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 <u>RunPod.IO</u>, 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.

1 c	Compare		2 c	onfigure		3 Dep	bloy
1x A100 80GB	~)	1x A40	~)	1x RTX A6000	~)	1x RTX 3090	~)
Min Specs	8 max	Min Specs	8 max	Min Specs	8 max	Min Specs	8 max
80 GB VRAM		48 GB VRAM		48 GB VRAM		24 GB VRAM	
- vCPU		- vCPU		- vCPU		26 vCPU	
- GB RAM		- GB RAM		- GB RAM		93 GB RAM	
Spot On-Demand	Unavailable \$2.09/hr	Spot On-Demand	Unavailable \$0.79/hr	Spot On-Demand	Unavailable \$0.79/hr	Spot On-Demand	\$0.25/hr \$0.44/hr
Currently Unavailable		Currently Unavailable		Currently Unavailable		Low Availability	
Unavaila	ble	Unavaila	able	Unavailab	le	Sel	lect
1x RTX A5000 Min Specs 24 GB VRAM 8 VCPU 29 GB RAM Spot On-Demand High Availability	> 10 max \$0.176/hr \$0.49/hr	1x RTX A4000 Min Specs 16 GB VRAM 6 vCPU 23 GB RAM Spot On-Demand High Availability	> 10 max \$0.188/hr \$0.34/hr				

- 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

Compare	2 Configure	3 Deploy
1x RTX 3090 Minimum Specs 24GB Video Memory 26 vCPU 93GB System Memory	Select a Template	Learn Mare
Container Disk	SSH Terminal Access	rungod/shuke-diffusion .web-automatic-1.5.2
Total Disk: 400 GB (0) Go Back		Continue
© RunPod 2022		

- 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 "<u>My Pods</u>" 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

RunPod SD Auto1111 v1.5	1 x RTX 3090 26 vCPU 93 GB RAM	runpod/stable-o On-Demand - Sec	diffusion:web-automatic-1.5.2 ure Cloud	• Running
200 GB Volume Volume Path: /workspace	🔇 CZ 🚳 813 Mbps 🚳 869 I	Mbps 🗟 1831 MBps		
Pod Uptime: 49s				8 seconds ago 🛛 🗘
Pod Utilization		GPU Utilization	GPU Memory Used	
CPU	0%	0	0% 0 🛑	11%
Mem	6%			
Avg GPU	11%			
Disk Utilization				
Volume	2%			
E Logs README Connect Cloud	Sync			\$0.44/hr

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

File Edit View Run Kernel	labs Settings Help
+ 🖬 🛨 C	I Launcher + +
Filter files by name Filter files by name / workspace / Name Last Mod outputs fides	workspace
stable-diffu a minutes examples 2 minutes welcome.ip 2 minutes	Double click this folder first
	Python 3 (pykeme) Other
	Image: Second system Image: Second system Image: Second system Image: Second system Terminal Text File Markdown File Python File Show Contextual Help

4. Now you should see your WebUI files, first thing is to right click the "v1-5-prunedemaonly.cktp" model and "Cut" it so we can paste it in the correct folder .

A	/ workspace / s	table	e-diffusion-webui /			١	vorksp	bace/st
Nar	ne		•	Last Modified				Notel
	embeddings		offer "Out	" double eli	ak tha M	odolo fol	dor	
	extensions		aller Out	, uouble cili			uei	
	extensions-builtin			4 minutes ago				2
	javascript			4 minutes ago				-
	localizations			4 minutes ago			Py (in	/thon 3 vkernel)
븯	log			3 minutes ago				yicerneij
	models			4 minutes ago				C
	modules	-	Open	1 minutor ano			2-	Cons
	outputs	-	Open With					
	repositories	+	Open in New Browser Tab		,			
	scripts		Download Current Folder	, as an Archive			_	5
	test	-	bounda carrenerolaer				P	thon 3
	textual_inversion_t	1	<u>R</u> ename		F2		(ip	ykernel)
⊞	artists.csv	×	<u>D</u> elete		Del			
ß	CODEOWNERS	×	Cut		Ctrl+X	J	\$_	Other
Y:	environment-wsl2.		<u>C</u> opy		Ctrl+C			
<i>.</i>	launch.py		<u>P</u> aste		Ctrl+V			
₩	README.md	'U •	Download		CIII+D			\$_
	relauncher.py	<u> </u>	Download					
ß	requirements_versi	D	Copy Download Link				Te	erminal
6	requirements.txt	ß	Copy Path					
	screenshot.png	Θ	Copy Shareable Link					
ß	script.js	E	New File					
٢	style.css		New Notebook					
	txt2img_Screensho		New Folder					
(;)	ui-config.json		Chift Dight Click for Drow	ror Monu				
ى	v1-5-pruned-emad	пую	кр.	z monus ago				
Y:	v1-interence.yaml			7 days ago				
Ľ	webui-macos-env.s	'n		7 days ago				
	webui-user.bat			7 days ago				
	webui-user.sh			7 days ago				
Ľ	webui.bat			7 days ago				
- -	webui.py			7 days ago				
ت	webui.sh			7 days ago				

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



6. Note: If you want to use another model in that folder, you need to download or upload the model to that folder also.





Launch WebUI

- 1. While in the main WebUI folder, double click the "Pyhton3 (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.pylistensharegradio-auth myusername:mypasswordxformers	⊡ 1
	Python 3.10.8 (main, Nov 24 2022, 14:13:03) [GCC 11.2.0] Commit hash: 44c46f0ed395967cd3830dd481a2db759fda5b3b	
	Fetching updates for Stable Diffusion Chercing out commit for Stable Diffusion with hack- d7h6h607fdd31875/0970rd7fdf16h02ndea058e	
	Fetching out counter for studie services with the service services and the service services and the service service service service services and the service service service service services and the service	
	Checking out commit for Taming Transformers with hash: 24268930bf1dce879235a7fddd0b2355b84d7ea6	
	retChing updates for CodeFormer Cherking out commit for CodeFormer with hash: r5h4593074ha6214284d6ard5f1719h6r5d739af	
	Fetching updates for BLP	
	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: 3b79e654bbb378b733c175f39065c3c98b7bc4d0	
	20-MEDD1 LEAT21001: 44f-4919607323291/07923000449197001231092020	
	Checking Dreambooth requirements	
	<pre>[+] bitsandbytes version 0.35.0 installed.</pre>	
	[!] diffusers[torch] version 0.11.0.dev0 installed.	
	[+] transformers version 4.25.1 installed.	
	[] Atomer's version d.d.13.devessight.httludd installed. [] torch version 1.12.1 installed.	
	[] torch vision version 0.13.1 installed.	
	· · · · · · · · · · · · · · · · · · ·	
	Launching Web UI with arguments:listensharegradio-auth myusername:mypasswordxformers	
	Dreambooth API layer loaded	
	LatentDiffusion: Running in eps-prediction mode	
	Diffusion/rapper has 859.52 M params. Loading weights [8151151] form /workpass/stable_diffusion_webui/models/ your new web ui URL amanaly stat	
	Louding weights [urviii] from your space-ball could will move synchronize the characteristic for the synchronized state of	
	Model loaded.	
	Loaded a total of 0 textual inversion embeddings.	
	NUMBING ON LOCAL ONLY INC. (1997) 70-00-03-7000	
	Running on public URL: https://ca4eactet595/01c.gradio.app	
	This share link expires in 72 hours. For free permanent hosting and GPU upgrades (NEW!), check out Spaces: https://huggingface.co/spaces	
[]:		
Ope	n the URL and login and you will have your normal WebUI running	
Nati		
Note	: The folder structure is the same as your local or colad UI, you put models in the	

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

	logi	ı	
	USER	IAME	
	my		
	PASSV	IORD	
	Sut	nit	
		*	
7			
/			