

- [Developer Portal](#)
- [Forums](#)
- [GitHub](#)

Overview

- [Introduction](#)
- [Getting started](#) >
- [Tools and libraries](#) >
- [Migration guide](#) >
- [What to build](#)
- [Fundamentals](#) ▾
 - [X API v2 data dictionary](#)
 - [Fields](#)
 - [Expansions](#)
 - [Post Annotations](#)
 - [Metrics](#)
 - [Conversation ID](#)
 - [Pagination](#)
 - [Versioning](#)
 - [Consistency](#)
- [Rate limits](#)
- [Post cap](#)
- [Edit Posts](#)

Posts

- [Search](#) >
- [Post Counts](#) >
- [Filtered Stream](#) >
- [Timelines](#) >
- [Post Lookup](#) >
- [Bookmarks](#) >
- [Manage Posts](#) >
- [Reposts](#) >
- [Quotes](#) >
- [Hide replies](#) >
- [Volume Streams](#) >

Users

- [User Lookup](#) >

Fundamentals

Rate limits

Every day, many thousands of developers make requests to the X API. To help manage the sheer volume of these requests, limits are placed on the number of requests that can be made. These limits help provide the reliable and scalable API that our developer community relies on.

The maximum number of requests allowed is based on a time interval, typically over a specified period or window of time. The most common interval is fifteen minutes. For example, an endpoint with a limit of 900 requests per 15 minutes allows up to 900 requests in any 15-minute interval.

Rate limits depend on the authentication method. For instance, if using [OAuth 1.0a User Context](#), each set of users' [Access Tokens](#) has its own rate limit per period. Alternatively, if using [OAuth 2.0 Bearer Token](#), your app will have its own separate limit per time period. When these limits are exceeded, an error is returned.

Table of contents

- [X API v2 rate limits](#)
- [X API Enterprise rate limits](#)
- [Rate limits and authentication method](#)
- [HTTP headers and response codes](#)
- [Recovering from rate limits](#)
- [Tips to avoid being rate limited](#)

X API v2 rate limits

The following table lists the rate limits of each X API paid plan. These limits are also available in the [developer portal](#)'s products section.

Endpoint	Pro Limit	Basic Limit	Free Limit
Tweets			
DELETE /2/tweets/:id	50 requests / 15 mins	5 requests / 15 mins	17 requests / 24 hours

On this page

Table of contents

[X API v2 rate limits](#)[Rate limits and authentication method](#)[HTTP headers and response codes](#)[Error Responses](#)[Recovering from a rate limit](#)[Tips to avoid being rate limited](#)[Caching](#)[Prioritize active users](#)[Adapt to the search results](#)[Denylist](#)

Search >		24 hours
Follows >		PER APP
Mutes >	<u>DELETE /2/users/:id/likes/:tweet_id</u>	50 requests / 15 mins PER USER
Blocks >		100 requests / 24 hours PER USER
Personalized Trends >	<u>DELETE /2/users/:id/retweets/:tweet_id</u>	1 requests / 15 mins PER USER
Engagement Metrics		
Get Last 28hr Metrics for Posts	<u>GET /2/tweets</u>	900 requests / 15 mins PER USER
Get Historical Metrics for Posts		15 requests / 15 mins PER APP
Direct Messages		
Manage >	<u>GET /2/tweets/:id</u>	1 requests / 15 mins PER USER
Lookup >		450 requests / 15 mins PER APP
Blocks >		1 requests / 15 mins PER APP
Likes		
Introduction	<u>GET /2/tweets/:id/liking_users</u>	1 requests / 15 mins PER USER
Guides >		5 requests / 15 mins PER APP
Returns Post objects liked by the provided User ID	<u>GET /2/tweets/:id/quote_tweets</u>	5 requests / 15 mins PER USER
Returns User objects that have liked the provided Post ID		1 requests / 15 mins PER APP
Causes the User (in the path) to like the specified Post	<u>POST /2/tweets/:id/retweet</u>	1 requests / 15 mins PER APP
Causes the User (in the path) to unlike the specified Post	<u>DELETE /2/tweets/:id/retweet</u>	1 requests / 15 mins PER APP
Likes Firehose stream	<u>GET /2/tweets/counts/all</u>	1 requests / 15 mins PER APP
Likes Sample 10 stream		300 requests / 15 mins PER APP
Lists		
Lookup Lists >	<u>GET /2/tweets/counts/recent</u>	5 requests / 15 mins PER APP
Lookup List Posts >		1 requests / second PER USER
Manage Lists >	<u>GET /2/tweets/search/all</u>	1 requests / second PER APP
List Members >		1 requests / second PER APP
Pinned Lists >		1 requests / second PER APP
Spaces		
Introduction	<u>GET /2/tweets/search/recent</u>	60 requests / 15 mins PER USER
Spaces Lookup >		1 requests / 15 mins PER USER
Search Spaces >		450 requests / 60 requests / 1 requests / 15 mins 15 mins 15 mins PER APP

Communities

Communities Lookup >

Search Communities >

<u>GET /2/tweets/search/stream</u>	50 requests /		
	15 mins		
	PER APP		

Trends

Introduction

GET Trends

<u>GET /2/users/:id/liked_tweets</u>	75 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
	PER USER	PER USER	PER USER

Media Upload

Introduction

Guides >

POST Media Upload

GET Media Upload Status

<u>GET /2/users/:id/mentions</u>	300 requests /	10 requests /	1 requests /
	15 mins	15 mins	15 mins
	PER USER	PER USER	PER USER

<u>GET /2/users/:id/timelines/reverse_chronological</u>	180 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
	PER USER	PER USER	PER USER

Usage

Introduction

GET Post Usage

<u>GET /2/users/:id/tweets</u>	900 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
	PER USER	PER USER	PER USER

Compliance

Batch Compliance >

Compliance streams >

<u>GET /2/users/reposts_of_me</u>	75 requests /	75 requests /	1 requests /
	15 mins	15 mins	15 mins
	PER USER	PER USER	PER USER

Enterprise (Gnip 2.0)

Fundamentals >

Enterprise

PowerTrack API

Decahose API

Account Activity API: Enterprise

Search API

Engagement API

Compliance Firehose API

Usage API

<u>POST /2/tweets</u>	100 requests /	100 requests /	17 requests /
	15 mins	24 hours	24 hours
	PER USER	PER USER	PER USER

<u>POST /2/tweets/search/stream/rules</u>	10000 requests / 24 hours	1667 requests / 24 hours	17 requests / 24 hours
		PER APP	PER APP

<u>POST /2/users/:id/retweets</u>	50 requests / 15 mins	5 requests / 15 mins	1 requests / 15 mins
		PER USER	PER USER

<u>PUT /2/tweets/:tweet_id/hidden</u>	50 requests / 15 mins	5 requests / 15 mins	1 requests / 15 mins
		PER USER	PER USER

DELETE	50 requests / 15 mins	5 requests / 15 mins	1 requests / 15 mins
<u>/2/users/:source_user_id/following/:target_user_id</u>		PER USER	PER USER

DELETE	50 requests / 15 mins	5 requests / 15 mins	1 requests / 15 mins
<u>/2/users/:source_user_id/muting/:target_user_id</u>		PER USER	PER USER

<u>GET /2/users</u>	900 requests / 15 mins PER USER	100 requests / 24 hours PER USER	1 requests / 24 hours PER USER
	300 requests / 15 mins PER APP	500 requests / 24 hours PER APP	1 requests / 24 hours PER APP
<u>GET /2/users/:id</u>	900 requests / 15 mins PER USER	100 requests / 24 hours PER USER	1 requests / 24 hours PER USER
	300 requests / 15 mins PER APP	500 requests / 24 hours PER APP	1 requests / 24 hours PER APP
<u>GET /2/users/:id/blocking</u>	15 requests / 15 mins PER USER	5 requests / 15 mins PER USER	1 requests / 15 mins PER USER
<u>GET /2/users/:id/muting</u>	15 requests / 15 mins PER USER	100 requests / 24 hours PER USER	1 requests / 24 hours PER USER
<u>GET /2/users/by</u>	900 requests / 15 mins PER USER	100 requests / 24 hours PER USER	1 requests / 24 hours PER USER
	300 requests / 15 mins PER APP	500 requests / 24 hours PER APP	1 requests / 24 hours PER APP
<u>GET /2/users/by/username/:username</u>	900 requests / 15 mins PER USER	100 requests / 24 hours PER USER	3 requests / 15 mins PER USER
	300 requests / 15 mins PER APP	500 requests / 24 hours PER APP	3 requests / 15 mins PER APP
<u>GET /2/users/me</u>	75 requests / 15 mins PER USER	250 requests / 24 hours PER USER	25 requests / 24 hours PER USER
<u>GET /2/users/search</u>	900 requests / 15 mins PER USER		
	300 requests / 15 mins PER APP		
<u>POST /2/users/:id/following</u>	50 requests / 15 mins PER USER	5 requests / 15 mins PER USER	1 requests / 15 mins PER USER
<u>POST /2/users/:id/muting</u>	50 requests / 15 mins PER USER	5 requests / 15 mins PER USER	1 requests / 15 mins PER USER
Spaces			
<u>GET /2/spaces</u>	300 requests / 15 mins PER USER	5 requests / 15 mins PER USER	1 requests / 15 mins PER USER
	300 requests / 15 mins PER APP	25 requests / 15 mins PER APP	1 requests / 15 mins PER APP
<u>GET /2/spaces/:id</u>	300 requests / 15 mins PER USER	5 requests / 15 mins PER USER	1 requests / 15 mins PER USER

300 requests /	25 requests /	1 requests /
15 mins	15 mins	15 mins
PER APP	PER APP	PER APP

GET /2/spaces/:id/buyers	300 requests /	5 requests / 15	1 requests /
---------------------------------	----------------	-----------------	--------------

15 mins	mins	15 mins
---------	------	---------

PER USER	PER USER	PER USER
-----------------	-----------------	-----------------

300 requests /	25 requests /	1 requests /
----------------	---------------	--------------

15 mins	15 mins	15 mins
---------	---------	---------

PER APP	PER APP	PER APP
----------------	----------------	----------------

GET /2/spaces/:id/tweets	300 requests /	5 requests / 15	1 requests /
---------------------------------	----------------	-----------------	--------------

15 mins	mins	15 mins
---------	------	---------

PER USER	PER USER	PER USER
-----------------	-----------------	-----------------

300 requests /	25 requests /	1 requests /
----------------	---------------	--------------

15 mins	15 mins	15 mins
---------	---------	---------

PER APP	PER APP	PER APP
----------------	----------------	----------------

GET /2/spaces/by/creator_ids	300 requests /	5 requests / 15	1 requests /
-------------------------------------	----------------	-----------------	--------------

15 mins	mins	second
---------	------	--------

PER USER	PER USER	PER USER
-----------------	-----------------	-----------------

1 requests /	25 requests /	1 requests /
--------------	---------------	--------------

second	second	15 mins
--------	--------	---------

PER APP	PER APP	PER APP
----------------	----------------	----------------

GET /2/spaces/search	300 requests /	5 requests / 15	1 requests /
-----------------------------	----------------	-----------------	--------------

15 mins	mins	15 mins
---------	------	---------

PER USER	PER USER	PER USER
-----------------	-----------------	-----------------

300 requests /	25 requests /	1 requests /
----------------	---------------	--------------

15 mins	15 mins	15 mins
---------	---------	---------

PER APP	PER APP	PER APP
----------------	----------------	----------------

Direct Messages

DELETE /2/dm_events/:id	1500 requests	200 requests /
--------------------------------	---------------	----------------

/ 24 hours	15 mins
------------	---------

PER USER	PER USER
-----------------	-----------------

4000 requests	2500 requests
---------------	---------------

/ 24 hours	/ 24 hours
------------	------------

PER APP	PER APP
----------------	----------------

GET	15 requests /	1 requests / 24
------------	---------------	-----------------

/2/dm_conversations/:dm_conversation_id/dm_events	15 mins	hours
--	---------	-------

PER USER	PER USER
-----------------	-----------------

GET	15 requests /	1 requests / 24
------------	---------------	-----------------

/2/dm_conversations/with/:participant_id/dm_events	15 mins	hours
---	---------	-------

PER USER	PER USER
-----------------	-----------------

GET /2/dm_events	15 requests /	1 requests / 24
-------------------------	---------------	-----------------

15 mins	hours
---------	-------

PER USER	PER USER
-----------------	-----------------

GET /2/dm_events/:id	15 requests /	5 requests / 24
-----------------------------	---------------	-----------------

15 mins	hours
---------	-------

PER USER	PER USER
-----------------	-----------------

POST /2/dm_conversations	15 requests /	1 requests / 24
---------------------------------	---------------	-----------------

15 mins	hours
---------	-------

PER USER	PER USER
-----------------	-----------------

1440 requests	1 requests / 24
---------------	-----------------

/ 24 hours	hours
------------	-------

PER APP	PER APP
----------------	----------------

POST	15 requests /	1 requests / 24
-------------	---------------	-----------------

/2/dm_conversations/:dm_conversation_id/messages	15 mins	hours
---	---------	-------

PER USER	PER USER
-----------------	-----------------

1440 requests	1 requests / 24
---------------	-----------------

	/ 24 hours	hours	
PER APP	PER APP		
POST			
<u>/2/dm_conversations/with/:participant_id/messages</u>	1440 requests	1 requests / 24	
	/ 24 hours	hours	
PER USER	PER USER		
	1440 requests	1 requests / 24	
	/ 24 hours	hours	
PER APP	PER APP		

Lists

DELETE <u>/2/lists/:id</u>	300 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER USER	PER USER	PER USER	
DELETE <u>/2/lists/:id/members/:user_id</u>	300 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER USER	PER USER	PER USER	
DELETE <u>/2/users/:id/followed_lists/:list_id</u>	50 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER USER	PER USER	PER USER	
DELETE <u>/2/users/:id/pinned_lists/:list_id</u>	50 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER USER	PER USER	PER USER	
GET <u>/2/lists/:id</u>	75 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER USER	PER USER	PER USER	
	75 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER APP	PER APP	PER APP	
GET <u>/2/lists/:id/members</u>	900 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER USER	PER USER	PER USER	
	900 requests /	25 requests /	1 requests /
	15 mins	15 mins	15 mins
PER APP	PER APP	PER APP	
GET <u>/2/lists/:id/tweets</u>	900 requests /	5 requests / 15	
	15 mins	mins	
PER USER	PER USER		
	900 requests /	25 requests /	1 requests /
	15 mins	mins	
PER APP	PER APP		
GET <u>/2/users/:id/list_memberships</u>	75 requests /	5 requests / 15	1 requests /
	15 mins	mins	15 mins
PER USER	PER USER	PER USER	
	75 requests /	25 requests /	1 requests /
	15 mins	15 mins	15 mins
PER APP	PER APP	PER APP	
GET <u>/2/users/:id/owned_lists</u>	15 requests /	100 requests /	1 requests /
	15 mins	24 hours	24 hours
PER USER	PER USER	PER USER	
	15 requests /	500 requests /	1 requests /
	15 mins	24 hours	24 hours
PER APP	PER APP	PER APP	
GET <u>/2/users/:id/pinned_lists</u>	15 requests /	100 requests /	1 requests /
	15 mins	24 hours	24 hours
PER USER	PER USER	PER USER	
	15 requests /	500 requests /	1 requests /

15 mins 24 hours 24 hours

PER APP **PER APP** **PER APP**

POST /2/lists 300 requests / 100 requests / 1 requests /

15 mins 24 hours 24 hours

PER USER **PER USER** **PER USER**

POST /2/lists/:id/members 300 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

POST /2/users/:id/followed_lists 50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

POST /2/users/:id/pinned_lists 50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

PUT /2/lists/:id 300 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

Bookmarks

DELETE /2/users/:id/bookmarks/:tweet_id 50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

GET /2/users/:id/bookmarks 180 requests / 10 requests / 1 requests /

15 mins 15 mins 15 mins

PER USER **PER USER** **PER USER**

GET /2/users/:id/bookmarks/folders 50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER APP **PER APP** **PER APP**

GET /2/users/:id/bookmarks/folders/:folder_id 50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER APP **PER APP** **PER APP**

POST /2/users/:id/bookmarks 50 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER USER **PER USER** **PER USER**

Compliance

GET /2/compliance/jobs 150 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER APP **PER APP** **PER APP**

GET /2/compliance/jobs/:job_id 150 requests / 5 requests / 15 1 requests /

15 mins mins 15 mins

PER APP **PER APP** **PER APP**

POST /2/compliance/jobs 150 requests / 15 requests / 15 1 requests /

15 mins mins 15 mins

PER APP **PER APP** **PER APP**

Usage

GET /2/usage/tweets 50 requests / 50 requests / 1 requests /

15 mins 15 mins 15 mins

PER APP **PER APP** **PER APP**

Trends

GET /2/trends/by/woeid/:id 75 requests / 15 requests / 15

mins

	PER APP	PER APP
<u>GET /2/users/personalized_trends</u>	10 requests / 15 mins	1 requests / 15 mins 15 mins
	PER USER	PER USER
	200 requests / 15 mins	20 requests / 15 mins 24 hours
	PER APP	PER APP
Communities		
<u>GET /2/communities/:id</u>	300 requests / 15 mins	1 requests / 15 mins 15 mins
	PER USER	PER USER
	300 requests / 15 mins	25 requests / 15 mins 15 mins
	PER APP	PER APP
<u>GET /2/communities/search</u>	300 requests / 15 mins	1 requests / 15 mins 15 mins
	PER USER	PER USER
	300 requests / 15 mins	25 requests / 15 mins 15 mins
	PER APP	PER APP

Rate limits and authentication method

Rate limits are set at both the developer App and user access token levels:

- **OAuth 2.0 Bearer Token: App rate limit** This method allows you to make a certain number of requests on behalf of your developer App. When using this authentication method, limits are determined by the requests made with a Bearer Token.
 - Example: With a limit of 450 requests per 15-minute interval, you can make 450 requests on behalf of your App within that interval.
- **OAuth 1.0a User Context: User rate limit** This method allows requests to be made on behalf of a X user identified by the user Access Token. For example, if retrieving private metrics from Posts, authenticate with user Access Tokens for that user, generated using the **3-legged OAuth flow**.
 - Example: With a limit of 900 requests per 15 minutes per user, you can make up to 900 requests per user in that time frame.

...

HTTP headers and response codes

Use HTTP headers to understand where your

application stands within a given rate limit, based on the most recent request made.

- `x-rate-limit-limit` : rate limit ceiling for the endpoint
- `x-rate-limit-remaining` : remaining requests for the 15-minute window
- `x-rate-limit-reset` : remaining time before the rate limit resets (in UTC epoch seconds)

Error Responses

If an application exceeds the rate limit for an endpoint, the API will return a **HTTP 429 "Too Many Requests"** response with the following error message in the response body:

```
{ "errors": [ { "code": 88, "message": "Rate limit exceeded." } ] }
```

Recovering from a rate limit

When these rate limits are exceeded, a 429 'Too many requests' error is returned from the endpoint. As discussed below, when rate limit errors occur, a best practice is to examine HTTP headers that indicate when the limit resets and pause requests until then. When a "too many requests" or rate-limiting error occurs, the frequency of making requests needs to be slowed down. When a rate limit error is hit, the `x-rate-limit-reset`: HTTP header can be checked to learn when the rate-limiting will reset

. Another common pattern is based on exponential backoff, where the time between requests starts off small (for example, a few seconds), then doubled before each retry. This is continued until a request is successful, or some reasonable maximum time between requests is reached (for example, a few minutes).

Ideally, the client-side is self-aware of existing rate limits and can pause requests until the currently exceeded window expires. If you exceed a 15-minute limit, then waiting a minute or two before retrying makes sense.

Note that beyond these limits on the number of requests, the Standard Basic level of access provides up to 500,000 Posts per month from the recent search and filtered stream endpoints. If you have exceeded the monthly limit on the number of Posts, then it makes more sense for your app to raise a notification and know its enrollment day of the month and hold off

and knew its enforcement day of the month and held off requests until that day.

Tips to avoid being rate limited

The tips below are there to help you code defensively and reduce the possibility of being rate limited. Some application features that you may want to provide are simply impossible in light of rate-limiting, especially around the freshness of results. If real-time information is an aim of your application, look into the filtered and sampled stream endpoints.

Caching

Store API responses if expecting frequent usage. Instead of calling the API on every page load, cache the response locally.

Prioritize active users

If your site keeps track of many X users (for example, fetching their current status or statistics about their X usage), consider only requesting data for users who have recently signed into your site.

Adapt to the search results

If your application monitors a high volume of search terms, query less often for searches that have no results than for those that do. By using a back-off you can keep up to date on queries that are popular but not waste cycles requesting queries that very rarely change. Alternatively, consider using the filtered stream endpoint and filter with your search queries.

Denylist

If an application abuses the rate limits, it will be denied. Denied apps are unable to get a response from the X API. If you or your application has been denied and you think there has been a mistake, you can use our [Platform Support forms](#) to request assistance. Please include the following information:

1. Explain why you think your application was denied.
2. If you are no longer being rate limited, describe in detail how you fixed the problem.

< Consistency

Post cap >

