

KNEO 300 User Manual V1.2

(For Admin User)

Mar, 2024

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1.0	Add set-up guide	-	2024/01/08
1.1	Add custom settings	-	2024/01/17
1.2	Add admin user guide	V0.14.1	2024/03/07

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Table of contents

KNEO 300 User Manual V1.2	1
Table of contents.....	3
1 Introduction	4
2. Device operation tutorial	4
2.1 Product Overview.....	4
2.2 Accessories list	5
2.3 Power on	6
2.4 Network remote login.....	7
2.5 File upload and download.....	9
2.6 Shutdown	10
3. Chatbot software usage guide	11
3.1 Start the WEBUI interface	11
3.1.1 Start up.....	11
3.1.2 Admin settings	12
3.1.3 Service settings	13
3.1.4 WEBUI interface introduction	15
3.2 Others	20
4. System update.....	22
4.1 Update chatbot software	22
4.2 Update model	24
4.3 Update Firmware	24
5.FAQs	24

1 Introduction

KNEO 300 is an NPU-based edge AI server, specially used to implement LLM applications, supporting 30TOPS AI computing power, equipped with an all-metal casing , fan cooling and rich peripheral interfaces. Compared with traditional GPU LLM inference, it has the advantages of low cost, low power consumption, and high efficiency, and can be widely used in fields such as enterprise AIGC.

KNEO 300 has built-in Kneron self-developed edge chatbot software, which is mainly used to answer questions and provide information. Its function is similar to an advanced offline virtual assistant . Here are some of the key features and uses of this chat product:

1. Q&A: Ability to answer a variety of questions covering a wide range of topics such as science, history, culture, technology, etc.
2. Language Understanding: Strong understanding of natural language and the ability to understand and respond to complex and abstract queries.
3. Text generation: In addition to answering questions, you can also write articles, create stories, generate creative content, etc.
4. User interaction: Able to have smooth conversations with users and provide helpful answers and suggestions based on database and other information. Wide range of applications: education, customer support, HR, company training, IT support, etc.
5. Privacy and security: This system adopts offline mode, which greatly protects the security of user information, data and privacy.

2. Device operation tutorial

2.1 Product Overview

- KNEO 300 series AI box appearance





- KNE300 series AI box peripheral interfaces (from left to right)

1. UP : RS232
2. Down : RS485
3. UP : Ethernet (1000mbps)
4. Down : USB3.0x2
5. UP : Ethernet (1000mbps)
6. Down : USB2.0x2
7. HDMI 2.0
8. TF Card
9. DC 12V
10. Power button

- Product parameters

CPU	8-core A53, 2.0GHz
NPU	30 TOPS (INT8)
DRAM	16GB LPDDR4
eMMC	64GB
Power	DC12V, AC100-240V, 50-60HZ
Operating System	Ubuntu
Size	210mm*130mm*45mm
Operating Environment	Operating Temperature: -20℃~60℃; Storage Temperature: -20℃~70℃; Operating Humidity: 10%~90%RH;
Ethernet	2*Gigabit Ethernet
USB	2*USB3.0
	2*USB2.0
Connecting Ports	1*RS232
	1*RS485

2.2 Accessories list

After receiving the device, check whether the accessories are complete:

- KNEO 300 AI box
- One 12V-5A power adapter
- One HDMI cable
- One Ethernet cable

- A pack of expansion screws

In addition, during use, you also need the following conditions:

- display

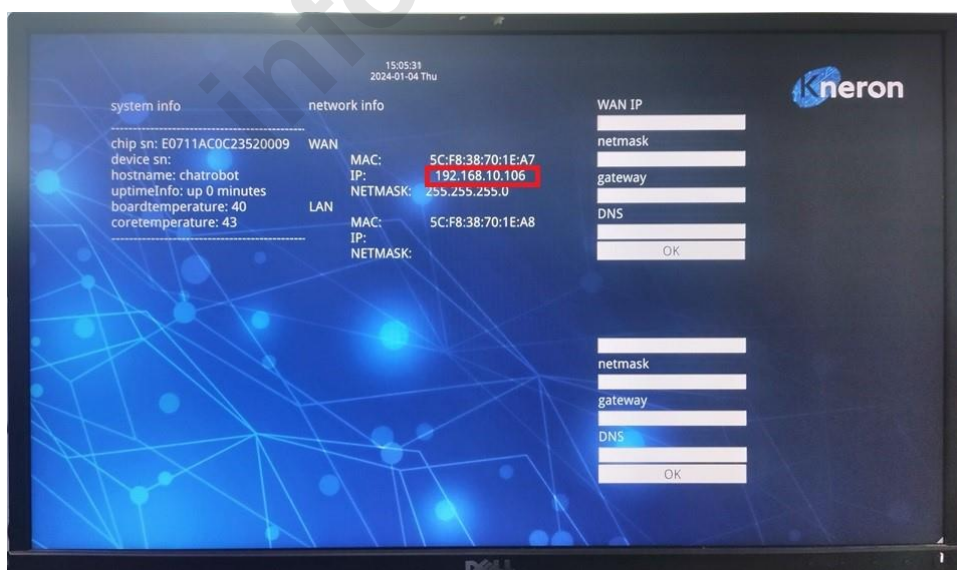
Monitor or TV with HDMI port.

- network

100M/1000M wired network.

2.3 Power on

- Connect the power cable to the 12V-5A power adapter.
- Connect the device and monitor with an HDMI cable.
- Plug the network cable into UP: Ethernet (1) and connect to the network.
- The device will automatically turn on after being powered on. The monitor will display the following screen, and the IP address of the device will be displayed in the red box.



2.4 Network remote login

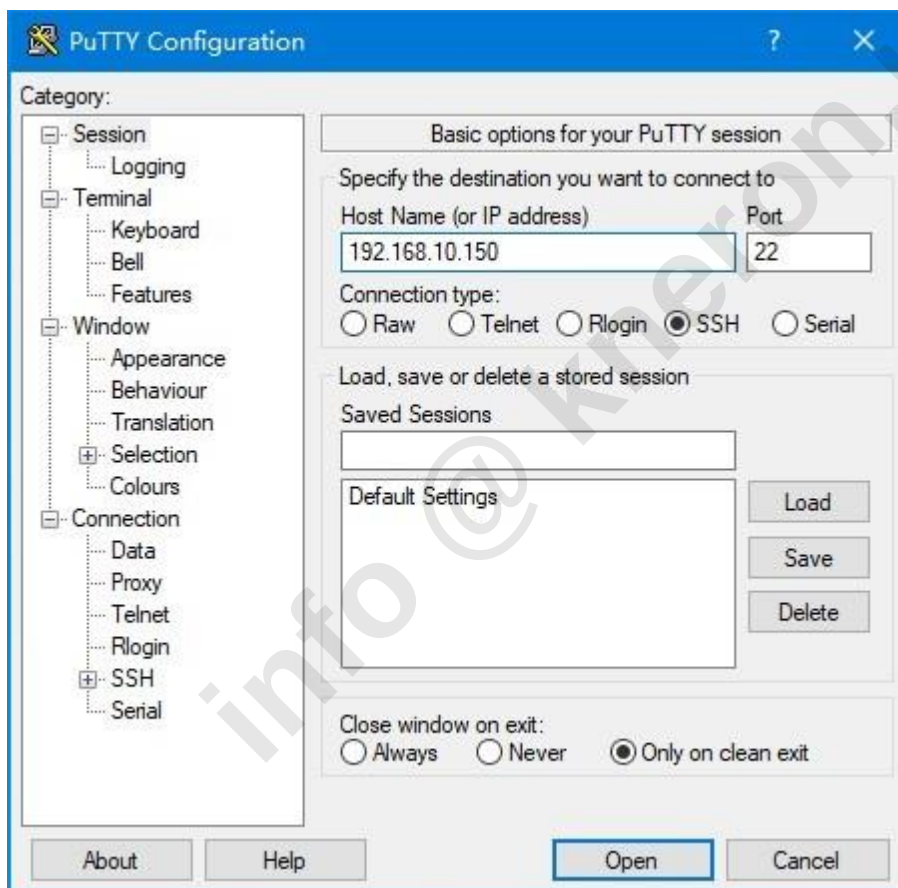
If the PC can successfully ping the IP address displayed on the monitor after startup, you can then use ssh to log in remotely. The port number is 22 and the username and password are both *linaro*. Users can use Windows or Linux systems, but it is recommended to use putty or SecureCRT software on Windows systems for remote login.

Command line: `ssh linaro@ip_address`

2.4.1 windows system

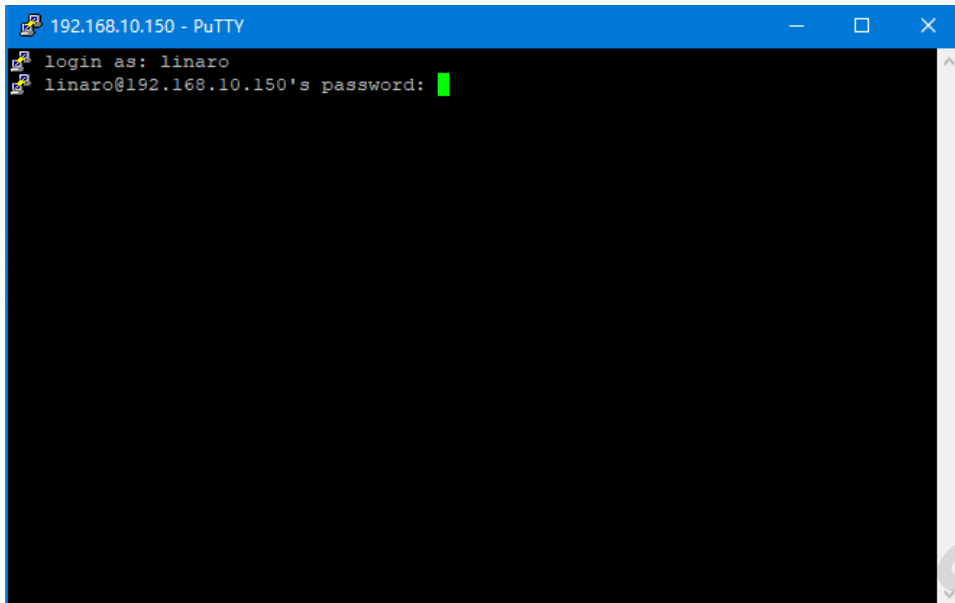
The following uses putty software as an example.

- (1) Download and install putty.
- (2) Start putty, enter the device IP address displayed on the monitor, the port number is 22

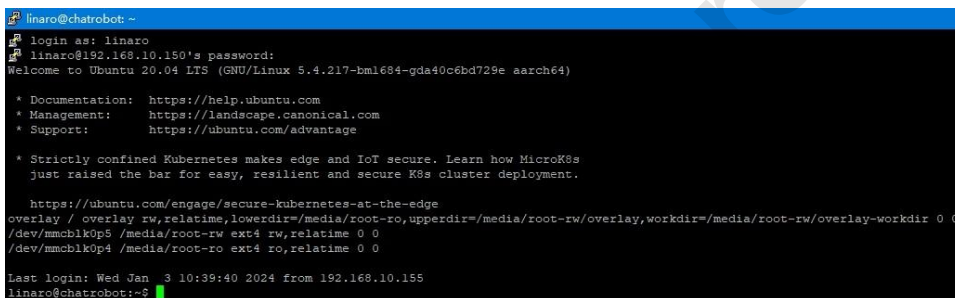


Click the "Open" button.

- (3) In the next interface, enter the username and password, both are *linaro*



(4) After the verification is passed, it will be displayed as follows.



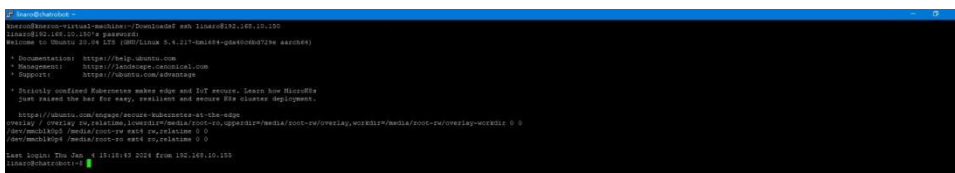
After connecting the device, you can start the chatbot software according to 3.1.

2.4.2 Linux system

Take the ubuntu system as an example.

Use the command: `ssh linaro@192.168.10.150`

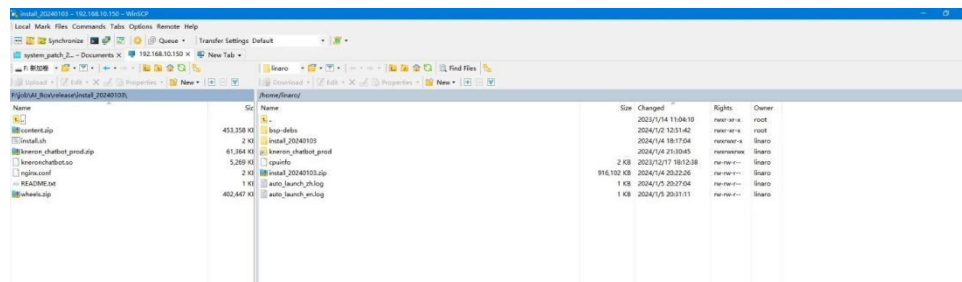
192.168.10.150 is the IP address of the device, linaro is the username, and you will be prompted to enter a password later. The password is also linaro.



After connecting the device, you can start the chatbot software according to 3.1.

Users can upload and download files through the SCP protocol on Windows or Linux systems. The username and password are both *linaro*, and the port number is 22. We recommend using winscp for access on Windows systems.

- Download and install winscp software.
- Start the winscp software, fill in the IP address of the device in the Host name column, and click "Login"



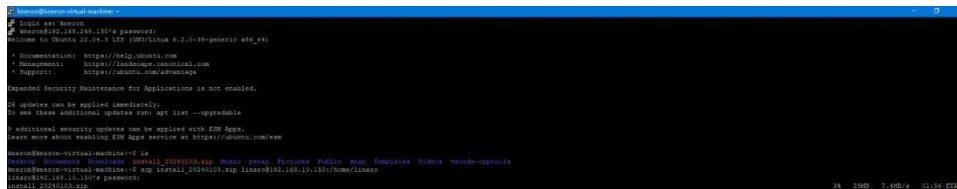
2.5.2 Linux system

Take the ubuntu system as an example.

- Upload file.

Take uploading the file `install_20240103.zip` to the `192.168.10.150 /home/linaro` directory as an example.

Use the command: `scp install_20240103.zip linaro@192.168.10.150:/home/linaro`



```
linaro@kneon-virtual-machine:~$ ssh linaro@192.168.10.150
linaro@192.168.10.150's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-91-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/support

Depended Security Maintenance for Applications is not enabled.
If updates can be applied immediately,
to see them additional updates and apt list --upgradeable
Additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

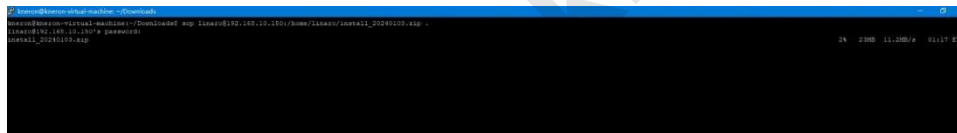
linaro@kneon-virtual-machine:~$ ls
linaro@kneon-virtual-machine:~$ scp install_20240103.zip linaro@192.168.10.150:/home/linaro
linaro@192.168.10.150's password:
install_20240103.zip
```

192.168.10.150 is the IP address of the device, `/home/linaro` is the address where the file is stored after uploading, and `linaro` is the username. The system will prompt you to enter the password, both of which are `linaro`.

- Download file

Take downloading the file `install_20240103.zip` from the `/home/linaro` directory of the device to the local as an example.

Use the command: `scp linaro@192.168.10.150:/home/linaro/install_20240103.zip .`



```
linaro@kneon-virtual-machine:~$ scp linaro@192.168.10.150:/home/linaro/install_20240103.zip .
linaro@192.168.10.150's password:
install_20240103.zip
```

192.168.10.150 is the IP address of the device, `/home/linaro/install_20240103.zip` is the file that needs to be downloaded, and `linaro` is the user name. The system will prompt you to enter the password, which is also `linaro`. After the file is downloaded, it is stored in the current directory.

2.6 Shutdown

Please try not to disconnect the power directly when shutting down but run it first `sudo poweroff` before powering off to avoid damaging file system data.

In addition, if you have successfully entered the Linux system, you can also press and hold the power button. The system will detect and safely turn off the power of the system and development board.

3. Chatbot software usage guide

3.1 Start the WEBUI interface

3.1.1 Start up

- a. Using 'screen', you can start a process that will continue to run on the server even if the SSH connection is disconnected, so that the website can continue to serve external parties.
 - i. Enter screen on the command line. After Figure 2 appears, press the space bar or Return key.

```
Last login: Fri Jan 5 15:58:21 2024 from 192.168.10.10
linaro@chatrobot:~$ screen
```

```
GNU Screen version 4.08.00 (GNU) 05-Feb-20
Copyright (c) 2018-2020 Alexander Neumeier, Anadeusz Slawinski
Copyright (c) 2015-2017 Juergen Weigert, Alexander Neumeier, Anadeusz Slawinski
Copyright (c) 2018-2019 Juergen Weigert, Sadul Habib Chowdhury
Copyright (c) 2006-2009 Juergen Weigert, Michael Schroeder, Michal Cowan, Sadul Habib Chowdhury
Copyright (c) 1992-1997 Juergen Weigert, Michael Schroeder
Copyright (c) 1987 Oliver Laumann

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Send bugreports, fixes, enhancements, t-shirts, money, beer & pizza to screen-devel@gnu.org

Capabilities:
+copy +remote-detach +power-detach +multi-attach +multi-user +font +color-256 +utf8 +rxvt +builtin-telnet
```

- b. Enter the following commands in order on the command line, as shown in the figure below
 - i. `cd kneron_chatbot_prod`
 - ii. `chmod +x new_launch.sh`
 - iii. `./ new_launch.sh` (it takes about 30 seconds)

```
linaro@chatrobot:~$ cd kneron_chatbot_prod
linaro@chatrobot:~/kneron_chatbot_prod$ chmod +x launch_en.sh
linaro@chatrobot:~/kneron_chatbot_prod$ ./launch_en.sh
chatbot launch start
Kneron Chatbot version: 0.11.0
Load /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/chat/tokenizer.model ... Done!
Device [ 0 ] loading ...
Model /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/chat/kneron_llm_1024.bmodel loading ....
Done!
/home/linaro/kneron_chatbot_prod/kneron_doc_chat/webui_edge_en.py:226: GradleUnusedKwargWarning: You have unused kwarg parameters in Row, please remove them: ('justify': 'center')
with gr.Row(justify="center"):
/home/linaro/kneron_chatbot_prod/kneron_doc_chat/webui_edge_en.py:238: GradleDeprecationWarning: The 'style' method is deprecated. Please set these arguments in the constructor instead.
chatbot = gr.Chatbot(
/home/linaro/kneron_chatbot_prod/kneron_doc_chat/webui_edge_en.py:242: GradleDeprecationWarning: The 'style' method is deprecated. Please set these arguments in the constructor instead.
query = gr.Textbox()
Running on local URL: http://0.0.0.0:9999

To create a public link, set 'share=True' in 'launch()'.
```

```
GNU Screen version 4.08.00 (GNU) 05-Feb-20
Copyright (c) 2018-2020 Alexander Neumeier, Anadeusz Slawinski
Copyright (c) 2015-2017 Juergen Weigert, Alexander Neumeier, Anadeusz Slawinski
Copyright (c) 2018-2019 Juergen Weigert, Sadul Habib Chowdhury
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Copyright (c) 1992-1997 Juergen Weigert, Michael Schroeder
Copyright (c) 1987 Oliver Laumann

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Send bugreports, fixes, enhancements, t-shirts, money, beer & pizza to screen-devel@gnu.org

Capabilities:
+copy +remote-detach +power-detach +multi-attach +multi-user +font +color-256 +utf8 +rxvt +builtin-telnet
```

- c. the WEBUI starts, press and hold the Ctrl , A and D keys on the keyboard at the same time ,

and the following picture will appear. This step allows even if the remote network connection is disconnected, using screen The created session (session) will still be maintained

```
linaro@chatrobot:~$ screen
[detached from 7762.pts-1.chatrobot]
```

- d. Enter "screen ls" to see the sessions created by screen

```
linaro@chatrobot:~$ screen -ls
There is a screen on:
      2181.pts-2.chatrobot      (02/15/24 03:53:43)      (Detached)
1 Socket in /run/screen/S-linaro.
```

- e. To retrieve the session created by screen, you need to enter "screen -r"

```
linaro@chatrobot:~$ screen -r 2181.pts-2.chatrobot
```

- f. After Launch is successful, it will display

```
Compiled successfully!

You can now view auth in the browser.

Local:      http://localhost:3000
On Your Network: http://10.200.210.181:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

3.1.2 Admin settings

- a. After the service is started successfully, enter 10.200.210.181:3000 in the local computer browser (for example, the IP of this service device is 10.200.210.181)

Sign In

Email

abc@gmail.com

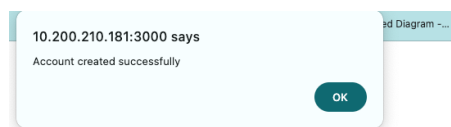
Password

Password here

Sign In

Don't have account [Sign Up?](#)

- b. For first time use, select Sign_up ,



Sign Up

Username

Email

Password

Confirm Password

Already registered [Sign In?](#)

Sign Up

Username

Email

Password

Confirm Password

Already registered [Sign In?](#)

- c. As Admin, after logging in, please go to <http://10.200.210.181:5000/admin/user/> Set the mailbox permissions on the margin of the page. (Take device ip 10.200.210.181, jenna@kneron.us account as an example). The default user is a regular user after registration and login.

Dashboard	Home	User
-----------	------	------

Record was successfully deleted.

List (1)	Add Filter	With selected	Search: username, email
☐	Username	Email	Role
☐	jennawu	jenna@kneron.us	regular

- d. Click the pen circled in red in the picture above, edit the jennawu account, change the regular in the role to admin, and click "save" to save.

Dashboard Home User

List Edit

Email

Role

3.1.3 Service settings

- a. Enter 10.200.210.181:3000 in the local computer browser (for example, the IP of this service device is 10.200.210.181), and then log in with the updated Admin email password (wait 30 seconds). Note: Do not click the Sign-in button back and forth.

Sign In

Email

Password

Don't have account [Sign Up?](#)

- b. After logging in, the following interface appears

The screenshot shows the Kneron Knowledge Base Chat interface. On the left, there's a chat window with a welcome message: "Welcome to Kneron Knowledge Base Chat! Please switch modes on the right. Currently supports direct conversation with LLM model or Q&A based on local knowledge base. For Q&A mode, after selecting a knowledge base, you can start Q&A." Below this, it says "Device added." On the right, there's a configuration panel. At the top, it says "Please Select Language" with radio buttons for "English" (selected) and "中文". Below that is a text input field for an IP address, containing "10.200.210.181", and an "Add device" button. Further down, it says "Please Select Mode of Use" with radio buttons for "LLM" and "Knowledge Base Q&A" (selected). Below that, it says "Configure Knowledge Base" with a dropdown menu showing "admin/kneron_doc_center". At the bottom, there's a section for "Add Files to Knowledge Base" with a file upload area and an "Upload Files and Load Knowledge Base" button.

- Step 1: You need to select the service device language. After selecting, please click the "Confirm" button.
- Step 2: Fill in the IP address of the service device (take local as 10.200.210.181). Note that you can add multiple KNEO300 EdgeBOX IP addresses. To obtain the IP address, please refer to 2.3 Introduction. As shown in the figure, the device is added. Edge service is officially available to employees.

This screenshot is similar to the previous one, but it shows the "Device added." message in the chat window. The configuration panel on the right remains the same, with "English" selected for the language, "10.200.210.181" in the IP address field, and "Knowledge Base Q&A" selected for the mode of use.

Note: Do not switch between Chinese and English at will for the admin account. Once selected, other users are already using it. If you want to switch, please coordinate the service switching time with other regular users.

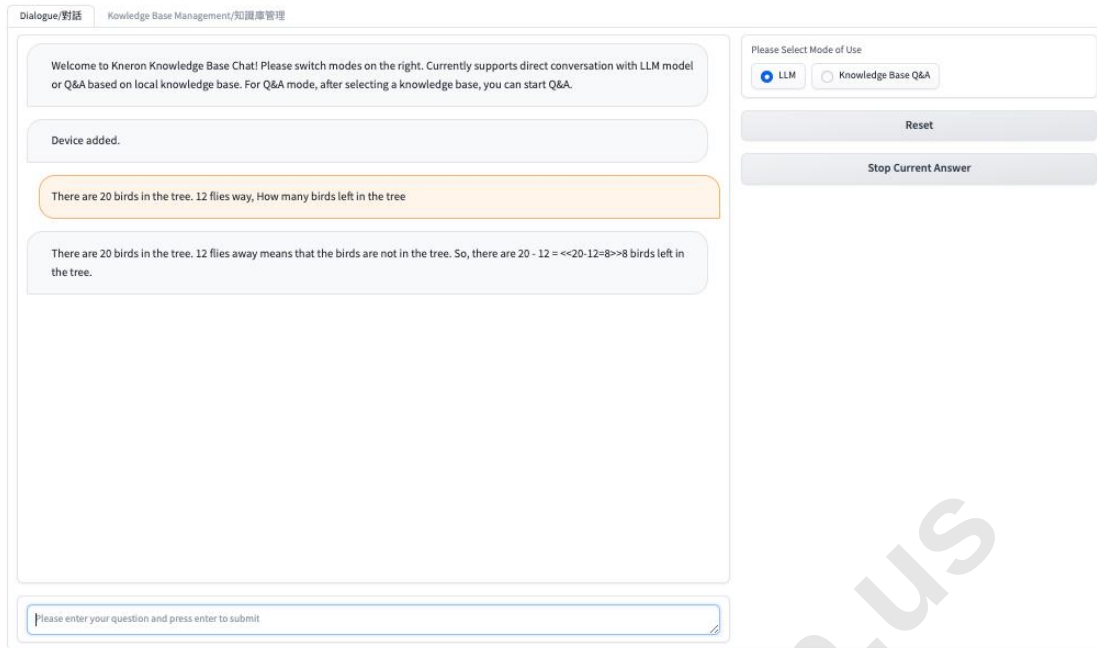
3.1.4 WEBUI interface introduction

3.1.4.1. WEBUI is a chat dialog box, where users can have interactive conversations. At the same time, the knowledge base management page performs operations such as deleting and merging existing knowledge bases.



3.1.4.2. WEBUI is the selection of chat mode. Currently we have launched two modes: free conversation and knowledge base conversation.

a. Free conversation mode



The screenshot shows the Kneron Knowledge Base Chat interface. The top bar includes a tab labeled "Dialogue/對話" and a link to "Knowledge Base Management/知識庫管理". The main chat area on the left contains a welcome message, a "Device added." notification, and a conversation history with a question about birds and a mathematical answer. On the right, there is a "Please Select Mode of Use" section with radio buttons for "LLM" (selected) and "Knowledge Base Q&A". Below this are "Reset" and "Stop Current Answer" buttons. At the bottom, there is a text input field with the placeholder "Please enter your question and press enter to submit".

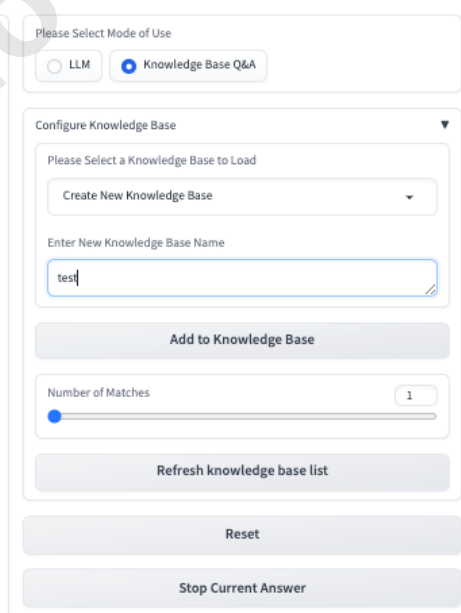
Click the LLM check box to switch to free conversation mode. Users can enter questions they want to ask in the left chat box.

“Reset”: Click this button to reset the dialog box.

“Stop current answer”: Click this button to stop the current conversation.

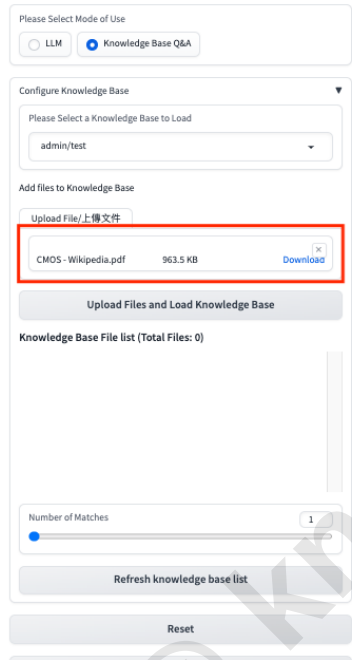
b. Knowledge base question and answer mode

- i. Click the knowledge base Q&A mode, and users can conduct Q&A based on the knowledge base in this interface.
- ii. Create new database.



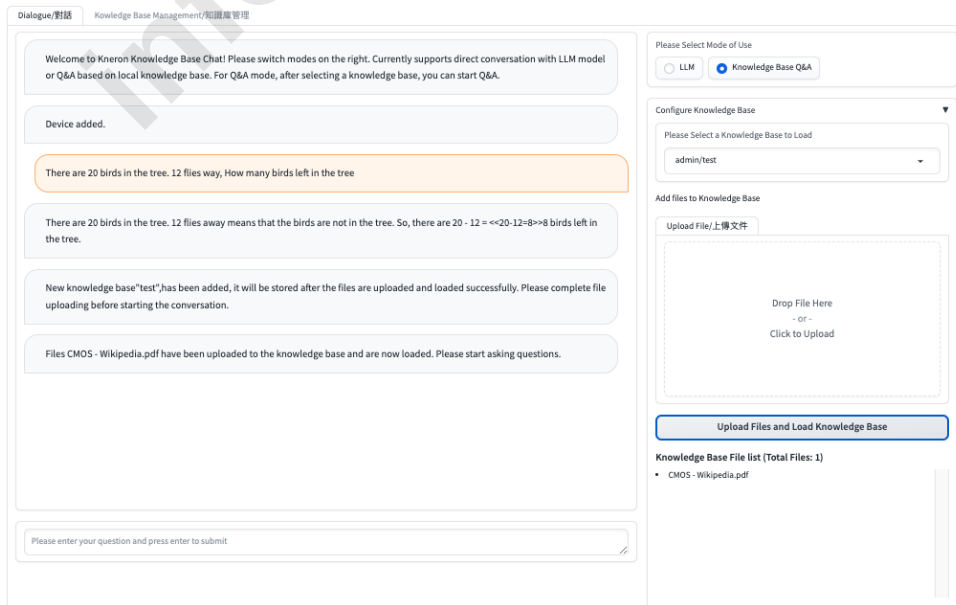
The screenshot shows the Kneron Knowledge Base Chat interface in Knowledge Base Q&A mode. The top bar is the same. The "Please Select Mode of Use" section now has the "Knowledge Base Q&A" radio button selected. Below this is a "Configure Knowledge Base" section with a dropdown menu for "Please Select a Knowledge Base to Load" showing "Create New Knowledge Base". There is a text input field for "Enter New Knowledge Base Name" with the value "test". Below this are buttons for "Add to Knowledge Base", "Refresh knowledge base list", "Reset", and "Stop Current Answer". A "Number of Matches" slider is also visible, set to 1.

- iii. Create a new knowledge base " in " Please select the knowledge base to load " .
 - iv. exist Enter the name of the knowledge base to be created in " Enter new knowledge base name".
 - v. Click " Add to knowledge base" button to complete the creation of the knowledge base.
- c. upload files
- I. Currently supports documents in docx, pdf, txt, and md formats.
 - II. Drag the file to be uploaded to " Upload file " box.



The screenshot shows the 'Configure Knowledge Base' section. Under 'Add files to Knowledge Base', there is an 'Upload File/上傳文件' button. Below it, a file named 'CMOS - Wikipedia.pdf' (963.5 KB) is listed with a 'Download' link. A red box highlights the file name and size. Below the file list is a button labeled 'Upload Files and Load Knowledge Base'. At the bottom, there is a 'Knowledge Base File list (Total Files: 0)' section, a 'Number of Matches' slider set to 1, a 'Refresh knowledge base list' button, and a 'Reset' button.

- III. Click the " Upload file and load knowledge base " button to upload the document.
- IV. After the upload is complete, in the " Knowledge Base Document List" will display the names of the documents that have been uploaded and the number of documents currently in the knowledge base.



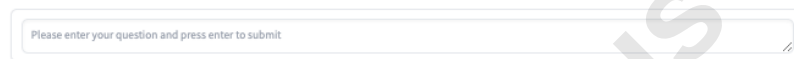
The screenshot shows the 'Dialogue/對話' tab on the left, displaying a chat history with a question and answer about birds in a tree. The 'Knowledge Base Management/知識庫管理' tab is active on the right. It shows the 'Configure Knowledge Base' section with the 'admin/test' knowledge base selected. The 'Add files to Knowledge Base' section now shows a 'Drop File Here' area with a 'Click to Upload' link. Below this is a button labeled 'Upload Files and Load Knowledge Base'. The 'Knowledge Base File list (Total Files: 1)' section now displays the file 'CMOS - Wikipedia.pdf'.

Hint:

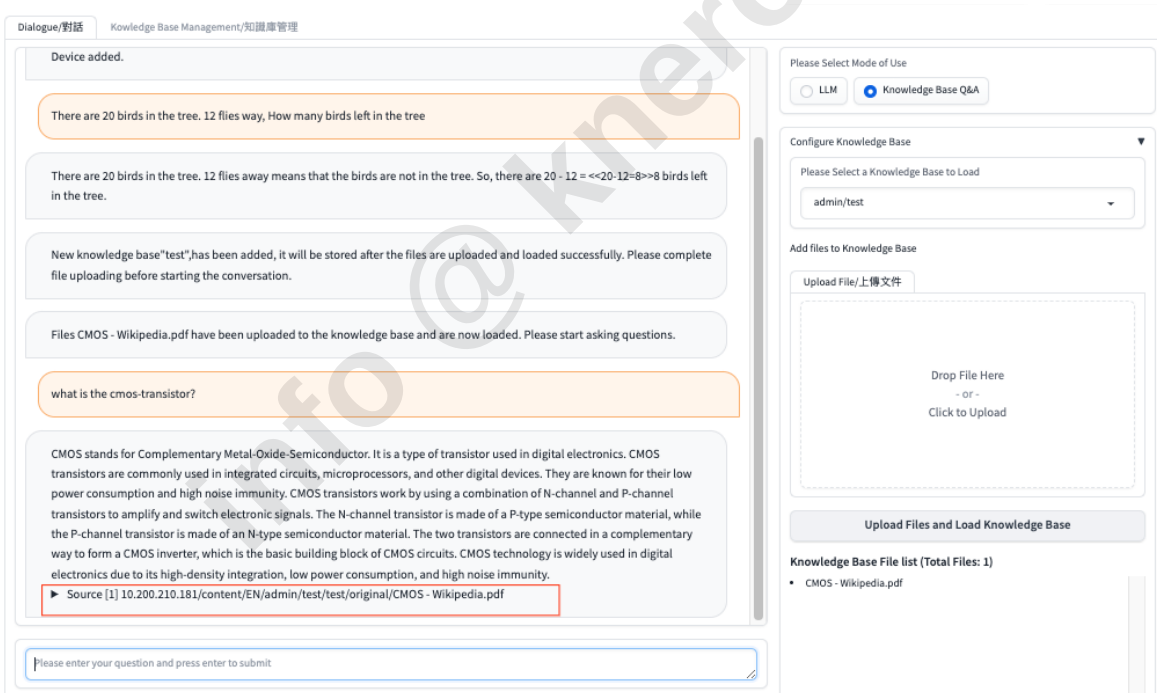
- Please keep the file name specifications in the uploaded file name and do not include special characters, such as (), \$, {}, etc.
- Normally, it takes about 15 seconds to upload a file of size 25kb, just for reference. Upload speed will be affected by file size, type, format and current network environment.

d. Question and answer based on knowledge base.

- i. On the right side of the UI, there is a dropdown menu labeled "Please select the knowledge base to load" that allows you to select the desired database.
- ii. Type your question in the dialog box (shown in below figure) on the left and click Enter to start the conversation.



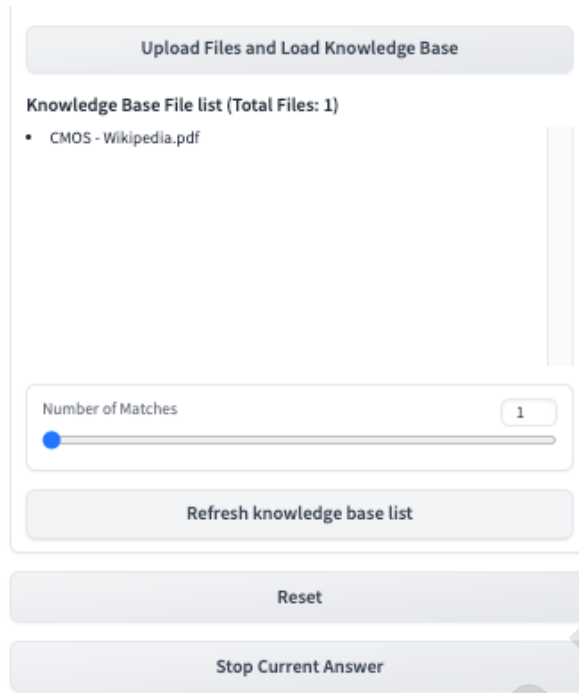
e. Download and view knowledge base files.



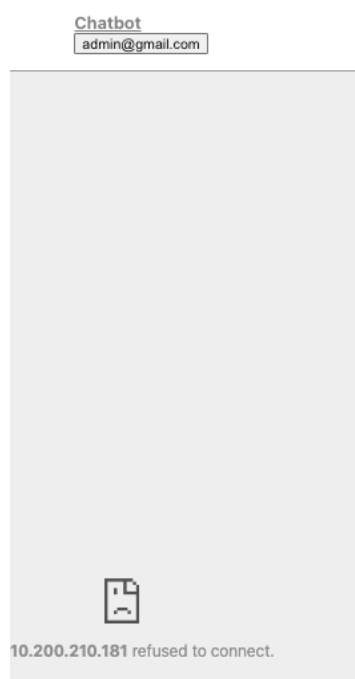
The screenshot shows the Kneron 300 interface. On the left is a 'Dialogue/對話' window with a history of questions and answers. The current question is 'what is the cmos-transistor?' and the answer is a detailed explanation of CMOS technology, including its source information: 'Source [1] 10.200.210.181/content/EN/admin/test/test/original/CMOS - Wikipedia.pdf'. On the right is the 'Knowledge Base Management/知識庫管理' panel. It includes a 'Please Select Mode of Use' section with 'LLM' and 'Knowledge Base Q&A' options. Below is a 'Configure Knowledge Base' section with a dropdown menu for 'Please Select a Knowledge Base to Load' (currently set to 'admin/test'). There is also an 'Add files to Knowledge Base' section with an 'Upload File/上傳文件' button and a 'Drop File Here' area. At the bottom of the right panel, it shows 'Upload Files and Load Knowledge Base' and a 'Knowledge Base File list (Total Files: 1)' containing 'CMOS - Wikipedia.pdf'.

- i. In the generated answer, you can view the source information and documents.
- ii. Open a new browser tab, copy the file path mentioned in the KNEO300's answer regarding the source, and paste the path into the tab.

f. Other function introduction



- I. "Number of Matches": The number of entries found in the given database that are related to or matching the query text. Currently the default is 1
 - II. " Refresh knowledge base list ": Click this button to refresh the directory of the current knowledge base.
 - III. " Reset " Click this button to reset the dialog box.
 - IV. Stop current answer: Click this button to interrupt the current conversation.
- g. Web caching
- I. If you have logged in as admin before, after the device firmware is updated, when you log in with the same interface, due to the existence of web page cache, as shown in the figure below, you need to click the mailbox->log out-> and then log in again.



Chatbot
admin@gmail.com
[Dashboard](#)[Log Out](#)

Chatbot
[Please Signin](#)

Sign In

Email admin@gmail.com
Password

Sign In

Don't have account [Sign Up?](#)

3.2 Others

If the network you are connected to is a non-public IP, that is, it is used within a local network (such as a home, school, or corporate network) and is used for communication within the internal network (such as printers, smart devices, etc.), These IP addresses are usually automatically assigned by the local network's router. Please follow these steps:

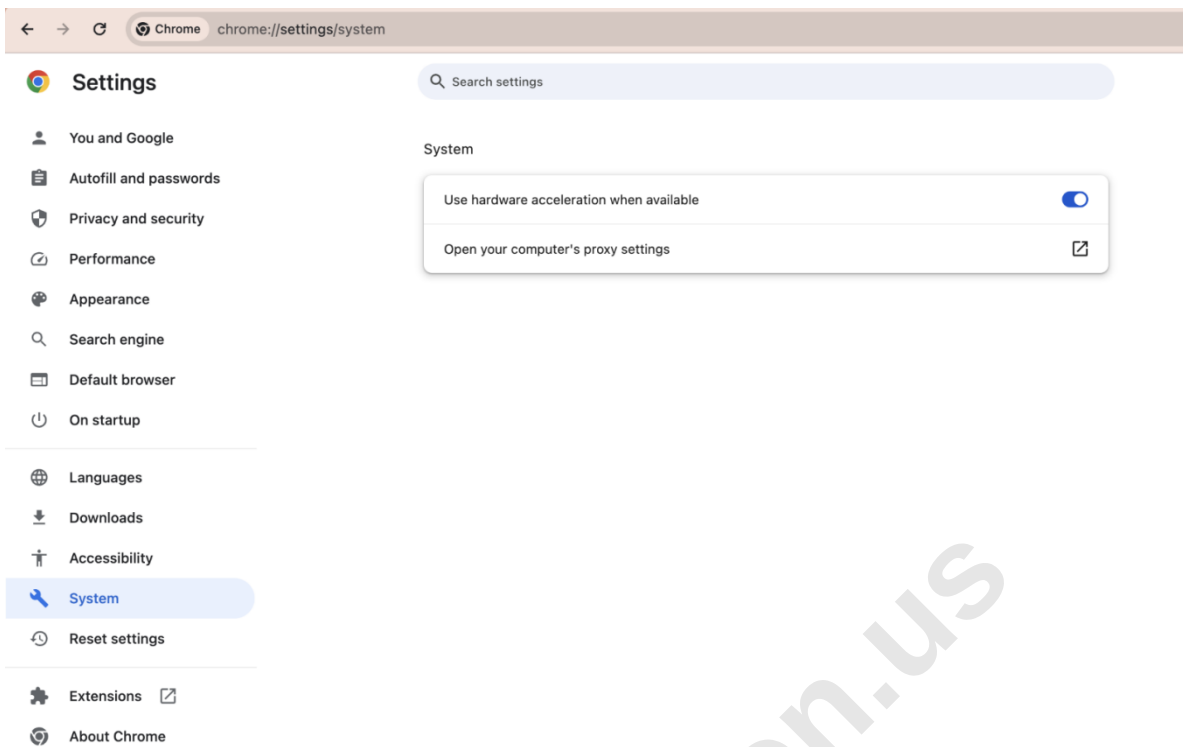
3.2.1. on port 3000. On your local computer, please set up a local proxy.

ssh - NfL 127.0.0.1:8080:127.0.0.1:3000 linaro@192.168.200.102 (This is an example of device ip address, please change it to your actual machine ip address)

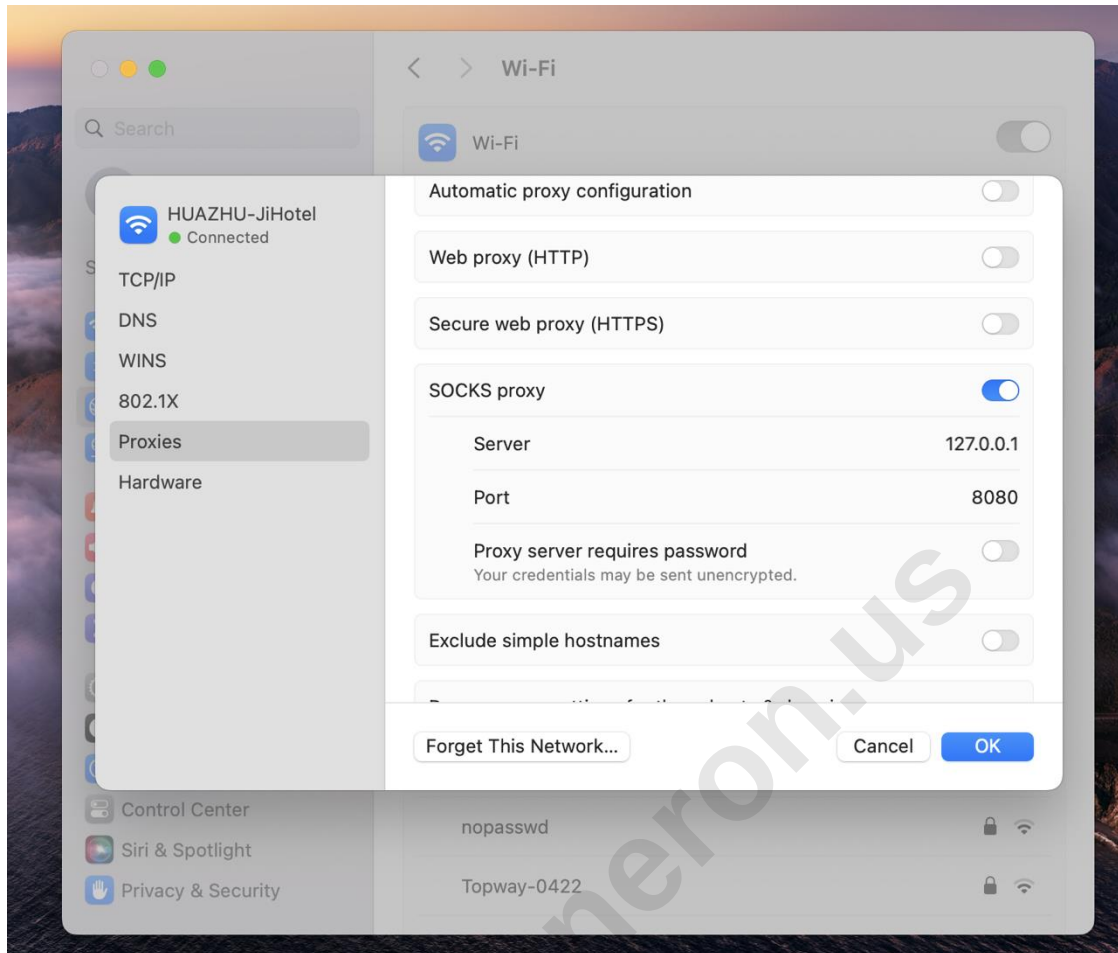
linaro@192.168.10.150's password:

3.2.2. Set up the proxy on the local machine, taking chrome as an example.

a. Go to settings.



- 3.2.3. Find the system in the left column, click Open your computer's proxy settings, and then set the SOCKs proxy server (127.0.0.1) and port (8080)



- b. In your local computer browser, enter: <http://localhost:8080/>

4. System update

4.1 Update chatbot software

Please follow the steps below to update the chatbot software, taking firmware install_20240103 as an example.

- Download the update package (zip compressed format) install_20240103.zip from Kneron development center [Developers | Kneron – Full Stack Edge AI](#), you need to apply the account first, then provide the email address that you registered to Kneron sales team, or the contact window that you purchased, to get the authority of the web access. Belowing figure shows the snapshot of the Kneron development center that you can download from.

Note: The official website will also include an update guide. The update process may differ in the future, so please refer to the documentation on the official website for the most accurate information.

Document name	Version	Latest modified	EIP No.
KNEO300			Open folder

- Unzip the update package and run the command "unzip install_20240103.zip"

```
linaro@chatrobot:~$ ls
asp-debs  install_20240103.zip  kneron_chatbot_prod
linaro@chatrobot:~$ unzip install_20240103.zip
Archive:  install_20240103.zip
  inflating: install_20240103/README.txt
  inflating: install_20240103/content.zip
  inflating: install_20240103/install.sh
  inflating: install_20240103/kneron_chatbot_prod.zip
  inflating: install_20240103/kneronchatbot.so
  inflating: install_20240103/nginx.conf
  extracting: install_20240103/wheels.zip
linaro@chatrobot:~$
```

- ```
linaro@chatrobot: ~/install_20240103
linaro@chatrobot:~$ cd install_20240103
linaro@chatrobot:~/install_20240103$ chmod +x install.sh
linaro@chatrobot:~/install_20240103$
```

- ```
linaro@chatrobot:~/install 20240103
linaro@chatrobot:~/install 20240103$ ./install.sh
Installing: kneron_chatbot_prod.zip
inflating: /data/kneron_chatbot_prod/README
inflating: /data/kneron_chatbot_prod/README_Kneron_APIs.md
inflating: /data/kneron_chatbot_prod/README_internal.md
inflating: /data/kneron_chatbot_prod/Release_notes.md
inflating: /data/kneron_chatbot_prod/envsetting.sh
inflating: /data/kneron_chatbot_prod/install.sh
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/LICENSE
extracting: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/chat/README.md
inflating: /data/kneron_chatbot_prod/kneron_models/chat/kneron_models/chat/tokenizer/tokenizer_model
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer_model
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/config.json
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/config_sentence_transformers.json
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/modules.json
extracting: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/sentence_bert_config.json
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/special_tokens_map.json
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/tokenizer.json
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/tokenizer_config.json
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/en/tokenizer/vocab.txt
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/zh/tokenizer_model
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/zh/tokenizer/bge-small-zh-v1.5/README.md
inflating: /data/kneron_chatbot_prod/kneron_doc_chat/kneron_models/npu_models/small/zh/tokenizer/bge-small-zh-v1.5/config.json
```

- [illegible]

4.2 Update model

The steps for updating the model are the same as updating the Chatbot. The only difference is the download address of the model update package (please contact the supplier or Kneron technical support to obtain the download address).

4.3 Update Firmware

Please contact the supplier or Kneron technical support for firmware update

5.FAQs

info @ kneron.us

