












-   **Stream**
-  
-   Dify
-   SDK 

??????????





```
Client ID
Client Secret
Robot Code
```



```
client_id:
dingxxxxxxxx

client_secret:
xxxxxxxxxxxx

robotCode:
dingxxxxxxxx
```

## ?????? Stream SDK

 Python

```
pip install dingtalk-stream
pip install fastapi
pip install requests
pip install python-dotenv
```

---

??????

```
dify-dingtalk-stream/
```

```
|— main.py  
|— dify.py  
|— dingtalk_bot.py  
|— config.py  
└ .env
```

---

## 1. ??

.env

```
DING_CLIENT_ID=dingxxxxxxx  
DING_CLIENT_SECRET=xxxxxxx  
  
DIFY_API_KEY=app-xxxxxxx  
DIFY_URL=https://api.dify.ai/v1/chat-messages
```

---

## 2. Dify Streaming??

dify.py

```
import requests  
import json  
  
from config import (  
    DIFY_API_KEY,  
    DIFY_URL  
)
```

```
def ask_dify(question,user):

    headers={
        "Authorization":
        f"Bearer {DIFY_API_KEY}",

        "Content-Type":
        "application/json"
    }

    body={

        "query":
        question,

        "inputs":{},

        "response_mode":
        "streaming",

        "user":
        user
    }

    r=requests.post(
        DIFY_URL,
        headers=headers,
        json=body,
        stream=True
    )

    answer=""

    for line in r.iter_lines():

        if line:
```

```
line=line.decode()

if line.startswith("data:"):

    data=json.loads(
        line[5:]
    )

    if data.get("event")== "message":

        answer += data.get(
            "answer",
            ""
        )

return answer
```

## 3. ?? Stream???

dingtalk\_bot.py

□□□□

```
import dingtalk_stream

from dify import ask_dify

class RobotHandler(
    dingtalk_stream.ChatbotHandler
):
```

```
async def process(
    self,
    message
):

    # 获取消息内容

    text = (
        message.content
        .get("text", "")
    )

    sender = (
        message.sender_staff_id
    )

    # 调用Dify接口

    answer = ask_dify(
        text,
        sender
    )

    # 回复消息

    self.reply_text(
        answer,
        message
    )

def start_bot():

    credential = (
        dingtalk_stream.Credential(
```

```
        client_id=
        "client_id",

        client_secret=
        "secret"
    )
)

client = (
    dingtalk_stream.DingTalkStreamClient(
        credential
    )
)

handler=RobotHandler()

client.register_callback_handler(
    handler
)

client.start()
```

## 4. ?????

main.py

```
from dingtalk_bot import start_bot

if __name__=="__main__":

    start_bot()
```



```
python main.py
```

```
████
```

```
connected to DingTalk Stream server
```

```
████████
```

# ??Stream???Webhook????

| □        | ██████ | ██████ |
|----------|--------|--------|
| ████     | ████   | ████   |
| Webhook  | □      | □      |
| ██       | □      | □      |
| Stream██ | □      | □      |
| SDK      | ██     | ██     |
| ████     | □      | □      |
| ████     | □      | ██     |
| ██       | □      | □      |
| □ @██    | □      | □      |

# ????????????“????”

```
██████████
```

```
████
```

```
Dify SSE:
```

```
chunk1:
```

```
██
```

```
chunk2:
```

```
██
```

chunk3:

□□□

↓

□□ Stream:

□□□□

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□□□□□□...

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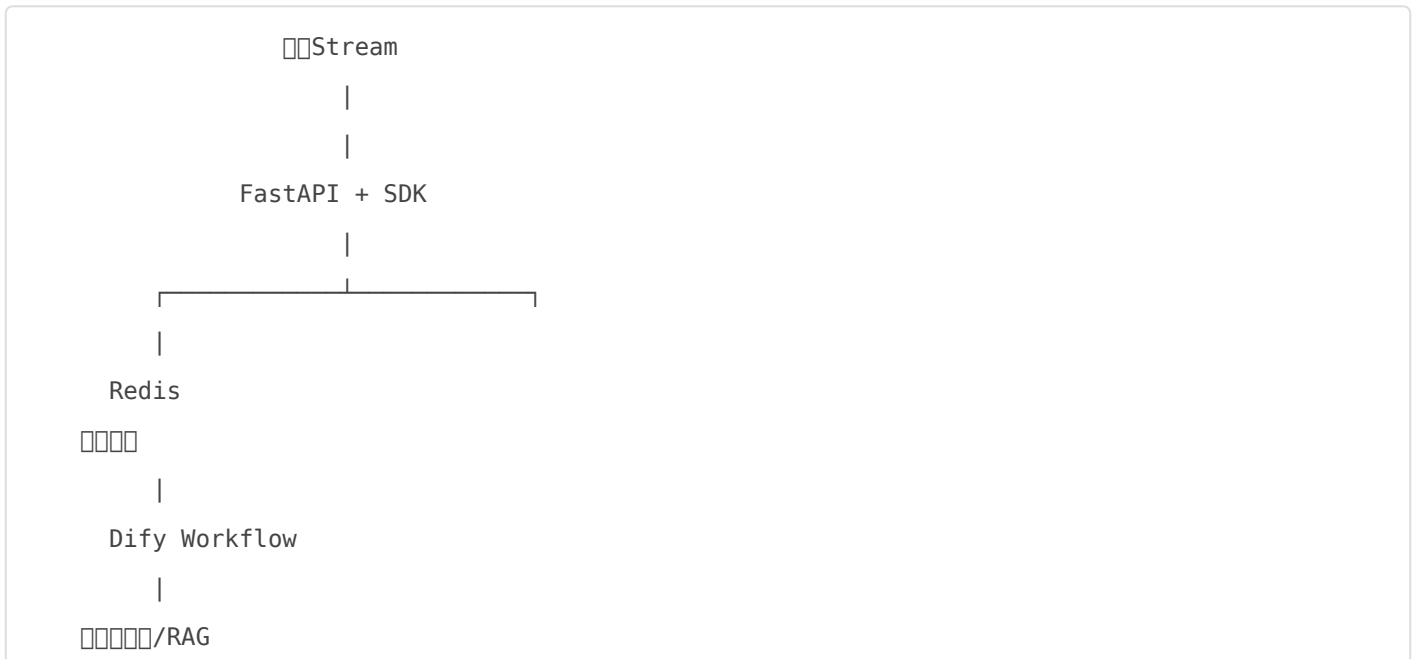
□□□□...

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Webhook □□□

??????????

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**Dify +** □□□□□□

**+ Stream**□□ □□□□□□□□

Webhook

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**ChatGPT** □□□□□

**Stream SDK** □□□□□□□

Card Stream

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Revision #1

Created 8 July 2026 12:59:35 by Admin

Updated 8 July 2026 12:59:58 by Admin