

aiDAPTIV+ Pro Suite 2.0 Install guide

Preliminary 0.1

Phison Electronics Corporation

Tel: +886-37-586-896 Fax: +886-37-587-868 E-mail: sales@phison.com / suppport@phison.com PHISON

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REVISION HISTORY

Revision	Draft Date	History	Pro Suite Version	Author
0.1	2025/07/23	Draft version	NXUN_2.0.7T (beta version)	Sean Liou



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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_2.0.7T
aiDAPTIVLink	aidaptiv-vNXUN_2_04_A0

1.1. Supported OS and Nvidia driver version

Category	Detail
OS	Ubuntu 24.04 LTS Desktop
GPU driver	Nvidia driver version 550 or later version
Kernel	6.8.0-41-generic

Note: Due to the current Pro Suite version only matching this kernel version, when installing the OS, **DO NOT** connect to the internet to avoid automatic updates to the kernel 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

```
user@prosuite-dev:~/Desktop

user@prosuite-dev:~/Desktop
```

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

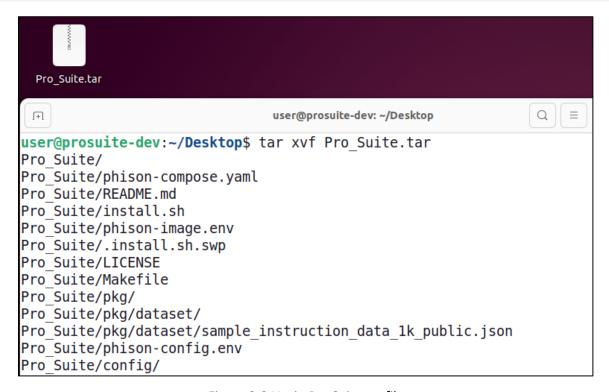


Figure 2-2 Unzip Pro Suite tar file



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.

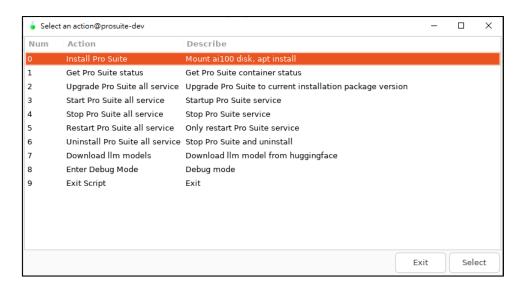


Figure 2-4 Mainmenu



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.

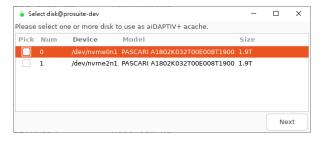


Figure 2-5 Mount aiDAPTIVCache

Program will install apt packages and pull images

```
2024-10-30 16:19:16 : [info] Check apt package: docker-ce
2024-10-30 16:19:16 :
                      [info] Check apt package: docker-compose-plugin
                      [info] Check apt package: nvidia-driver-550
2024-10-30 16:19:16 :
2024-10-30 16:19:16 :
                      [info] Check apt package: nvidia-container-runtime
                      [info] Check apt package: nvtop
2024-10-30 16:19:16 :
                      [info] Config docker /etc/docker/daemon.json
2024-10-30 16:19:16 :
2024-10-30 16:19:16 : [info] Starting docker service
2024-10-30 16:19:16 : [info] Try docker login, attempt 1.
                      [info] Successful login docker.
2024-10-30 16:19:18 :
2024-10-30 16:19:18 :
                      [info] Total image is 16.
                      [info] Pulling the 1/16 docker image licensesp/aidaptiv_web:6512
2024-10-30 16:19:18 :
                      [info] Pulling the 2/16 docker image licensesp/aidaptiv_api:NXUN
2024-10-30 16:19:25
                      [info] Pulling the 3/16 docker image licensesp/km-api:NXUN_2.0.0
2024-10-30 16:19:27
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)

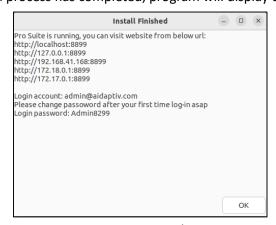


Figure 2-6 Pro Suite website URL



3. UNINSTALLATION PROCESS

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

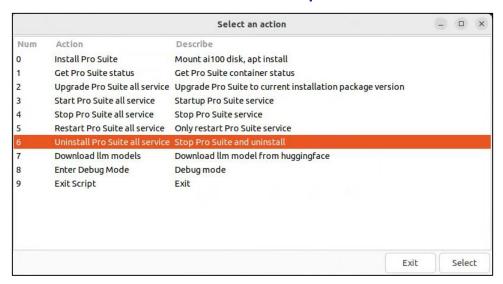


Figure 3-1 Mainmenu

- 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?

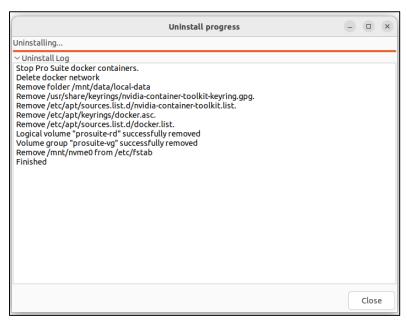


Figure 3-2 Uninstallation process



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.

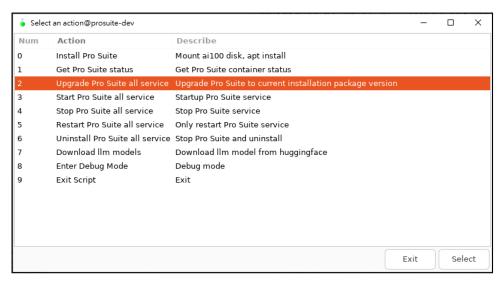


Figure 4-1 Upgrade Pro Suite all service

Upgrade process

```
2824-11-14 16:19:28 : [Lin76] Steep Pre Suite services by docker compose.

[] Ramning 11/16 summer 11/16 summ
```

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



Figure 4-2 Pro Suite website URL



5. OTHER ACTION

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

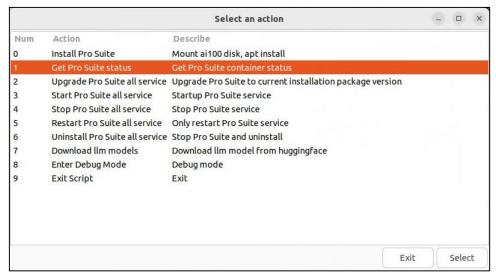


Figure 5-1 Get Pro Suite status

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

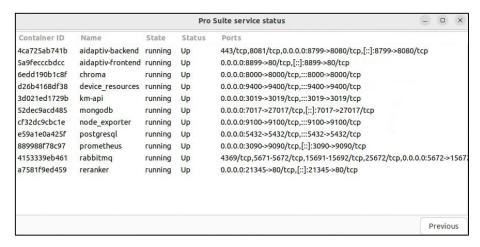


Figure 5-2 The status of each container in Pro Suite



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

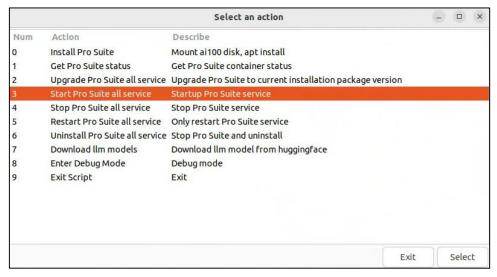


Figure 5-3 Start Pro Suite service

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



Figure 5-4 The service started successfully



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

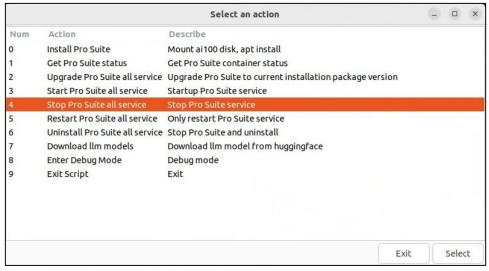


Figure 5-5 Stop Pro Suite service

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

```
2024-11-12 19:00:16 : [info] Stop Pro Suite services by docker compose.

✓ Container mongodb

✓ Container rabbitmg

                                  Removed1.3s

✓ Container km-api

                                  Removed10 4s

✓ Container aidaptiv-frontend

✓ Container node_exporter

                                  Removed@ 2s

✓ Container chroma

✓ Container reranker

                                  Removed1 0s
 Container device resources
                                  Removed<sub>0.3s</sub>

✓ Container prometheus

✓ Container aidaptiv-backend

                                  Removed0.3s

✓ Container postgresql

                                  Removed@ 25
2024-11-12 19:00:27 : [info] Stop Pro Suite services by docker network.
2024-11-12 19:00:27 : [info] Stop docker container InferenceModel2.
2024-11-12 19:00:28 : [info] Stop docker container InferenceModel3.
```

Figure 5-6 Stop each container of Pro Suite



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

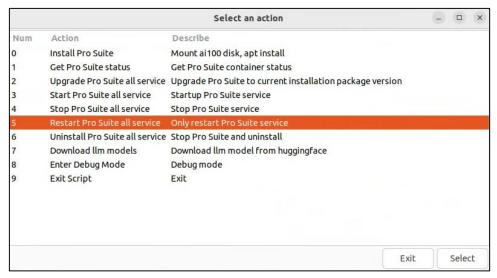


Figure 5-7 Restart Pro Suite service

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

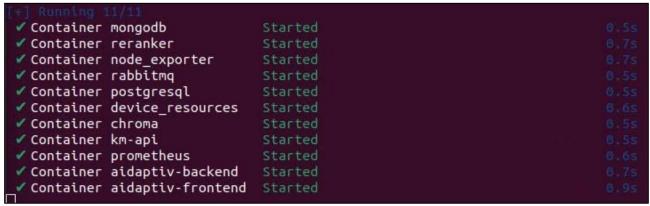


Figure 5-8 Restart Pro Suite service successfully



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

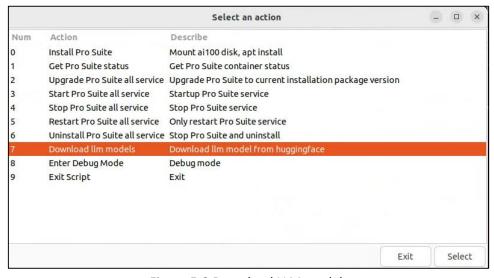


Figure 5-9 Download LLM models

• Select a model to download.

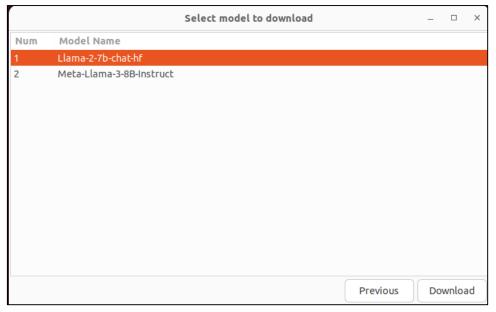


Figure 5-10 Model lists



5.6. Select *Num 8* to enter debug mode

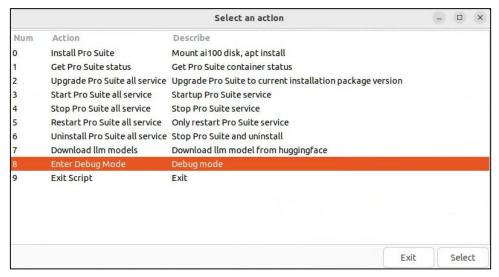


Figure 5-11 Enter debug mode

- 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.

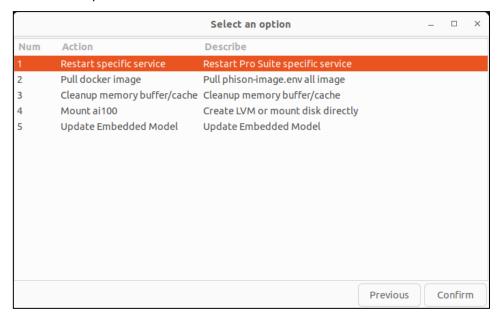


Figure 5-12 Enter debug mode



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