

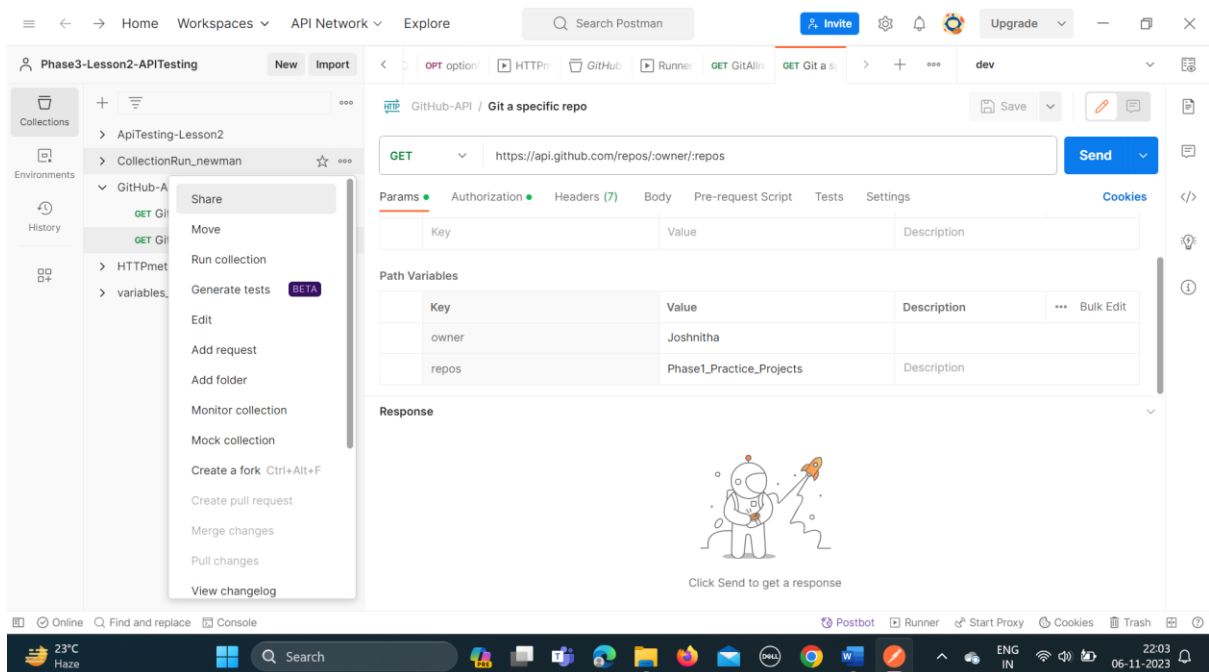
# Phase3-Practice Project: Assisted Practice

## Postman:

1. Demonstrate how to run a collection remotely with URL.

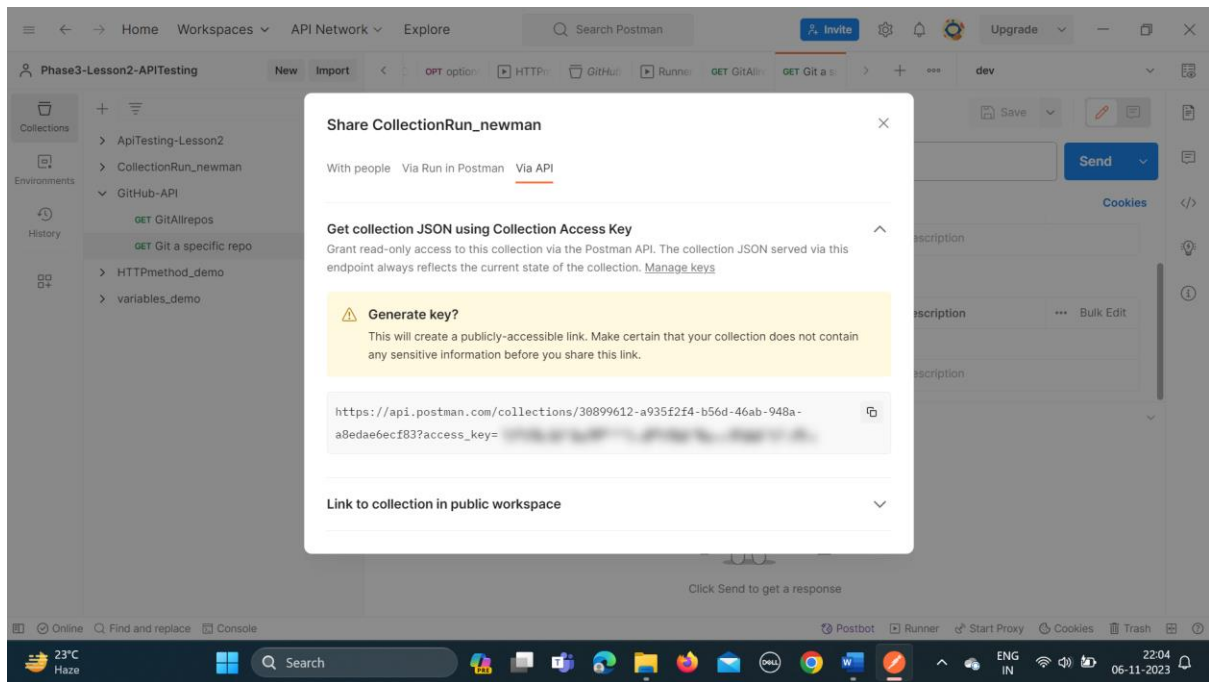
Create a workspace ,add collection and create request

Click on share.



Then click on via API.

Click on Generate new key and copy the URL

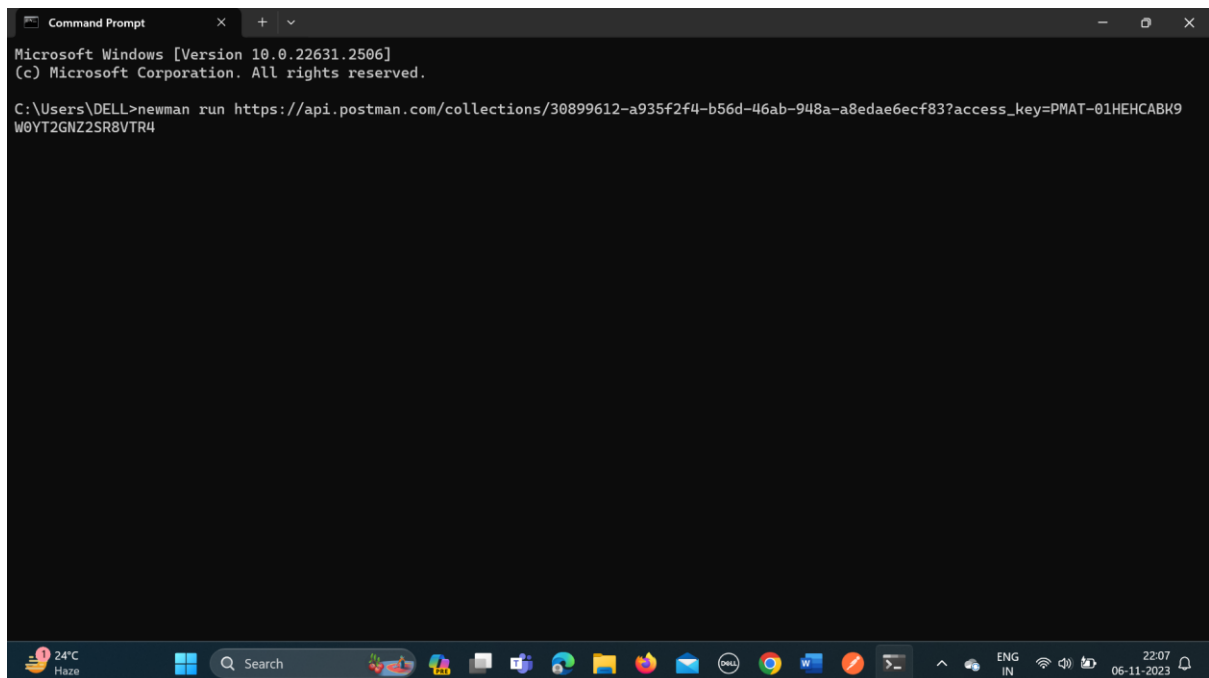


Carefully copy the URL.

[https://api.postman.com/collections/30899612-a935f2f4-b56d-46ab-948a-a8edae6ecf83?access\\_key=PMAT-01HEHCABK9W0YT2GNZ2SR8VTR4](https://api.postman.com/collections/30899612-a935f2f4-b56d-46ab-948a-a8edae6ecf83?access_key=PMAT-01HEHCABK9W0YT2GNZ2SR8VTR4)

Now go to cmd prompt of windows and execute the newman command

# newman run <Copied URL>



It will run the collection successfully.

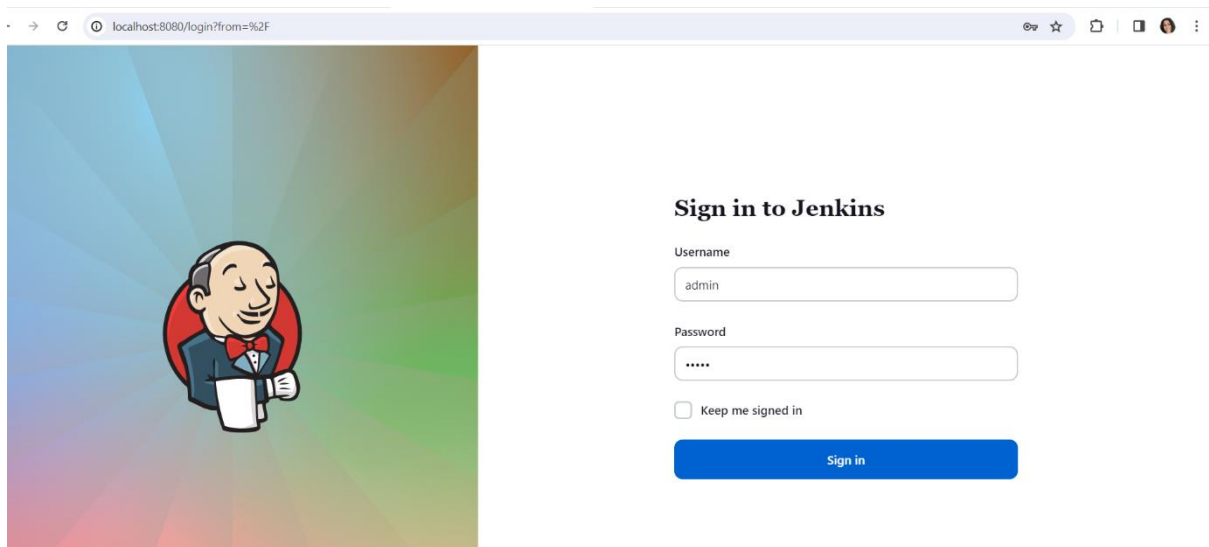
```
C:\WINDOWS\system32\cmd. x + v
→ GetMethod_demo
GET https://api.postman.com/workspaces [401 Unauthorized, 560B, 339ms]
→ optionMethod
OPTIONS https://api.postman.com/workspaces [200 OK, 285B, 307ms]
→ HEADmethod
HEAD https://api.postman.com/workspaces [401 Unauthorized, 440B, 309ms]
→ PATCHmethod
PATCH https://jsonplaceholder.typicode.com/posts/2 [200 OK, 1.39kB, 1099ms]
```

	executed	failed
iterations	1	0
requests	4	0
test-scripts	4	0
prerequisite-scripts	4	0
assertions	0	0

total run duration: 2.3s  
total data received: 400B (approx)  
average response time: 513ms [min: 307ms, max: 1099ms, s.d.: 338ms]

## 2. Demonstrate how postman is used with Jenkins.

### Run collection with Jenkins using CLI



### Download nodejs plugin in Jenkins

## Plugins

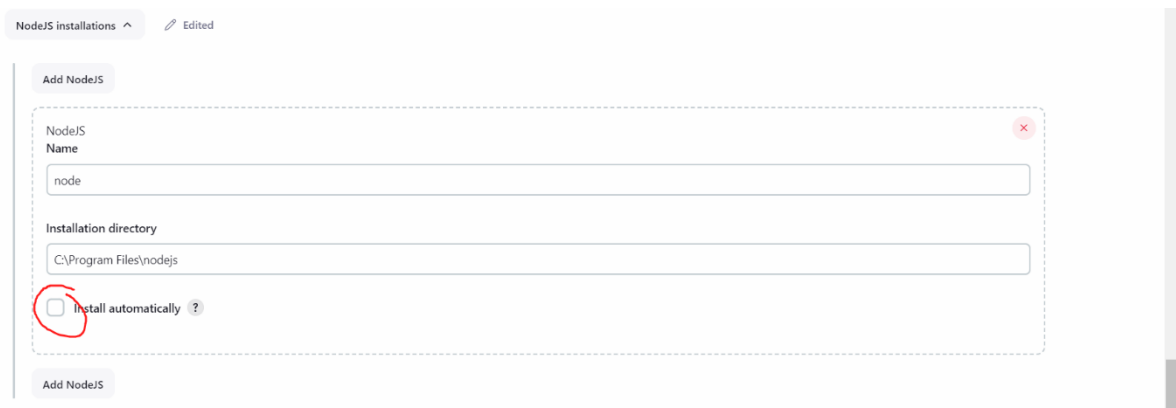
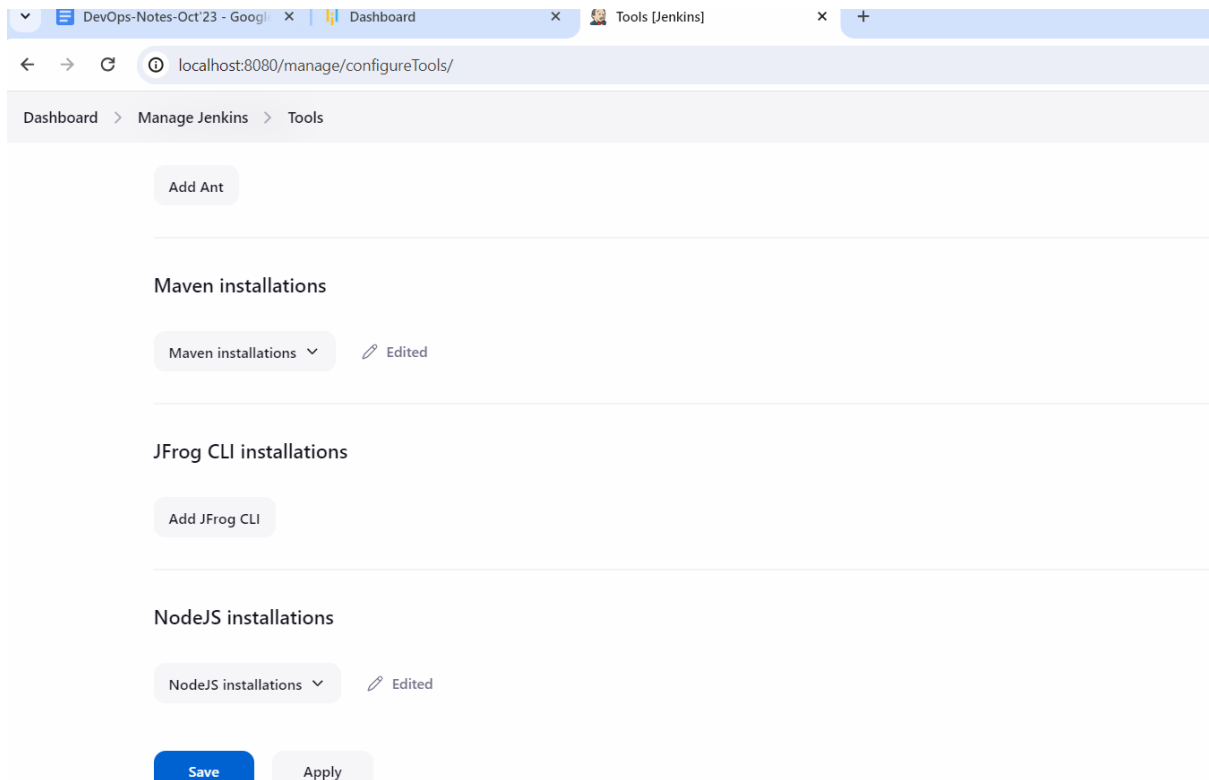
🔍 nodejs

Name ↓

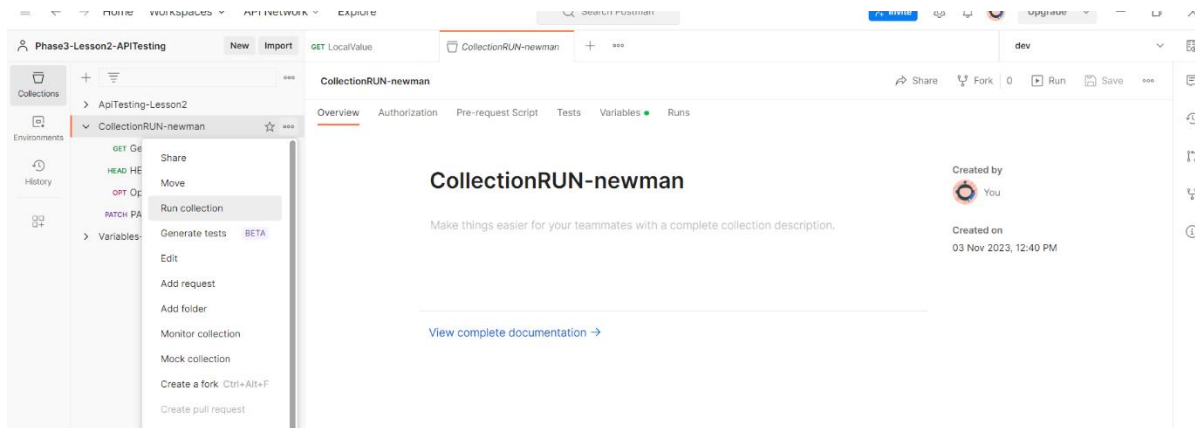
**NodeJS Plugin** 1.6.1

NodeJS Plugin executes [NodeJS](#) script as a build step.

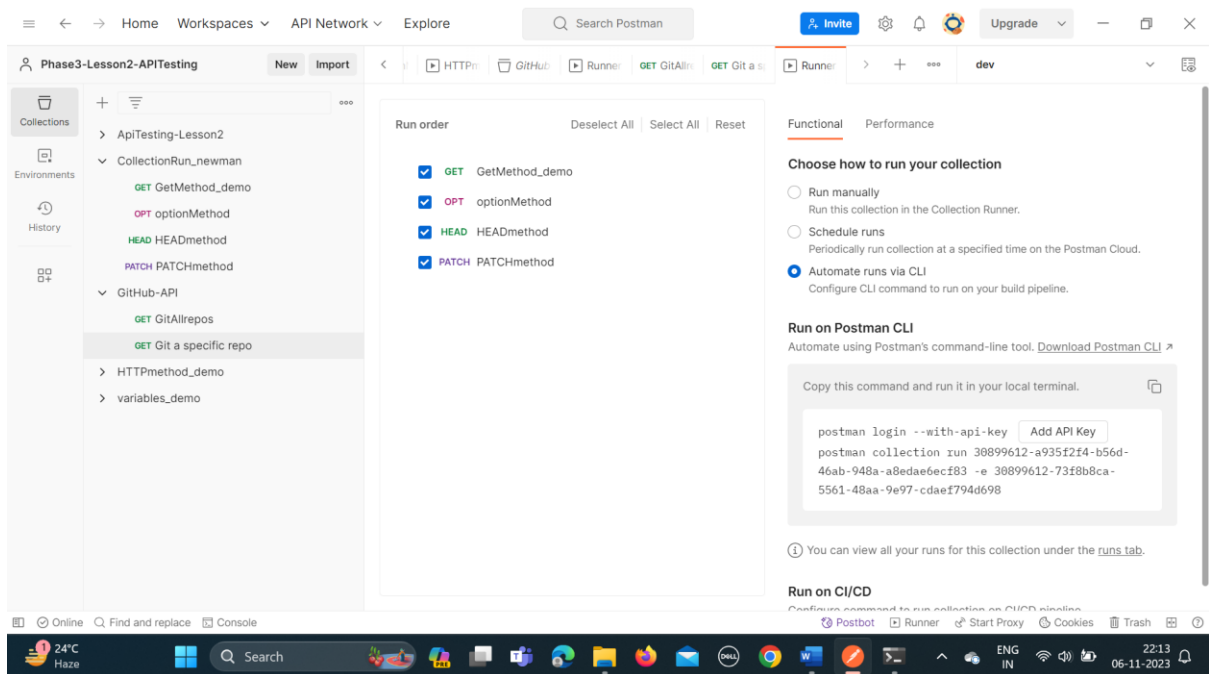
[Report an issue with this plugin](#)



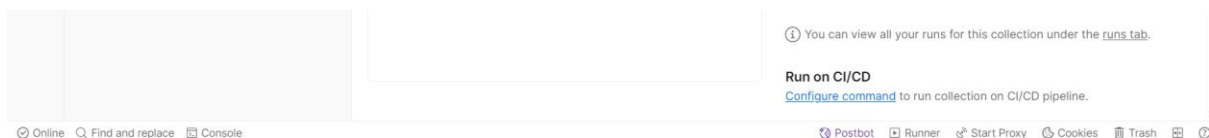
Now go to collection runner



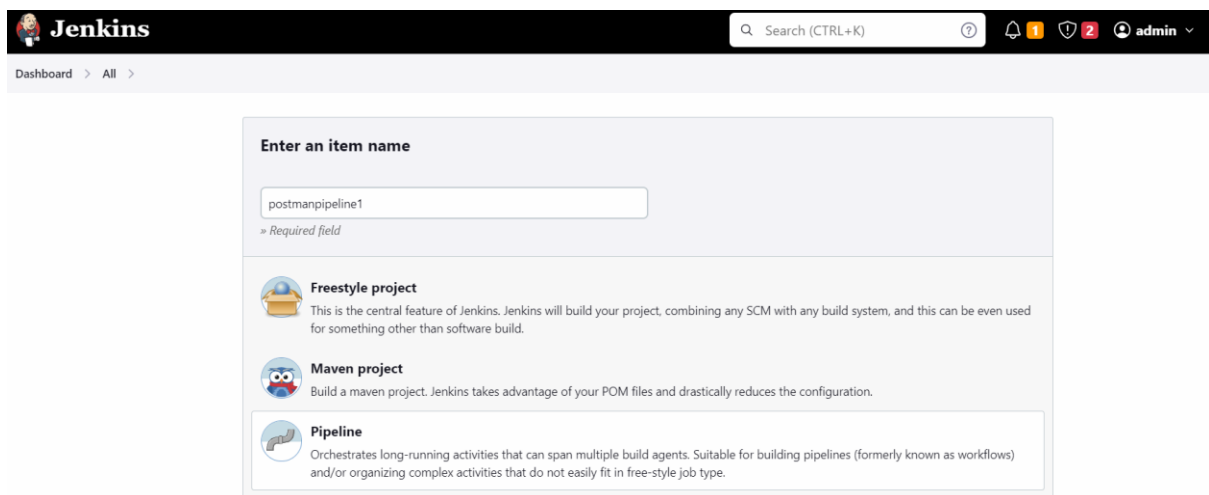
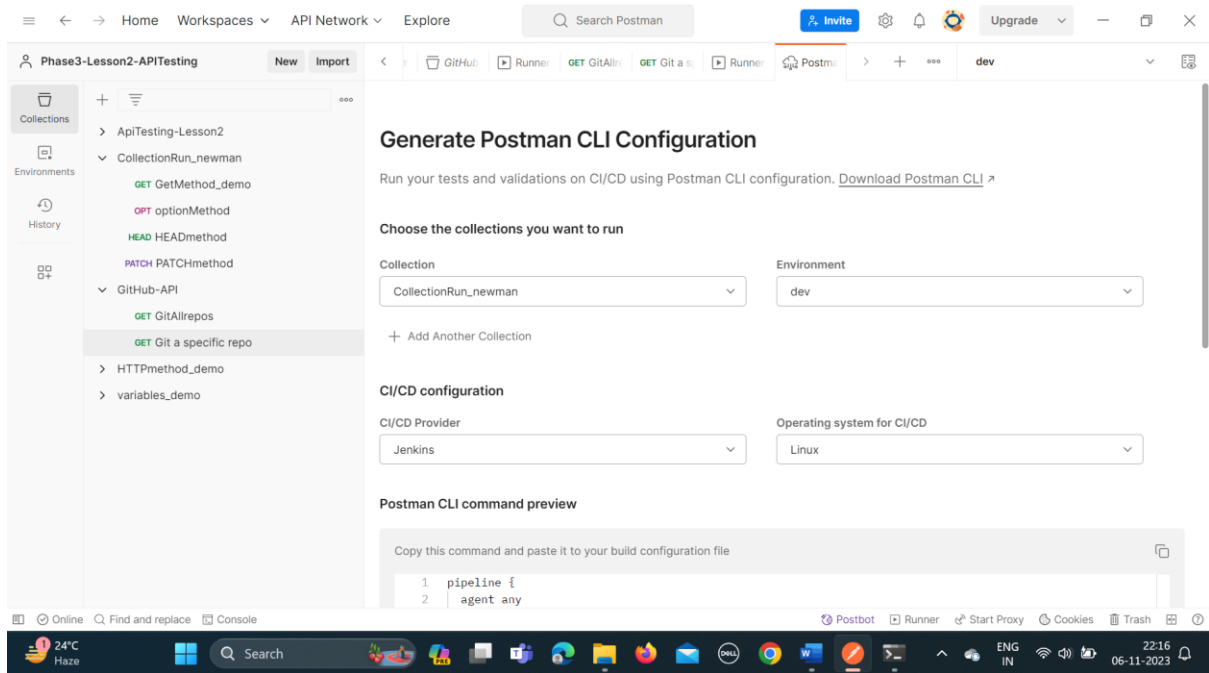
Click on Automate runs via CLI.



Click on configure command



Then add all collection, Environment, CI/CD provider , operating system for CI/CD.



Now copy the entire script form postman

#### Postman CLI command preview

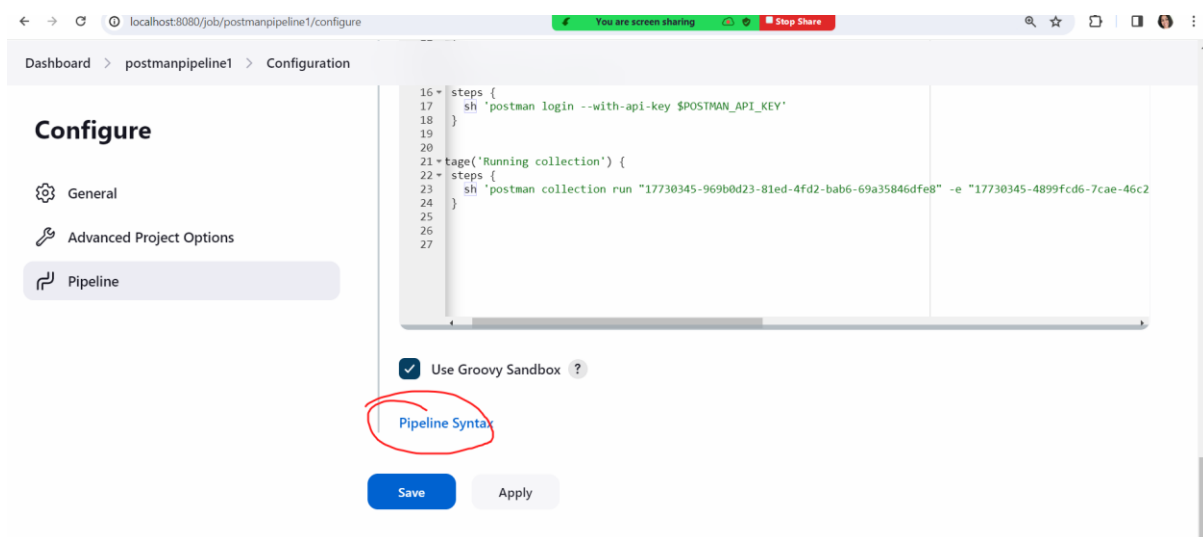
```
Copy this command and paste it to your build configuration file

2 # install the server on a windows machine by following https://www.jenkins.io/doc/book/installing/windows/
3 # once it has been setup add the below step to your pipeline file to run automated tests using Postman CLI.
4
5 pipeline {
6   agent any
7
8   tools {nodejs "your_nodejs_configured_tool_name"}
9
10  stages {
11    stage('Install Postman CLI') {
12      steps {
13        sh 'powershell.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.
14          ServicePointManager]::SecurityProtocol = 3072; iex ((New-Object System.Net.WebClient).DownloadString
15            ('https://dl-cli.pstmn.io/install/win64.ps1'))'"
16      }
17    }
18  }
19
20  stage('Postman CLI Login') {
```

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

Copy this pipeline in Jenkins Job

Click on Pipeline syntax



Here select windows batch script



Jenkins

admin
log out

Dashboard > postmanpipeline1 > Pipeline Syntax

↑ Back

Snippet Generator
Declarative Directive Generator
Declarative Online Documentation
Steps Reference
Global Variables Reference
Online Documentation

### 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

Pipeline Syntax

Sample Step
bat: Windows 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'))"

Advanced

Generate Pipeline Script

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'))"'

Now go to jenkins job.. remove the sh command in first stage and add the bta command

localhost:8080/job/postmanpipeline1/configure

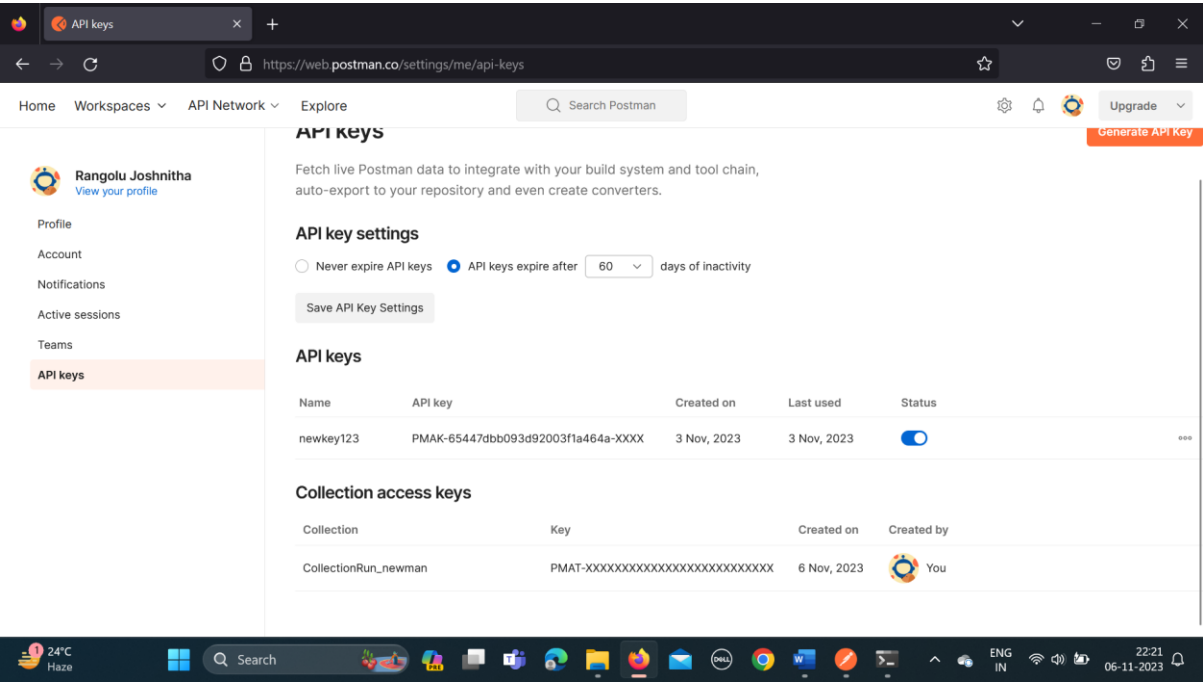
Dashboard > postmanpipeline1 > Configuration

```

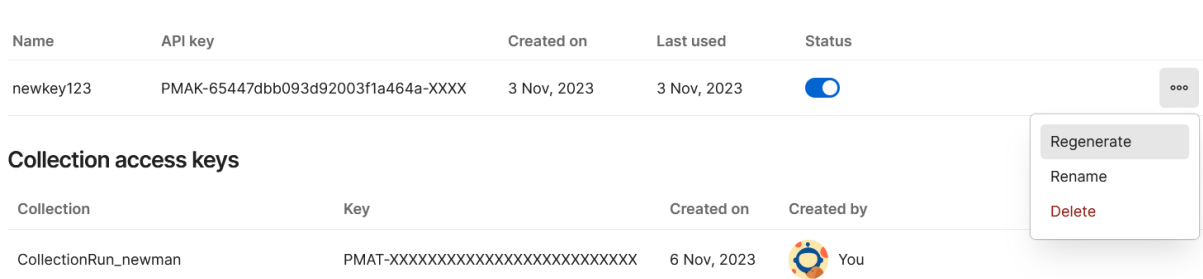
2 pipeline {
3   agent any
4
5   tools {nodejs 'node'}
6
7   stages {
8     stage('Install Postman CLI') {
9       steps {
10        bat 'powershell.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.ServicePointManager]::SecurityProtocol = 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://dl-cli.pstmn.io/install/win64.ps1'))"'
11      }
12    }
13  }
14 }

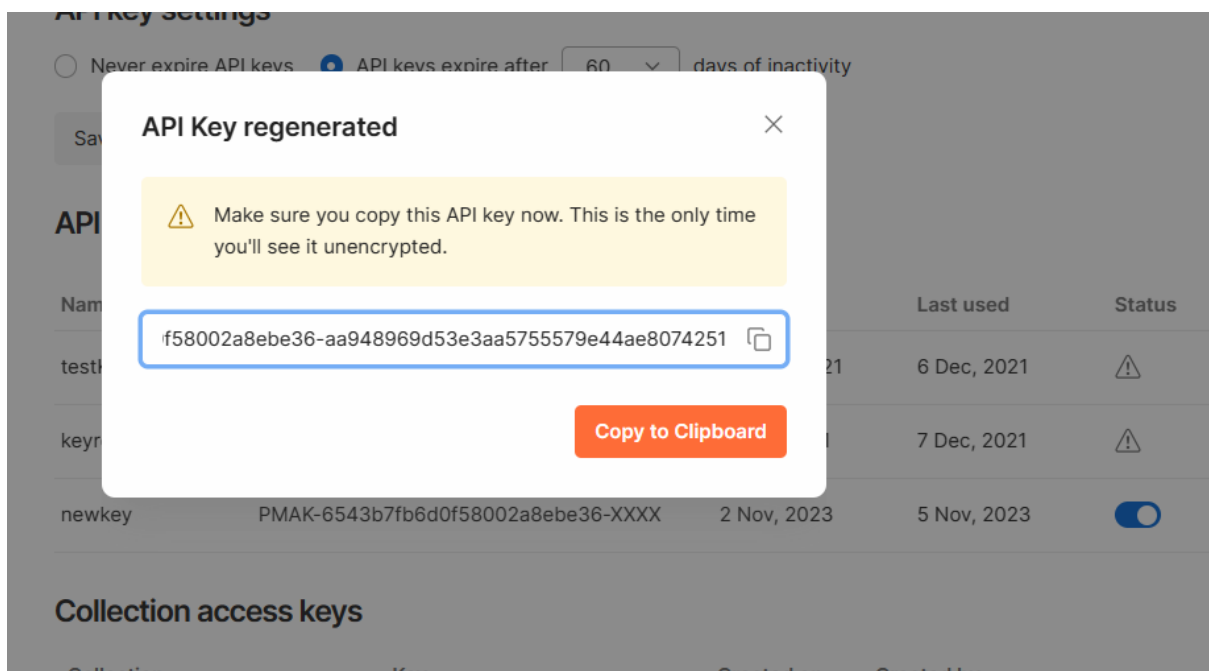
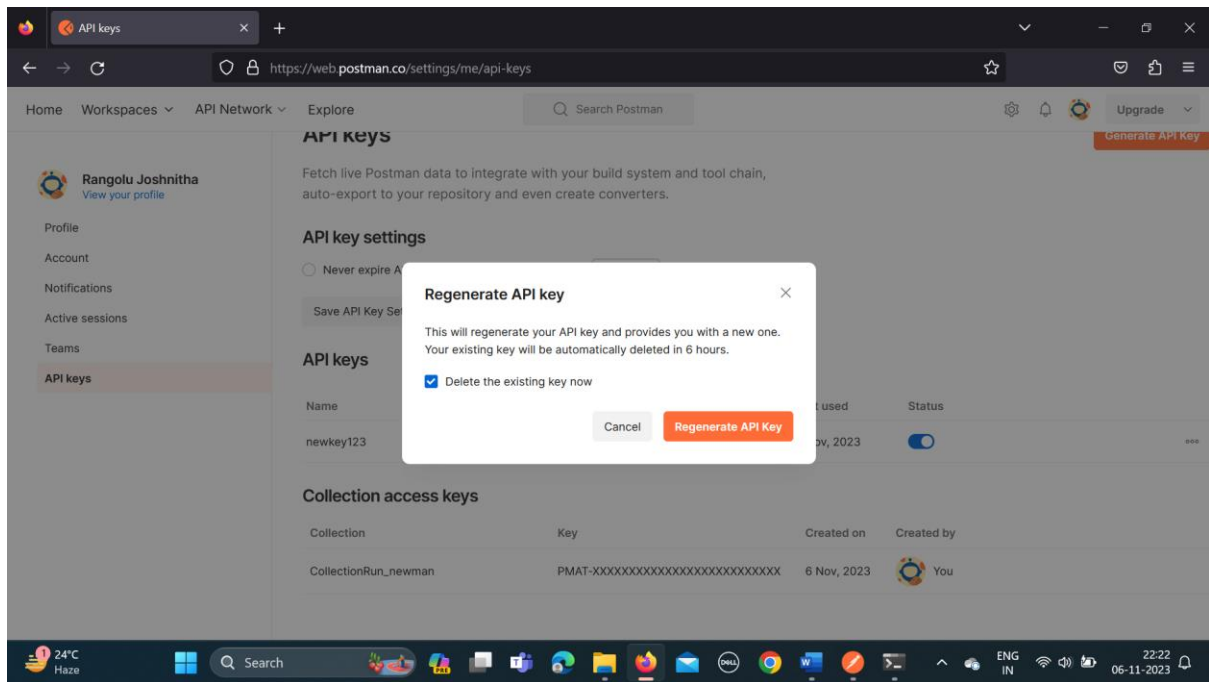
```

Get the api key from postman



Click on regenerate.





Go to Jenkins pipeline code

Stage 2 -> change sh to bat

And replace \$POSTMAN\_API\_KEY to the actual postman apikey value

Dashboard > postmanpipeline1 > Configuration

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```
pipeline {  
  agent any  
  
  tools {  
    nodejs 'node'  
  }  
  
  stages {  
    stage('Install Postman CLI') {  
      steps {  
        bat 'powershell.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.Service  
      }  
    }  
    stage('Postman CLI Login') {  
      steps {  
        bat 'postman login --with-api-key PMAK-6543b7fb6d0f58002a8ebe36-aa948969d53e3aa5755579e44ae8074251'  
      }  
    }  
  }  
}
```

by sample pipeline...

Dashboard > postmanpipeline1 > Configuration

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```
}  
}  
  
stage('Postman CLI Login') {  
  steps {  
    bat 'postman login --with-api-key PMAK-6543b7fb6d0f58002a8ebe36-aa948969d53e3aa5755579e44ae8074251'  
  }  
}  
  
stage('Running collection') {  
  steps {  
    bat 'postman collection run "17730345-969b0d23-81ed-4fd2-bab6-69a35846dfe8" -e "17730345-4899fcd6-7cae-46  
  }  
}  
}
```

Then click on build now .