

PREREQUISITES

Create an account in Open Weather Map website

DATE	04 NOV 2022
Team ID	PNT2022TMID17071
Project Title	Signs with smart connectivity for better road safety

The screenshot displays the OpenWeatherMap website interface. The top navigation bar includes links for Weather in your city, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, and Support. The main content area is titled 'Current & Forecast weather data collection' and lists three subscription options:

- Current Weather Data**: Access current weather data for any location including over 200,000 cities. Includes JSON, XML, and HTML formats. Included in both free and paid subscriptions.
- Hourly Forecast 4 days**: Hourly forecast is available for 4 days. Includes JSON and XML formats. Included in the Developer, Professional and Enterprise subscription plans.
- Daily Forecast 16 days**: 16 days forecast is available for any location on the globe. Includes JSON and XML formats. Included in all paid subscription plans.

Below the subscription options, the 'Current weather data' page is shown, detailing API calls and parameters for fetching weather data. The page includes a section for 'API call' with three example URLs:

```
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}
```

The 'Parameters' section lists the required parameters for the API call:

- 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.

On the right side of the 'Current weather data' page, there is a list of 'Other features' including 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, and Call back function for JavaScript code.

```
IBM Watson IoT Platform x Members x https://api.openweathermap.org/ x +
api.openweathermap.org/data/2.5/weather?q=chennai,IN&appid=b0571c2325ec9dc3e86f542eb43f9e80

{"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}
```



Activate Windows
Go to Settings to activate Windows.

Search the web and Windows

IBM Watson IoT Platform x Find - OpenWeatherMap x https://api.openweathermap.org/ x +

openweathermap.org/find?utf8=✓&q=chennai

OpenWeather

Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Muth... Support

Weather in your city

chennai Search

Chennai, IN moderate rain

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.

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openweathermap.org/find?utf8=✓&q=chennai

OpenWeather

Weather in your city

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Weather in your city

chennai Search

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