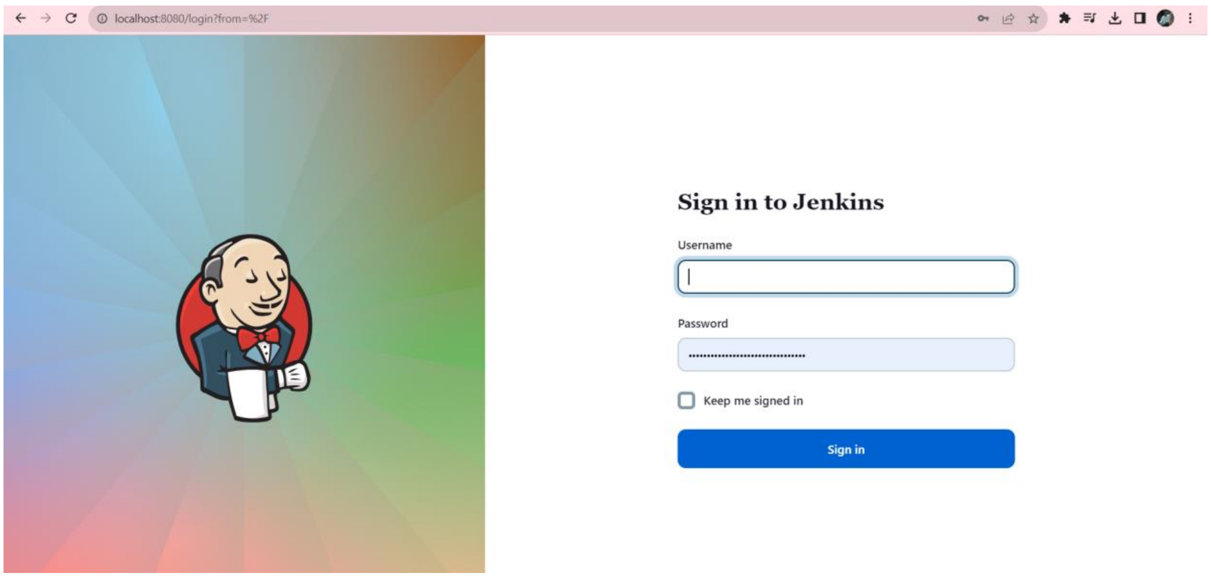
Aim: To perform the Postman is used with Jenkins.


localhost:8080/login?from=%2F

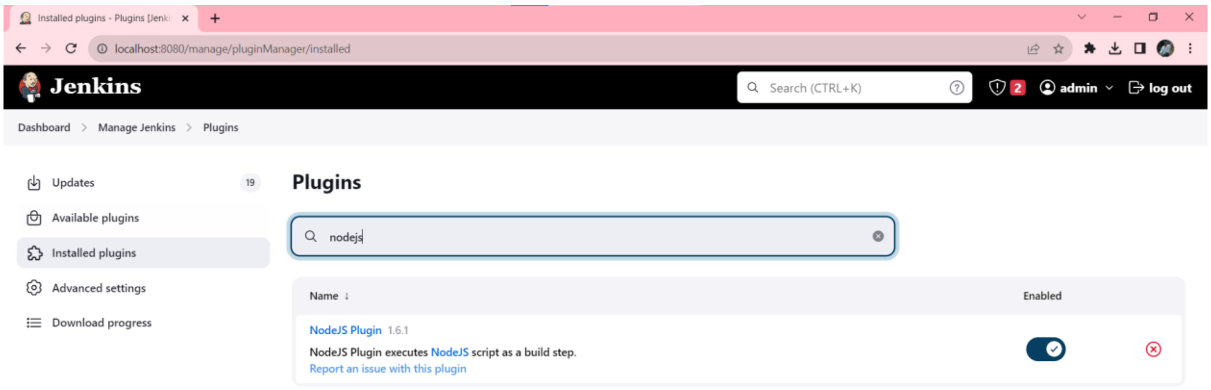
Sign in to Jenkins

Username

Password

Keep me signed in

Sign in

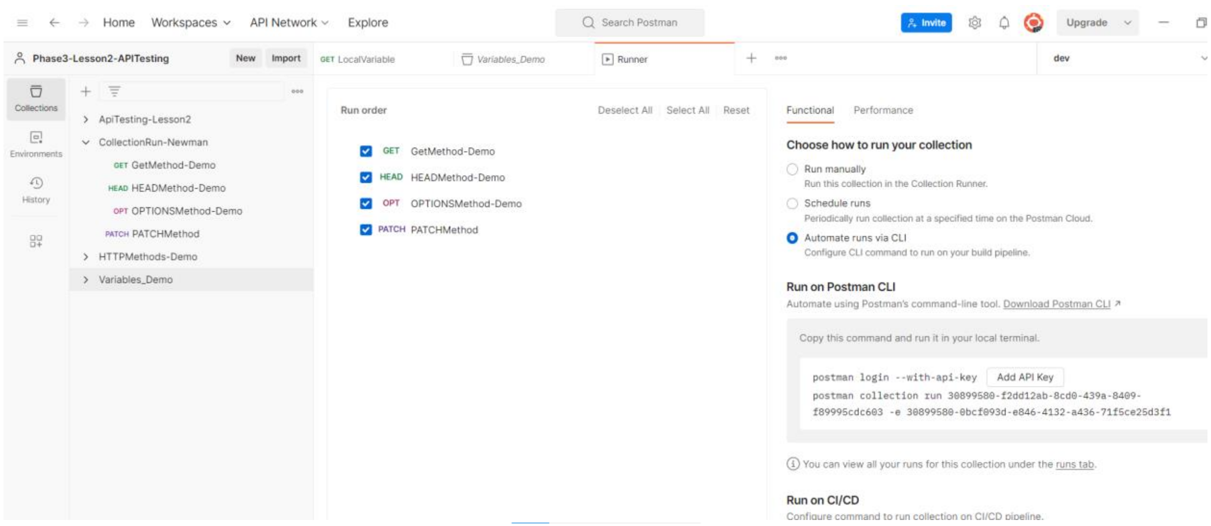

localhost:8080/manage/pluginManager/installed

Dashboard > Manage Jenkins > Plugins

Plugins

Search: nodejs

Name ↓	Enabled
NodeJS Plugin 1.6.1 NodeJS Plugin executes NodeJS script as a build step. Report an issue with this plugin	✓


Phase3-Lesson2-APITesting

Run order

- [✓] GET GetMethod-Demo
- [✓] HEAD HEADMethod-Demo
- [✓] OPT OPTIONSMethod-Demo
- [✓] PATCH PATCHMethod

Functional | Performance

Choose how to run your collection

- Run manually
  Run this collection in the Collection Runner.
- Schedule runs
  Periodically run collection at a specified time on the Postman Cloud.
- [✓ Automate runs via CLI]
  Configure CLI command to run on your build pipeline.

Run on Postman CLI

Automate using Postman's command-line tool. Download Postman CLI ↗

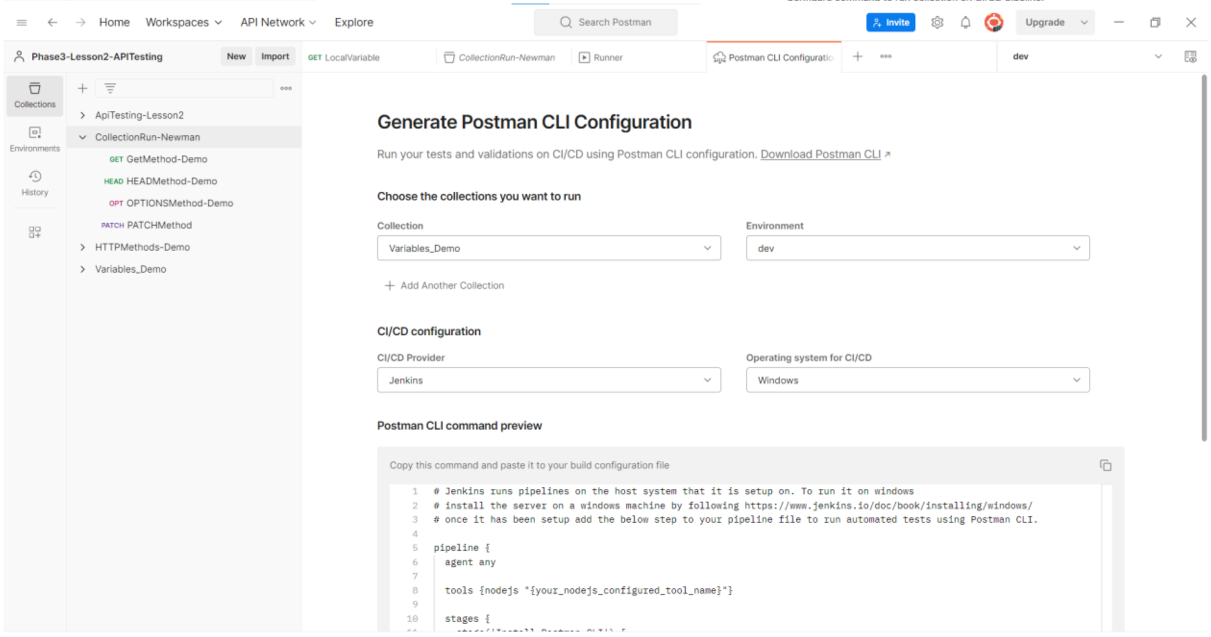
Copy this command and run it in your local terminal.

```
postman login --with-api-key   Add API Key
postman collection run 30899580-f2dd12ab-8cd0-439a-8409-
f89995cdc603 -e 30899580-0bcf093d-e846-4132-a436-71f5ce25d3f1
```

ⓘ You can view all your runs for this collection under the runs tab.

Run on CI/CD

Configure command to run collection on CI/CD pipeline.


Generate Postman CLI Configuration

Run your tests and validations on CI/CD using Postman CLI configuration. Download Postman CLI ↗

Choose the collections you want to run

Collection: Variables_Demo
Environment: dev

+ Add Another Collection

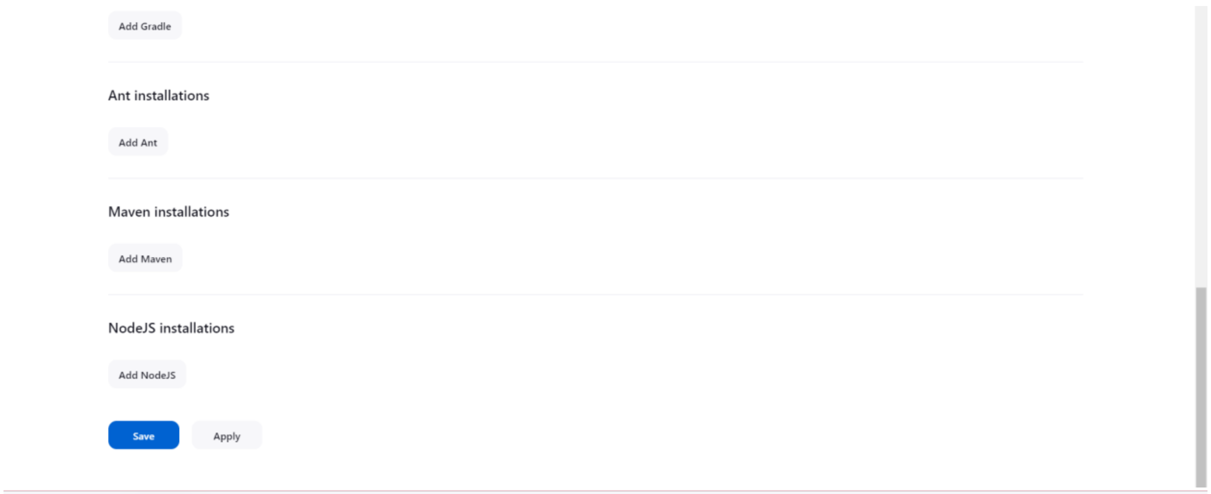
CI/CD configuration

CI/CD Provider: Jenkins
Operating system for CI/CD: Windows

Postman CLI command preview

Copy this command and paste it to your build configuration file

```
# Jenkins runs pipelines on the host system that it is setup on. To run it on windows
# install the server on a windows machine by following https://www.jenkins.io/doc/book/installing/windows/
# once it has been setup add the below step to your pipeline file to run automated tests using Postman CLI.

pipeline {
  agent any

  tools {nodejs "{your_nodejs_configured_tool_name}"}

  stages {
```



Add Gradle

Ant installations

Add Ant

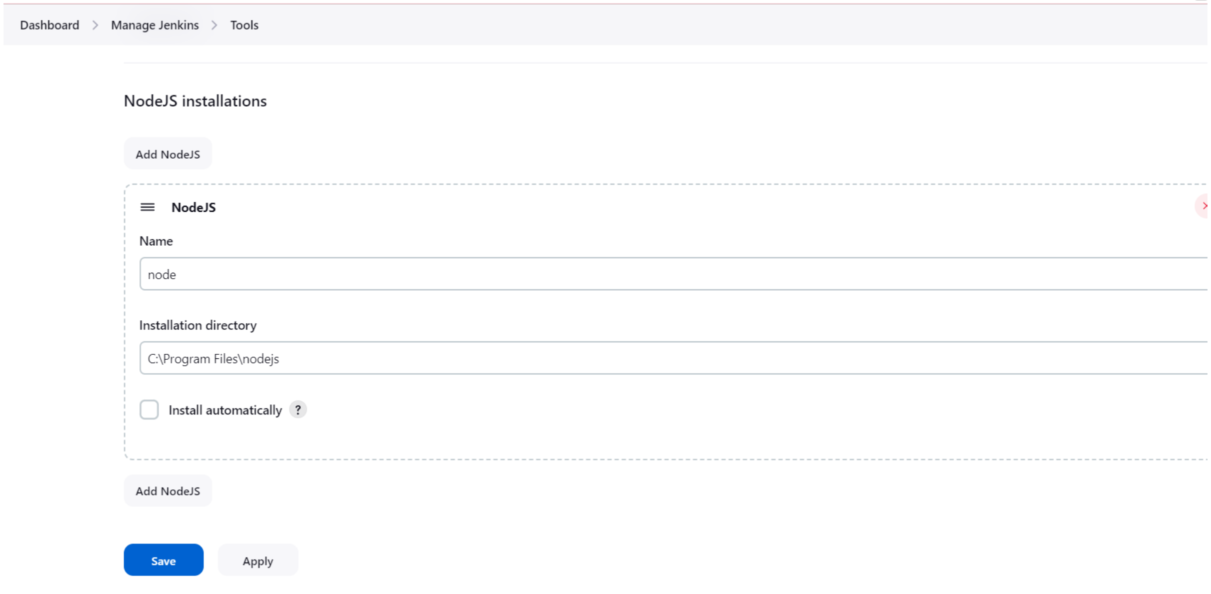
Maven installations

Add Maven

NodeJS installations

Add NodeJS

Save Apply



Dashboard > Manage Jenkins > Tools

NodeJS installations

Add NodeJS

NodeJS

Name

node

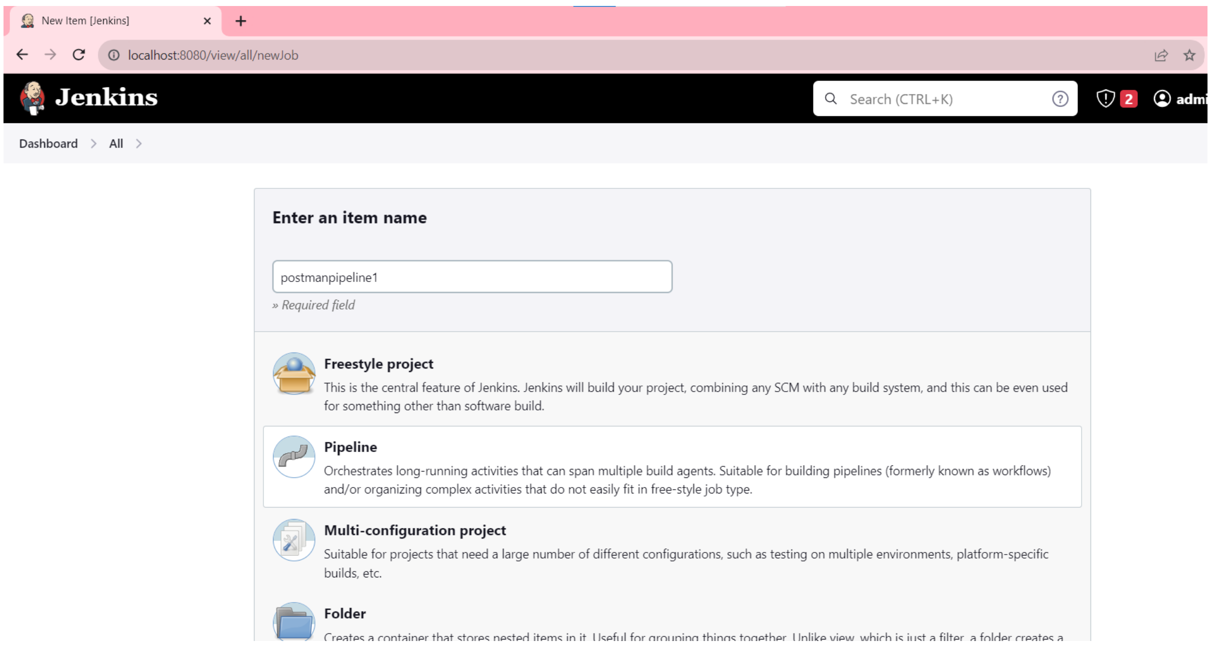
Installation directory

C:\Program Files\nodejs

Install automatically ?

Add NodeJS

Save Apply



New Item [Jenkins]

localhost:8080/view/all/newJob

Jenkins

Search (CTRL+K)

Dashboard > All >

Enter an item name

postmanpipeline1

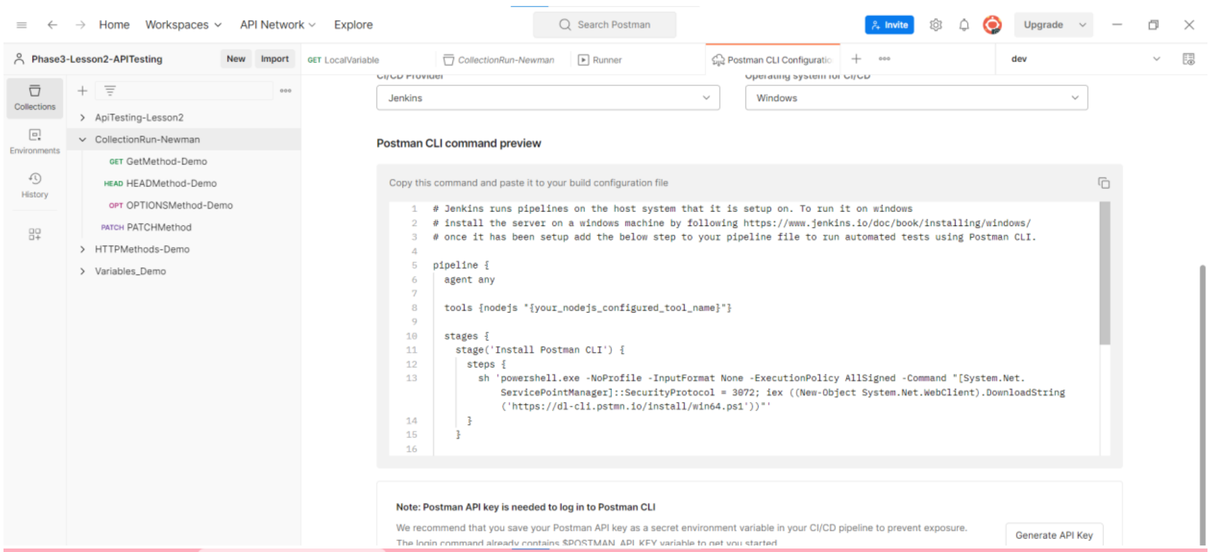
» Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a



Jenkins

Windows

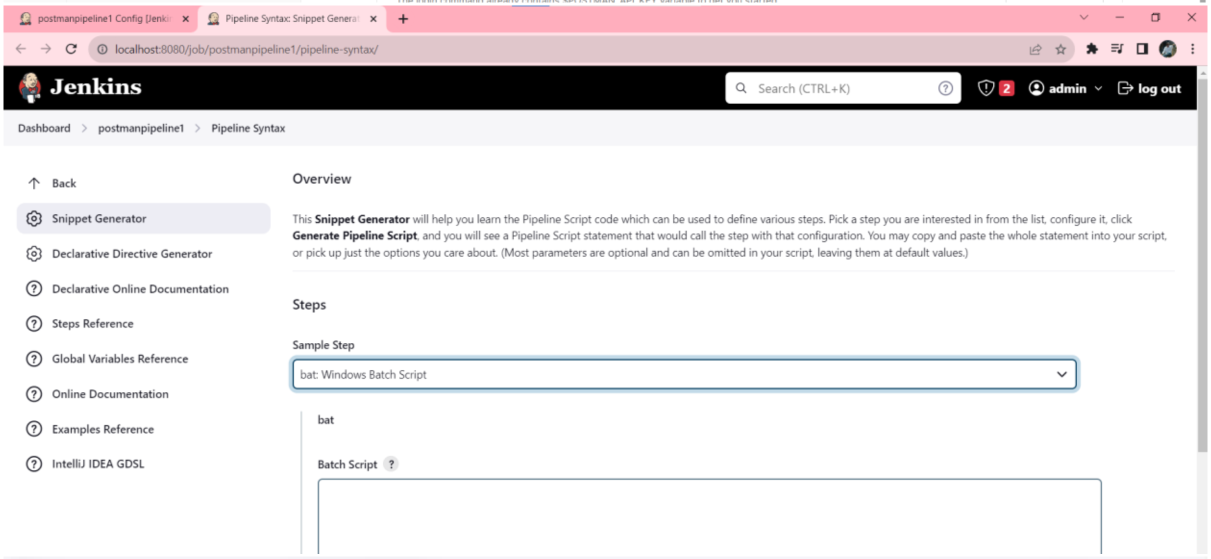
Postman CLI command preview

Copy this command and paste it to your build configuration file

```
# Jenkins runs pipelines on the host system that it is setup on. To run it on windows
# install the server on a windows machine by following https://www.jenkins.io/doc/book/installing/windows/
# once it has been setup add the below step to your pipeline file to run automated tests using Postman CLI.

pipeline {
  agent any

  tools {nodejs "{your_nodejs_configured_tool_name}"}

  stages {
    stage('Install Postman CLI') {
      steps {
        sh 'powershell.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.
            ServicePointManager]::SecurityProtocol = 3072; iex ((New-Object System.Net.WebClient).DownloadString
            ('https://dl-cli.pstmn.io/install/win64.ps1'))"'
      }
    }

```

Note: Postman API key is needed to log in to Postman CLI

We recommend that you save your Postman API key as a secret environment variable in your CI/CD pipeline to prevent exposure.
The login command already contains $POSTMAN_API_KEY variable to get you started.


postmanpipeline1 Config [Jenki
Pipeline Syntax: Snippet Generat
localhost:8080/job/postmanpipeline1/pipeline-syntax/
Jenkins
Search (CTRL+K)
2
admin
log out
Dashboard
postmanpipeline1
Pipeline Syntax
Back
Snippet Generator
Declarative Directive Generator
Declarative Online Documentation
Steps Reference
Global Variables Reference
Online Documentation
Examples Reference
IntelliJ IDEA GDSL

Overview

This **Snippet Generator** will help you learn the Pipeline Script code which can be used to define various steps. Pick a step you are interested in from the list, configure it, click **Generate Pipeline Script**, and you will see a Pipeline Script statement that would call the step with that configuration. You may copy and paste the whole statement into your script, or pick up just the options you care about. (Most parameters are optional and can be omitted in your script, leaving them at default values.)

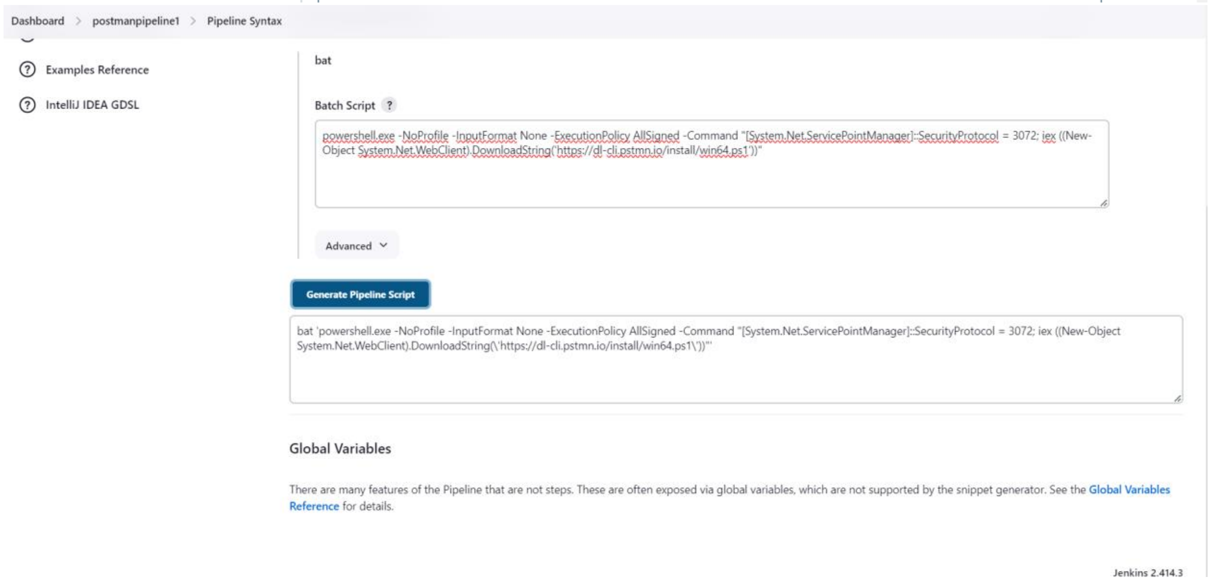
Steps

Sample Step

bat: Windows Batch Script

bat

Batch Script



bat

Batch Script

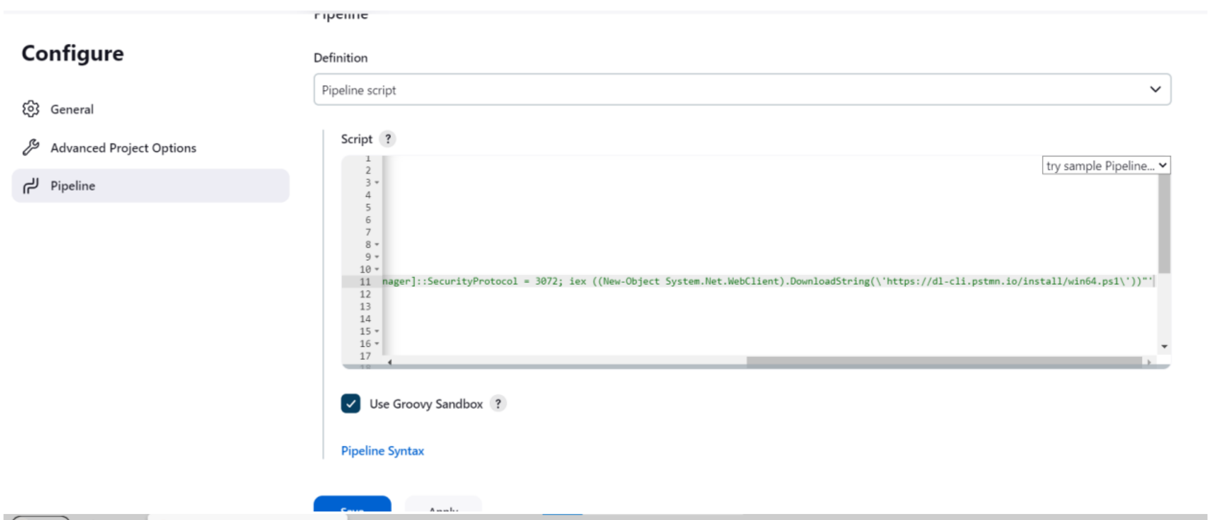
```
powershell.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.ServicePointManager]::SecurityProtocol = 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://dl-cli.pstmn.io/install/win64.ps1'))"
```

```
bat 'powershell.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.ServicePointManager]::SecurityProtocol = 3072; iex ((New-Object System.Net.WebClient).DownloadString(\'https://dl-cli.pstmn.io/install/win64.ps1\'))"'
```

Global Variables

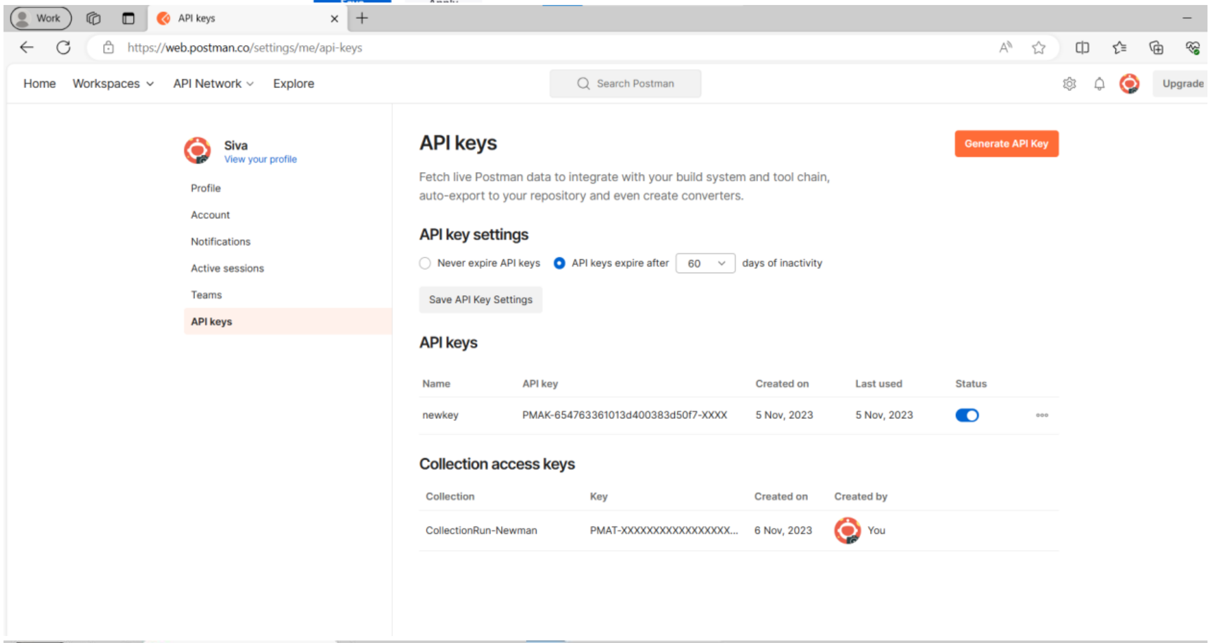
There are many features of the Pipeline that are not steps. These are often exposed via global variables, which are not supported by the snippet generator. See the Global Variables Reference for details.

Jenkins 2.414.3



```
nager]::SecurityProtocol = 3072; iex ((New-Object System.Net.WebClient).DownloadString(\'https://dl-cli.pstmn.io/install/win64.ps1\'))"'
```

Use Groovy Sandbox [✓]



API keys

Fetch live Postman data to integrate with your build system and tool chain, auto-export to your repository and even create converters.

API key settings

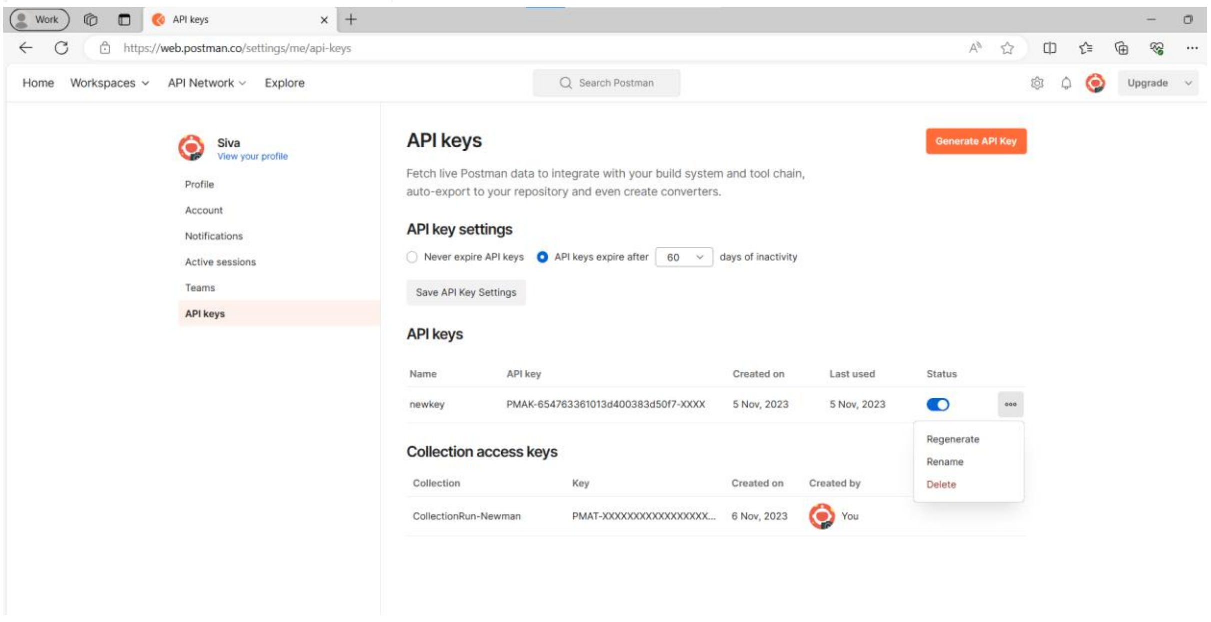
Never expire API keys [✓ API keys expire after] 60 days of inactivity

API keys

Name	API key	Created on	Last used	Status
newkey	PMAK-654763361013d400383d50f7-XXXX	5 Nov, 2023	5 Nov, 2023	●

Collection access keys

Collection	Key	Created on	Created by
CollectionRun-Newman	PMAT-XXXXXXXXXXXXXXXXX...	6 Nov, 2023	You



API keys

Fetch live Postman data to integrate with your build system and tool chain, auto-export to your repository and even create converters.

API key settings

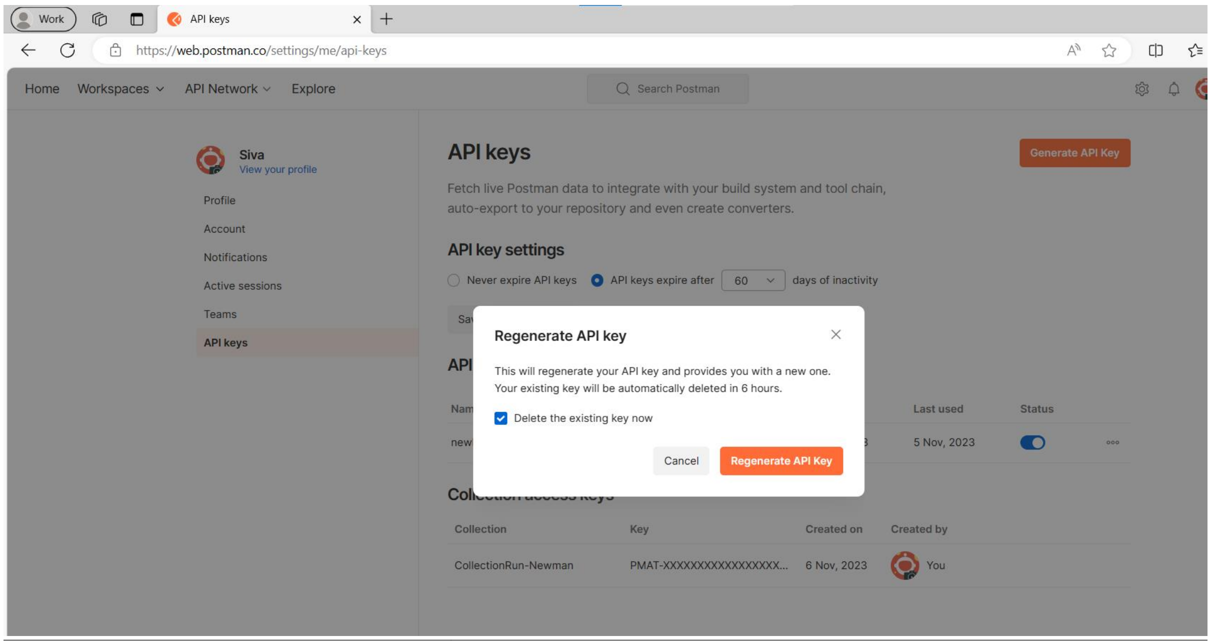
Never expire API keys [✓ API keys expire after] 60 days of inactivity

API keys

Name	API key	Created on	Last used	Status
newkey	PMAK-654763361013d400383d50f7-XXXX	5 Nov, 2023	5 Nov, 2023	●

Collection access keys

Collection	Key	Created on	Created by
CollectionRun-Newman	PMAT-XXXXXXXXXXXXXXXXX...	6 Nov, 2023	You



API keys

Fetch live Postman data to integrate with your build system and tool chain, auto-export to your repository and even create converters.

API key settings

Never expire API keys [✓ API keys expire after] 60 days of inactivity

Regenerate API key

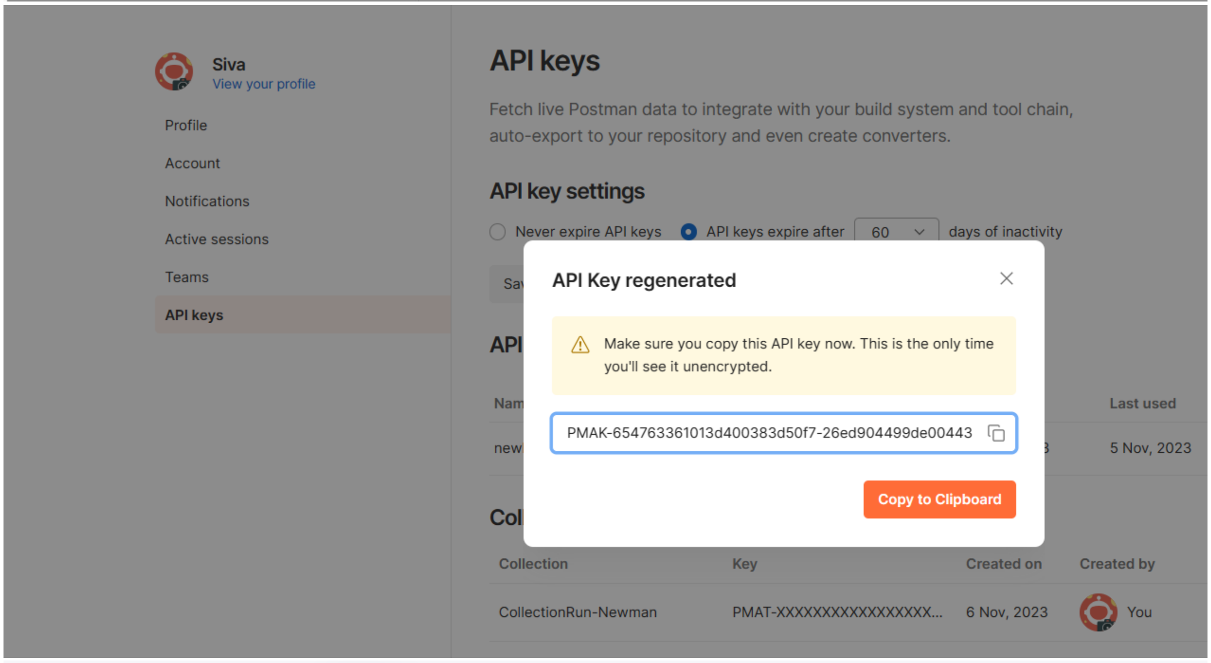
This will regenerate your API key and provides you with a new one. Your existing key will be automatically deleted in 6 hours.

[✓] Delete the existing key now

Cancel | Regenerate API Key

Nam		Last used	Status
new		5 Nov, 2023	●

Collection	Key	Created on	Created by
CollectionRun-Newman	PMAT-XXXXXXXXXXXXXXXXX...	6 Nov, 2023	You



API keys

Fetch live Postman data to integrate with your build system and tool chain, auto-export to your repository and even create converters.

API key settings

Never expire API keys [✓ API keys expire after] 60 days of inactivity

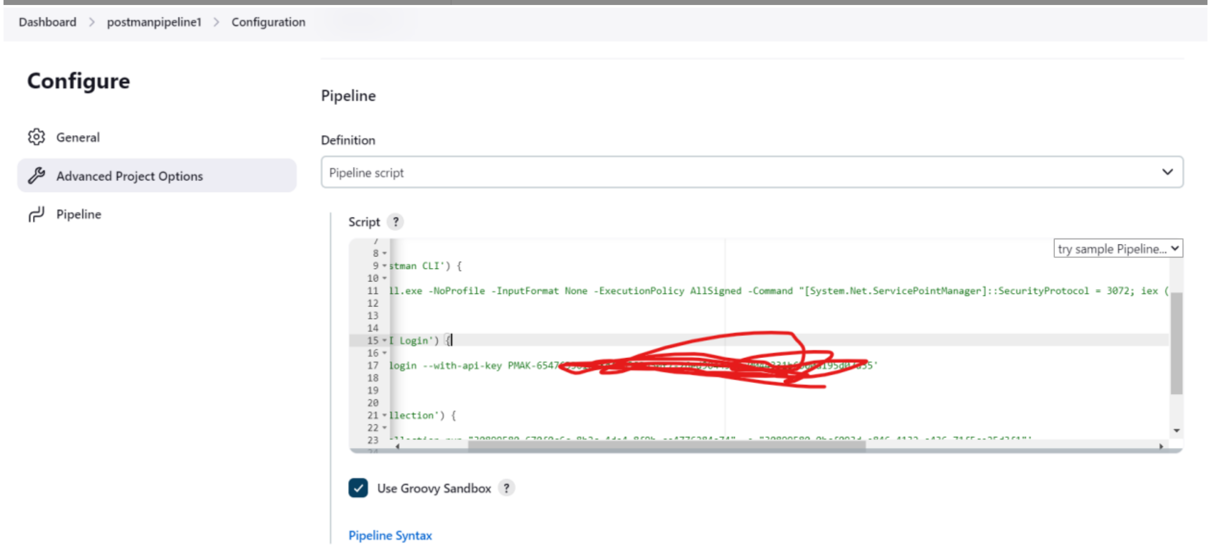
API Key regenerated

Make sure you copy this API key now. This is the only time you'll see it unencrypted.

PMAK-654763361013d400383d50f7-26ed904499de00443

Copy to Clipboard

Collection	Key	Created on	Created by
CollectionRun-Newman	PMAT-XXXXXXXXXXXXXXXXX...	6 Nov, 2023	You



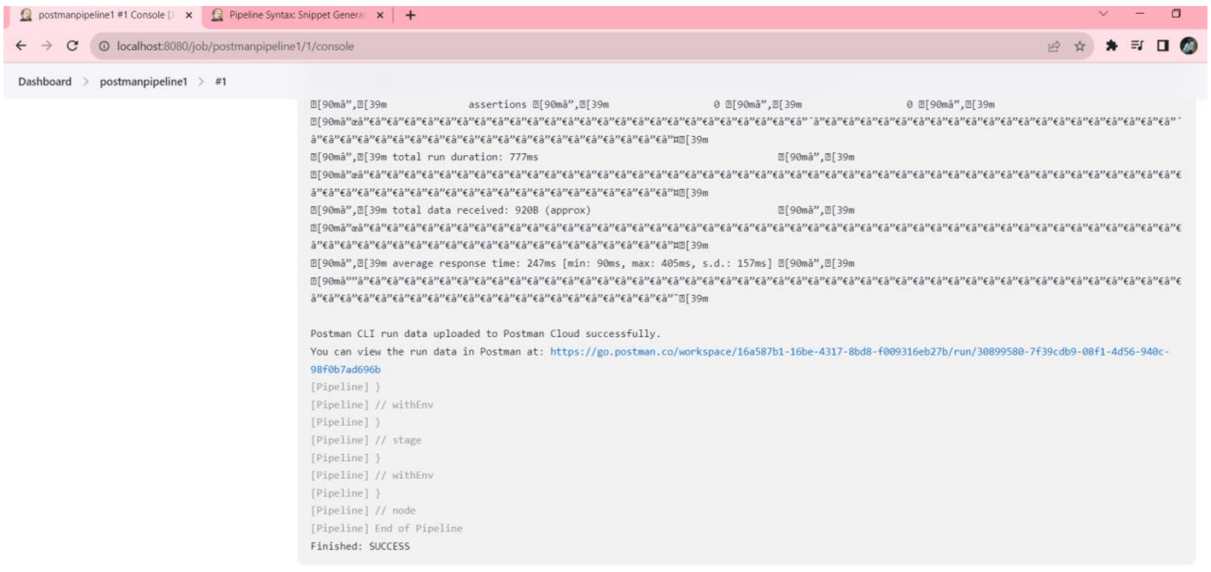
Pipeline

Definition: Pipeline script

Script

```
stman CLI') {

ll.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.ServicePointManager]::SecurityProtocol = 3072; iex (



I Login') {

login --with-api-key PMAK-6547[redacted]35'



llection') {

[illegible]
```

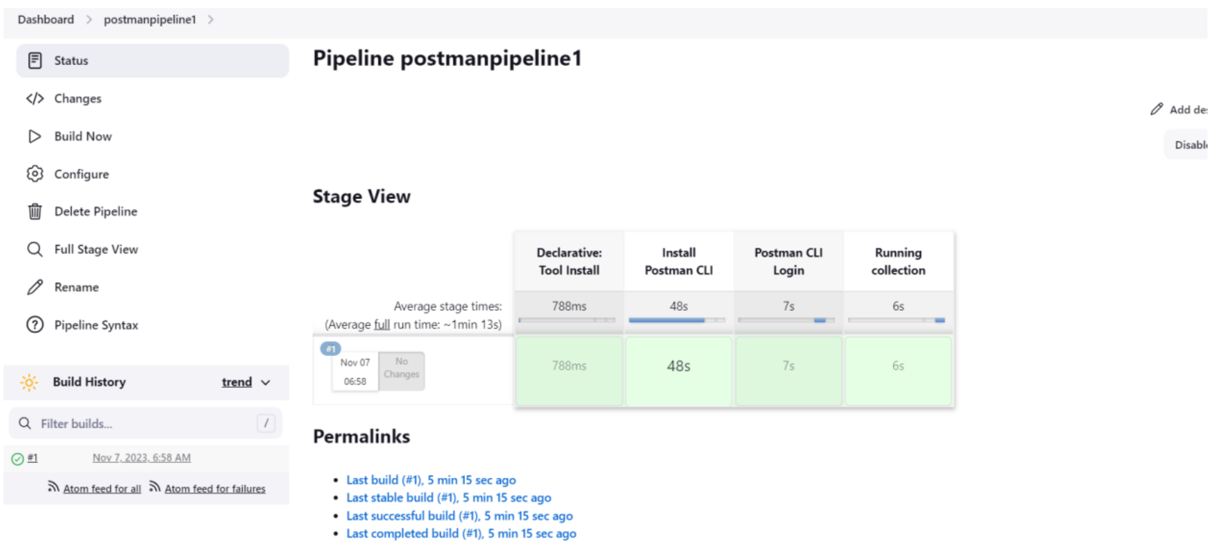
[✓] Use Groovy Sandbox



localhost:8080/job/postmanpipeline1/1/console

Dashboard > postmanpipeline1 > #1

```
[90mâ”‚[39m            assertions [90mâ”‚[39m          0 [90mâ”‚[39m           0 [90mâ”‚[39m
[90mâ”œâ”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€
â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”¤[39m
[90mâ”‚[39m total run duration: 777ms                       [90mâ”‚[39m
[90mâ”œâ”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€
â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”¤[39m
[90mâ”‚[39m total data received: 920B (approx)              [90mâ”‚[39m
[90mâ”œâ”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€
â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”¤[39m
[90mâ”‚[39m average response time: 247ms [min: 90ms, max: 405ms, s.d.: 157ms] [90mâ”‚[39m
[90mâ””â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€
â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”€â”˜[39m

Postman CLI run data uploaded to Postman Cloud successfully.
You can view the run data in Postman at: https://go.postman.co/workspace/16a587b1-16be-4317-8bd8-f009316eb27b/run/30899580-7f39cdb9-08f1-4d56-940c-
98f0b7ad696b
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



Dashboard > postmanpipeline1 >

Pipeline postmanpipeline1

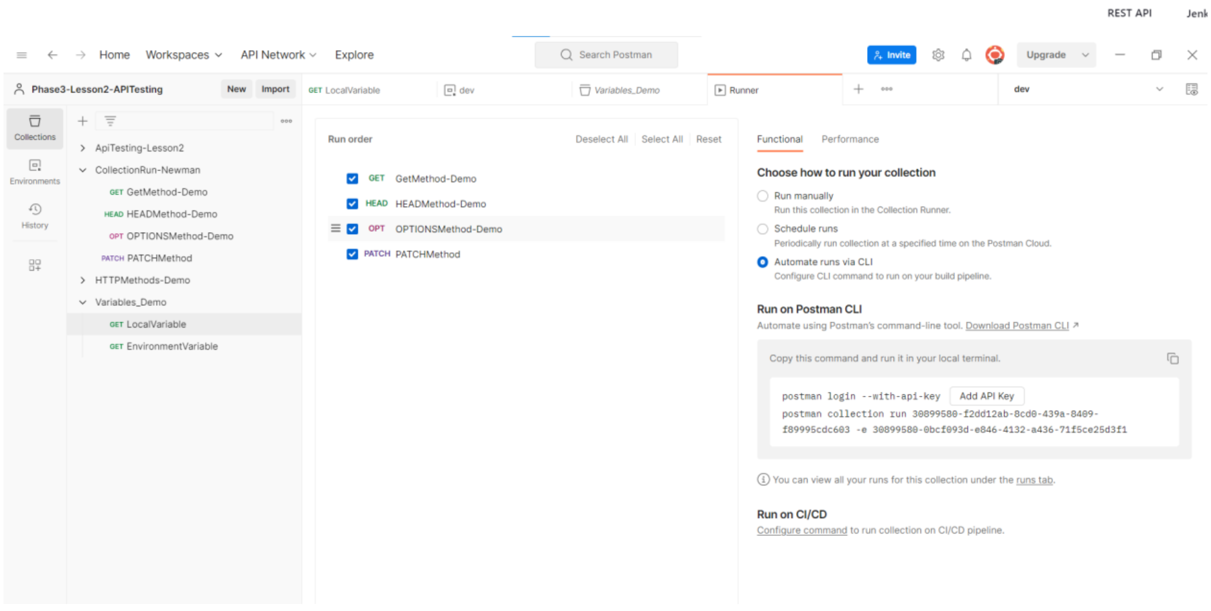
Stage View

	Declarative: Tool Install	Install Postman CLI	Postman CLI Login	Running collection
Average stage times: (Average full run time: ~1min 13s)	788ms	48s	7s	6s
#1 Nov 07 06:58 No Changes	788ms	48s	7s	6s

Build History: #1 Nov 7, 2023, 6:58 AM

Permalinks

- Last build (#1), 5 min 15 sec ago
- Last stable build (#1), 5 min 15 sec ago
- Last successful build (#1), 5 min 15 sec ago
- Last completed build (#1), 5 min 15 sec ago



Phase3-Lesson2-APITesting

Run order

- [✓] GET GetMethod-Demo
- [✓] HEAD HEADMethod-Demo
- [✓] OPT OPTIONSMethod-Demo
- [✓] PATCH PATCHMethod

Choose how to run your collection

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Run this collection in the Collection Runner.

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[✓ Automate runs via CLI]
Configure CLI command to run on your build pipeline.

Run on Postman CLI
Automate using Postman's command-line tool. Download Postman CLI

Copy this command and run it in your local terminal.

```
postman login --with-api-key
postman collection run 30899580-f2dd12ab-8cd0-439a-8409-
f89995cdc603 -e 30899580-0bcf093d-e846-4132-a436-71f5ce25d3f1
```

You can view all your runs for this collection under the runs tab.

Run on CI/CD
Configure command to run collection on CI/CD pipeline.