

# POSTMAN

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**Postman is a standalone software testing API (Application Programming Interface) platform to build, test, design, modify, and document APIs. It is a simple Graphic User Interface for sending and viewing HTTP requests and responses.**

## Terminologies Related to Postman

- **API**

Application Programming Interface (API) is software that acts as an intermediary for two apps to communicate with each other. We use APIs whenever we use an application like Twitter, Facebook, sending text messages, or checking the weather over the phone.

- **HTTP**

HTTP (Hypertext Transfer Protocol) is the collection of rules for the transmission of data on the World Wide Web, like graphic images, text, video, sound, and other multimedia data. The Web users implicitly make use of HTTP as soon as they open their Web browser.

## Why use Postman?

Postman is based on a wide range of extremely user-friendly power tools. For more than 8 million users, Postman has become a tool of convenience. Following are the reasons why Postman is used:

- **Accessibility-** One can use it anywhere after installing Postman into the device by simply logging in to the account.
- **Use Collections-** Postman allows users to build collections for their API-calls. Every set can create multiple requests and subfolders. It will help to organize the test suites.
- **Test development-** To test checkpoints, verification of successful HTTP response status shall be added to every API- calls.
- **Automation Testing-** Tests can be performed in several repetitions or iterations by using the Collection Runner or Newman, which saves time for repeated tests.
- **Creating Environments-** The design of multiple environments results in less replication of tests as one can use the same collection but for a different setting.
- **Debugging-** To effectively debug the tests, the postman console helps to track what data is being retrieved.
- **Collaboration-** You can import or export collections and environments to enhance the sharing of files. You may also use a direct connection to share the collections.
- **Continuous integration-** It can support continuous integration.

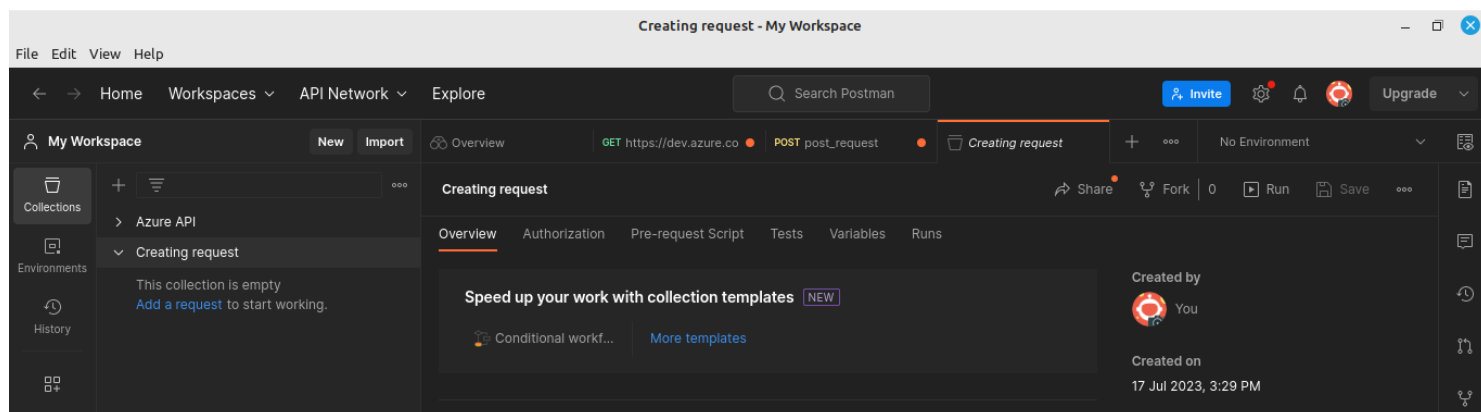
## Postman Installation

Postman can be easily download from the software sources in linux

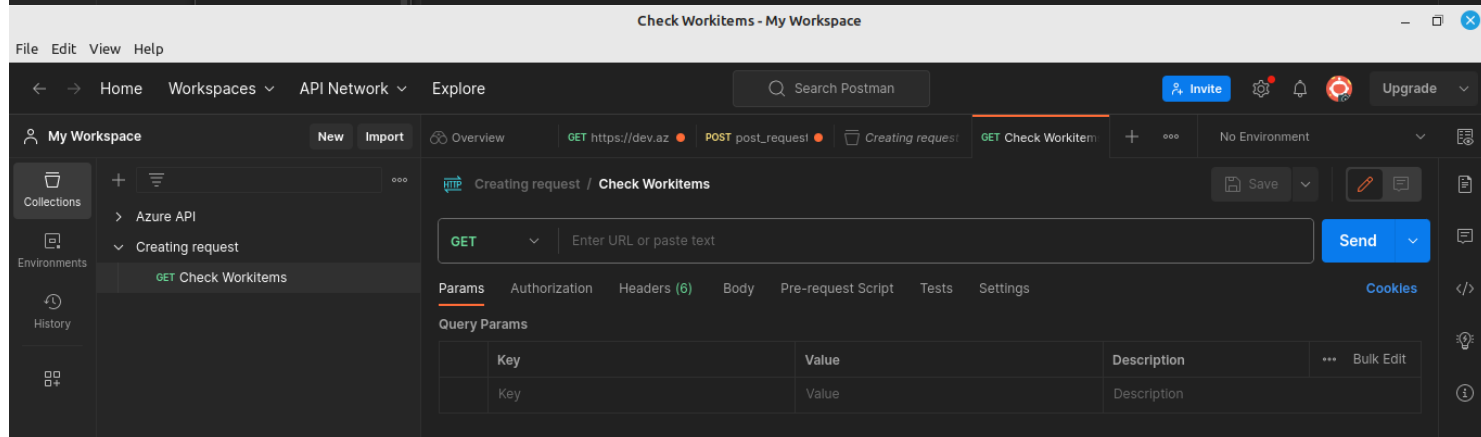
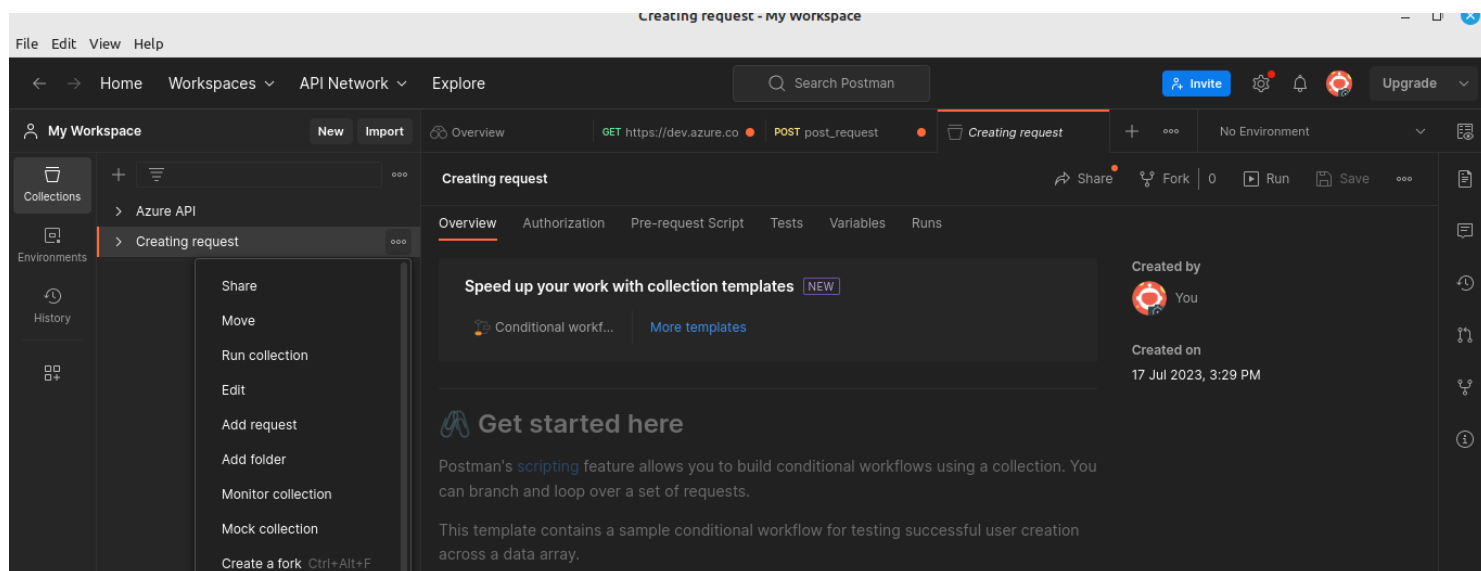
API URL REF: <https://learn.microsoft.com/en-us/rest/api/azure/devops/wit/work-items/get-work-items-batch?view=azure-devops-rest-7.0&tabs=HTTP>

## Creating Requests

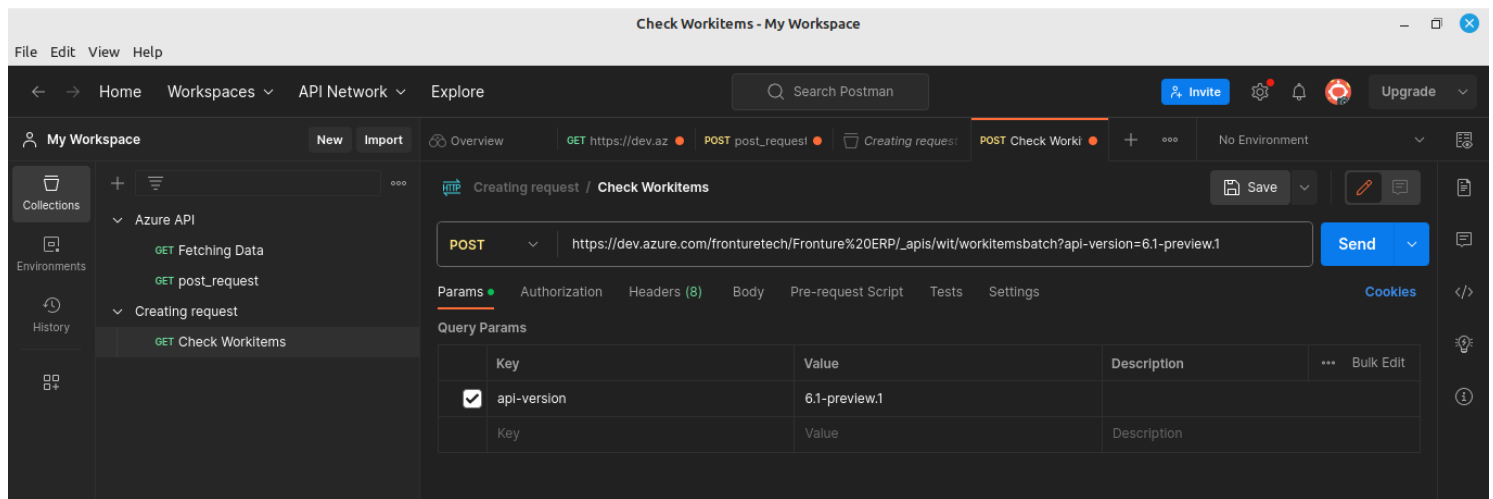
After launching postman, we can create new collection:



Then we have to add request

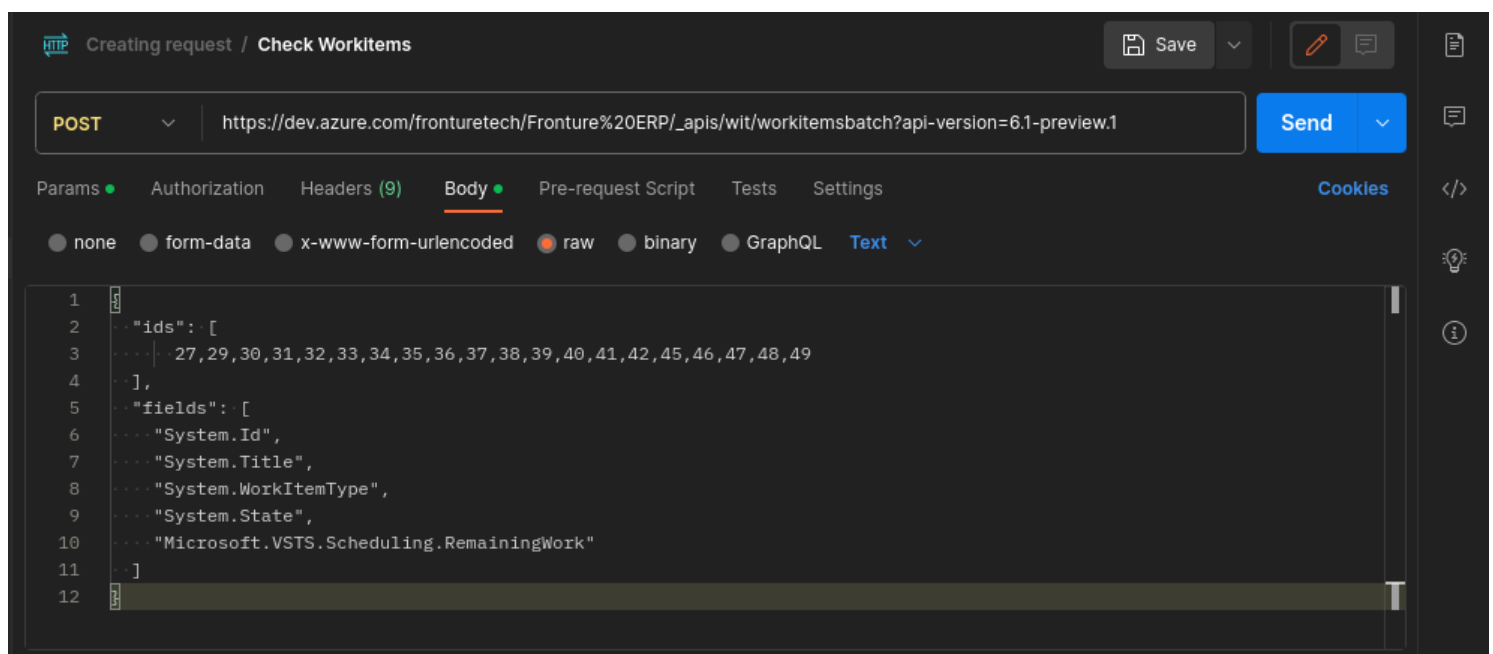


Then chose HTTP method(get,post,put,delete) and input the api url



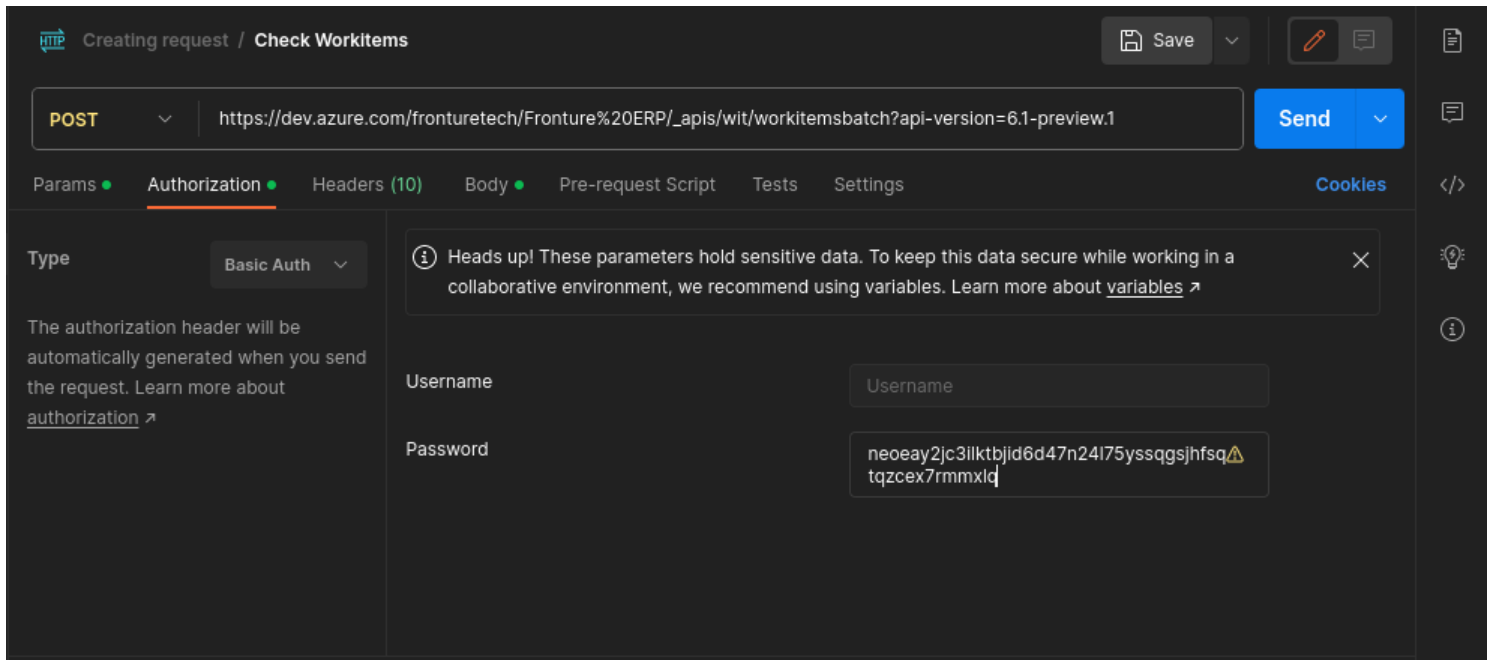
Here, we are using a post request to get work item object using ids.

As we are creating a post request, we need to add query in the body section.



Here we made a json query to fetch work items. We need select raw in order to put our query.

For Authorization we need create a PAT(personal access token) from our azure account.



Here we are using Basic Auth and keeping the username part blank and using the pat as password.

Then we click on the Send button and we will get our desired response in json format.

