

# Flow REST API introduction

Tags: [Flow](https://pluralsight.knowledgeowl.com/help/search?phrase=:Flow) (https://pluralsight.knowledgeowl.com/help/search?phrase=:Flow)

## Overview

Who can use this?

Core

Plus



The Flow REST API is a REST and JSON web service for extracting raw data from Flow. Any of the metrics that you can obtain from a Flow report are accessible or easily calculated from the API. To learn more about the specific metrics that are available on Flow, visit the [Flow metrics \(\)](#) section of the Help Center.

There are many ways to use the API. Here are some examples:

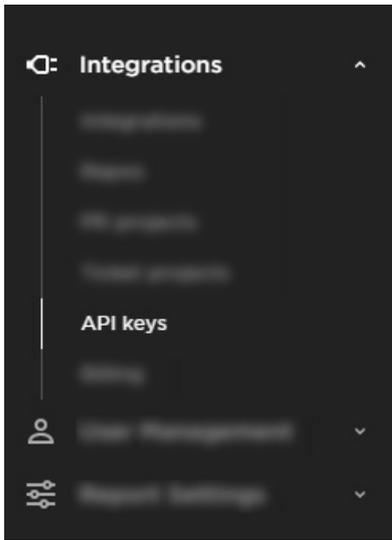
- Export Flow data to a reporting and analysis tool such as Microsoft Excel to perform custom reporting, data manipulation, and your own analysis.
- Integrate Flow data with another application to create custom dashboards. A SaaS service such as [Domo](https://www.domo.com/) (https://www.domo.com/) can help you create data-rich dashboards that enhance Flow metrics that interest your team.
- Extend Flow functionality to create features that are beneficial for your team's specific needs. An integration tool such as [Zapier](https://zapier.com/) (https://zapier.com/) can help you quickly integrate Flow data with just about any application your software team uses.
- [Bulk import](https://help.pluralsight.com/help/bulk-import-teams) (https://help.pluralsight.com/help/bulk-import-teams) your teams into Flow using a CSV.

## Using the interactive documentation

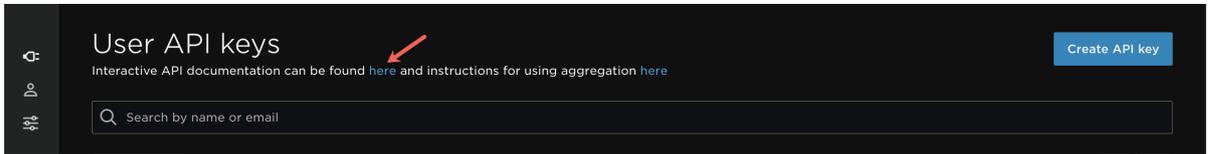
Flow provides [Interactive API documentation](https://flow.pluralsight.com/v3/customer/core/docs/) (https://flow.pluralsight.com/v3/customer/core/docs/) where you can access Flow API endpoints, learn about the Flow API objects and create requests from your repository.

Here are the basic steps for using the interactive documentation:

1. Starting on your Flow home page, go to the top navigation bar and click **Settings**. Using the left navigation under **Integrations**, click **API keys**.



2. You should now see the User API Keys panel. Click the link for the interactive documentation, shown in the image below:



3. The Flow Customer API and its list of objects are displayed, as shown in the following image:

## Customer API

API Objects	available_repos	Show/Hide	List Operations	Expand Operations
	available_ticket_projects	Show/Hide	List Operations	Expand Operations
	commits	Show/Hide	List Operations	Expand Operations
	grants	Show/Hide	List Operations	Expand Operations
	group_settings	Show/Hide	List Operations	Expand Operations
	integrations	Show/Hide	List Operations	Expand Operations
	org_invites	Show/Hide	List Operations	Expand Operations
	org_membership	Show/Hide	List Operations	Expand Operations
	pull_request_comments	Show/Hide	List Operations	Expand Operations
	pull_request_events	Show/Hide	List Operations	Expand Operations
	pull_request_projects	Show/Hide	List Operations	Expand Operations
	pull_requests	Show/Hide	List Operations	Expand Operations
	repos	Show/Hide	List Operations	Expand Operations
	roles	Show/Hide	List Operations	Expand Operations
	tags	Show/Hide	List Operations	Expand Operations
	targets	Show/Hide	List Operations	Expand Operations
	team_membership	Show/Hide	List Operations	Expand Operations
	teams	Show/Hide	List Operations	Expand Operations
	ticket_comments	Show/Hide	List Operations	Expand Operations
	ticket_events	Show/Hide	List Operations	Expand Operations
ticket_projects	Show/Hide	List Operations	Expand Operations	
tickets	Show/Hide	List Operations	Expand Operations	
user_alias	Show/Hide	List Operations	Expand Operations	
user_groups	Show/Hide	List Operations	Expand Operations	
users	Show/Hide	List Operations	Expand Operations	

4. You will see two GET request URLs. The first one allows us to obtain all author records. The second URL allows us to get results for a specific user id. We're going to pretend that we are not very familiar with our USERS and don't yet know a specific user Id. We'll use the first operation. Select the first GET operation to expand its panel.

**users** Show/Hide | List Operations | Expand Operations

**GET** `/v3/customer/core/users/` List User entities

**Implementation Notes**  
List User entities

--- ApexUsers ---

An apex user is a single point of reference for one or more UserAlias objects. ApexUser objects may have more than one UserAlias due to differences in email or variations in a name.

--- General ---

All objects can be traversed to related objects. This can be achieved by using the double-underscore syntax. For instance, query all User records with a specific Team name like so:

`"?team__name=Bobs%20Team"`.

You can easily traverse multiple levels of relationships by connecting related objects. For example:

`"?foo__bar__baz__name=Bob"`

All available relationships are defined in the filter documentation with the note "filter-traversable object." Additionally, you can limit the properties returned in an object by using the `fields` or `omit` keywords as follows:

`"?fields=foo,bar,bad"` will return only these fields

or

`"?omit=foo,bar,baz"` will return all but the specified fields

**Parameters**

Parameter	Value	Description	Parameter Type	Data Type
limit	<input type="text"/>	Number of results to return per page.	query	integer
offset	<input type="text"/>	The initial index from which to return the results.	query	integer
hidden_from_reports	<input type="text"/>	Included/Excluded in metrics	query	string

- In the real world, most engineering teams would have a significant number of users. In the consideration of system performance, you should try and restrict your request to the most specific data you need. As an exercise, we'll filter our requests to only show three user records. To do this, enter 3 in the limit field, which happens to be the first parameter in the list (for every object).
- Now that you've set up your request, click the **Try it out!** button located at the bottom of the panel to submit the request. The response panel is displayed, as shown in the following image:

**Request URL**

`https://flow.pluralsight.com/v3/customer/core/users/?limit=3`

**Response Body**

```
{
  "count": 3019,
  "next": "https://sandbox-qa.gitprime-ops.com/v3/customer/core/users/?limit=3&offset=3",
  "previous": null,
  "results": [
    {
      "id": 355,
      "name": "Roger Johnson",
      "email": "roger@mycompany.com",
      "hidden_from_reports": false,
      "org_id": 3,
      "created_at": "2019-12-05T19:09:26.616166",
      "teams": [],
      "has_login": true,
      "pending_invitation": false,
      "alias_count": 0,
      "last_activity_at": null,
      "first_activity_at": null,
      "avatar_url": "https://secure.gravatar.com/avatar/dd757fbb29ee04b1ab19425692c87e3d.jpg?s=96&r=g&d=retro",
      "avatar_exists": false,
    }
  ]
}
```

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If you need help, please email [support@pluralsight.com](mailto:support@pluralsight.com) () for 24/7 assistance.