

# Testing the GRiD API

Step-by-step Instructions Using Postman Collections

# Download and Install Postman

<https://www.postman.com/downloads/>

The image shows a screenshot of the Postman website's download page and a preview of the Postman application interface. The website page has a dark blue header with the Postman logo and navigation links: Product, Use Cases, Pricing, Enterprise, Explore, and Learning Center. A prominent orange button labeled 'Launch Postman' is in the top right. The main heading is 'Download Postman', followed by a subtext: 'Download the app to quickly get started using the Postman API Platform. Or, if you prefer a browser experience, you can try the new web version of Postman.' Below this, there are two main sections: 'The Postman app' and 'Postman on the web'. The 'The Postman app' section includes a 'Download the App' button and links for 'Version', 'Release Notes', and 'Product Roadmap'. It also mentions downloading for Windows, macOS, and Linux. The 'Postman on the web' section includes a 'Try the Web Version' button. To the right, a preview of the Postman application is shown, featuring a sidebar with 'History', 'Collections', and 'APIs' tabs. The main area displays a GET request to 'postman-echo.com/get' with parameters, authentication, headers, and body tabs. The response is shown in a 'Pretty' format, displaying a JSON object with headers and body content. Four colored arrows (purple, orange, green, and blue) point from the website content to the application interface, highlighting the transition from the website to the app.

**Download Postman**

Download the app to quickly get started using the Postman API Platform. Or, if you prefer a browser experience, you can try the new web version of Postman.

### The Postman app

The ever-improving Postman app (a new release every two weeks) gives you a full-featured Postman experience.

[Download the App](#)

By downloading and using Postman, I agree to the [Privacy Policy](#) and [Terms](#).

Version | [Release Notes](#) | [Product Roadmap](#)

Not your OS? Download for Windows (x32 / x64) or Mac (macOS)

### Postman on the web

You can now access Postman through your web browser. Simply create a free Postman account, and you're in.

[Try the Web Version](#)

**Postman Application Interface:**

- GET postman-echo.com/get
- Params: (empty)
- Authentication: (empty)
- Headers: (empty)
- Body: (empty)
- Test Results: (empty)
- Response: { "args": {}, "headers": { "x-forwarded-proto": "http", "x-forwarded-port": "80", "host": "postman-echo.com", "accept": "application/json", "user-agent": "PostmanRuntime/2.7.3", "accept-encoding": "gzip" }, "args": {} }

+ New

Import

Runner



My Workspace ▾

Invite



Upgrade ▾

Filter

History

Collections

APIs

+ New Collection

Trash



You don't have any collections

Collections let you group related requests, making them easier to access and run.

+ Create a collection

+

...

No Environment



Manage Environments

Click on "Manage Environments"



Open Launchpad

Build

Browse



+ New

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Filter

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APIs

+ New Collection

Trash



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+ Create a collection

## MANAGE ENVIRONMENTS



An environment is a set of variables that allow you to switch the context of your requests. Environments can be shared between multiple workspaces. [Learn more about environments](#)

You can declare a variable in an environment and give it a starting value, then use it in a request by putting the variable name within curly-braces. [Create an environment](#) to get started.

Globals

Import

Add

Click on "Add"



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Filter

History

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APIs

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Trash



You don't have any collections

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+ Create a collection

Enter the following,  
tailored to your GRiD  
instance and token:

- Environment name
- baseUrl
- access\_token

## MANAGE ENVIRONMENTS



## Add Environment

GRID Testing

	VARIABLE	INITIAL VALUE ⓘ	CURRENT VALUE ⓘ	...	Persist All	Reset All
<input checked="" type="checkbox"/>	baseUrl		https://grid.nga.mil/testgrid/api/v3			
<input checked="" type="checkbox"/>	access_token					
	Add a new variable					

ⓘ Use variables to reuse values in different places. The current value is used while sending a request and is never synced to Postman's servers. The initial value is auto-updated to reflect the current value. [Change this behaviour](#) from Settings. [Learn more about variable values](#)

Cancel

Add

Enter access token  
from GRiD UI

+ New

Import

Runner



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Filter

History

Collections

APIs

+ New Collection

Trash



You don't have any collections

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+ Create a collection

+ ...

No Environment ▾



## MANAGE ENVIRONMENTS



An environment is a set of variables that allow you to switch the context of your requests. Environments can be shared between multiple workspaces. [Learn more about environments](#)

GRiD Testing

Share



The “Add” step can be repeated for multiple environments, e.g., production, devgrid, or individual developer instances.

When done, close the modal, which now shows the newly created environment(s).

Globals

Import

Add

Build

Browse



+ New

Import

Filter

Import Collections, cURL, RAML, W

OpenAPI files

History

Collections

APIs

+ New Collection

Trash

My Workspace

Invite



Upgrade

No Environment

**You don't have any collections**

Collections let you group related requests, making them easier to access and run.

[+ Create a collection](#)[Open Launchpad](#)

Click on "Import"

+ New

Import

Runner



My Workspace

Invite



Upgrade

Filter

History

Collections

APIs

+ New Collection

Trash



You don't have any collections

Collections let you group related requests, making them easier to access and run.

+ Create a collection

Import



File

Folder

Link

Raw text

Code repository

New

Drag and drop Postman data or any of the formats below

OpenAPI

RAML

GraphQL

cURL

WADL

OR

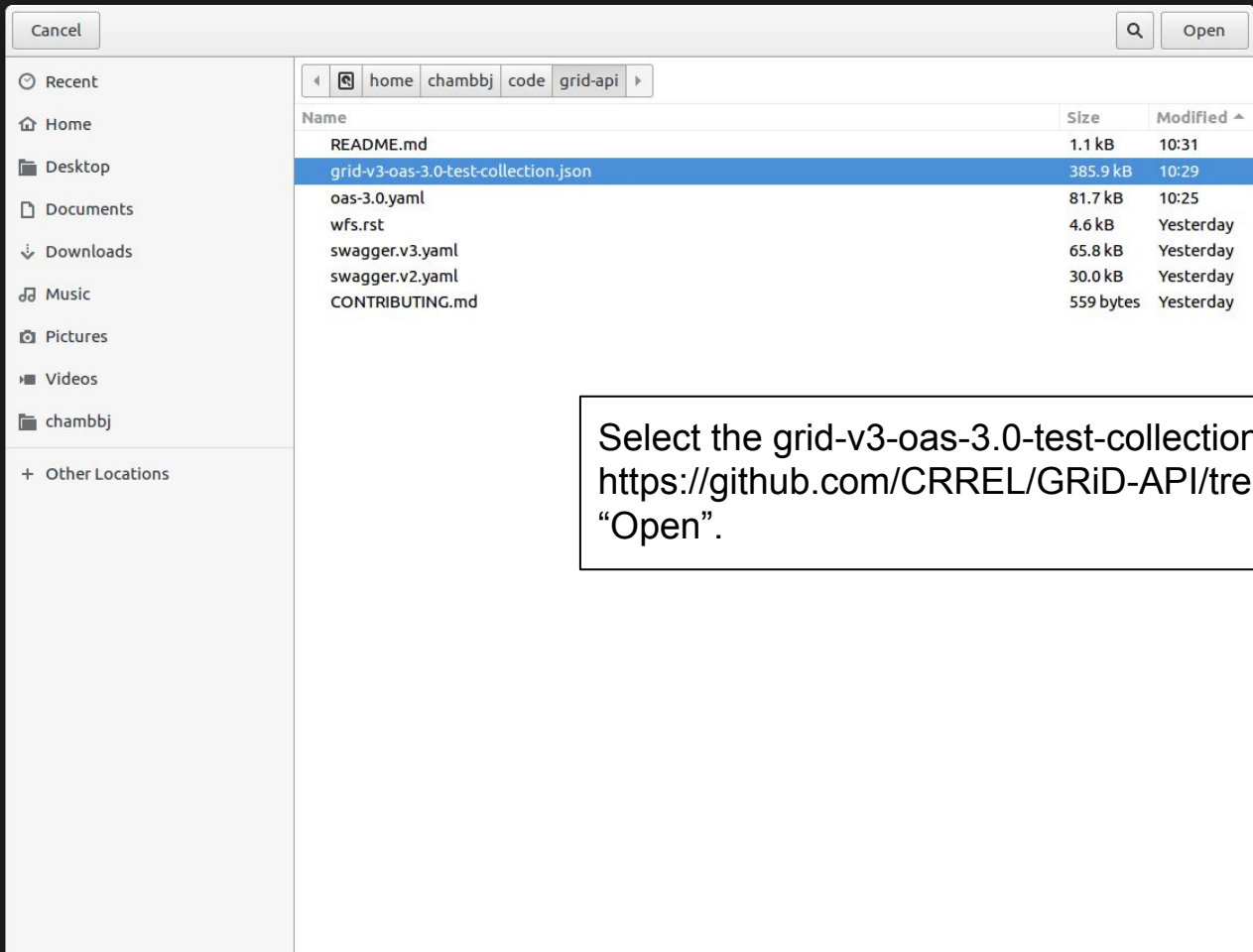


Upload Files

Click on "Upload Files"







Select the `grid-v3-oas-3.0-test-collection.json` file (available from <https://github.com/CRREL/GRiD-API/tree/oas-3.0>), and click “Open”.

+ New

Import

Runner



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Filter

History

Collections

APIs

+ New Collection

Trash



You don't have any collections

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+ Create a collection

Import



## Confirm your import

Double check the format is correct and select which files you want to import.

NAME	FORMAT	IMPORT AS
GRID API v3 (OpenAPI 3.0) Testing	Postman Collection v2.1	Collection

Click on "Import"



Cancel

Import

Build

Browse



+ New

Import

Runner



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Upgrade ▾

Filter

History

Collections

APIs

+ New Collection

Trash



GRID API v3 (OpenAPI 3.0) Testing ☆  
24 requests

Click arrow to  
open Collection  
details.



Open Launchpad

Build

Browse





New

Import

Runner



My Workspace



Invite



Upgrade



Filter

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Collections

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GRID API v3 (OpenAPI 3.0) Testing

24 requests

## GRID API v3 (OpenAPI 3.0) Testing



API

This collection is not linked to any API

Share

Run

Documentation

Monitors

Mocks

Changelog



Learn how to document your requests

This is the API v3 specification for the Geospatial Repository and Data Management System (aka GRID). Here you can see API examples and interact with all of the API endpoints visually in your browser. If you would like to see the API in action, use the "Try it out!" button for an endpoint. Note: yo ...

View more

AOI Lifecycle

Export Lifecycle

products

tasks

Hook Lifecycle

Geonames

Data Holdings

Click on "Run"



Open Launchpad



Choose a collection or folder

Search for a collection or folder

GRID API v3 (OpenAPI 3.0) Testing

- AOI Lifecycle
- Export Lifecycle
- products
- tasks
- Hook Lifecycle

Environment: GRiD Testing ▾

Iterations: 1

Delay: 0 ms

Data: Select File

☐ Save responses ⓘ☒ Keep variable values ⓘ☐ Run collection without using stored cookies☒ Save cookies after collection run ⓘ

Run GRiD API v3 (...)

RUN ORDER

Deselect All | Select All | Reset

☒ GET Get all AOIs

☒ POST Create an AOI

☒ GET Get AOI by PK

☒ GET Get AOI by PK with Point Cloud Intersections

☒ PATCH Edit AOI by PK

☒ DEL Delete AOI by PK

☒ POST Generate export

☒ GET Get task by task\_id

First, select the  
desired  
environment.

☒ GET Get export by PK

☒ PATCH Edit export by PK

☒ POST Generate Entwine Index

☒ DEL Delete export by PK

☒ GET Get PDAL filters available for use in exports.

☒ GET Get products by geom

☒ GET Get product by PK

☒ GET Get failed tasks

☒ GET Get all hooks

☒ POST Create hook

☒ PATCH Edit hook by PK

☒ POST Test a hook by PK

☒ DEL Delete hook

☒ GET Lookup geoname by geom

☒ GET Get data holdings

Then, click on  
"Run GRiD..."

40 PASSED 1 FAILED GRID API v3 (OpenAPI 3.0) Testing GRID Testing

Run Summary

Export Results

Retry

New

Iteration 1

GET	Get all AOIs {{baseUrl}}/aois?geom=P... / AOI Lifecycle / Get all AOIs	200 OK	5434 ms	10.67 KB
	Status code is 200			
	Response is filters object with array of AOIs			
POST	Create an AOI {{baseUrl}}/aois / AOI Lifecycle	200 OK	2922 ms	289.011 KB
	Status code is 200			
	Response is filters object with array of AOIs			
	Number of aois is 1			
GET	Get AOI by PK {{baseUrl}}/aois/{{aoi_pk... / AOI Lifecycle / Get AOI by PK	200 OK	346 ms	1.553 KB
	Status code is 200			
	Response is filters object with array of AOIs			
	Number of aois is 1			
GET	Get AOI by PK with Point Cloud Intersections {{baseUrl}}/aois/{{aoi_pk... / AOI Lifecycle / Get AOI by PK wit...	200 OK	1158 ms	4.243 KB
	Status code is 200			
	Response is filters object with array of AOIs and pointcloud intersects			
	Number of aois is 1			
	Number of poincloud intersects is 3			
PATCH	Edit AOI by PK {{baseUrl}}/aois/{{aoi_pk}} / AOI Lifecycle / Edit AOI by PK	200 OK	269451 ms	1213.091 KB
	Status code is 200			
	Response is filters object with array of AOIs			
	Number of aois is 1			

Number of passing/failing tests are shown, with additional detail below.