

## GitHub

```
git clone https://github.com/Sumanth17-git/jenkins-demo.git
```

```
cd jenkins-demo
```

```
git checkout -b feature-branch
```

```
git add .
```

```
git commit -m "Added feature changes"
```

```
git push origin feature-branch
```

### Create a Pull Request (PR)

1. Go to your repository on GitHub: [GitHub Repo](#)
2. Navigate to the **Pull Requests** tab.
3. Click **"New Pull Request"**.
4. Select feature-branch as the source and main as the target.
5. Add a description and click **"Create Pull Request"**.

### 6. Merge the Pull Request

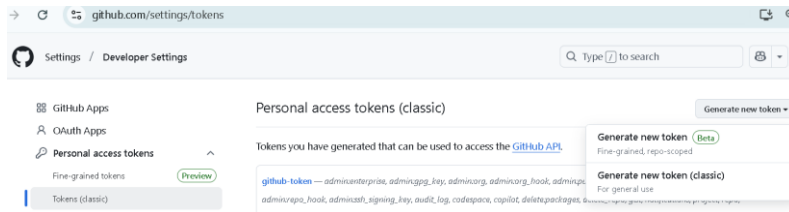
- After review, click **"Merge pull request"**.
- Then, delete the feature-branch if it's no longer needed

### Step 1: Create the GitHub connection – to access github account

1. Create the GitHub Personal Access Token

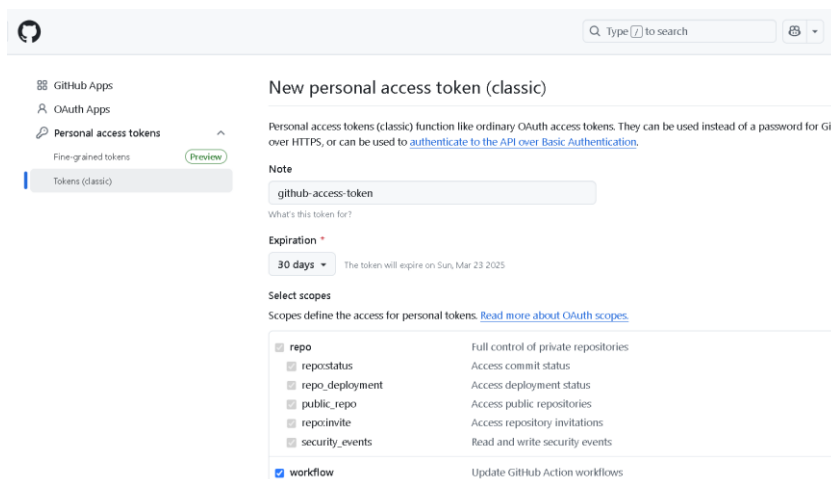
Settings → Developer Settings → Personal access tokens → Token (classic)

⇒ generate new token (classic)



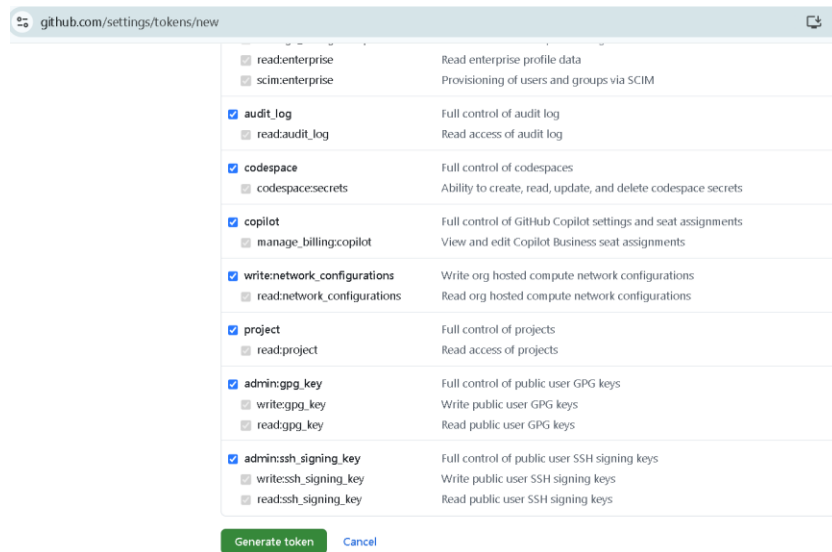
**Note :** github-access-token

### Select all the scopes



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## Click Generate Token



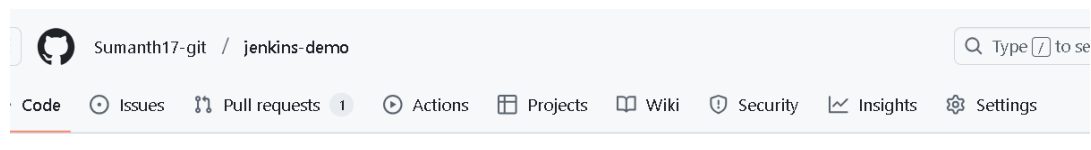
## Click Generate token

Copy the token

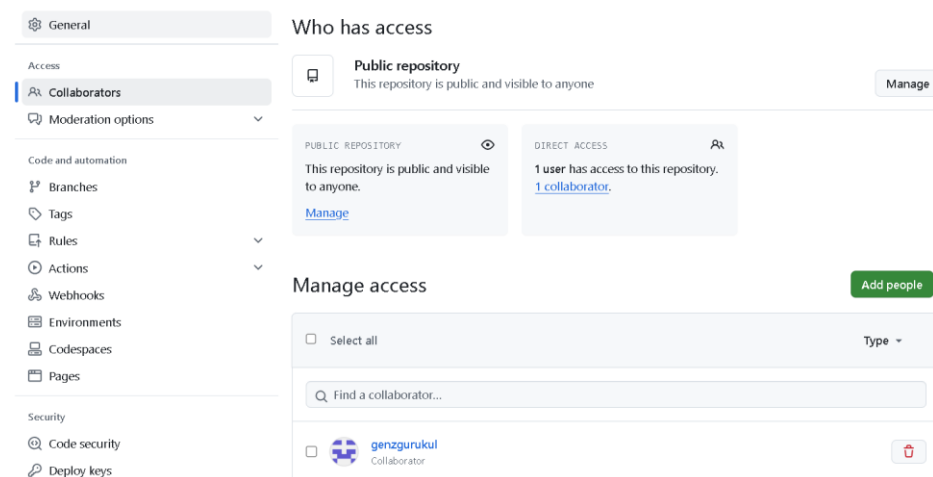
ghp\_TgGD6IRwB5XZxOfjUIKrPYM65oNuOM1XNp5m

## Step 2:

Make sure your friend/colleague GitHub account is added under collaborator section.



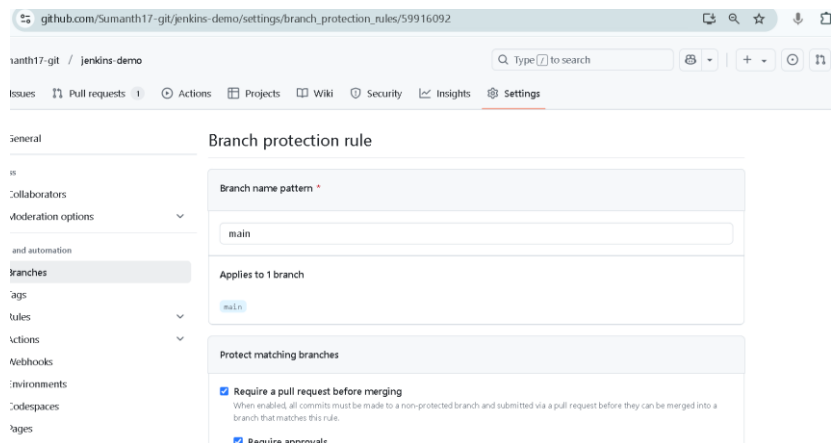
Click your Repo → Settings → Collaborators → Add People ( add your team-mate github id)



Next Go to

Code and automation → Branches → Add rule → Provide your main branch name "main"

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Choose Protect matching branches and Save changes.

### Now make some changes on feature branch

```
git checkout -b feature-branch
```

```
git add .
```

```
git commit -m "Added feature changes"
```

```
git push origin feature-branch
```

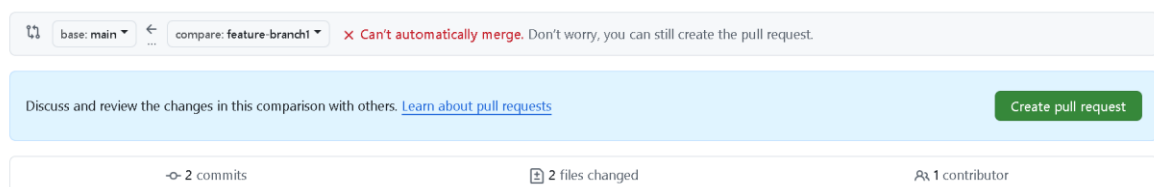
Now you can Create a Pull Request (PR) and provide assignee as your teammate github account.

### Create a Pull Request (PR)

1. Go to your repository on GitHub: [GitHub Repo](#)
2. Navigate to the **Pull Requests** tab.
3. Click **"New Pull Request"**.
4. Select feature-branch as the source and main as the target.
5. Base - **main** and compare - **feature-branch1**
6. click **"Create Pull Request"**.
7. Add description

### Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).



## Choose Assignees – genzgurukul

Add a title and add description :

Create a Pull request.

base: main ← compare: feature-branch1 × Can't automatically merge. Don't worry, you can still create the pull request.

Add a title

changes to files

Add a description

Write Preview

changes to files

Markdown is supported Paste, drop, or click to add files

Reviewers

No reviews—at least 1 approving review is required.

Assignees

genzgurukul

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

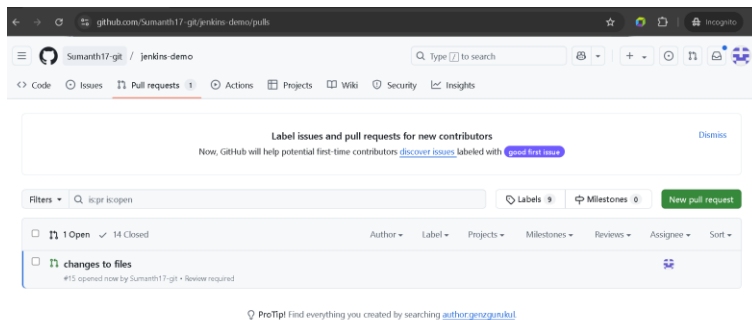
Use Closing keywords in the description to automatically close issues

Helpful resources

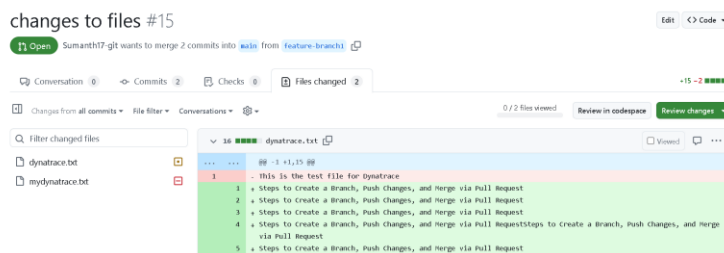
Create pull request

Now login into github as **genzgurukul**. Go to repo **jenkins-demo** and click pull request

Open that pull request

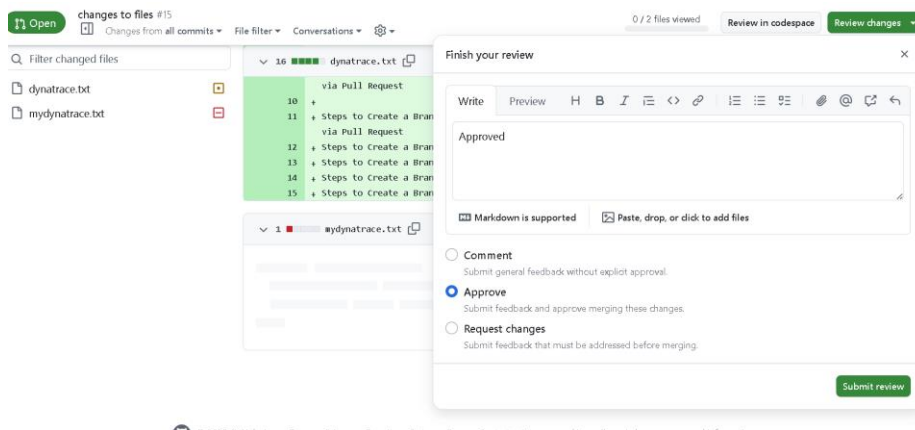


Click File Changes

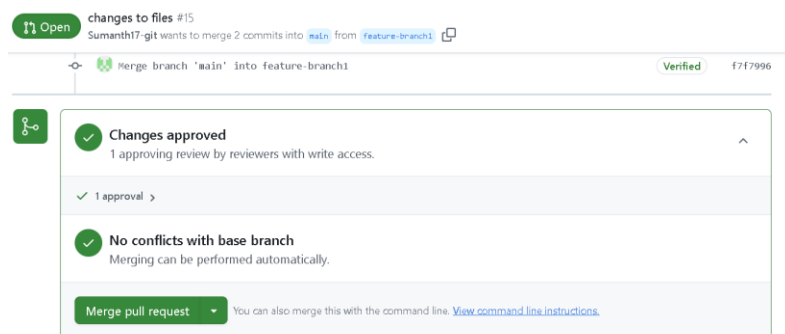


Click Review Changes

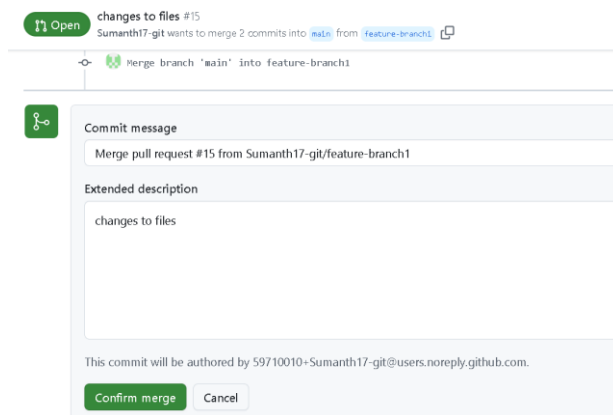
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### Click Approve and Submit review



### Click Merge pull request.



### Click Confirm Merge

## Connect with Dynatrace -GitHub Connector

### Set up GitHub Connector

#### Prerequisite

##### 1. GitHub Personal Access Token

##### 2.Setup and Configure Dynatrace

You need the `app-engine:apps:install` permission.

##### 1.Install GitHub Connector

To use GitHub workflow actions, you need to install **GitHub Connector** from Dynatrace Hub.

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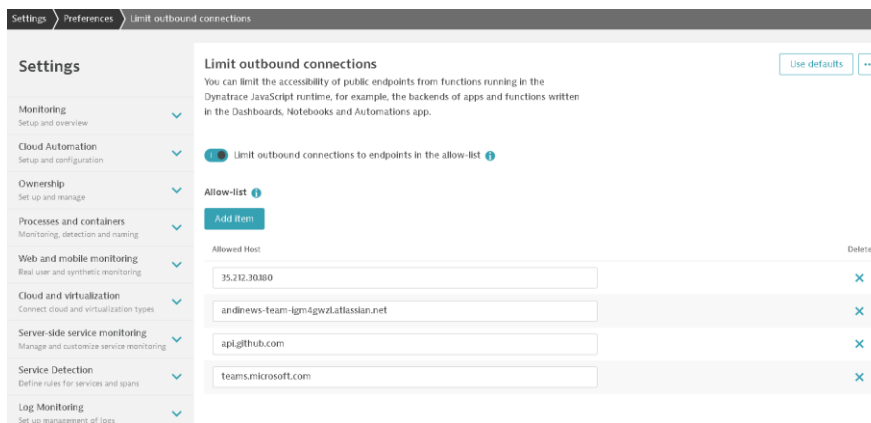
1. In Dynatrace Hub , select **GitHub**.
2. Select **Install**.

## 2.Add a host to the Allow-list in Limit outbound connections

By adding the GitHub host called `api.github.com` to the **Allow-list** in **Limit outbound connections**, you can granularly control the web services connected to your Dynatrace environment.

To set up the connection between GitHub and your Dynatrace environment

1. Go to **Settings** and select **Connections > Outbound and inbound > Limit outbound connections**. This opens the Settings Classic page.
2. Select **Add item** and add `api.github.com`
3. Select **Save changes**.



## 3. Grant permissions to Workflows

Aside from permissions required by Workflows to run actions on your behalf, there are additional permissions required to use GitHub Connector actions.

To fine-tune permissions granted to Workflows

1. Go to **Workflows** and select **Settings > Authorization settings**.
2. Select the following permissions besides the general Workflows permission.
  - **app-settings:objects:read**

For security reasons, Dynatrace blocks outgoing traffic by default. Therefore, you need to add the URL to the [allow-list](#).

## 4. Authorize connection to GitHub

You need to configure connections for each of your GitHub environments.

To configure a connection

1. Create a personal access token for your GitHub account as described in [Managing your personal access tokens](#). We only support cloud-based GitHub plans such as GitHub Enterprise Cloud. GitHub Enterprise Server plans aren't supported.
2. Go to **Settings** and select **Connections > Connectors > GitHub**.
3. Select **Connection**.
4. Define your GitHub connection.
  - **Connection name**: Provide a meaningful and unique name for your connection.
  - **GitHub Type**: Select the type of authorization mechanism.
  - **GitHub token**: Provide your GitHub API token.
5. Select **Create**.



**create\_or\_replace\_file\_1** ↔ Change action

Creates or replaces a file

**Input**   Conditions   Options   Sample result

☐ Commit on a new branch  
☒ Commit on an existing branch

Branch\*

The existing branch you want to commit to.

**File details**

File path\*

The file path to a single file. A directory path is not supported. Existing files will be replaced.

File content\*  

1	This is change
---	----------------

The full content of the file. Content of existing files will be fully replaced.

**Commit details**

Commit message\*

Click Save.

### 3. Create a Pull Request

**Untitled workflow**   Save   Run   Executions   ⋮

**Workflow**

**create\_pull\_request\_1** ↔ Change action

Creates a pull request

**Input**   Conditions   Options   Sample result

**Repository details**

Owner\*

The account owner of the repository (private user or organization). The name is not case sensitive.

Repository\*

The repository without the .git extension. The name is not case sensitive.

**Branch details**

Source branch\*

The branch where the changes are implemented.

Target branch\*

The branch you want the changes pulled into.

**Pull request details**

Pull request title\*

Owner: **Sumanth17-git**

Repository: **jenkins-demo**

Branch Details:

Source Branch : **feature-branch**

Target Branch : **main**

Pull request title : Some title name

Pull request description : Add some description