PREREQUISITES
Create an account in Open Weather Map website

Date : 15 October 2022

Team ID : PNT2022TMID51479

Project Name Project - SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFE

IBM Watson IoT Platform | **Weather API - OpenWeatherMap** | +

← → C 🔒 openweathermap.org/api

OpenWeather | 🔍 Weather in your city | Guide | API | Dashboard | Marketplace | Pricing | Maps | Our Initiatives | Partners | Blog | For Business | Muth... ▾ | Support ▾

Professional collections

For professionals and specialists with middle sized project, we recommend our Professional collections, which included Current & Forecasts collection, Historical weather data collection, Weather Maps collection and other APIs.

For Enterprise level projects we provide Enterprise license, which is included all forecast products and current state, along with alerts, maps, and other products. Learn more

You can read the How to Start guide and enjoy using our powerful weather APIs right now.

Current & Forecast weather data collection

Current Weather Data
[API doc] [Subscribe]
- Access current weather data for any location including over 200,000 cities
- We collect and process weather data from different sources such as global and local weather models, satellites, radars and a vast network of weather stations
- JSON, XML, and HTML formats
- Included in both free and paid subscriptions

Hourly Forecast 4 days
[API doc] [Subscribe]
- Hourly forecast is available for 4 days
- Forecast weather data for 96 timestamps
- JSON and XML formats
- Included in the Developer, Professional and Enterprise subscription plans

Daily Forecast 16 days
[API doc] [Subscribe]
- 16 days forecast is available for any location on the globe
- 1-day step for 16 days
- JSON and XML formats
- Included in all paid subscription plans

Activate Windows
Go to Settings to activate Windows

Search the web and Windows ... 10:04 AM 11/12/2022

IBM Watson IoT Platform | **Current weather data - OpenWea** | +

← → C 🔒 openweathermap.org/current

OpenWeather | 🔍 Weather in your city | Guide | API | Dashboard | Marketplace | Pricing | Maps | Our Initiatives | Partners | Blog | For Business | Muth... ▾ | Support ▾

You can call by city name or city name, state code and country code. Please note that searching by states available only for the USA locations.

API call

```
https://api.openweathermap.org/data/2.5/weather?q={city name}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{country code}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{state code},{country code}&appid={API key}
```

Parameters

q required City name, state code and country code divided by comma, Please, refer to ISO 3166 for the state codes or country codes.
You can specify the parameter not only in English. In this case, the API response should be returned in the same language as the language of requested location name if the location is in our predefined list of more than 200,000 locations.

appid required Your unique API key (you can always find it on your account page

Call current weather data
How to make an API call
Bulk downloading
Weather fields in API response
JSON
XML
List of condition codes
Min/max temperature in current weather
API and forecast API
Other features
Geocoding API
Built-in geocoding
Built-in API request by city name
Built-in API request by city ID
Built-in API request by ZIP code
Format
Units of measurement
Multilingual support
Call back function for JavaScript code

Activate Windows
Go to Settings to activate Windows

Search the web and Windows ... 10:05 AM 11/12/2022

{"coord":{"lon":80.2785,"lat":13.0878},"weather":[{"id":201,"main":"Thunderstorm","description":"thunderstorm with rain","icon":"11d"},{"id":501,"main":"Rain","description":"moderate rain","icon":"10d"}],"base":"stations","main":{"temp":299.14,"feels_like":299.14,"temp_min":299.14,"temp_max":299.14,"pressure":1013,"humidity":94},"visibility":1500,"wind":{"speed":5.14,"deg":130},"rain":{"1h":3.16},"clouds":{"all":100},"dt":1668227904,"sys":{"type":1,"id":9218,"country":"IN","sunrise":1668213384,"sunset":1668254982},"timezone":19800,"id":1264527,"name":"Chennai","cod":200}

Weather in your city

chennai   🔍 Search

Chennai, IN 🇮🇳 *moderate rain*

27℃ temperature from 27 to 27 °C, wind 6.17 m/s. clouds 75 %, 1013 hpa

Geo coords [13.0878, 80.2785]

Search engine is very flexible. How it works:

- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country.
  The order is important - the first is city name then comma then country. Example - London, GB or New York, US.