

# Webhook Support

Webhooks allow you to receive real-time notifications when new financial news articles are published. Instead of repeatedly polling the API for updates, your application can register a webhook endpoint to receive automatic notifications.

## How Webhooks Work

1. You register a webhook URL with our API
2. When new articles are published, we send an HTTP POST request to your URL


Webhook Management Endpoints

 News API Server

|

(POST request with news)

v

 Client Webhook URL (Receiver)

<https://client.com/webhook>

|

v

 Client Application

(prints / stores / shows news)

### Register a Webhook

Register a new webhook endpoint to receive notifications.

**POST** /api/webhooks

Request Body:

```
{  
  "url": "https://your-domain.com/webhook-endpoint",  
  "events": ["article.published"]  
}
```

You can provide your production domain, i.e., the endpoint where you want to receive news articles.

For local testing, you can use ngrok to create a temporary public URL for your local server. Please follow the steps below to log in and configure ngrok.

### Step 1: Download ngrok

Go to: <https://ngrok.com/download>

Download and extract

### Step 2: Sign up / Login (IMPORTANT)

Go to: <https://dashboard.ngrok.com/signup>

Create account

### Step 3: Get Auth Token

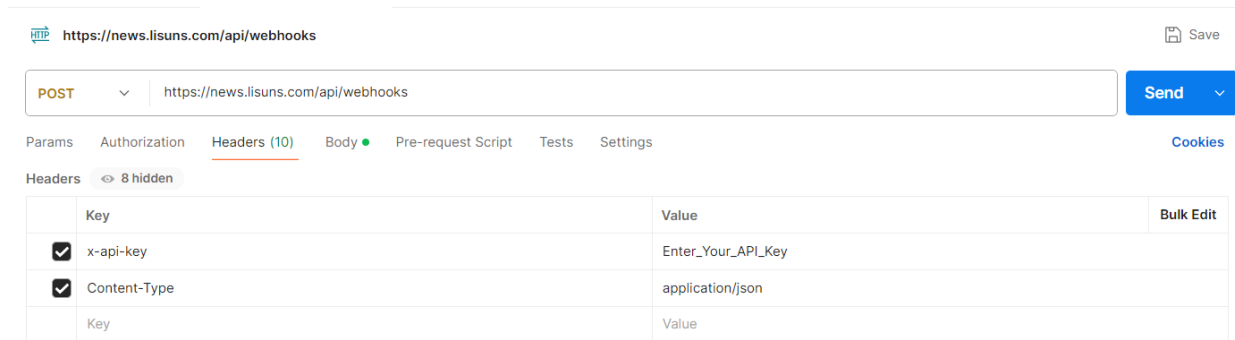
After login, go to: <https://dashboard.ngrok.com/get-started/your-authtoken>

You will see command like: ngrok config add-authtoken YOUR\_TOKEN

Once the webhook URL is configured, you need to generate a webhook secret key using Postman. Please follow the steps below to create the secret key

## Step 04

Enter Base URL followed by your API key



https://news.lisuns.com/api/webhooks

POST https://news.lisuns.com/api/webhooks

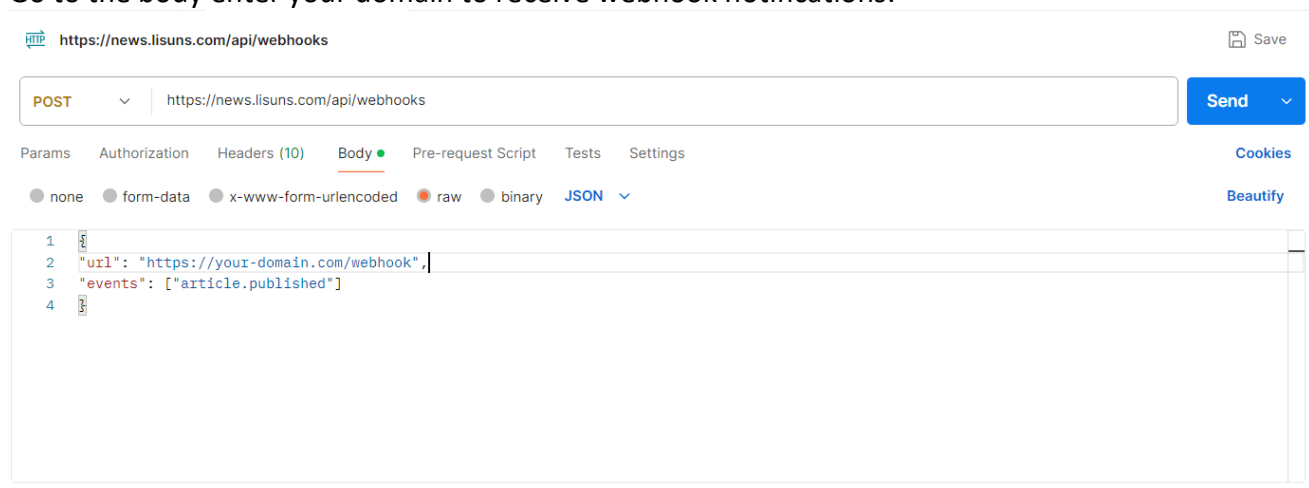
Params Authorization Headers (10) Body Pre-request Script Tests Settings

Headers 8 hidden

Key	Value	Bulk Edit
<input checked="" type="checkbox"/> x-api-key	Enter_Your_API_Key	
<input checked="" type="checkbox"/> Content-Type	application/json	
Key	Value	

## Step 05

Go to the body enter your domain to receive webhook notifications.



https://news.lisuns.com/api/webhooks

POST https://news.lisuns.com/api/webhooks

Params Authorization Headers (10) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary JSON

```
1 {
2   "url": "https://your-domain.com/webhook",
3   "events": ["article.published"]
4 }
```

## Step 06

Upon sending the above request, you will receive the response shown below.  
The secret key will be included in the response; please store it securely at your end.

```
{
  "webhook_id": "wh_1a2b3c4d5e6f",
  "url": "https:// your-domain.com /webhook",
  "events": ["article.published"],
  "secret": " whsec_a1b2c3d4e5f6g7h8i9j0",
  "created_at": "2026-01-27T06:23:36.691004+00:00"
}
```

**Step 07**

Developed code where you want the Realtime news update.  
use the sample code below.

**Example(Python)**

```
from flask import Flask, request, jsonify
import hmac
import hashlib

app = Flask(__name__)

WEBHOOK_SECRET = "add secret that received from postman "

def verify_webhook_signature(payload, signature, secret):
    expected_signature = hmac.new(
        secret.encode("utf-8"),
        payload,
        hashlib.sha256
    ).hexdigest()

    return hmac.compare_digest(expected_signature, signature)

@app.route("/webhook-endpoint", methods=["POST"])
def webhook():
    raw_payload = request.data
    received_signature = request.headers.get("X-Webhook-Signature")

    if not received_signature:
        return "Missing signature", 400

    is_valid = verify_webhook_signature(
        raw_payload,
        received_signature,
        WEBHOOK_SECRET
    )

    if not is_valid:
        return "Invalid signature", 401

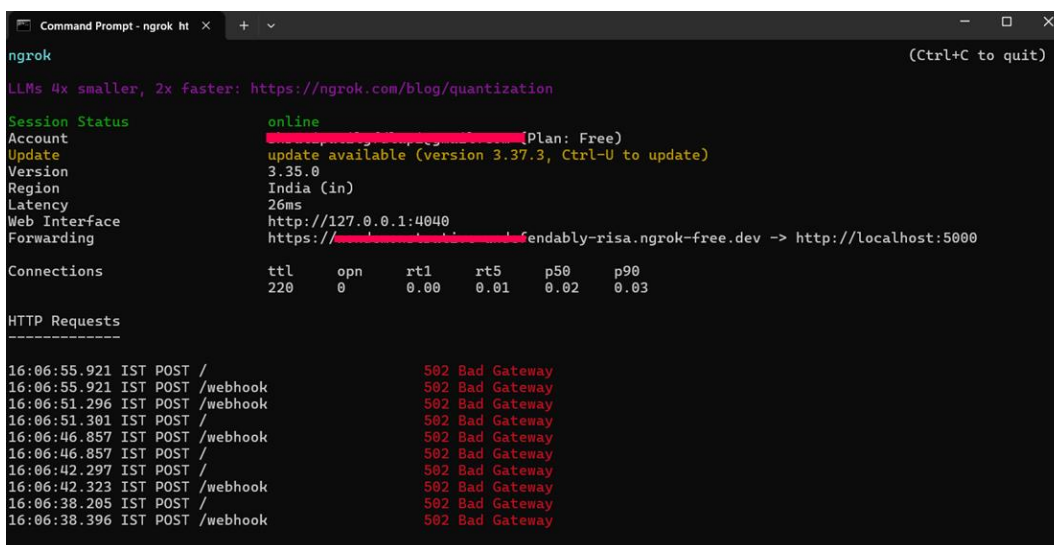
    data = request.json
    print("✅ Webhook verified successfully")
    print(data)

    return jsonify({"status": "ok"}), 200
```

```
if __name__ == "__main__":  
    app.run(port=5000)
```

## Step 07: Add Auth Token in CMD

In the step 3 you have received the authentication token, run the command in the Command Prompt (CMD). Once executed successfully, you will receive a response as shown below.



```
ngrok  
LLMs 4x smaller, 2x faster: https://ngrok.com/blog/quantization  
  
Session Status  
Account      online  
Update      update available (version 3.37.3, Ctrl-U to update)  
Version      3.35.0  
Region      India (in)  
Latency      26ms  
Web Interface http://127.0.0.1:4040  
Forwarding   https://[redacted]endably-risa.ngrok-free.dev -> http://localhost:5000  
  
Connections  
ttl      opn      rt1      rt5      p50      p90  
220      0        0.00     0.01     0.02     0.03  
  
HTTP Requests  
-----  
16:06:55.921 IST POST / 502 Bad Gateway  
16:06:55.921 IST POST /webhook 502 Bad Gateway  
16:06:51.296 IST POST /webhook 502 Bad Gateway  
16:06:51.301 IST POST / 502 Bad Gateway  
16:06:46.857 IST POST /webhook 502 Bad Gateway  
16:06:46.857 IST POST / 502 Bad Gateway  
16:06:42.297 IST POST / 502 Bad Gateway  
16:06:42.323 IST POST /webhook 502 Bad Gateway  
16:06:38.205 IST POST / 502 Bad Gateway  
16:06:38.396 IST POST /webhook 502 Bad Gateway
```

## Step 8: Start Your Webhook Server

Run your Python file in CMD or VS Code terminal: `python webhook.py`  
You should see: Running on `http://127.0.0.1:5000`

## Step 9: Start ngrok

Open a new Command Prompt and run: `ngrok http 5000`

You will receive a response like below:

Forwarding `https://xxxx.ngrok-free.dev -> http://localhost:5000`

Use this URL to form your webhook endpoint: `https://xxxx.ngrok-free.dev/webhook-endpoint`

## Step 10: Webhook Trigger & Data Reception

Once the webhook is successfully configured and the server is running, the system will automatically send data when an event is triggered.

You will receive the response in your terminal as shown below:

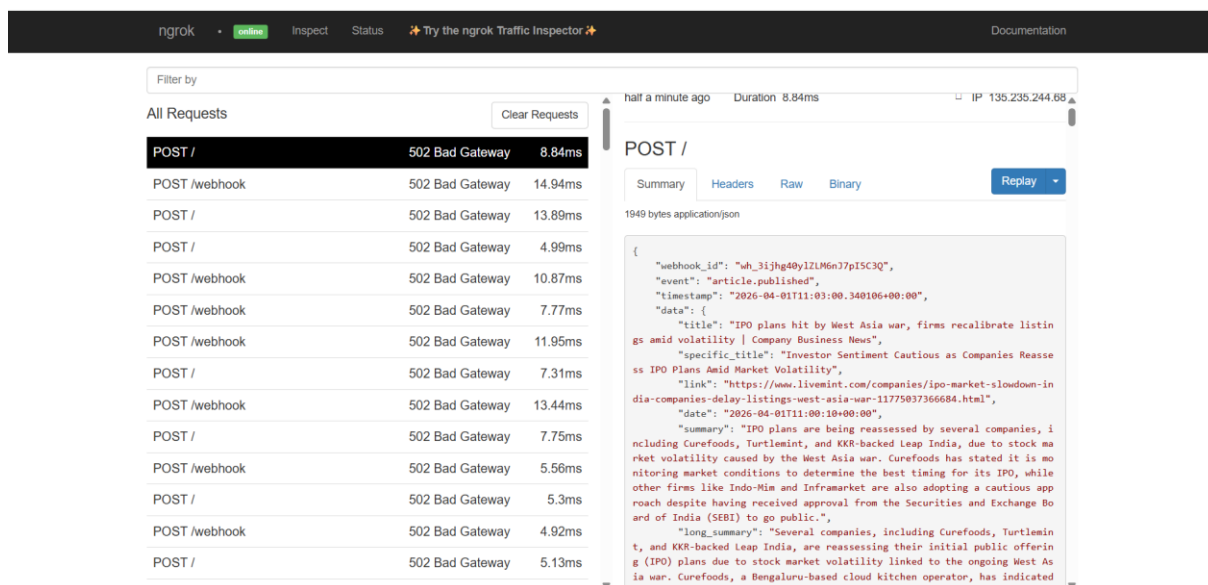
### Response:

```
{
  "webhook_id": "wh_1a2b3c4d5e6f",
  "event": "article.published",
  "timestamp": "2025-05-15T14:22:00Z",
  "data": {
    "title": "TCS Reports Strong Q4 Results",
    "summary": "Brief summary of the article...",
    "category": "Financial Performance",
    "sentiment": "positive",
    "source": "Economic Times",
    "company": "Tata Consultancy Services",
    "symbol": "TCS"
  }
}
```

## Step 11: Verify Webhook in ngrok (Optional)

Open the below URL in your browser: <http://localhost:4040>

You will see



The screenshot displays the ngrok web interface. On the left, a table lists all requests, including POST requests to a local endpoint and POST requests to a webhook. The right panel shows a detailed view of a selected POST request, displaying its headers, raw body, and a JSON summary. The JSON summary includes fields for webhook\_id, event, timestamp, and data, which contains details about an IPO plan.

Filter by	Clear Requests
POST /	502 Bad Gateway 8.84ms
POST /webhook	502 Bad Gateway 14.94ms
POST /	502 Bad Gateway 13.89ms
POST /	502 Bad Gateway 4.99ms
POST /webhook	502 Bad Gateway 10.87ms
POST /webhook	502 Bad Gateway 7.77ms
POST /webhook	502 Bad Gateway 11.95ms
POST /	502 Bad Gateway 7.31ms
POST /webhook	502 Bad Gateway 13.44ms
POST /	502 Bad Gateway 7.75ms
POST /webhook	502 Bad Gateway 5.56ms
POST /	502 Bad Gateway 5.3ms
POST /webhook	502 Bad Gateway 4.92ms
POST /	502 Bad Gateway 5.13ms

POST /

Summary Headers Raw Binary

1949 bytes application/json

```
{
  "webhook_id": "wh_3ijhg40y1ZUM6n37p15C3Q",
  "event": "article.published",
  "timestamp": "2026-04-01T11:03:00.340106+00:00",
  "data": {
    "title": "IPO plans hit by West Asia war, firms recalibrate listings amid volatility | Company Business News",
    "specific_title": "Investor Sentiment Cautious as Companies Reassess IPO Plans Amid Market Volatility",
    "link": "https://www.livemint.com/companies/ipo-market-slowdown-in-dia-companies-delay-listings-west-asia-war-11775037366684.html",
    "date": "2026-04-01T11:00:10+00:00",
    "summary": "IPO plans are being reassessed by several companies, including Curefoods, Turtlemint, and KKR-backed Leap India, due to stock market volatility caused by the West Asia war. Curefoods has stated it is monitoring market conditions to determine the best timing for its IPO, while other firms like Indo-Mia and Inframarket are also adopting a cautious approach despite having received approval from the Securities and Exchange Board of India (SEBI) to go public.",
    "long_summary": "Several companies, including Curefoods, Turtlemint, and KKR-backed Leap India, are reassessing their initial public offering (IPO) plans due to stock market volatility linked to the ongoing West Asia war. Curefoods, a Bengaluru-based cloud kitchen operator, has indicated that it is closely monitoring market conditions to determine the optimal timing for its IPO."
  }
}
```

**Important Notes**

- Ensure your server is running at all times
  - Keep ngrok running (for local testing)
  - Webhook will trigger only when an event occurs
  - Verify that the webhook URL is correct
- 

**Final Note**

Once the webhook is configured successfully, your application will automatically receive real-time news updates whenever a new article is published.

**Delete Webhook**

Delete a webhook subscription.

**DELETE** /api/webhooks/{webhook\_id}