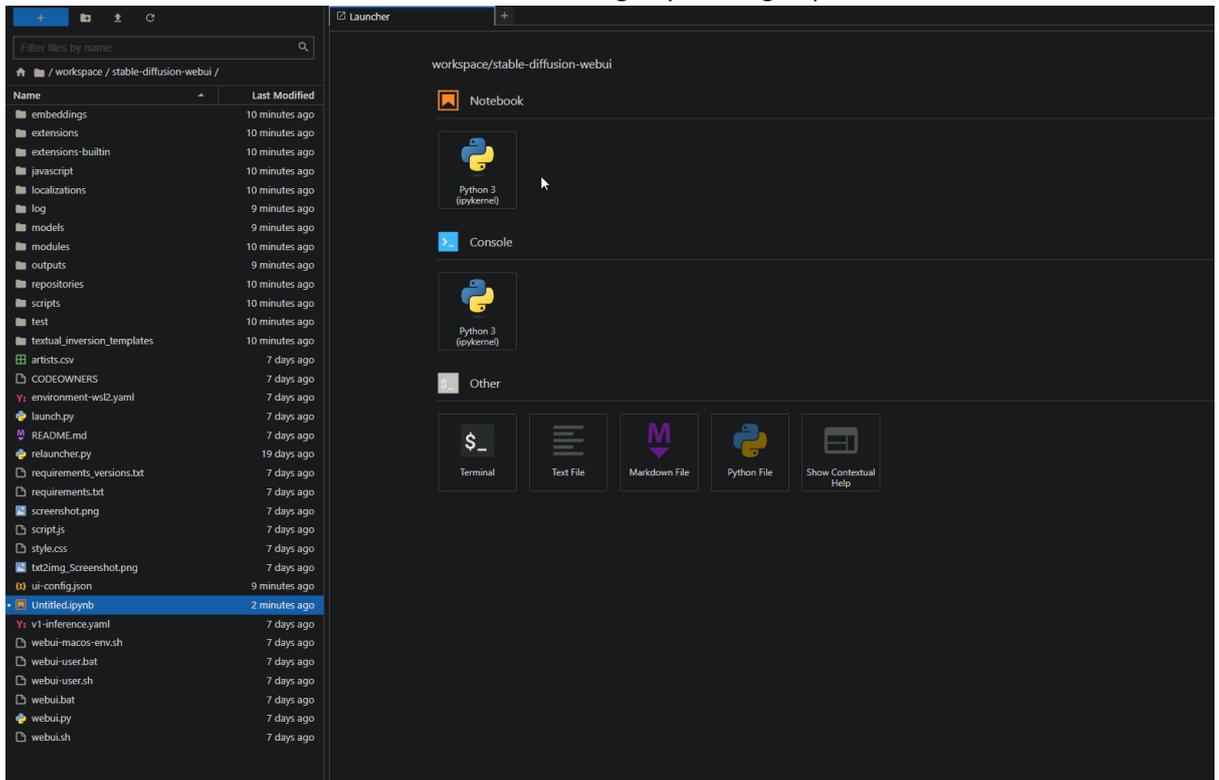


Home / ... / models / Stable-diffusion /

Name	Last Modified
Put Stable Diffusion checkpoints here.txt	7 days ago
v1-5-pruned-emaonly.ckpt	2 months ago

## Launch WebUI

1. While in the main WebUI folder, double click the “Python3 (ipykernel)” file to start a console where we write our launch command
2. Once you do this, there will be an empty console where you can paste your command in to launch your WebUI, the command I use is as follows:
  - a. ***!python launch.py --listen --share --gradio-auth myusername:mypassword --xformers***
3. This command will start to run the WebUI, installing any missing dependencies etc



4. Once it's ready, you will have a new link to load your gradio server where you can log in with the credentials you set in the launch parameters

```
[*]: !python launch.py --listen --share --gradio-auth myusername:mypassword --xformers
Python 3.10.8 (main, Nov 24 2022, 14:13:03) [GCC 11.2.0]
Commit hash: 44c46f0ed395967cd3830dd481a2db759fda5b3b
Fetching updates for Stable Diffusion...
Checking out commit for Stable Diffusion with hash: 47b6b607fdd31875c9279cd2f4f16b92e4ea958e...
Fetching updates for Taming Transformers...
Checking out commit for Taming Transformers with hash: 24268930bf1dce879235a7fddd0b2355b84d7ea6...
Fetching updates for CodeFormer...
Checking out commit for CodeFormer with hash: c5b4593074ba6214284d6acd5f1719b6c5d739af...
Fetching updates for BLIP...
Checking out commit for BLIP with hash: 48211a1594f1321b00f14c9f7a5b4813144b2fb9...
Installing requirements for CodeFormer
Installing requirements for Web UI

#####
Initializing Dreambooth
If submitting an issue on github, please provide the below text for debugging purposes:

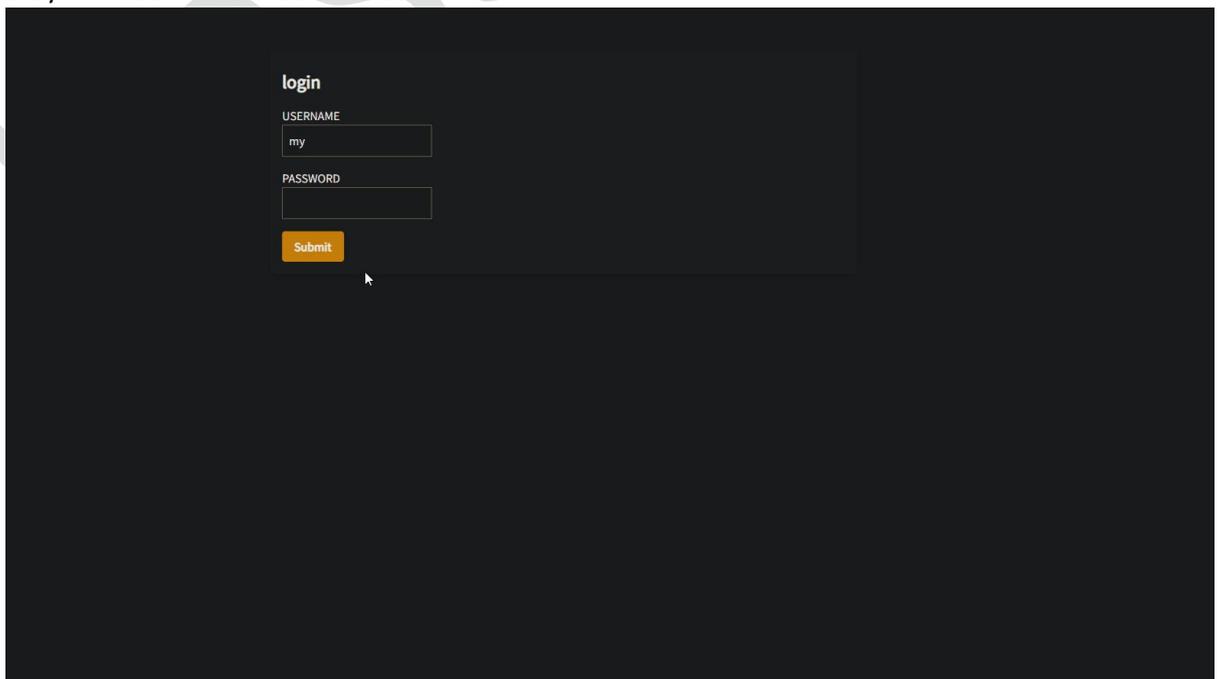
Python revision: 3.10.8 (main, Nov 24 2022, 14:13:03) [GCC 11.2.0]
Dreambooth revision: 3b79e654bb3f8b733c175f39005c3c98b7bc4d0
SD-WebUI revision: 44c46f0ed395967cd3830dd481a2db759fda5b3b

Checking Dreambooth requirements...
[+] bitsandbytes version 0.35.0 installed.
[!] diffusers[torch] version 0.11.0.dev0 installed.
[+] transformers version 4.25.1 installed.
[ ] xformers version 0.0.15.dev343+git.1b1fd8a installed.
[ ] torch version 1.12.1 installed.
[ ] torchvision version 0.13.1 installed.
#####

Launching Web UI with arguments: --listen --share --gradio-auth myusername:mypassword --xformers
Dreambooth API layer loaded
LatentDiffusion: Running in eps-prediction mode
DiffusionWrapper has 859.52 M params.
Loading weights [81761151] from /workspace/stable-diffusion-webui/models/your new web ui URL:emaonly.ckpt
Applying xformers cross attention optimization.
Model loaded.
Loaded a total of 0 textual inversion embeddings.
Embeddings:
Running on local URL: http://0.0.0.0:7860
Running on public URL: https://ca4e8cfef595701c.gradio.app
This share link expires in 72 hours. For free permanent hosting and GPU upgrades (NEW!), check out Spaces: https://huggingface.co/spaces

[ ]:
```

- 5.
- 6. Open the URL and login and you will have your normal WebUI running  
**Note:** The folder structure is the same as your local or colab UI, you put models in the models/stable-diffusion folder and you put your embeddings in the embeddings folder then they will load in the Gradio WebUI



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