Bing Search V7 API Gateway

Currently serving News Search

# Overview

## What is the Bing News Search API?

Bing News Search API lets users find headline news, news by category, and trending articles. If you are looking to build an experience like bing.com/news, this is the API to use.

## What is the Bing News Search API Gateway?

Is the API to Bing News Search API to reduce the overhead of setting up azure portal, resource creation, configuration, and ultimately less reading of the large documentation.

## Get Started

You can easily call the API by sending a native HTTP GET request to hosted app or deploy with app your own subscription key. To get started using the API in your local system or cloud click on [QuickStart](#_QuickStart).

## Features

While Bing News Search API primarily focuses on finding relevant news articles, it also provides several features for intelligent and focused news retrieval on the web.

**Feature Description**

General News The user's search query is used to retrieve general news articles. The API returns top news articles from various categories if the search question is null.

Today's trending news stories Gets you the latest news items that are trending on social media.

News by category Look for specific types of news, such as business, sports, or entertainment.

# 

# QuickStart

## Deploy app in own server (or skip this to start firing GET requests).

1. Use this [link](https://www.microsoft.com/en-us/bing/apis/pricing) to procure azure Bing search resource and generate subscription key.
2. Pull the code from [repository](https://github.com/Virupax/Bing-Search-V7-API-Gateway.git).
   1. Update subscription key in Bing Search V7 API\App Constants\apiConstants.js
3. Download and install the latest version of [Node.js](https://nodejs.org/en/download/).
4. Command Prompt/bash change directory to Application’s directory
   1. npm install
   2. pm2 start server.js
5. Refer HTTP GET Request to query the end points.

## HTTP GET Request

### Sample Query:

Simple search request for keyword covid-19 in India with language English and top two matching articles.

### **URL:** <http://localhost:3000/api/v1/news/search?q=covid-19&mkt=en-IN&count=2>

### Example JSON Response:

A successful response is returned in JSON, as shown in the following example:



# How To

## Search News:

Use News Search API to search the Web for news that is relevant to the user's search query. Use the below end point to make a request using cURL or Postman.

End Point:[http://localhost:3000/api/v1/news/search?q=<search-term](http://localhost:3000/api/v1/news/search?q=%3csearch-term)>

### Query Parameters:

* count and offset — Used to page image results.
* mkt — Used to specify the market where the results come from, which is typically the market where the user is making the request from.
* safeSearch — Used to specify the user's safe search preference.
* textDecorations and textFormat — Used to turn on hit highlighting.

*Refer* [*Query Parameters*](#_Query_Parameters) *for detailed specs.*

### Example:

curl  [http://localhost:3000/api/v1/news/search?q=election+2021&mkt=en-us&safeSearch=moderate&textdecorations=true&textformat=raw&count=10&offset=0](https://api.bing.microsoft.com/v7.0/news/search?q=election+2021&mkt=en-us&safeSearch=moderate&textdecorations=true&textformat=raw&count=10&offset=0)

## Get Trending News

Use this end point to get trending news on social media.

End Point: [http://localhost:3000/api/v1/news/trendingtopics](https://api.bing.microsoft.com/v7.0/news/trendingtopics)

### Query Parameters:

* mkt — Used to specify the market where the results come from, which is typically the market where the user is making the request from.
* since — Used to select trending topics that Bing discovered on or after the specified date and time.
* sortBy — Use to specify the order (by date or by relevance) to return news topics in.

### Example:

curl  [http://localhost:3000/api/v1/news/trendingtopics?mkt=en-us&since=1620358190sortby=date](%20http://localhost:3000/api/v1/news/trendingtopics?mkt=en-us&since=1620358190sortby=date)

## Get Trending News by Category

Call the News Category API to get headline news or category-specific news, such as sports, politics, or world news.

End Point:<https://api.bing.microsoft.com/v7.0/news?mkt=en-us&category=sports>

### Query Parameters:

* category — This is an optional region. This is where you specify which news category you want to get your news from. See News categories by market for a list of potential news categories that you can specify. If no parameters are given, the API will return up to ten headline news posts.
* mkt — This specifies the market from which the results are derived, which is usually the market from which the consumer is making the request. See News Category API markets for a list of markets that this API serves.

### Example:

curl <https://api.bing.microsoft.com/v7.0/news?mkt=en-us&category=sports>

## Pagination

The count parameter specifies the number of results to return in the response. The maximum number of results that you may request in the response is default 10 and the maximum is 100.

End Point: All three end points behave same when added in query parameters.

### Query Parameters:

Set count to 10 and offset to 0 to get the first page of results if your user interface displays 10 news articles per page. Increase the offset by 10 for each subsequent page (for example, 10, 20).

### Example:

http://localhost:3000/api/v1/news/search?q=biden&count=10&offset=0&mkt=en-us

## Request Throttling

# The number of queries per second (QPS) that you may make is determined by the service and the subscription form. The request fails if the QPS cap is reached or exceeded, and an HTTP 429 status code is returned. The Retry-After header in the answer shows how long you must wait before submitting another message.

To Make sure the app has the logic to remain within the quota. I have written a client to restrict number of calls within quota. (QPS-client-sample.html).

# REST

## End Points

|  |  |
| --- | --- |
| **Endpoint** | **Description** |
| http://localhost:3000/api/v1/news | The top news articles by category are returned. You may, for example, request the most popular sports or entertainment posts. See the category parameter for more detail on defining categories. |
| http://localhost:3000/api/v1/news/search | Returns news articles based on the search question entered by the user. The call returns the top news articles if the search query is null. |
| http://localhost:3000/api/v1/news/trendingtopics | Returns trending news on social media. |

## Query Parameters

### Common Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Required** | **Type** | **Description** |
| **mkt** | No | String | *The market must be formatted as a <language>-<country/region> pair. Take, for instance, en-US. See Market codes for a list of potential* [*market values*](#_Market_and_Language)*.* |
| **safeSearch** | No | String | ***Off*** *- Return news articles with adult text, photographs, or videos if they are turned.*  ***Moderate****- Return news articles with adult text but no adult photos or videos*  ***Strict*** *- Returning news articles containing adult text, photographs, or videos is prohibited.*  ***Moderate*** *is the default setting.* |
| **since** | No | Integer | *Bing selects trending topics using the Unix epoch time. Bing returns trending topics discovered on or after the date and time mentioned, not the date the subject was written.* |
| **sortBy** | No | String | ***Date*** *— Returns a list of news topics ordered by date, from newest to oldest.*  ***Relevance*** *— Sorts news topics by relevance, which takes into account subject freshness, genre, global user interaction, and customized features.* |
| **textDecorations** | No | Boolean | *If* ***true****, the strings may include markers. The default is* ***false****.* |
| **textFormat** | No | String | ***Raw*** *— Use Unicode characters to mark content that needs special formatting.*  ***HTML*** *— Use HTML tags to mark content that needs special formatting.* |

### End Point Specific Parameters:

* <http://localhost:3000/api/v1/news>

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Required** | **Type** | **Description** |
| **category** | No | String | The category of news articles to return. For example, Sports or Entertainment articles. For a list of possible categories, see [Market and News Categories](#_Market_and_News). |

* <http://localhost:3000/api/v1/news/search>

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Required** | **Type** | **Description** |
| **q** | Yes | String | *The word used in the user's search query. The top news reports are included in the response if the term is empty.* |
| **count** | No | Integer | *The number of news articles to return in the response.* |
| **offset** | No | Integer | *Use this parameter along with the count parameter to page results. Example: count=10&offset=20, to get second set of 10 count results.* |
| **freshness** | No | String | ***Day –*** *Returns articles within 24 hours.*  ***Week –*** *Returns articles within 7 days.*  ***Month –*** *Returns articles within 30 days.* |
| **originalImg** | No | Boolean | *If* ***true****, includes actual image URL else thumbnail* |

### Market and Language

Please refer below link for all the possible values for Market and Language pair-<https://docs.microsoft.com/en-us/bing/search-apis/bing-news-search/reference/market-codes>

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### Market and News Categories

Please refer below link for all the possible values for Market and News Categories pair-<https://docs.microsoft.com/en-us/bing/search-apis/bing-news-search/reference/query-parameters#news-categories-by-market>

## Response Objects

## Error codes

The following are the possible HTTP status codes that a request may return.

**Status code Description**

200 Success.

400 One of the query parameters is missing or not valid.

410 The request used HTTP instead of the HTTPS protocol. HTTPS is the only supported protocol.

429 The caller exceeded their queries per second quota.

500 Unexpected server error.

The Application may return these below errors when using [Deploy app in own server](#_Deploy_app_in), incase of mis configuration.

401 The subscription key is missing or is not valid.

403 The user is authenticated (for example, they used a valid subscription key) but they don’t have permission to the requested resource.