

aiDAPTIV+ Pro Suite 2.0 Install guide

Version 1.5

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1. ENVIRONMENT PREPARATION

This program provides one-click installation.

Users only need to execute **install.sh** to complete the deployment.

Name	Version
Pro Suite	NXUN_2.0.5
aiDAPTIVLink	aidaptiv-vNXUN_2_01_00

1.1. Supported OS and Nvidia driver version

Category	Detail
OS	Ubuntu 22.04 LTS Desktop
GPU driver	Nvidia driver version 550 or later version

1.2. Precautions before installation

1. Please do not use special characters in folder or file names such as whitespace, , !, ?, ', @, #, \$, %, ^, &, *, (,), +

2. TCP Port

Service Name	Port
Pro Suite Web	8899, 8799
Pro Suite Service	3019, 5432, 9400, 7017, 8000
Prometheus	3090, 9100

- 3. Confirm that the installation environment can connect to the external network.
- 4. If you are using SSH to remotely connect to the machine, please enter the following command enable X11 forwarding.

ssh -X user@remote_host

5. Please enter the following command in the terminal to confirm whether the system recognizes the NVIDIA GPU card.

```
user@prosuite-dev:~$ sudo lshw -c display
[sudo] password for user:
 *-display
   description: VGA compatible controller
   product: NVIDIA Corporation
   vendor: NVIDIA Corporation
   physical id: 0
```



6. Please enter the following command in the terminal to confirm the current time zone of the system.

Check timezone on linux
user@prosuite-dev:~\$ cat /etc/timezone
Asia/Taipei

7. To change the time zone, please enter the following command in the terminal

Change timezone, e.g to Asia/Taipei

user@prosuite-dev:~\$ sudo timedatectl set-timezone Asia/Taipei

2. INSTALLATION

2.1. Place Pro Suite tar file within the Linux environment.

For example: Pro_Suite.tar

Pro_Suite.tar	
F	user@prosuite-dev: ~/Desktop
user@prosuite-dev:~/Desktop\$ total 468K	is -alh
drwxr-xr-x 2 user user 4.0K	
drwxr-x 18 user user 4.0K	
-rw-rw-r 1 user user 460k user@prosuite-dev:~/Desktop\$	<pre>% + 8 20:41 Pro_Suite.tar %]</pre>

Figure 2-1 Pro Suite tar file

2.2. Unzip Pro Suite tar file

Enter the following command in the terminal to decompress the Pro Suite installation package.

tar xvf Pro_Suite.tar

Pr	o_Suite.tar	
F	user@prosuite-dev: ~/Desktop	
use Pro Pro Pro Pro Pro Pro Pro	<pre>r@prosuite-dev:~/Desktop\$ tar xvf Pro_Suite.tar _Suite/ _Suite/phison-compose.yaml _Suite/README.md _Suite/install.sh _Suite/phison-image.env _Suite/.install.sh.swp _Suite/LICENSE _Suite/Makefile _Suite/makefile</pre>	
Pro Pro Pro Pro Pro	_Suite/pkg/ _Suite/pkg/dataset/ _Suite/pkg/dataset/sample_instruction_data_1k_public.json _Suite/phison-config.env _Suite/config/	

Figure 2-2 Unzip Pro Suite tar file



2.3. Execute install.sh

Enter the following command in the terminal to execute install.sh

cd Pro_Suite/
sudo ./install.sh

If the yad package is missing, a message will pop up asking to install the yad package. Please enter "y" to continue.



Figure 2-3 Install yad package

After executing install.sh, the main installation menu will appear.

🍐 Selec	t an action@prosuite-dev			—		Х
Num	Action	Describe				
0	Install Pro Suite	Mount ai100 disk, apt install				
1	Get Pro Suite status	Get Pro Suite container status				
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package versi	on			
3	Start Pro Suite all service	Startup Pro Suite service				
4	Stop Pro Suite all service	Stop Pro Suite service				
5	Restart Pro Suite all service	Only restart Pro Suite service				
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall				
7	Download llm models	Download IIm model from huggingface				
8	Enter Debug Mode	Debug mode				
9	Exit Script	Exit				
			Exit		Sele	ect

Figure 2-4 Mainmenu

2.3.1. Num 0, Install Pro Suite

- Available SSD(s) will be listed, please select the aiDAPTIVCache SSD.
- If you have already created or mounted the required LVM through Pro Suite, then the Pro Suite installation process will start directly.

Note: If you created LVM or mounted LVM yourself. Then you need to remove LVM setting first.



Figure 2-5 Mount aiDAPTIVCache

• Program will install apt packages and pull images

2024-10-30 16:19:16 : [info] Check apt package: docker-compose-plugin 2024-10-30 16:19:16 : [info] Check apt package: nyidia-driver-550	
2024-10-30 16:19:16 · [info] Check ant package nvidia-driver-550	
2024-10-30 16:19:16 : [info] Check apt package: nvidia-container-runtime	
2024-10-30 16:19:16 : [info] Check apt package: nvtop	
2024-10-30 16:19:16 : [info] Config docker /etc/docker/daemon.json	
2024-10-30 16:19:16 : [info] Starting docker service	
2024-10-30 16:19:16 : [info] Try docker login, attempt 1.	
2024-10-30 16:19:18 : [info] Successful login docker.	
2024-10-30 16:19:18 : [info] Total image is 16.	
2024-10-30 16:19:18 : [info] Pulling the 1/16 docker image licensesp/aidaptiv_web:6	512
2024-10-30 16:19:25 : [info] Pulling the 2/16 docker image licensesp/aidaptiv_api:N	NUX
2024-10-30 16:19:27 : [info] Pulling the 3/16 docker image licensesp/km-api:NXUN_2.	0.0
2024-10-30 16:19:29 : [info] Pulling the 4/16 docker image licensesp/auto-awq:v1.0.	7.

• When the installation process has completed, program will display the Pro Suite website URL(s)

Install Finished	-		×
Pro Suite is running, you can visit website from below url: http://localhost:8899 http://127.0.0.1:8899 http://127.168.41.168:8899 http://172.18.0.1:8899 http://172.17.0.1:8899			
Login account: admin@aidaptiv.com Please change passoword after your first time log-in asap Login password: Admin8299			
		ОК	

Figure 2-6 Pro Suite website URL



3. UNINSTALLATION PROCESS

3.1. Select *Num 6* to execute the uninstallation process.

		Select an action	-		×
Num	Action	Describe			
0	Install Pro Suite	Mount ai100 disk, apt install			
1	Get Pro Suite status	Get Pro Suite container status			
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version			
3	Start Pro Suite all service	Startup Pro Suite service			
4	Stop Pro Suite all service	Stop Pro Suite service			
5	Restart Pro Suite all service	Only restart Pro Suite service			
	Uninstall Pro Suite all service	Stop Pro Suite and uninstall			
7	Download llm models	Download llm model from huggingface			
8	Enter Debug Mode	Debug mode			
9	Exit Script	Exit			
		Exit		Selec	ct

Figure 3-1 Mainmenu

- The user will be asked to confirm the following before the uninstallation process will start.
- 1. Whether to remove LVM Raid0?
- 2. Whether to remove Pro Suite docker image?
- 3. Whether to remove Pro Suite data?

Uninstall progress	-		×
Uninstalling			
Uninstall Log Stop Pro Suite docker containers. Delete docker network Remove folder /mt/data/local-data Remove /etc/apt/sources.list.d/nvidia-container-toolkit-keyring.gpg. Remove /etc/apt/sources.list.d/nvidia-container-toolkit.list. Remove /etc/apt/sources.list.d/docker.list. Logical volume "prosuite-rd" successfully removed Volume group "prosuite-rd" successfully removed Remove /mt/nvme0 from /etc/fstab			
		Close	

Figure 3-2 Uninstallation process



4. UPGRADE PRO SUITE

- 1. Execute the install.sh
- 2. Select Num 2 "Upgrade Pro Suite all service"

Note: Only supported on Pro Suite NXUN_2.0.X versions.

💧 Select	t an action@prosuite-dev		_		×
Num	Action	Describe			
0	Install Pro Suite	Mount ai100 disk, apt install			
1	Get Pro Suite status	Get Pro Suite container status			
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version			
3	Start Pro Suite all service	Startup Pro Suite service			
4	Stop Pro Suite all service	Stop Pro Suite service			
5	Restart Pro Suite all service	Only restart Pro Suite service			
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall			
7	Download llm models	Download IIm model from huggingface			
8	Enter Debug Mode	Debug mode			
9	Exit Script	Exit			
			Exit	Sele	ect

Figure 4-1 Upgrade Pro Suite all service

Upgrade process

2024-11-01 18:19:28 : [info] St	op Pro Suite services by docker compose.
[+] Running 11/11	
 Container chroma 	Removed0.4s
 Container rabbitmq 	Removed1.2s
✓ Container km-api	Removed10.23
 Container device_resources 	Removed 0.3s
 Container mongodb 	Removed8.4s
 Container node_exporter 	Removed0.2s
 Container reranker 	Removed10.2s
 Container aidaptiv-Frontend 	Removed10.3s
 Container prometheus 	Removed0.3s
 Container aidaptiv-backend 	Removed0.2s
 Container postgresql 	Removed0.1s
2024-11-01 18:19:38 : [info] St	cop Pro Suite services by docker network.
2824-11-01 18:19:38 : [info] Ti	y docker login, attempt 1.
2024-11-01 18:19:40 : [info] Si	uccessful login docker.
2024-11-01 18:19:40 : [info] To	stal image is 16.
2024-11-01 18:19:40 : [info] Pi	ulling the 1/16 docker image licensesp/aidaptiv_web:651227d5.
2024-11-01 18:19:42 : [info] Pi	ulling the 2/16 docker image licensesp/aidaptiv_api:NXUN_2.0.0-0005.
2024-11-01 18:19:45 : [info] Pi	alling the 3/16 docker image licensesp/km-api:NKUN_2.0.0E-0002-12-gd9799fc.
2024-11-01 18:19:47 : [info] Pi	alling the 4/16 docker image licensesp/auto-awg:v1.0.7.
2824-11-81 18:19:49 : [info] Pi	alling the 5/16 docker image licensesp/device-resources:z142zz7564.
2024-11-01 18:19:51 : [info] Pi	alling the 6/16 docker image licensesp/aidaptivinbox:9d1579f.
2024-11-01 18:19:53 : [info] Pi	alling the 7/16 docker image licensesp/aidaptiv:vNXUN_2_01_00.
2024-11-01 18:19:55 : [info] Pi	alling the 8/16 docker image docker:rc-dind.
2024-11-01 18:19:57 : [info] Pi	alling the 9/16 docker image mongo:7.0.9.
2024-11-01 18:19:59 : [info] Pi	alling the 10/16 docker image chromadb/chroma:0.5.0.
2024-11-01 18:20:01 : [info] Pi	alling the 11/16 docker image bitnaml/postgresql:16.2.0-debian-12-r15.
2824-11-01 18:20:03 : [info] Pi	alling the 12/16 docker image pron/prometheus:v2.51.2.
2824-11-01 18:20:05 : [info] Pi	alling the 13/16 docker image quay.lo/prometheus/node-exporter:v1.7.0.
2024-11-01 18:20:08 : [info] Pi	alling the 14/16 docker image vllm/vllm-openai:v0.5.3.post1.
2024-11-01 18:20:10 : [info] P	alling the 15/16 docker image rabbitmg:3.13.4.
2824-11-01 18:20:12 : [info] Pi	alling the 16/16 docker image ghcr.io/huggingface/text-embeddings-inference:cpu-1.2.
[+] Running 11/11	
 Container rabbitmg 	Started
Container mongodb	Started
· Container shares	Received

• When the upgrade process has completed, program will display the Pro Suite website URL(s)

Install Finished@prosuite-dev	-		×
Phison ai100 disk is mount at /mnt/nvme0.			
Pro Suite is running, you can visit website from below t http://co.alhost=8899 http://127.0.0.18899 http://121.16.0.18899 http://121.16.0.18899	arl:		
Login account: admin@aidaptiv.com Login password: Admin8299 Piease change passoword as soon as possible after you	ur first t	ime log	in.
		0	к

Figure 4-2 Pro Suite website URL

5. OTHER ACTION

50

D

5.1. Select *Num 1* to get the status of Pro Suite.

Select an action					
Num	Action	Describe			
0	Install Pro Suite	Mount ai100 disk, apt install			
	Get Pro Suite status	Get Pro Suite container status			
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version			
3	Start Pro Suite all service	Startup Pro Suite service			
4	Stop Pro Suite all service	Stop Pro Suite service			
5	Restart Pro Suite all service	Only restart Pro Suite service			
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall			
7	Download llm models	Download IIm model from huggingface			
8	Enter Debug Mode	Debug mode			
9	Exit Script	Exit			
		Exit		Selec	t

Figure 5-1 Get Pro Suite status

• Select *Num 1* to get the status of each container used in Pro Suite.

Pro Suite service status				Suite service status		×
Container ID	Name	State	Status	Ports		
4ca725ab741b	aidaptiv-backend	running	Up	443/tcp,8081/tcp,0.0.0.0:8799->8080/tcp,[::]:8799->8080/tcp		
5a9fecccbdcc	aidaptiv-frontend	running	Up	0.0.0.0:8899->80/tcp,[::]:8899->80/tcp		
6edd190b1c8f	chroma	running	Up	0.0.0.0:8000->8000/tcp,:::8000->8000/tcp		
d26b4168df38	device_resources	running	Up	0.0.0.0:9400->9400/tcp,:::9400->9400/tcp		
3d021ed1729b	km-api	running	Up	0.0.0.0:3019->3019/tcp,:::3019->3019/tcp		
52dec9acd485	mongodb	running	Up	0.0.0.0:7017->27017/tcp,[::]:7017->27017/tcp		
cf32dc9cbc1e	node_exporter	running	Up	0.0.0.0:9100->9100/tcp,:::9100->9100/tcp		
e59a1e0a425f	postgresql	running	Up	0.0.0.0:5432->5432/tcp,:::5432->5432/tcp		
889988f78c97	prometheus	running	Up	0.0.0.3090->9090/tcp,[::]:3090->9090/tcp		
4153339eb461	rabbitmq	running	Up	4369/tcp,5671-5672/tcp,15691-15692/tcp,25672/tcp,0.0.0.0:	5672-	>1567
a7581f9ed459	reranker	running	Up	0.0.0.0:21345->80/tcp,[::]:21345->80/tcp		
					Ргеч	ious

Figure 5-2 The status of each container in Pro Suite



5.2. Select *Num 3* to start the service of Pro Suite.

		Select an action	-		×
Num	Action	Describe			
0	Install Pro Suite	Mount ai100 disk, apt install			
1	Get Pro Suite status	Get Pro Suite container status			
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version			
3	Start Pro Suite all service	Startup Pro Suite service			
4	Stop Pro Suite all service	Stop Pro Suite service			
5	Restart Pro Suite all service	Only restart Pro Suite service			
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall			
7	Download llm models	Download llm model from huggingface			
8	Enter Debug Mode	Debug mode			
9	Exit Script	Exit			
		Ex	it	Sele	ct

Figure 5-3 Start Pro Suite service

• If you stop the Pro Suite service, you can start the service by executing *Num 3*.

Install Finished	-		×
Phison ai100 disk is mount at /mnt/nvme0.			
Pro Suite is running, you can visit website from below url:			
http://localhost:8899			
http://127.0.0.1:8899			
http://192.168.1.247:8899			
http://172.17.0.1:8899			
http://172.18.0.1:8899			
http://2600:1700:458:6a10:6643:bf07:7102:bac8:8899			
http://2600:1700:458:6a10:f3f7:f6c7:e187:10ce:8899			
http://2600:1700:458:6a10:329f:c09d:8e98:a91d:8899			
http://2600:1700:458:6a10::21:8899			
http://2600:1700:458:6a10:473c:a11f:7813:7198:8899			
http://2600:1700:458:6a10:7ad2:ca5f:1a2e:5b7a:8899			
Login account: admin@aidaptiv.com			
Login password: Admin8299			
Please change passoword as soon as possible after your f	irst tim	e log	in.
		ОК	

Figure 5-4 The service started successfully



5.3. Select *Num 4* to stop the service of Pro Suite.

		Select an action	9		×
Num	Action	Describe			
0	Install Pro Suite	Mount ai100 disk, apt install			
1	Get Pro Suite status	Get Pro Suite container status			
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version			
3	Start Pro Suite all service	Startup Pro Suite service			
4	Stop Pro Suite all service	Stop Pro Suite service			
5	Restart Pro Suite all service	Only restart Pro Suite service			
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall			
7	Download llm models	Download llm model from huggingface			
8	Enter Debug Mode	Debug mode			
9	Exit Script	Exit			
		Exit		Selec	t

Figure 5-5 Stop Pro Suite service

• Select *Num 4* to stop all of the Pro Suite services.

<pre>/ Container mensedb</pre>	Perroyada de
	Renoved0.43
Container rabbitmq	Removed1.35
🗹 Container km-api	Removed10.4s
Container aidaptiv-frontend	Removed10.45
<pre>✓ Container node_exporter</pre>	Removed0.2s
🗸 Container chroma	Removed1.0s
🗹 Container reranker	Removed1.0s
<pre> Container device_resources</pre>	Removed0.3s
🗸 Container prometheus	Removed0.45
🗸 Container aidaptiv-backend	Removed0.3s
🗹 Container postgresql	Removed0.25
2024-11-12 19:00:27 : [info] St	op Pro Suite services by docker network.
2024-11-12 19:00:27 : [info] St	op docker container InferenceModel2.
2024-11-12 19:00:28 : [info] St	op docker container InferenceModel3.

Figure 5-6 Stop each container of Pro Suite



D

5.4. Select Num 5 to Restart the service of Pro Suite.

		Select an action	-		×
Num	Action	Describe			
0	Install Pro Suite	Mount ai100 disk, apt install			
1	Get Pro Suite status	Get Pro Suite container status			
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version			
3	Start Pro Suite all service	Startup Pro Suite service			
4	Stop Pro Suite all service	Stop Pro Suite service			
5	Restart Pro Suite all service	Only restart Pro Suite service			
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall			
7	Download llm models	Download llm model from huggingface			
8	Enter Debug Mode	Debug mode			
9	Exit Script	Exit			
		Exit		Selec	t

Figure 5-7 Restart Pro Suite service

• Restarting the Pro Suite service can resolve many abnormal problems. To restart the Pro Suite service, you can select *Num 5*.

🗹 Container mongodb	Started	
🗹 Container reranker	Started	
🗹 Container node_expor	ter Started	
🗹 Container rabbitmq	Started	
🗹 Container postgresql	Started	
Container device_res	ources Started	
🗹 Container chroma	Started	
🗹 Container km-api	Started	
🗹 Container prometheus	Started	
🖌 🗹 Container aidaptiv-b	ackend Started	
🗹 Container aidaptiv-f	rontend Started	

Figure 5-8 Restart Pro Suite service successfully



5.5. Select Num 7 to download LLM models from Pro Suite

		Select an action	-	
Num	Action	Describe		
0	Install Pro Suite	Mount ai100 disk, apt install		
1	Get Pro Suite status	Get Pro Suite container status		
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version		
3	Start Pro Suite all service	Startup Pro Suite service		
4	Stop Pro Suite all service	Stop Pro Suite service		
5	Restart Pro Suite all service	Only restart Pro Suite service		
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall		
7	Download llm models	Download llm model from huggingface		
8	Enter Debug Mode	Debug mode		
9	Exit Script	Exit		
		Exi	t	Select

Figure 5-9 Download LLM models

• Select a model to download.

	Select model to dow	vnload		_		×
Num	Model Name					
1	Llama-2-7b-chat-hf					
2	Meta-Llama-3-8B-Instruct					
		P	Previous	Do	wnloa	эd

Figure 5-10 Model lists

5.6. Select *Num 8* to enter debug mode

		Select an action	-		×
Num	Action	Describe			
0	Install Pro Suite	Mount ai 100 disk, apt install			
1	Get Pro Suite status	Get Pro Suite container status			
2	Upgrade Pro Suite all service	Upgrade Pro Suite to current installation package version			
3	Start Pro Suite all service	Startup Pro Suite service			
4	Stop Pro Suite all service	Stop Pro Suite service			
5	Restart Pro Suite all service	Only restart Pro Suite service			
6	Uninstall Pro Suite all service	Stop Pro Suite and uninstall			
7	Download llm models	Download llm model from huggingface			
8	Enter Debug Mode	Debug mode			
9	Exit Script	Exit			
		Exit		Selec	t

Figure 5-11 Enter debug mode

- If you need to restart a specific service for some reason, you can select Num 1.
- If the installation of specific docker images fails due to other abnormal reasons, you can select *Num 2* to pull and refresh the docker image(s).
- Select *Num 3* to clean memory buffer/cache.
- Select *Num 4* to create LVM.
- Select *Num 5* to update embedded model.

Select an option						×
Num	Action	Describe				
1	Restart specific service	Restart Pro Suite specific service				
2	Pull docker image	Pull phison-image.env all image				
3	Cleanup memory buffer/cache	Cleanup memory buffer/cache				
4	Mount ai100	Create LVM or mount disk directly				
5	Update Embedded Model	Update Embedded Model				
			Previous	C	onfiri	m

Figure 5-12 Enter debug mode



APPENDIX A – DEBUG NOTE

If you encounter issues and need assistance from Phison, please first run the export_log.sh file and provide

the generated log to your Phison representative to improve troubleshooting efficiency.

The export_log.sh will collect the following information:

- Host system version information
- Motherboard information
- Processor, memory, hard drive, and PCI information
- NVIDIA version information
- Pro Suite Container information
- Pro Suite install log /var/log/prosuite information

Operating Instructions: sudo bash exprot_log.sh

user@prosuite-dev:~/ProSuite\$ ls -alh | grep export_log -rwxrwxr-x 1 user user 2.4K + 24 15:28 export_log.sh user@prosuite-dev:~/ProSuite\$ sudo bash export_log.sh 2024-10-24 15:32:29 : Get OS version and board info. 2024-10-24 15:32:29 : Get PCI, CPU, Memory, Disk info. 2024-10-24 15:32:30 : Get Pro Suite docker container state. 2024-10-24 15:32:30 : Get Pro Suite docker container logs. 2024-10-24 15:32:30 : Finish gererate file export_hw_2024-10-24_1532.tar at /home/user/ProSuite. user@prosuite-dev:~/ProSuite\$ ls -alh export_hw_2024-10-24_1532.tar -rw-r--r- 1 root root 70K +_ 24 15:32 export_hw_2024-10-24_1532.tar