

Overview

Current Weather Data API

Version: 1.0

27-01-2026

Weather Forecast Team

Current Weather Data API

Current Weather Data API from OpenWeather provides current weather details of a specified location. You can specify the location by providing its latitude and longitude.

- Provides weather of a specific location
- Accepts location as latitude and longitude

Base URL

https://api.openweathermap.org

Endpoint

GET /data/2.5/weather

How to get the API Key

1. Sign in to OpenWeather site.
2. Go to My API Keys section
3. Generate a new API key.

Rate Limiting

60 calls per minute and 1,000 calls/day for the free base plan

Query Parameters

Parameter	Type	Description	Required/Optional
Latitude	Number	Latitude of the place	Required
Longitude	Number	Longitude of the place	Required
appid	String	Authentication key for the openweather app	Required

What do you need to use the API

- API Key Name and its value

Authentication

Authentication is done using API Key.

Parameter	Description	Details
appid	<i>dummyid123456</i>	Query Parameter

Example Request

GET

<https://api.openweathermap.org/data/2.5/weather?lat=11&lon=75&appid=5b0653c25ce5cf2cb349ad0483125c05>

Response body

```
JSON {
  "coord": {
    "lon": 75,
    "lat": 11
  },
  "weather": [
    {
      "id": 804,
      "main": "Clouds",
      "description": "overcast clouds",
      "icon": "04d"
    }
  ],
  "base": "stations",
  "main": {
    "temp": 300.32,
    "feels_like": 302.12,
    "temp_min": 300.32,
    "temp_max": 300.32,
    "pressure": 1014,
    "humidity": 68,
    "sea_level": 1014,
    "grnd_level": 1014
  },
  "visibility": 10000,
  "wind": {
    "speed": 0.95,
    "deg": 35,
    "gust": 1.2
  },
  "clouds": {
    "all": 99
  },
  "dt": 1769500471,
  "sys": {
    "country": "IN",
    "sunrise": 1769477035,
    "sunset": 1769518871
  },
  "timezone": 18000,
```

	<pre> "id": 1265873, "name": "Kozhikode", "cod": 200 } </pre>
yaml	<pre> coord: lon: 75 lat: 11 weather: - id: 804 main: Clouds description: overcast clouds icon: 04d base: stations main: temp: 300.32 feels_like: 302.12 temp_min: 300.32 temp_max: 300.32 pressure: 1014 humidity: 68 sea_level: 1014 grnd_level: 1014 visibility: 10000 wind: speed: 0.95 deg: 35 gust: 1.2 clouds: all: 99 dt: 1769500471 sys: country: IN sunrise: 1769477035 sunset: 1769518871 timezone: 18000 id: 1265873 name: Kozhikode cod: 200 </pre>

Status

The following error codes are standard HTTP responses returned by the OpenWeather API.

Status Code	Message	Result
200	OK	Passed
401	Unauthorized	Invalid API Key
404	Not found	Location not found
429	Too many requests	Rate limit exceeded
500	Server error	Internal error

Request Headers

Key	Value
Date	Tue, 27 Jan 2026 07:54:31 GMT
Content-Type	application/json; charset=utf-8
Content-Length	495
Connection	keep-alive
X-Cache-Key	/data/2.5/weather?lat=11&lon=75
Access-Control-Allow-Origin	*
Access-Control-Allow-Credentials	true
Access-Control-Allow-Methods	GET, POST