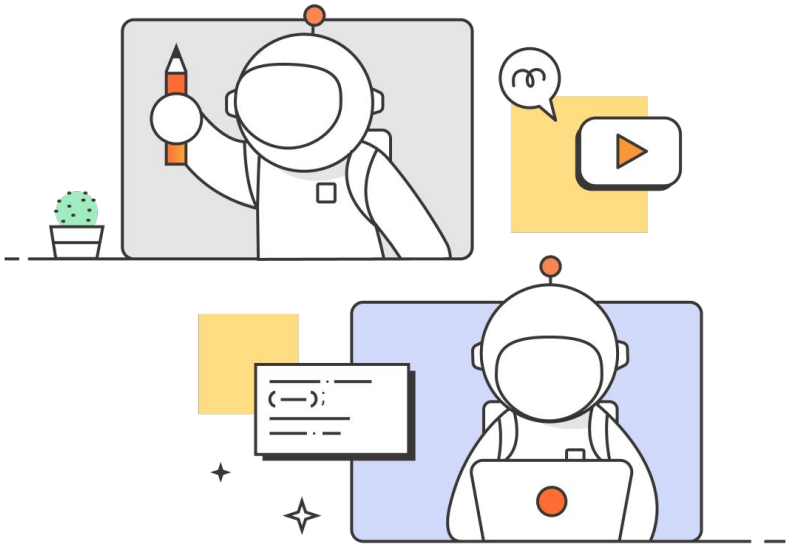
POSTMAN

# How to Run Tests in Postman



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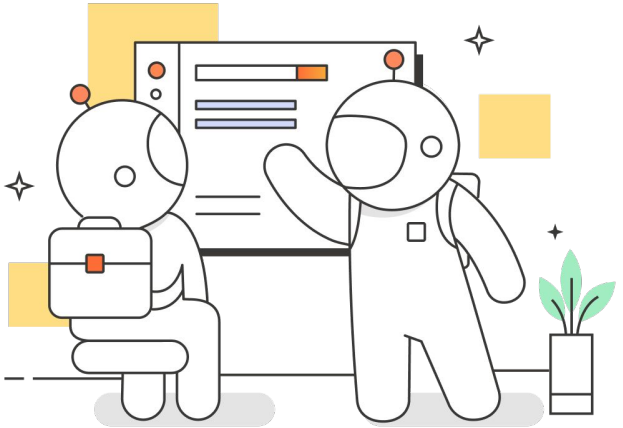
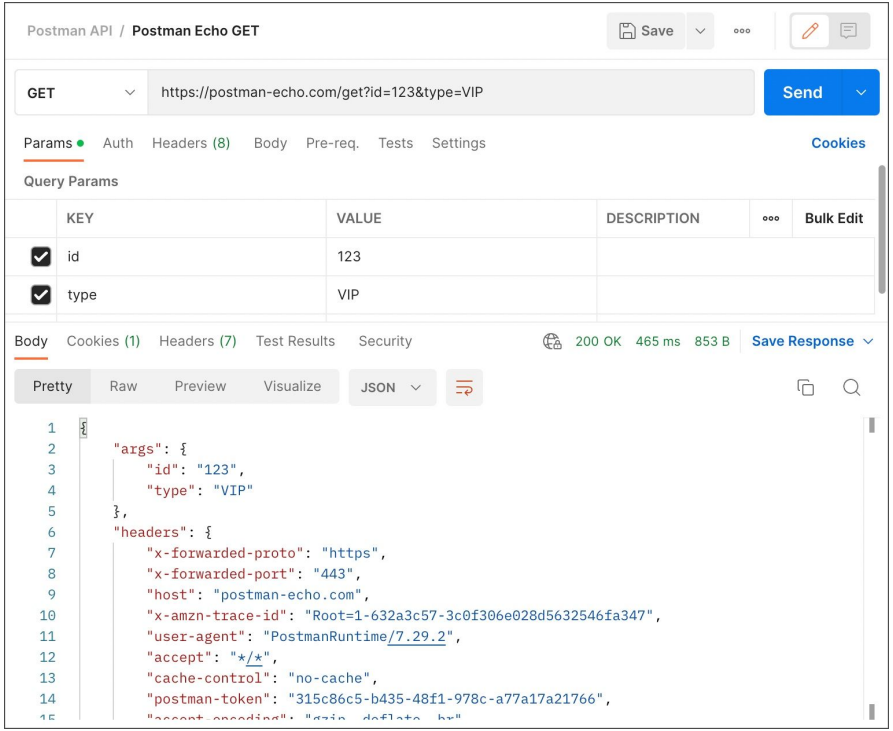
# Topics Covering

1. Basics of Testing APIs
2. Automated Testing
3. Overview of Advanced Testing Options



# Testing APIs: Sending Requests

A core component of Postman that allows you to test an API to see how it works and what it will return



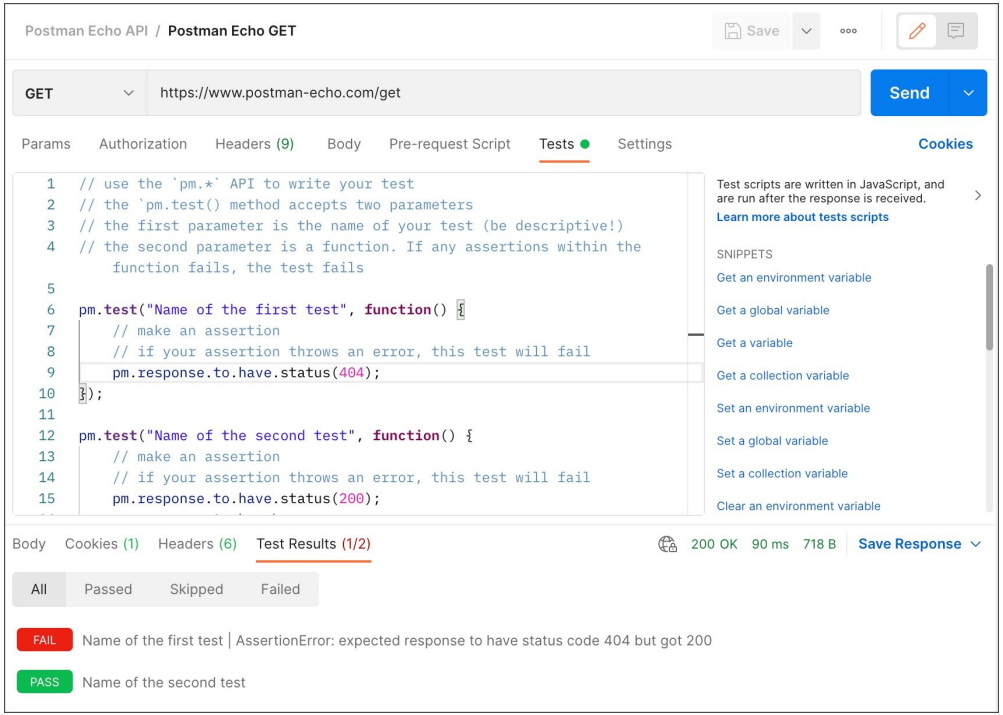
# Testing APIs: Pre-Requests and Test Scripts

## Pre-request scripts

- Javascript code that executes before the request is sent
- Use Cases

## Tests

- Javascript code that executes *after* you receive the response
- Help to confirm your API is working as expected
- Add .log() to help with debugging

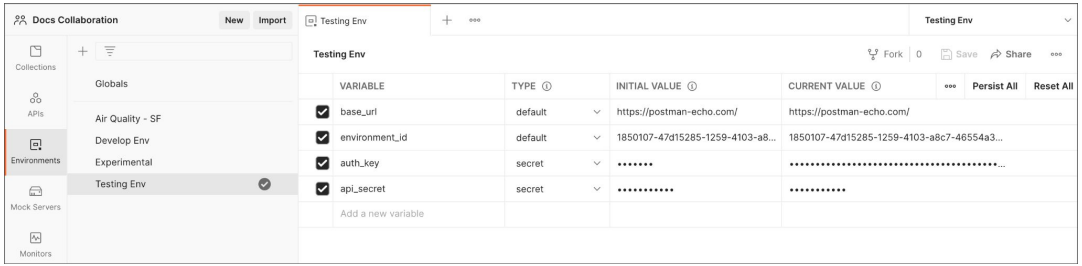


# Testing APIs: Variables and Environments

**Variables** allow for storage and reuse of values in Postman.

- Scopes: Global, Collection, Environment, Data, Local
- Types: Default, Secret

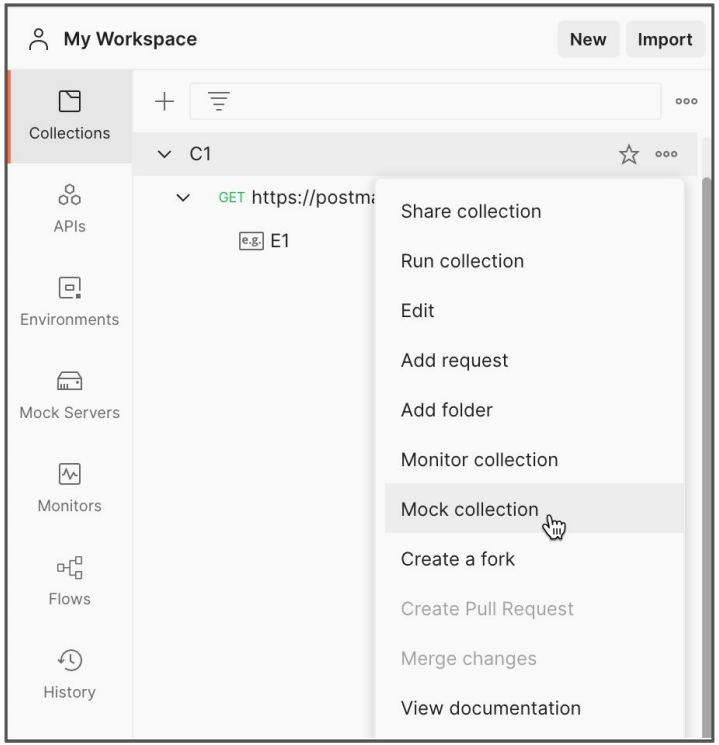

**Environments**: group sets of variables together, manage access for collaboration



# Demo

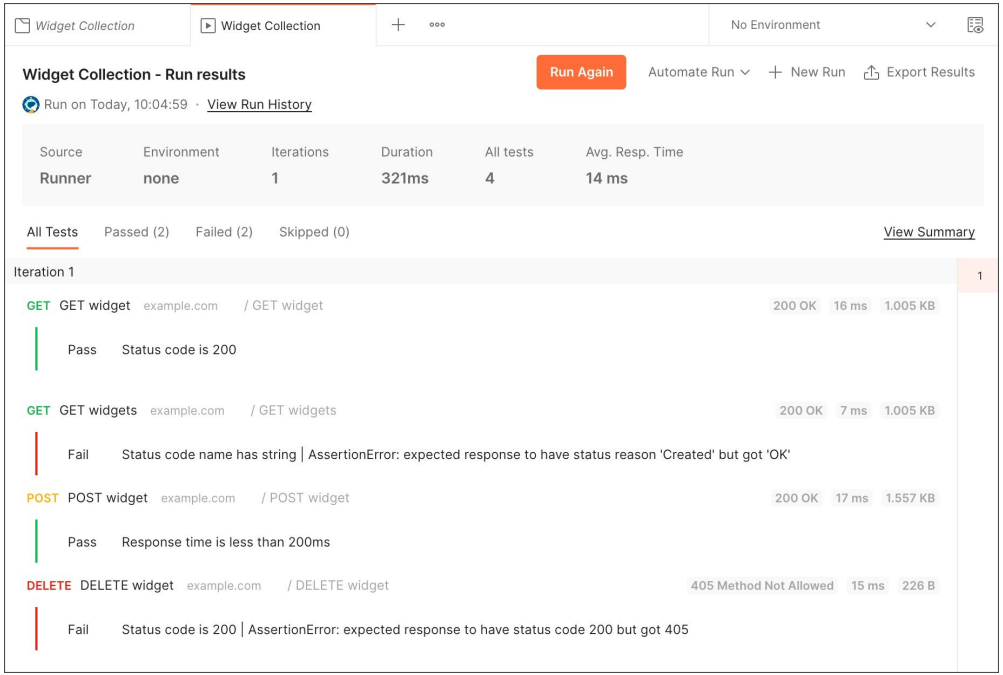
# Testing APIs: Mock servers

- Reduce time debugging during API lifecycle
- Allows you to see what an API would deliver in prod by mocking the request and example responses
- Allows for collaboration between backend and front end teams before API is in prod
- Test without using sensitive data using dummy data



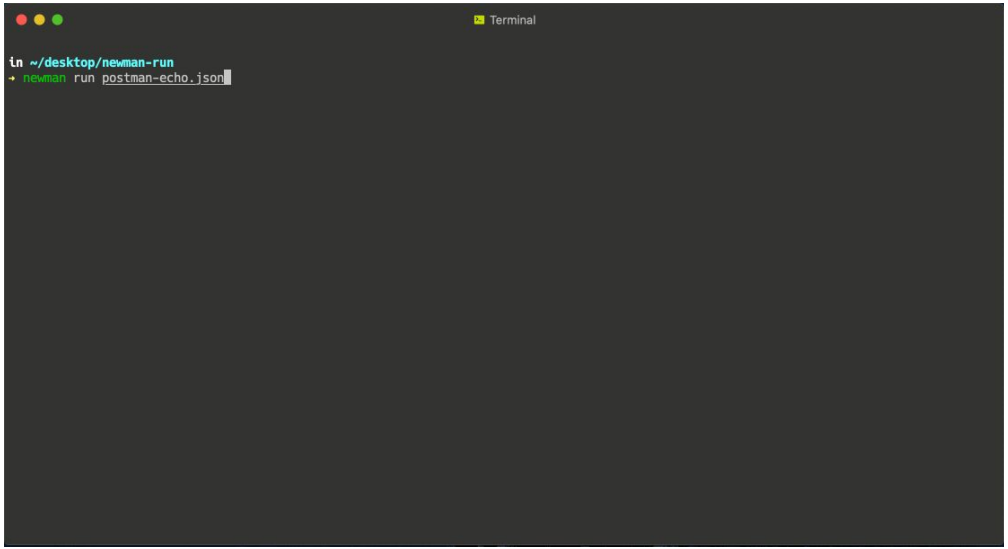
# Automating Test: Collection Runner

- Collection Runner allows you to run API requests in a collection in sequence
- This enables you to:
  - Automate your testing
  - Schedule runs with monitors
  - Perform smoke tests



# Automating Test: CI Integrations w/ Newman and Postman CLI

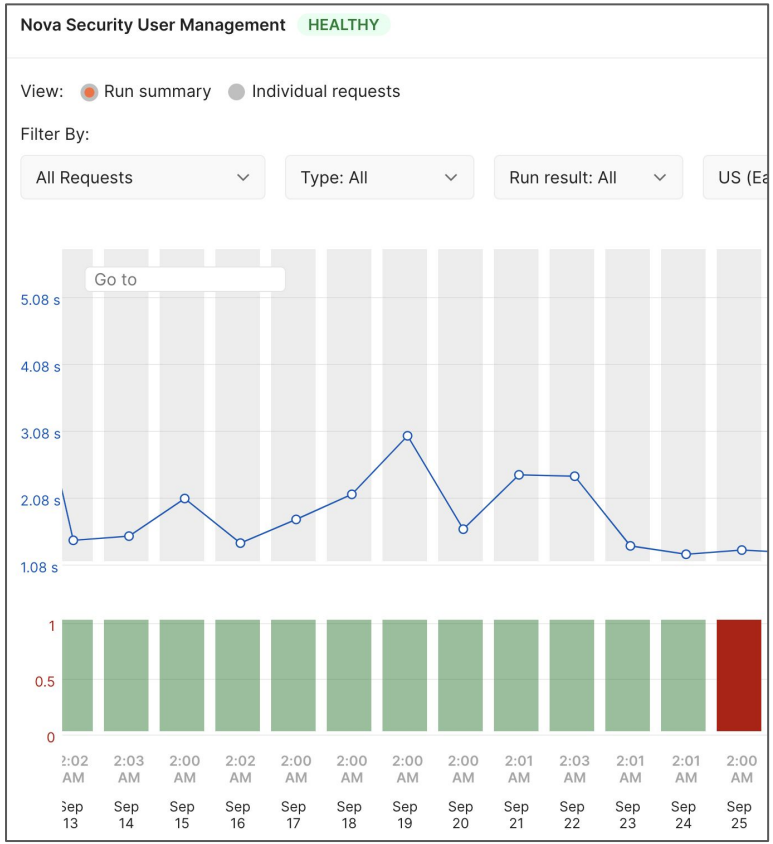
- **Newman**: programmatically run collections and integrate with your CI
- **Postman CLI**
  - secure CLI
  - run collections
  - check API specifications against your Governance and Security rules



# Automating Tests: Monitors

**Monitors**: automatically run your tests for endpoints and APIs at regular intervals to validate:

- HTTP Response Codes
- Latency



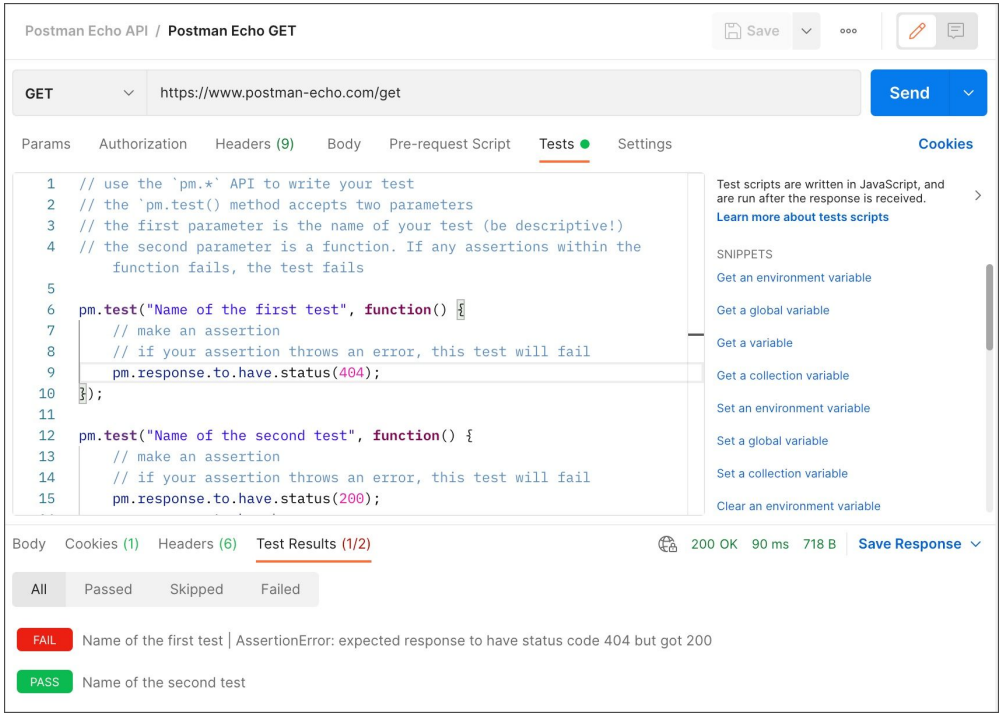
# Testing APIs: Additional Resources

## Consumer Driven Contract Testing

- https://www.youtube.com/watch?v=Ynfr-y_1WRs&t=1035s
- https://www.postman.com/events/intergalactic/api-contract-testing/

## More Testing Content

- Shift Left in Postman
- Test examples in Postman - A public workspace containing many more examples of crafting tests within Postman.
- Continuous testing with Postman - A previously aired webinar covering other advanced testing workflows.



## Thank for participating in our Webinar!

If you have any follow-up questions, please book some time with the Product Advocacy team on our Calendly or email us at productadvocacy@postman.com.