# AppForAl-Linux

AppForAI is AI Dev Tools. Packaging the AI development environment into Docker container, and providing a web interface for multiple people to connect at the same time. More than 180 featured algorithm SDK examples are provided.

Version 20230224

# Applications

 It can be applied to product defect detection, medical image analysis, artificial intelligence teaching materials, crime detection and prevention, access control and attendance, smart long-term care, public security, big data analysis, stock price inference, financial index inference, research and development, etc.

• Download URL : <u>https://www.leaderg.com/appforai-linux</u>

- Download command:
  - wget https://d.leaderg.com/api/appforai-linux/release -O AppForAI.7z

- Unzip command:
  - 7z x AppForAI.7z

- Install and update the graphics card driver.
- Please refer to <a href="https://www.leaderg.com/article/index?sn=11544">https://www.leaderg.com/article/index?sn=11544</a>

- Install Docker.
- Please refer to <a href="https://www.leaderg.com/article/index?sn=11541">https://www.leaderg.com/article/index?sn=11541</a>

- bash AppForAl.sh
- Basic features are free. Please sponsor a subscription to AppForAl for advanced features.
- Enter a and press enter.
- Enter the subscription code.



# AppForAl Menu

#### • bash AppForAl.sh

- a: Subscribe to advanced features.
- f: Enter Basic SDK menu.
- s: Enter Advanced SDK menu.
- d: Enter Docker menu.
- u: Update AppForAl.
- m: Display the current menu.
- h: Help.
- q: Leave the software.



- Process: Installation => Download Docker image => Load Docker image => Run Docker container => Download SDK => Run the SDK by using JupyterLab.
- Please go to the Docker menu (d) to Download Docker folder first.

# Docker – Instruction Step 1

- Use AppForAI to download Docker related files.
- bash AppForAl.sh
- Enter d to enter the Docker menu.

Menu:	
[ a]	Activate.
[ f]	Enter Basic SDK menu.
[ s]	Enter Advanced SDK menu.
[ d]	Enter Docker menu.
[ U]	Update Apps4AI.
[ m]	Show menu.
[ h]	Help.
[ q]	Quit.
=====	
Comma	and (Enter 'm' for menu.): d
LEAD	RG AppForAI - Linux - Version 2303 - Basic Editio
Menu	/docker
Menu [ d]	/docker   Download docker folder. (The first step)
Menu: [ d] [ a]	: /docker   Download docker folder. (The first step)   bash docker/image_list.sh
Menu: [ d] [ a] [ b]	: /docker   Download docker folder. (The first step)   bash docker/image_list.sh   bash docker/image_load.sh
Menu: [ d] [ a] [ b] [ c]	: /docker   Download docker folder. (The first step)   bash docker/image_list.sh   bash docker/image_load.sh   bash docker/image_remove.sh
Menu: [ d] [ a] [ b] [ c] [ e]	: /docker   Download docker folder. (The first step)   bash docker/image_list.sh   bash docker/image_load.sh   bash docker/image_remove.sh   bash docker/container_list.sh
Menu: [ d] [ a] [ b] [ c] [ e] [ f]	: /docker   Download docker folder. (The first step)   bash docker/image_list.sh   bash docker/image_load.sh   bash docker/image_remove.sh   bash docker/container_list.sh   bash docker/container_run.sh
Menu: [ d] [ a] [ b] [ c] [ e] [ f]	: /docker   Download docker folder. (The first step)   bash docker/image_list.sh   bash docker/image_load.sh   bash docker/image_remove.sh   bash docker/container_list.sh   bash docker/container_run.sh   bash docker/container_stop.sh
Menu: [ d] [ b] [ c] [ e] [ f] [ g] [ j]	/docker   Download docker folder. (The first step)   bash docker/image_list.sh   bash docker/image_load.sh   bash docker/image_remove.sh   bash docker/container_list.sh   bash docker/container_run.sh   bash docker/container_stop.sh   bash docker/container_stop_all.sh
Menu: [ d] [ a] [ b] [ c] [ e] [ f] [ j] [ j] [ k]	<pre>/docker Download docker folder. (The first step) bash docker/image_list.sh bash docker/image_load.sh bash docker/image_remove.sh bash docker/container_list.sh bash docker/container_run.sh bash docker/container_stop.sh bash docker/container_stop_all.sh bash docker/container_start.sh</pre>
Menu: [ d] [ a] [ b] [ c] [ f] [ g] [ j] [ k] [ n]	<pre>/docker Download docker folder. (The first step) bash docker/image_list.sh bash docker/image_load.sh bash docker/image_remove.sh bash docker/container_list.sh bash docker/container_run.sh bash docker/container_stop.sh bash docker/container_stop_all.sh bash docker/container_start.sh bash docker/container_restart.sh</pre>
Menu: [ d] [ a] [ c] [ c] [ f] [ g] [ j] [ n] [ n] [ <u>p]</u>	<pre>/docker Download docker folder. (The first step) bash docker/image_list.sh bash docker/image_load.sh bash docker/image_remove.sh bash docker/container_list.sh bash docker/container_run.sh bash docker/container_stop.sh bash docker/container_stop_all.sh bash docker/container_start.sh bash docker/container_restart.sh bash docker/container_remove.sh</pre>
Menu: [ d] [ a] [ c] [ c] [ f] [ g] [ f] [ ] [ ] [ ] [ ]	<pre>/docker Download docker folder. (The first step) bash docker/image_list.sh bash docker/image_load.sh bash docker/image_remove.sh bash docker/container_list.sh bash docker/container_run.sh bash docker/container_stop.sh bash docker/container_stop_all.sh bash docker/container_start.sh bash docker/container_restart.sh bash docker/container_remove.sh bash docker/container_remove_all.sh</pre>
Menu: [ d] [ a] [ b] [ c] [ c] [ f] [ g] [ s] [ r] [ s]	<pre>/docker / Download docker folder. (The first step) / bash docker/image_list.sh / bash docker/image_load.sh / bash docker/image_remove.sh / bash docker/container_list.sh / bash docker/container_run.sh / bash docker/container_stop.sh / bash docker/container_stop_all.sh / bash docker/container_restart.sh / bash docker/container_remove.sh / bash docker/container_remove_all.sh / bash docker/container_remove_all.sh / bash docker/container_remove_folder.sh</pre>
Menu: [ d] [ b] [ c] [ c] [ c] [ f] [ s] [ r] [ s] [ v]	<pre>/docker Download docker folder. (The first step) bash docker/image_list.sh bash docker/image_load.sh bash docker/image_remove.sh bash docker/container_list.sh bash docker/container_run.sh bash docker/container_stop.sh bash docker/container_stop_all.sh bash docker/container_restart.sh bash docker/container_restart.sh bash docker/container_remove.sh bash docker/container_remove_all.sh bash docker/container_remove_folder.sh Return to Uppper Menu.</pre>

# Docker – Instruction Step 2

• Enter d. Download docker folder. Wait for around 20 minutes to complete.



Command (Enter 'm' for menu.): d This application is going to download docker folder. Do you want to DELETE curre nt docker folder? (Press 'y' for delete. Press 'n' to cancel.) delete folder tree Error opendir() docker/ Content-Length: 8478798143 Accept-ranges: bytes Downloading docker-8 (7.90 GB) 100% [==========] 7.90 GB 110.43MB/s eta 00:00:00 Download finished. 7-Zip (z) 21.07 (x64) : Copyright (c) 1999-2021 Igor Pavlov : 2021-12-26 64-bit locale=en US.UTF-8 Threads:20, ASM Scanning the drive for archives: 1 file, 8478798143 bytes (8087 MiB) Extracting archive: temp/docker-8.7z Path = temp/docker - 8.7zType = 7zPhysical Size = 8478798143 Headers Size = 549 Method = LZMA2:24Solid = + Blocks = 3Everything is Ok Files: 21 Size: 22671259536 Compressed: 8478798143 Extract finished.

# Docker – Instruction Step 3

- Enter j ` r ` c · Stop and remove the container, then remove the Docker image from the device.
- Then enter b to load the Docker image. It will take around 20 minutes.

Command (Enter	- 'm' for	- menu.	) Ь	
805802706667:	Loading	layer	05.01MB/65.61MB	
3fd9df553184:	Loading	layer	15.87kB/15.87kB	
7a694df0ad6c:	Loading	layer	3.072kB/3.072kB	
964ee116c0c0:	Loading	layer	17.1MB/17.1MB	
ef8330bcc944:	Loading	layer	30.5MB/30.5MB	
53194dce1444:	Loading	layer	22.02kB/22.02kB	
03aea7c9e3d1:	Loading	layer	1.825GB/1.825GB	
842c2ffdcad9:	Loading	layer	1.661GB/1.661GB	
7c5bac6625f7:	Loading	layer	2.56kB/2.56kB	
da9bcdfd9f44:	Loading	layer	19.59MB/19.59MB	
b074d8b59639:	Loading	layer	1.688MB/1.688MB	
19ce0d0a20ea:	Loading	layer	4.096kB/4.096kB	
98c68d8ad6da:	Loading	layer	4.096kB/4.096kB	
79c13cee56df:	Loading	layer	6.656kB/6.656kB	
cf48d04f64bd:	Loading	layer	421.4kB/421.4kB	
6d88b4073352:	Loading	layer	3.072kB/3.072kB	
df53318032e0:	Loading	layer	236MB/236MB	
b37772f2f020:	Loading	layer	44.03kB/44.03kB	
e77b5967ff55:	Loading	layer	389.2MB/389.2MB	
4f8e88153825:	Loading	layer	12.8kB/12.8kB	
8637073a5e0f.	Loading	laver	5 12kB/5 12kB	

ADERG AppFor	AI - Linux ·	· Version 2303 - Basic Edi	ition			
nu: /docker dl Download	docker fold	ler. (The first step)				
a] bash doc	ker/image_li	st.sh				
b] bash doc	ker/image_lo	oad.sh				
e] bash doc	ker/containe	er list.sh				
f] bash doc	ker/containe	er_run.sh				
g] bash doc	ker/containe	er_stop.sh				
k] bash doc	ker/containe	er_start.sh				
n] bash doc	ker/containe	r_restart.sh				
pj bash doc rl bash doc	ker/containe ker/containe	er_remove.sh er remove all.sh				
s] bash doc	ker/containe	r_remove_folder.sh				
u] Return t	o Uppper Mer	10.				
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mmand (Enter	'm' for mer	nu.): j				
do docker ps						
NTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	
15c3be8fe6	appsforai	"jupyter laballow"	2 weeks ago	NAMES Up 2 weeks (healthy)	0.0.0.0:8803	
8801/tcp, :: 9ca3188c1f	:8803->8801/ appsforai	/tcp, 0.0.0.0:8003->8888/1 "jupyter laballow"	tcp, :::8003->8 2 weeks ago	3888/tcp user8003 Up 2 weeks (healthy)	0.0.0.0:8802	
ffb1408953 8801/tcp, ::	appsforai :8801->8801/	"jupyter laballow" 'tcp, 0.0.0.0:8001->8888/1	2 weeks ago tcp, :::8001->8	Up 2 weeks (healthy) 3888/tcp user8001	0.0.0.0:8801	
opping all c	ontainers.					
e you sure?	(y/n)y					
do docker st	op 1b15c3be8	3fe6 829ca3188c1f 57ffb140	08953			
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nmand (Enter	'm' for men	u.): r			,	
do docker ps						
NTAINER ID NAMES	IMAGE	COMMAND	CREATED	STATUS	PORTS	
L5c3be8fe6 Jser8003	appsforai	"jupyter laballow"	2 weeks ago	Exited (0) 7 seconds	ago	
ea3188c1f Jser8002	appsforai	"jupyter laballow"	2 weeks ago	Exited (0) 6 seconds	ago	
ffb1408953 Jser8001	appsforai	"jupyter laballow"	2 weeks ago	Exited (0) 8 seconds	ago	
noving all user containers.						
e you sure?	(y/n)y					
do docker rm	1b15c3be8fe	6 829ca3188c1f 57ffb14089	953			
L5c3be8fe6 9ca3188c1f ffb1408953						
nmand (Enter	'm' for men	u.): c				

### JupyterLab – Instruction Step

- From Main Menu, enter d to enter the docker menu.
- Run the docker container to use jupyterLab.
  - Enter f => enter the settings => use a browser to open the URL => jupyterLab.

	Command (Enter 'm' for menu.): f
<pre>LEADERG AppForAI - Linux - Version 2303 - Basic Edition Menu: /docker [ d] Download docker folder. (The first step) [ a] bash docker/image_list.sh [ b] bash docker/image_load.sh [ c] bash docker/image_remove.sh [ e] bash docker/container_list.sh [ f] bash docker/container_run.sh [ g] bash docker/container_stop.sh [ j] bash docker/container_stop_all.sh [ k] bash docker/container_start.sh [ n] bash docker/container_restart.sh [ n] bash docker/container_remove.sh [ r] bash docker/container_remove.sh [ r] bash docker/container_remove_all.sh</pre>	<pre>Please input user_type (super user: 1, normal user: 0, default is 1): user_type=1 Please input user_count (default is 1): user_count=1 Please input public port number for private port 8888 of JupyterLab (default is 8001): public_port_1=8001 Please input public port number for private port 8801 (default is 8801): public_port_2=8801 Please input user_memory size (default is 10GB): user_memory=10GB Please input user_cpus number (default is 4): user_cpus=4 Please input device (default isgpus device=all, CPU only is nogpu): gpus device=all Please input other_docker_options (default is empty): other_docker_options= Running user8001 container: super user /dev/sod</pre>
[ u] Return to Uppper Menu. [ q] Quit.	/dev/snd user_memory=10GB user_cpus=4 gpu_device=gpus device=all
command (Enter 'm' for menu.):	Please use browser to connect to <a href="http://127.0.0.1:8001">http://127.0.0.1:8001</a> . The private port 8888 of JupyterLab is mapping to public port 8801. The default JupyterLab assword is appsforai. Please remember to change the default JupyterLab password.

# Container – Instructions 1/4

- e : (list.sh) Show all containers.
- f : (run.sh) Create new container.
- g : (stop.sh) Stop container.
- j : (stop\_all.sh) Stop all containers.
- k : (start.sh) Start the container.
- n : (restart.sh) Restart the container.

```
LEADERG AppForAI - Linux - Version 2303 - Basic Edition
Menu: /docker
   d] Download docker folder. (The first step)
   a] bash docker/image list.sh
   b] bash docker/image_load.sh
      bash docker/image remove.sh
   c1
      bash docker/container list.sh
   el
      bash docker/container run.sh
      bash docker/container stop.sh
      bash docker/container stop all.sh
      bash docker/container_start.sh
   n] bash docker/container_restart.sh
      bash docker/container remove.sh
   [ם
      bash docker/container remove all.sh
   s] bash docker/container_remove_folder.sh
   u] Return to Uppper Menu.
      Ouit.
Command (Enter 'm' for menu.):
```

- p : (remove.sh) Delete the container. One thing to note is that after removal, the user's environment will be removed, but the user folder will not be deleted.
- r : (remove\_all.sh) Delete all containers.
- s : remove\_folder Delete the docker user's folder.

# Container – Instructions 2/4

- If run f (run.sh) shows error, docker: Error response from daemon: Conflict. The container name "/userxxx" is already in use by container...
- Indicates that the container has been created before, please enter e (list.sh) to view the list and status of all containers. Check out userxxx's STATUS:
  - If it is Up, it means that the container has started, and you can use it directly by entering the URL in the browser.
  - If it is Exited, it means the container has stopped. Please enter k (start.sh) and enter the URL in the browser to use it.

# Container – Instructions 3/4

 Run p (remove.sh) => get Error response from daemon: You cannot remove a running container. Stop the container before attempting removal or force remove.

 Indicates that the container is still running and cannot be deleted.
 Please enter g (stop.sh) to stop the container, and then run p (remove.sh) to delete.

# Container – Instructions 4/4

 Run r (remove\_all.sh) => get Error response from daemon: You cannot remove a running container. Stop the container before attempting removal or force remove.

Indicates that the container is still running and cannot be deleted.
 Please stop container j (stop\_all.sh) before running r (remove\_all.sh) to remove all containers.

• Run JupyterLab's Terminal.



• Enter jupyter notebook password to set new password.



• File -> Shut Down -> Shut Down to enable new password.

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E	- C & 0	127.0.0.1:8	001/lab	··· 🖂 🖒 🗹 📽 🧮	*	) + C @ 0	D 127.0.0.1:8001/la	b? ···· ⊡ ☆ in ⊡ @ #' ≡
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0	New View for New Consule for Activity		ago ago	Verity password: [NotebookPasswordApp] Wrote hashed password to /home/user8001/.jupyter/jupyter_notebook_config.json user8001839126ccce7b1:-\$ []	0	Jupyter-BERT     Jupyter-Chatterbot     Jupyter-COM	a month ago a month ago a month ago	<pre>(NotebookRasswordApp) Wrote hashed password to /home/user8001/.jupyter/jupyter_notebook_config.json user8001g39126ccce7b1:-5 []</pre>
63	Close Tab Close and Shutdown Terminal Close All Tabs	Alt+W Ctrl+Shift+Q	ago ago		83	Jupyter-CURL     Jupyter-Data-Conv1D-Keras     Jupyter-Data-Dense-Sin-PyTo	a month ago a month ago	
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	Download Export Notebook As	,	ago ago ago			Jupyter-Data-Grahere-Boost     Jupyter-Data-JSON     Jupyter-Data-LightGBM-Classe	a month ago a month ago a a month ago	
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1.0	<ul> <li>Jupyter-Data-Regression-Fore.</li> <li>O</li></ul>		h ago	Terminal 1	1			Terrinal 1

#### • Refresh your browser.

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5	File Edit warw Run Kernel Tab	s Settings Help				
	+ 10 ±	c	Terminal 1 ×			
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2	Name +	Last Modified	Enter password:			
	Jupyter-BERT	a month ago	[NotebookPasswordApp] wrote hashed password to /	home/user8001/.jupyter/jupyter_notebook_config.json		
0	<ul> <li>Jupyter-Chatterbot</li> </ul>	a month ago	user8001039126ccce7b1:-\$ []			
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3	Jupyter-Data-Conv1D-Keras	a month ago				
	Jupyter-Data-Dense-Sin-PyTo	a month ago				
9	Jupyter-Data-Dense-Stock-Py	a month ago				
	Jupyter-Data-Fraud-Detection	25 days ago				
3	Jupyter-Data-Genetic-Algorith	25 days ago	Server stopped			
	Jupyter-Data-Genetic-Algorith.	25 days ago		in the second		
F	Jupyter-Data-Genetic-Algorith	25 days ago	You have shut down the Jupyter server. You can now close To use JupyterLab again, you will need to relaunch it.	r tris lab.		
	Jupyter-Data-Gradient-Boost	a month ago				
	Jupyter-Data-Gradient-Boost	a month ago				
	Jupyter-Data-JSON	a month ago				
	Jupyter-Data-LightGBM-Classi	a month ago				
	Jupyter-Data-LightGBM-Regr	a month ago				
	Jupyter-Data-LSTM-PyTorch	a month ago				
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	I Jupyter-Data-Regression-Fore	a month ago				
	Jupyter-Data-Repression-Fore	a month ago				

# Reset JupyterLab Password

 Remove AppForAl/docker\_users/userxxx/.jupyter folder to reset password

# SDK

- From Main Menu
  - enter f to enter the Basic SDK menu.
  - enter s to enter the Advanced SDK menu.
- From the SDK list, enter the SDK serial number to download.

le	enu:	/SDK		
	1]	Download	SDK:	Jupyter-BERT-3
	2]	Download	SDK:	Jupyter-BERT-Chinese-Text-Classification-Pytorch-3
	3]	Download	SDK:	Jupyter-COM-2
	4]	Download	SDK:	Jupyter-CURL-3
	5]	Download	SDK:	Jupyter-Chatterbot-2
	6]	Download	SDK:	Jupyter-Data-Conv1D-Keras-7
	7]	Download	SDK:	Jupyter-Data-Dense-Sin-PyTorch-3
	8]	Download	SDK:	Jupyter-Data-Dense-Stock-PyTorch-3
	9]	Download	SDK:	Jupyter-Data-Fraud-Detection-3
	10]	Download	SDK:	Jupyter-Data-Genetic-Algorithm-Flow-Shop-2
	11]	Download	SDK:	Jupyter-Data-Genetic-Algorithm-Job-Shop-2
	12]	Download	SDK:	Jupyter-Data-Genetic-Algorithm-Job-Shop-NSGA-II-2
	13]	Download	SDK:	Jupyter-Data-Gradient-Boosting-Classification-4
	14]	Download	SDK:	Jupyter-Data-Gradient-Boosting-Regression-4
	15]	Download	SDK:	Jupyter-Data-JSON-1
	16]	Download	SDK:	Jupyter-Data-LSTM-PyTorch-5
	17]	Download	SDK:	Jupyter-Data-LightGBM-Classification-5
	18]	Download	SDK:	Jupyter-Data-LightGBM-Regression-4
	19]	Download	SDK:	Jupyter-Data-Matplot-Stock-2
	20]	Download	SDK:	Jupyter-Data-Read-Sin-2
	21]	Download	SDK:	Jupyter-Data-Read-Write-CSV-2
	22]	Download	SDK:	Jupyter-Data-Read-Write-Excel-2
	23]	Download	SDK:	Jupyter-Data-Regression-Forest-4
	24]	Download	SDK:	Jupyter-Data-Regression-Forest-Sin-5
	25]	Download	SDK:	Jupyter-Data-Regression-Forest-Stock-3
	26]	Download	SDK:	Jupyter-Data-SVM-2
	27]	Download	SDK:	Jupyter-Data-Taiwan-Mask-1
	28]	Download	SDK:	Jupyter-Data-XGBoost-Classification-5
	29]	Download	SDK:	Jupyter-Data-XGBoost-GPU-Test-1
	30]	Download	SDK:	Jupyter-Data-XGBoost-Regression-5
	31]	Download	SDK:	Jupyter-Data-XGBoost-Regression-Stock-Taiwan-3
	32]	Download	SDK:	Jupyter-Data-XGBoost-Regression-Time-Series-4
	33]	Download	SDK:	Jupyter-File-Batch-Rename-2
	34]	Download	SDK:	Jupyter-File-Download-2
	35]	Download	SDK:	Jupyter-GPT-2-2
	36]	Download	SDK:	Jupyter-GPT-2-Chinese-3
	37]	Download	SDK:	Jupyter-Http-Server-AIOHTTP-4
	38]	Download	SDK:	Jupyter-Http-Server-Flask-2
	39]	Download	SDK:	Jupyter-Image-Augmentation-2
	40]	Download	SDK:	Jupyter-Image-Barcode-3
	41]	Download	SDK:	Jupyter-Image-Barcode-Generator-2
	42]	Download	SDK:	Jupyter-Image-Batch-Resize-2
	43]	Download	SDK:	Jupyter-Image-Classification-3D-ResNets-2

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Scanning the drive for archives: 1 file, 1023 bytes (1 KiB)

Extracting archive: temp/Jupyter-COM-2.7z

Path = temp/Jupyter-COM-2.7z Type = 7z Physical Size = 1023 Headers Size = 238 Method = LZMA2:12 Solid = + Blocks = 1

Everything is Ok

Files: 4 Size: 2646 Compressed: 1023 Extract finished.

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- LEADERG AppForAl-Linux : <u>https://www.leaderg.com/appforai-linux</u>
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