GitLab – on premise Git setup

Table of Contents

Purpose of this document is to encourage all project team members to effectively use GitLab for source code control.

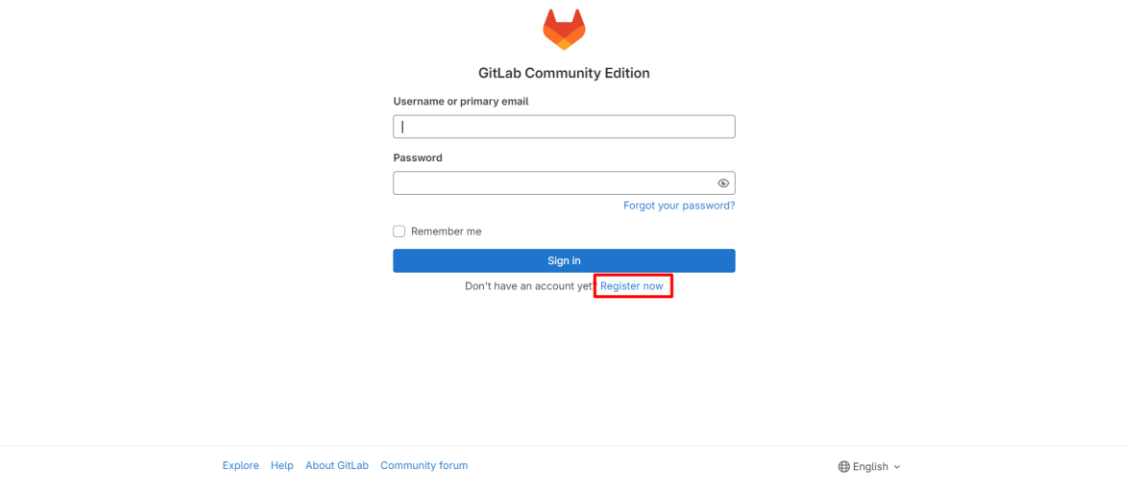
This document explains how to setup GitLab repo for a new project, it also explains how to migrate an existing repo from any other source control tools like Bonobo, Gogs, Bitbucket...etc to GitLab.

GitLab is default source code control tool when there are no preferences from clients.

GitLab Signup

1. Visit on premise GitLab setup @ https://gitlab.anasource.com
   Note: VPN access is required if accessing from outside office network.

2. Register using your TatvaSoft email id.



GitLab Community Edition

Username or primary email

Password

Forgot your password?

□ Remember me

Sign in

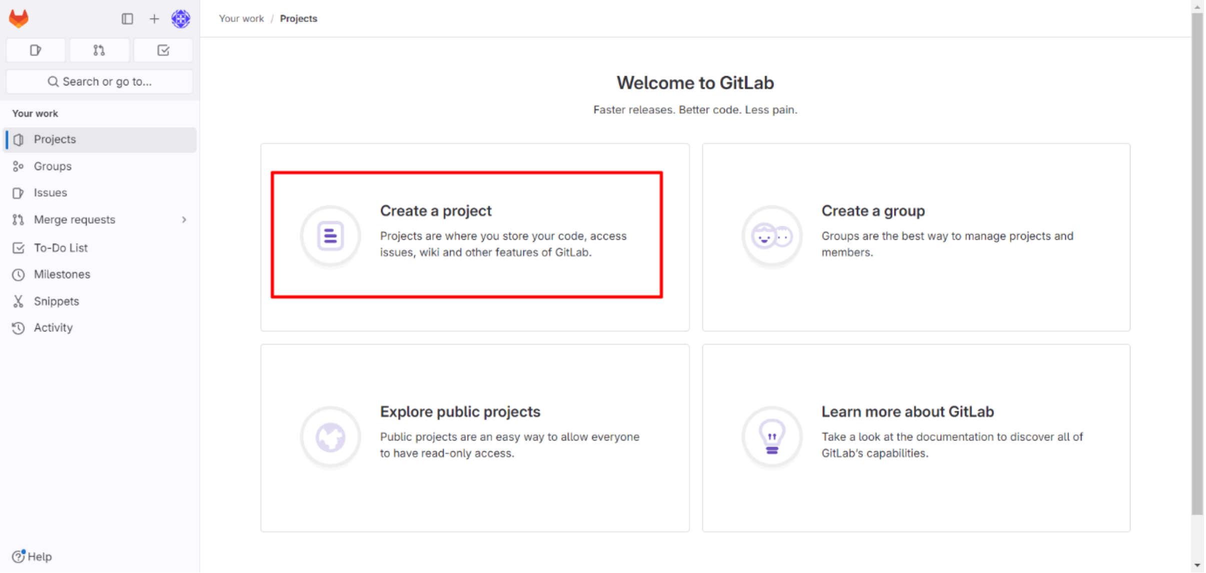
Don't have an account yet? Register now

Explore Help About GitLab Community forum English

3. After registration, you will receive account verification email on your registered email id.

4. Follow the instruction in email to activate your GitLab account.

5. Login with your GitLab credentials after email verification.
6. Create a project.



Your work / Projects

Search or go to...

Your work
- Projects
- Groups
- Issues
- Merge requests
- To-Do List
- Milestones
- Snippets
- Activity

Help

Welcome to GitLab

Faster releases. Better code. Less pain.

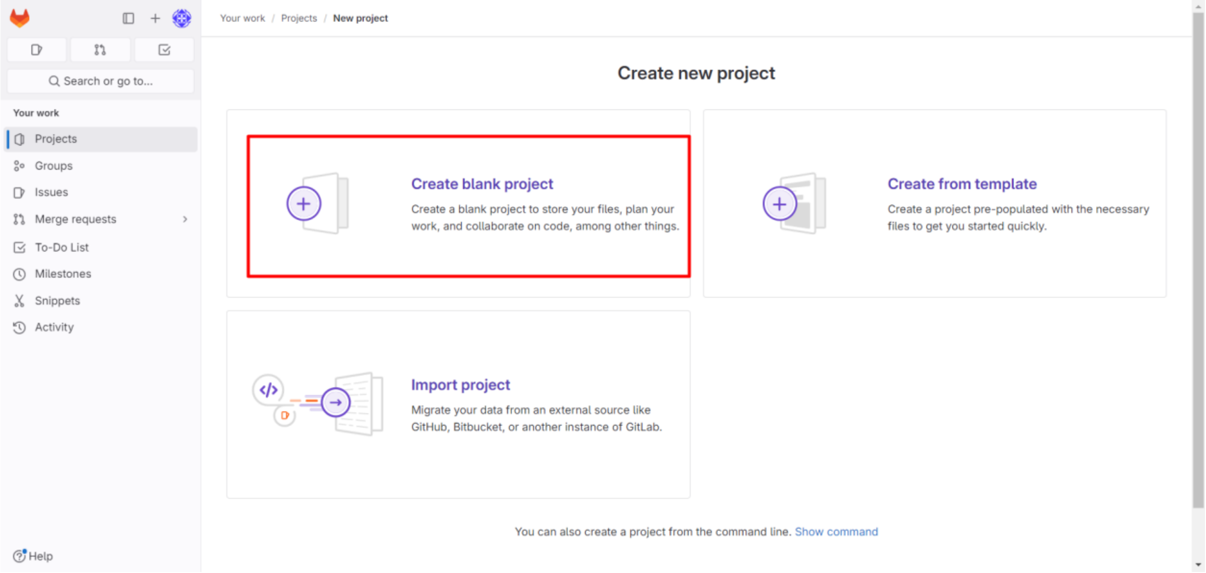
Create a project
Projects are where you store your code, access issues, wiki and other features of GitLab.

Create a group
Groups are the best way to manage projects and members.

Explore public projects
Public projects are an easy way to allow everyone to have read-only access.

Learn more about GitLab
Take a look at the documentation to discover all of GitLab's capabilities.

7. To create a new repository, select “**Create blank project**” option.



Your work / Projects / New project

Create new project

Create blank project
Create a blank project to store your files, plan your work, and collaborate on code, among other things.

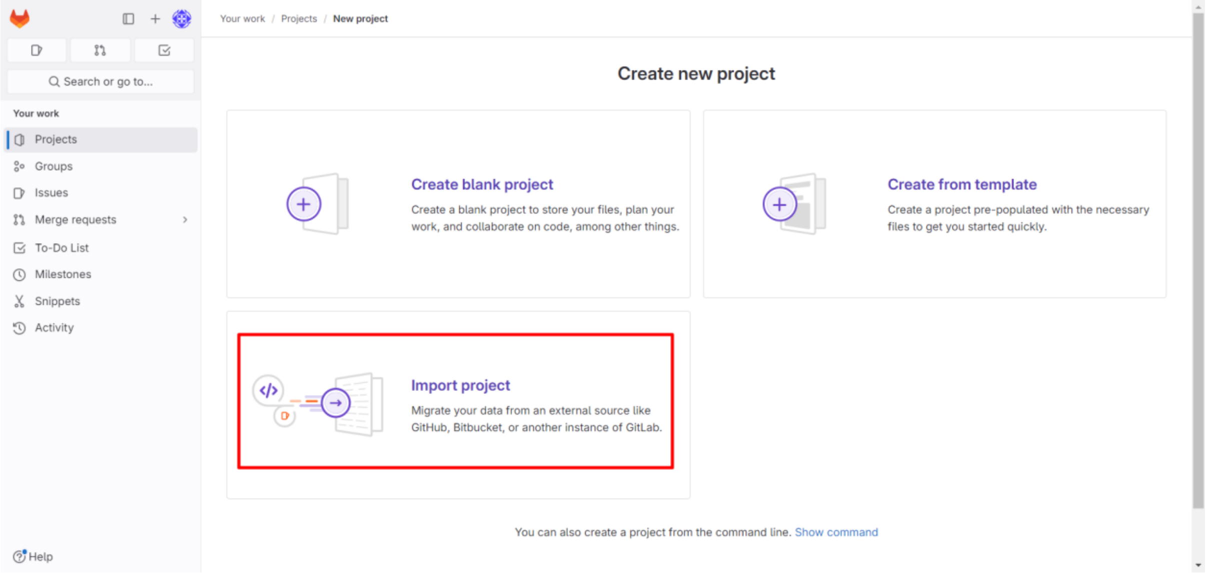
Create from template
Create a project pre-populated with the necessary files to get you started quickly.

Import project
Migrate your data from an external source like GitHub, Bitbucket, or another instance of GitLab.

You can also create a project from the command line. Show command

Migrate Repositories

1. To migrate existing repository from on premise Bonobo Git or Gogs Git server, select “**Import Project**” option.



Create new project

Create blank project

Create a blank project to store your files, plan your work, and collaborate on code, among other things.

Create from template

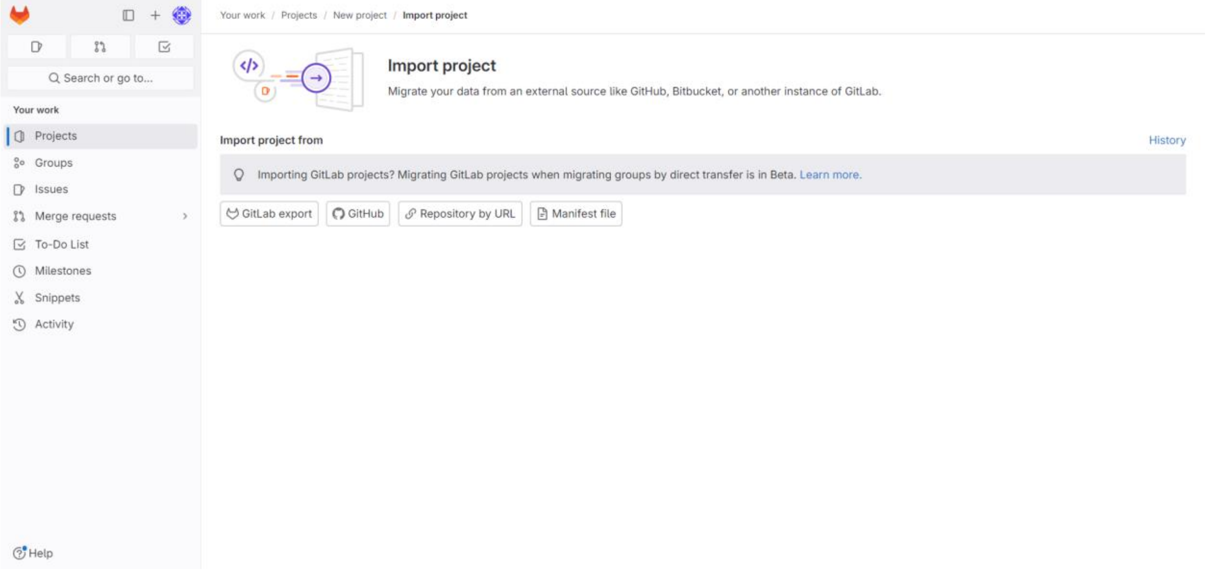
Create a project pre-populated with the necessary files to get you started quickly.

Import project

Migrate your data from an external source like GitHub, Bitbucket, or another instance of GitLab.

You can also create a project from the command line. Show command

2. You will get below screen after clicking on “Import project”.



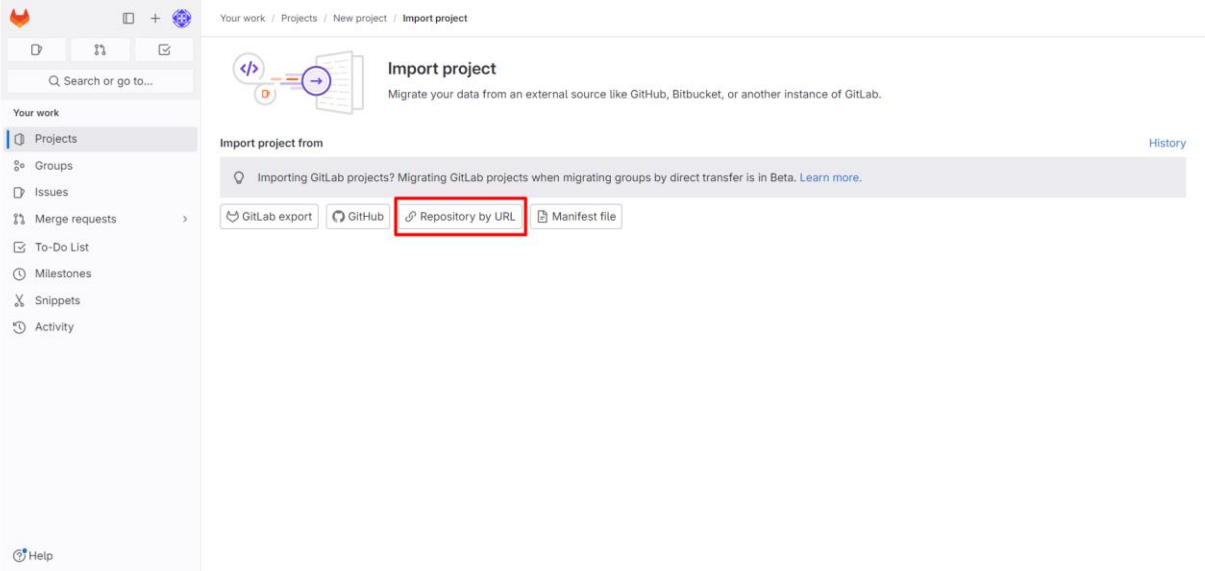
Import project

Migrate your data from an external source like GitHub, Bitbucket, or another instance of GitLab.

Import project from

Importing GitLab projects? Migrating GitLab projects when migrating groups by direct transfer is in Beta. Learn more.

3. To import repository from Bonobo Git or Gogs Git server, select “Repository by URL” option.



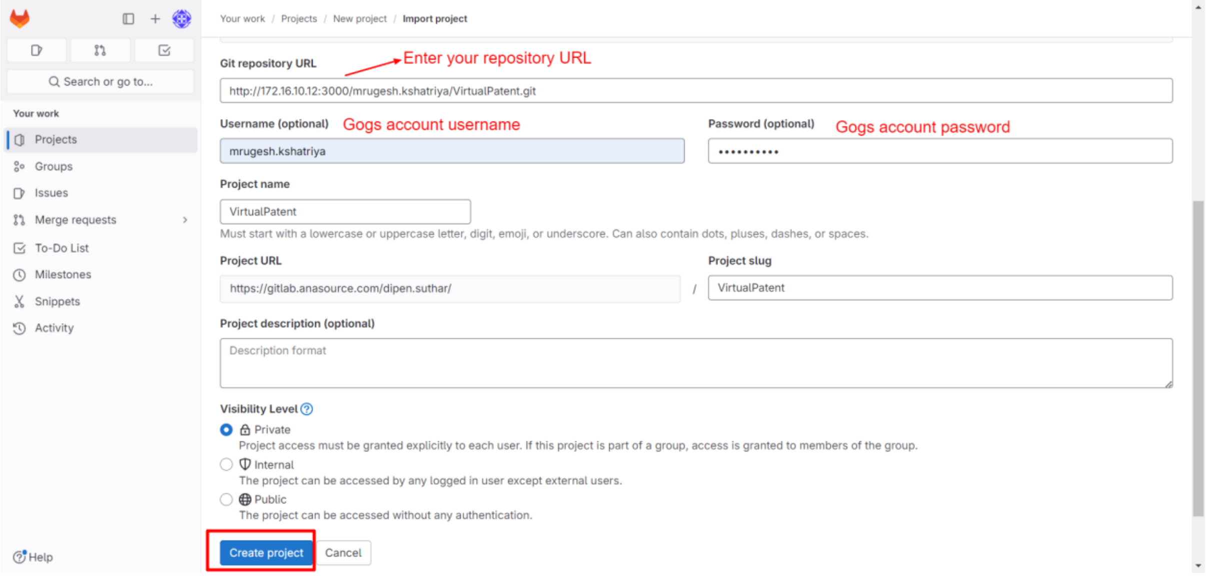
Import project

Migrate your data from an external source like GitHub, Bitbucket, or another instance of GitLab.

Import project from

Importing GitLab projects? Migrating GitLab projects when migrating groups by direct transfer is in Beta. Learn more.

4. Enter repository URL from Bonobo or Gogs Git.



Enter your repository URL

Gogs account username

Gogs account password

Git repository URL: http://172.16.10.12:3000/mrugesh.kshatriya/VirtualPatent.git

Username (optional): mrugesh.kshatriya

Password (optional): ••••••••••

Project name: VirtualPatent

Must start with a lowercase or uppercase letter, digit, emoji, or underscore. Can also contain dots, pluses, dashes, or spaces.

Project URL: https://gitlab.anasource.com/dipen.suthar/ / Project slug: VirtualPatent

Project description (optional): Description format

Visibility Level

● Private
Project access must be granted explicitly to each user. If this project is part of a group, access is granted to members of the group.

○ Internal
The project can be accessed by any logged in user except external users.

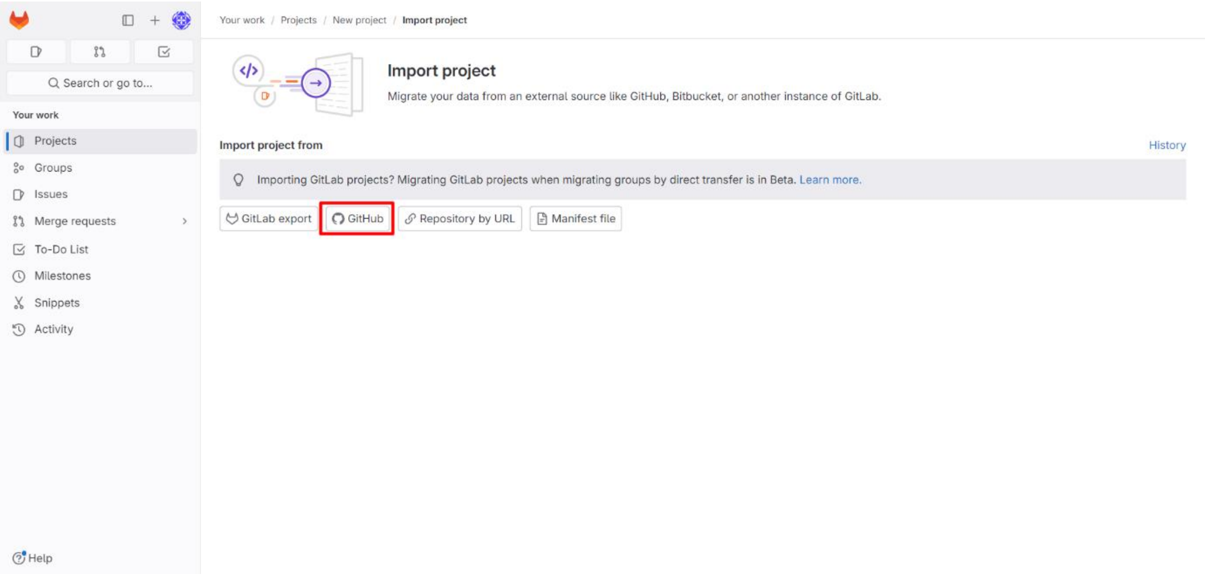
○ Public
The project can be accessed without any authentication.

Notes:

If your Gogs account’s password string contains **@** (special character) then you need to update your password and remove **@** from password before importing.

It might take some time to import project from Bonobo or Gogs server. Once its successfully imported, you will get repository in GitLab projects.

5. To import a project from GitHub, select Projects >> New Projects >> Import Project >> GitHub option.



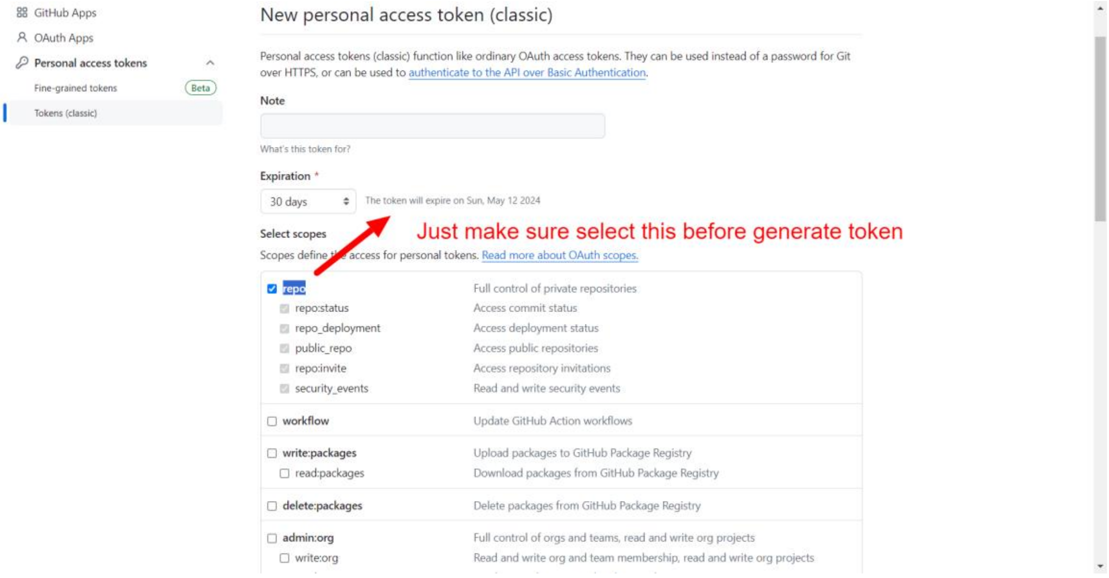
Import project

Migrate your data from an external source like GitHub, Bitbucket, or another instance of GitLab.

Import project from

Importing GitLab projects? Migrating GitLab projects when migrating groups by direct transfer is in Beta. Learn more.

6. First you need to Authenticate with GitHub and to get a **Personal Access Token** from https://github.com/settings/tokens/new



New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

Note

What's this token for?

Expiration *

30 days

The token will expire on Sun, May 12 2024

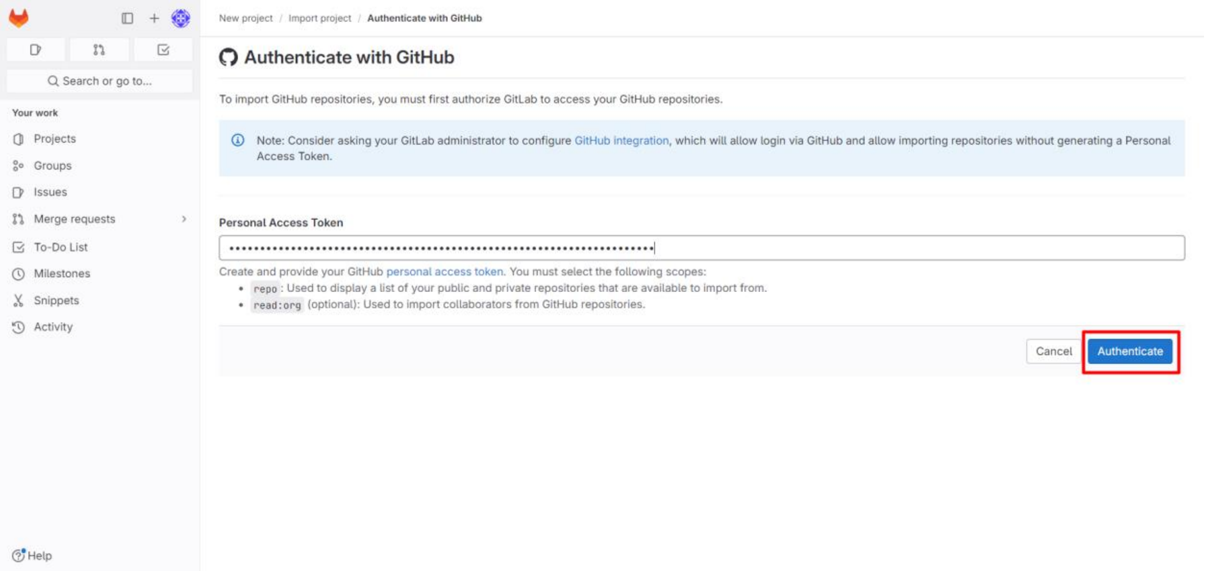
Select scopes

Just make sure select this before generate token

Scopes define the access for personal tokens. Read more about OAuth scopes.

☑ repo	Full control of private repositories
☑ repo:status	Access commit status
☑ repo_deployment	Access deployment status
☑ public_repo	Access public repositories
☑ repo:invite	Access repository invitations
☑ security_events	Read and write security events
□ workflow	Update GitHub Action workflows
□ write:packages	Upload packages to GitHub Package Registry
□ read:packages	Download packages from GitHub Package Registry
□ delete:packages	Delete packages from GitHub Package Registry
□ admin:org	Full control of orgs and teams, read and write org projects
□ write:org	Read and write org and team membership, read and write org projects

7. Add **Personal Access Token** from previous step in GitLab and click "Authenticate" button.



New project / Import project / Authenticate with GitHub

Authenticate with GitHub

To import GitHub repositories, you must first authorize GitLab to access your GitHub repositories.

Note: Consider asking your GitLab administrator to configure GitHub integration, which will allow login via GitHub and allow importing repositories without generating a Personal Access Token.

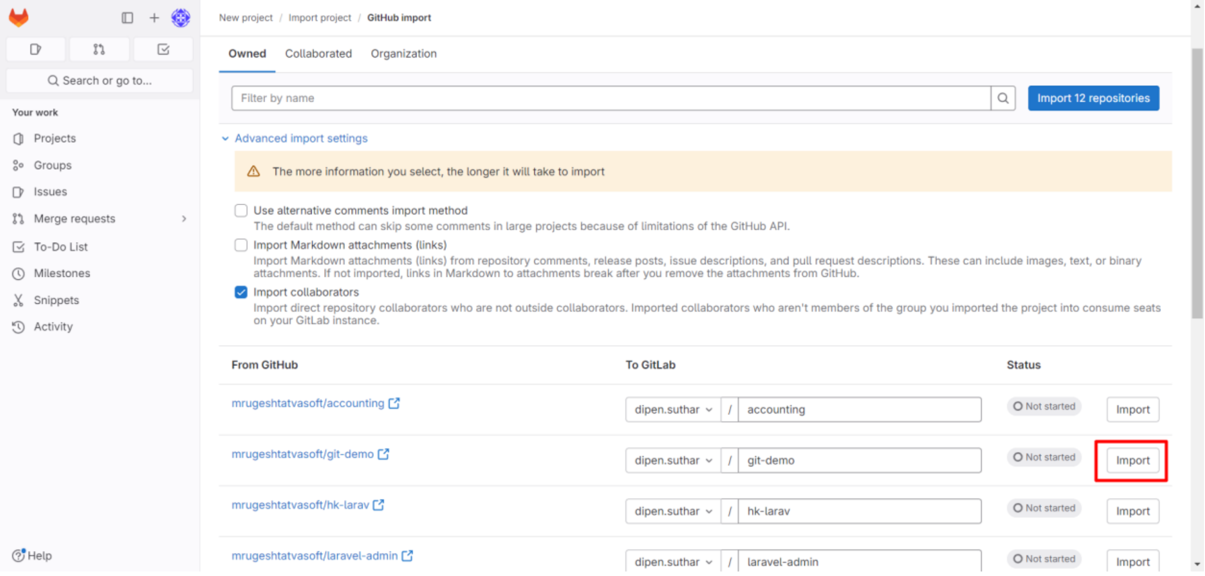
Personal Access Token

••

Create and provide your GitHub personal access token. You must select the following scopes:

- `repo`: Used to display a list of your public and private repositories that are available to import from.
- `read:org` (optional): Used to import collaborators from GitHub repositories.

8. Once successfully authenticated, you get a list of all GitHub repositories. From this list, you can import any repository to GitLab.



New project / Import project / GitHub import

The more information you select, the longer it will take to import

☐ Use alternative comments import method
The default method can skip some comments in large projects because of limitations of the GitHub API.

☐ Import Markdown attachments (links)
Import Markdown attachments (links) from repository comments, release posts, issue descriptions, and pull request descriptions. These can include images, text, or binary attachments. If not imported, links in Markdown to attachments break after you remove the attachments from GitHub.

☑ Import collaborators
Import direct repository collaborators who are not outside collaborators. Imported collaborators who aren't members of the group you imported the project into consume seats on your GitLab instance.

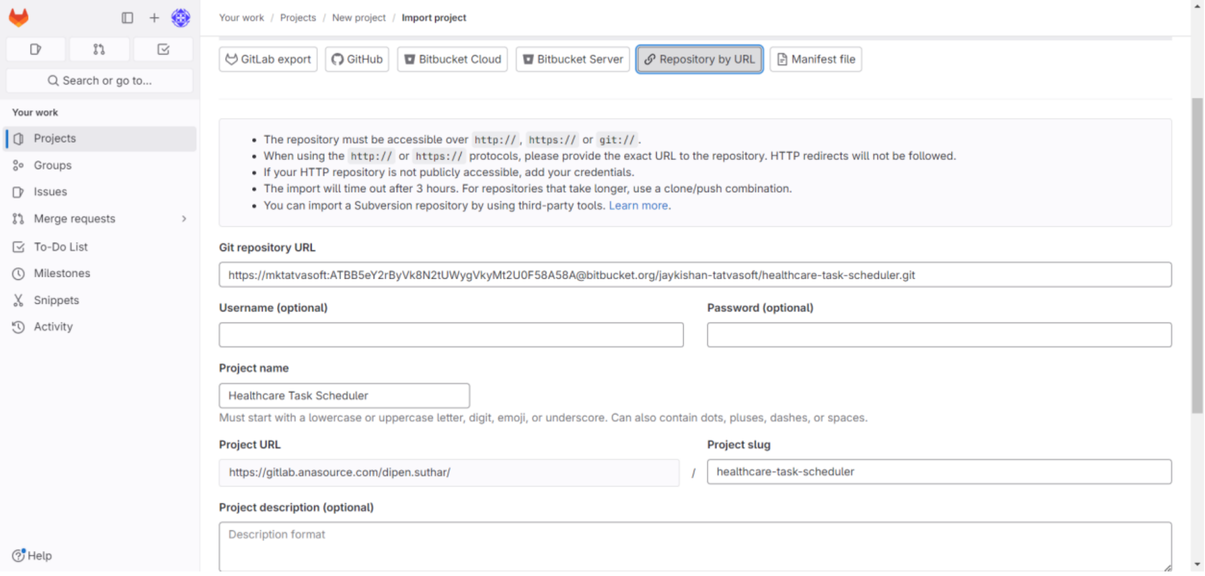
From GitHub	To GitLab	Status	
mrugeshtatvasoft/accounting	dipen.suthar / accounting	○ Not started	Import
mrugeshtatvasoft/git-demo	dipen.suthar / git-demo	○ Not started	Import
mrugeshtatvasoft/hk-larav	dipen.suthar / hk-larav	○ Not started	Import
mrugeshtatvasoft/laravel-admin	dipen.suthar / laravel-admin	○ Not started	Import

Note: Once a repository is successfully imported, you will get that repository listed in your projects.

9. To import a project from Bitbucket, select Projects >> New Projects >> Import Project >> Repository by URL option.

10. You need to enter Bitbucket repository URL as shown below.
    https://mktatvasoft:ATBB5eZ2rByVk8N2tUYyqVkyMt2U0F58A58A@bitbucket.org/jaykishan-tatvasoft/healthcare-task-scheduler.git

    https://**BITBUCKET_USERNAME**:**BITBUCKET_PASSWORD**@bitbucket.org/**BITBUCKET_REPOSITORY_URL**



- The repository must be accessible over `http://`, `https://` or `git://`.
- When using the `http://` or `https://` protocols, please provide the exact URL to the repository. HTTP redirects will not be followed.
- If your HTTP repository is not publicly accessible, add your credentials.
- The import will time out after 3 hours. For repositories that take longer, use a clone/push combination.
- You can import a Subversion repository by using third-party tools. Learn more.

Git repository URL: https://mktatvasoft:ATBB5eY2rByVk8N2tUWygVkyMt2U0F58A58A@bitbucket.org/jaykishan-tatvasoft/healthcare-task-scheduler.git

Username (optional):

Password (optional):

Project name: Healthcare Task Scheduler

Must start with a lowercase or uppercase letter, digit, emoji, or underscore. Can also contain dots, pluses, dashes, or spaces.

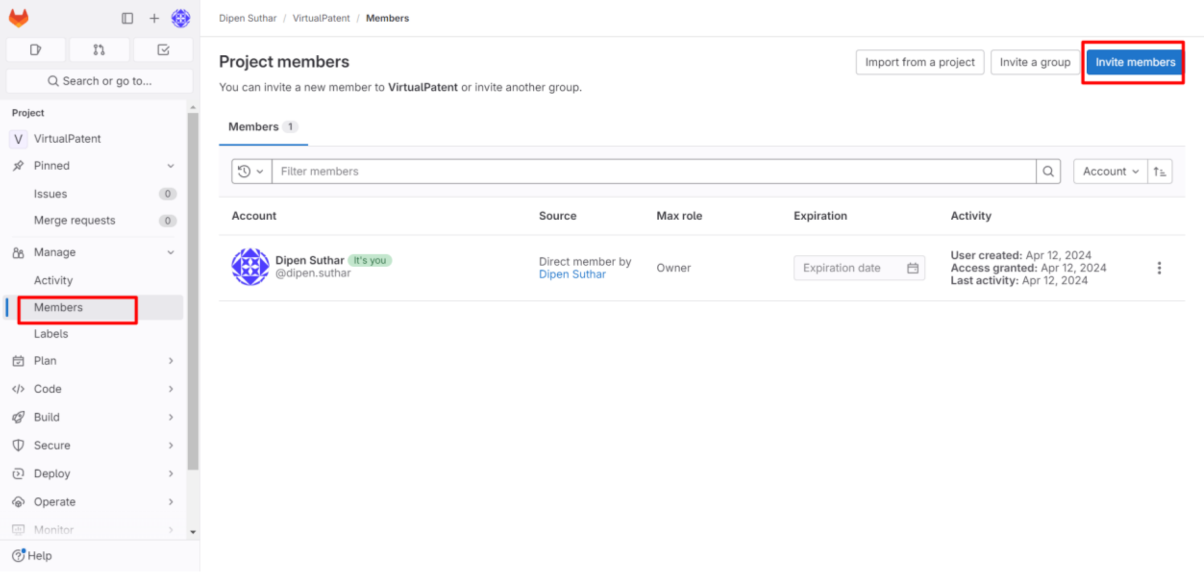
Project URL: https://gitlab.anasource.com/dipen.suthar/ / Project slug: healthcare-task-scheduler

Project description (optional): Description format

Note: You don't need to enter username and password.

Note: Once you click on **Create Project**, it will start importing your Bitbucket repository to GitLab.

11. To add members in your GitLab repository, select Manage >> Members and click on "Invite Members" button.

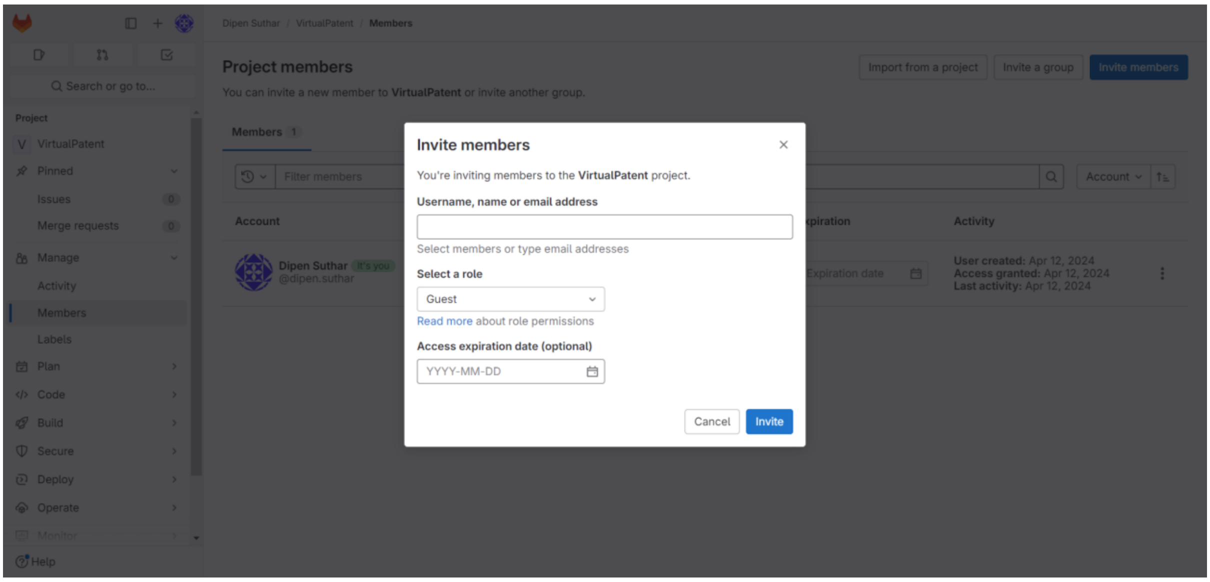


Project members

You can invite a new member to **VirtualPatent** or invite another group.

Account	Source	Max role	Expiration	Activity
Dipen Suthar It's you @dipen.suthar	Direct member by Dipen Suthar	Owner	Expiration date	**User created:** Apr 12, 2024 **Access granted:** Apr 12, 2024 **Last activity:** Apr 12, 2024

12. Search team members using TatvaSoft email id or username and invite them to project.



Project members

You can invite a new member to **VirtualPatent** or invite another group.

Dipen Suthar It's you
@dipen.suthar

User created: Apr 12, 2024
Access granted: Apr 12, 2024
Last activity: Apr 12, 2024

Invite members

You're inviting members to the **VirtualPatent** project.

Username, name or email address

Select members or type email addresses

Select a role

Guest

Read more about role permissions

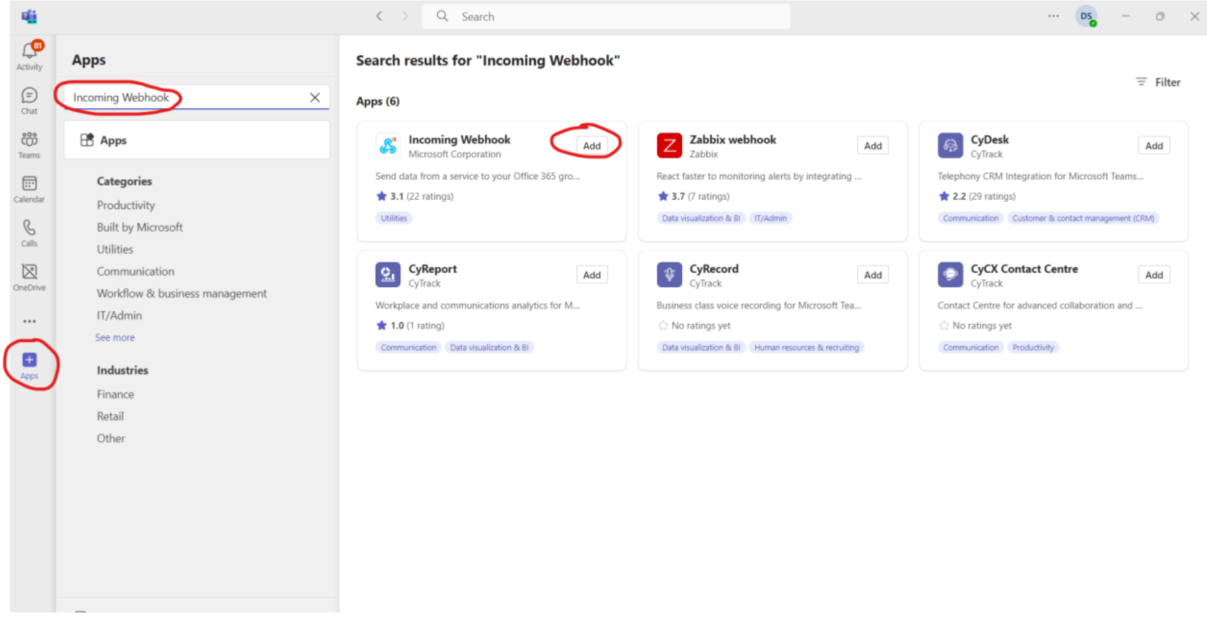
Access expiration date (optional)

YYYY-MM-DD

Configure Microsoft Teams

Configure Microsoft Teams to get notifications from GitLab. Only repository owner and Microsoft Teams/Channel owner needs to do such configuration, all other Teams/Channel members will start getting notifications with that owner's setup.

1. In Microsoft Teams, search incoming webhook under Apps, and select **Incoming Webhook**:



Search results for "Incoming Webhook"

Apps (6)

Incoming Webhook
Microsoft Corporation
Send data from a service to your Office 365 gro...
3.1 (22 ratings)
Utilities

Zabbix webhook
Zabbix
React faster to monitoring alerts by integrating ...
3.7 (7 ratings)
Data visualization & BI · IT/Admin

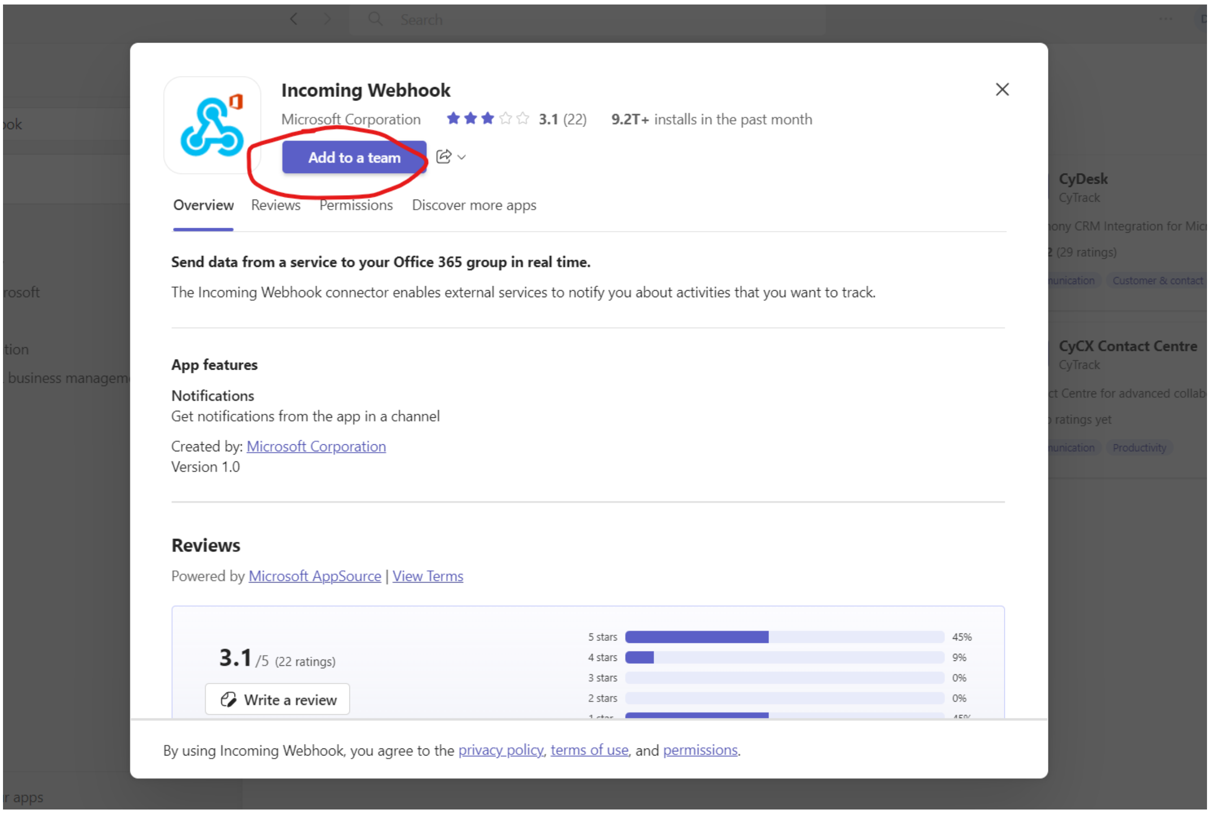
CyDesk
CyTrack
Telephony CRM Integration for Microsoft Teams...
2.2 (29 ratings)
Communication · Customer & contact management (CRM)

CyReport
CyTrack
Workplace and communications analytics for M...
1.0 (1 rating)
Communication · Data visualization & BI

CyRecord
CyTrack
Business class voice recording for Microsoft Tea...
No ratings yet
Data visualization & BI · Human resources & recruiting

CyCX Contact Centre
CyTrack
Contact Centre for advanced collaboration and ...
No ratings yet
Communication · Productivity

2. Select **Add to a team** and specify Microsoft Teams/Channel that you want to add notifications to.



Incoming Webhook
Microsoft Corporation 3.1 (22) 9.2T+ installs in the past month

Send data from a service to your Office 365 group in real time.

The Incoming Webhook connector enables external services to notify you about activities that you want to track.

App features

Notifications
Get notifications from the app in a channel

Created by: Microsoft Corporation
Version 1.0

Reviews

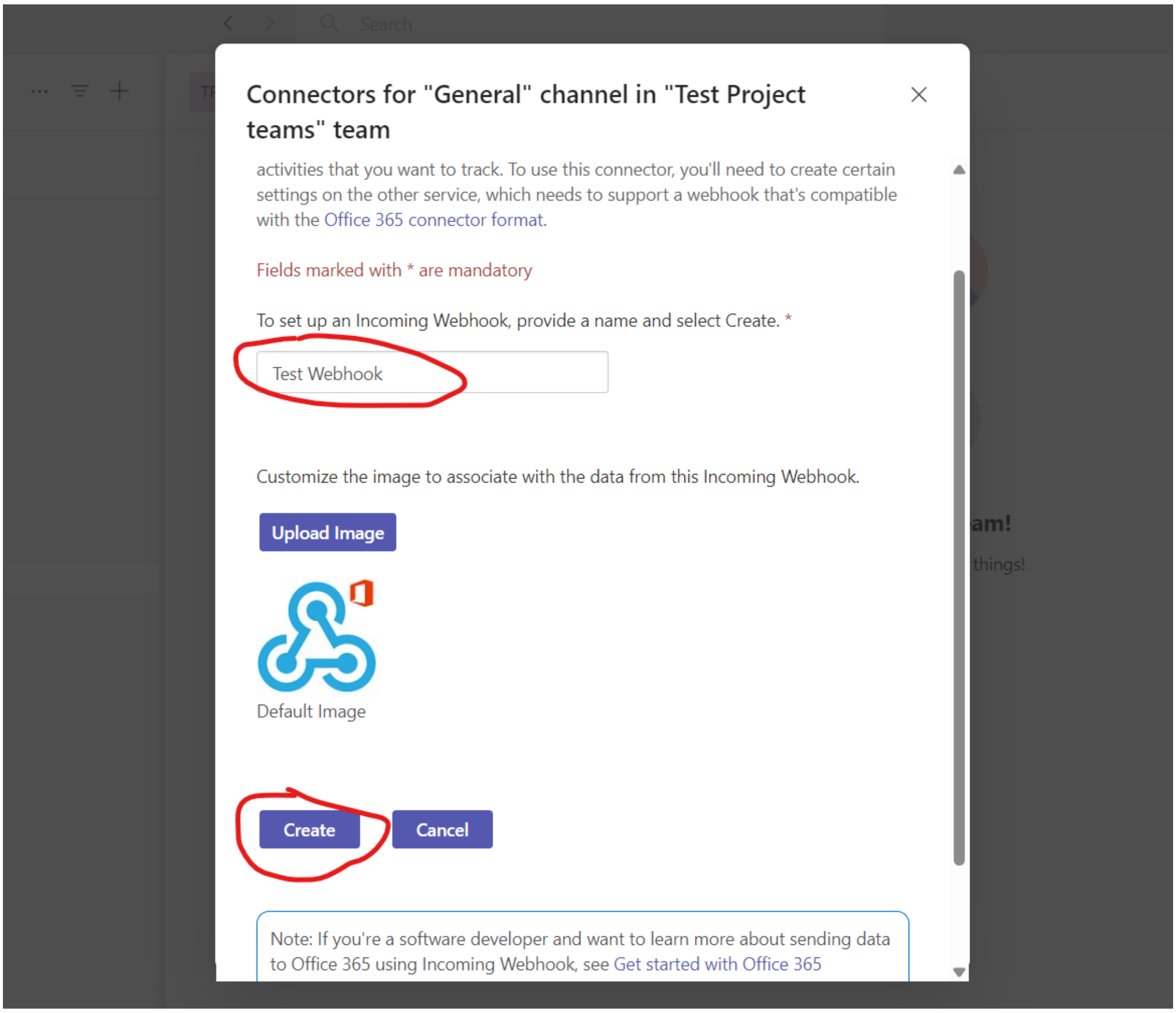
Powered by Microsoft AppSource | View Terms

3.1 /5 (22 ratings)

5 stars	45%
4 stars	9%
3 stars	0%
2 stars	0%

By using Incoming Webhook, you agree to the privacy policy, terms of use, and permissions.

3. Add a name for the webhook. The name is displayed next to every notification that comes in through the webhook.



Connectors for "General" channel in "Test Project teams" team

activities that you want to track. To use this connector, you'll need to create certain settings on the other service, which needs to support a webhook that's compatible with the Office 365 connector format.

Fields marked with * are mandatory

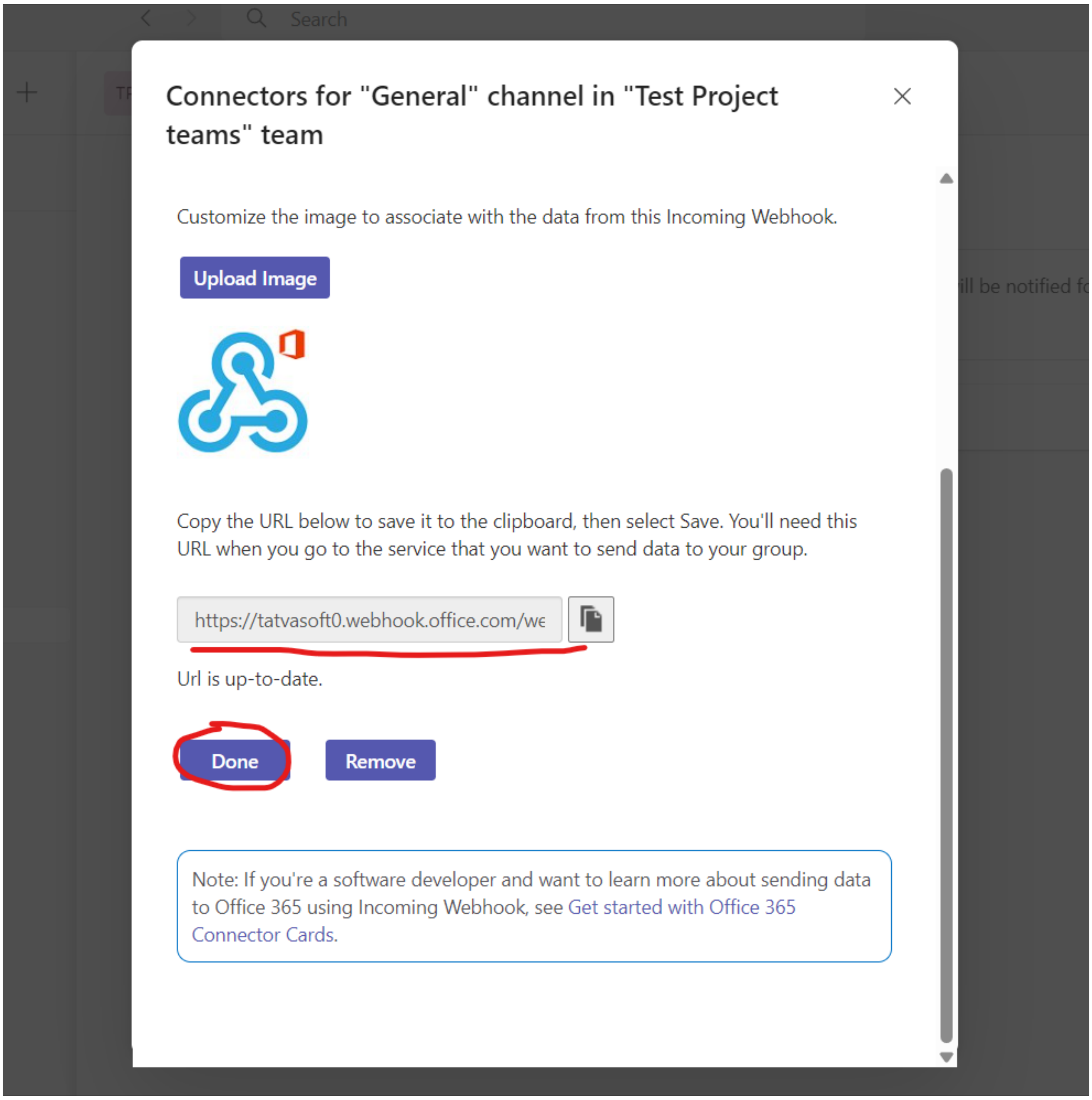
To set up an Incoming Webhook, provide a name and select Create. *

Test Webhook

Customize the image to associate with the data from this Incoming Webhook.

Note: If you're a software developer and want to learn more about sending data to Office 365 using Incoming Webhook, see Get started with Office 365

4. Copy the webhook URL, as you need it to configure GitLab.



Connectors for "General" channel in "Test Project teams" team

Customize the image to associate with the data from this Incoming Webhook.

Copy the URL below to save it to the clipboard, then select Save. You'll need this URL when you go to the service that you want to send data to your group.

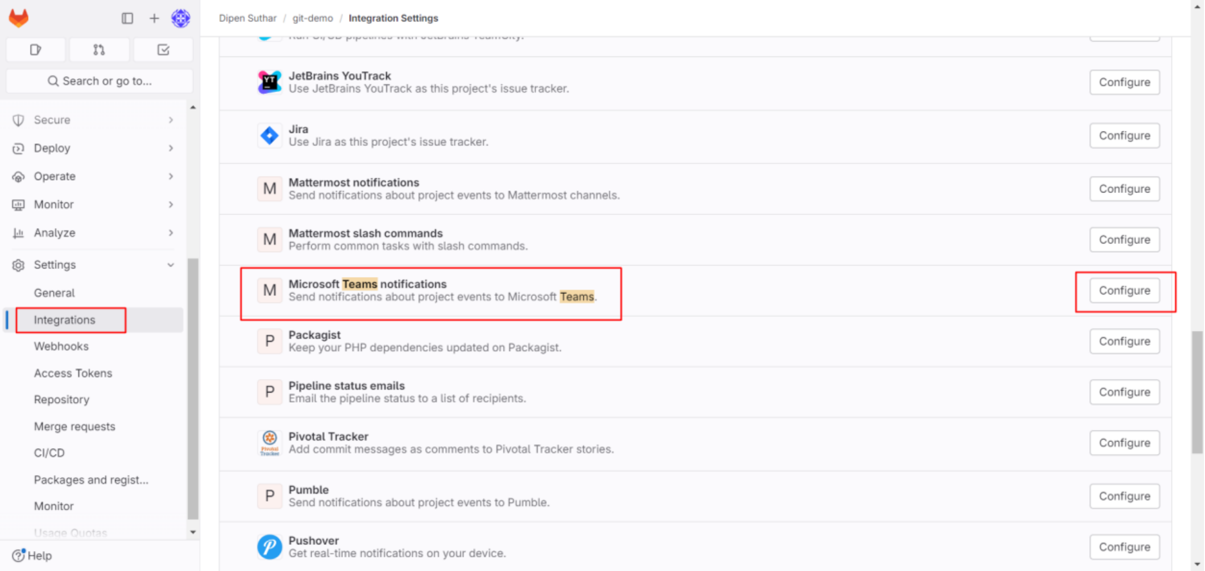
https://tatvasoft0.webhook.office.com/we

Url is up-to-date.

Note: If you're a software developer and want to learn more about sending data to Office 365 using Incoming Webhook, see Get started with Office 365 Connector Cards.

Note: After you configure Microsoft Teams to receive notifications, you need to configure GitLab to send the notifications.

5. Sign in to GitLab and find your project using search, then select Settings >> Integrations >> Select Microsoft Teams notifications option.



Dipen Suthar / git-demo / Integration Settings

JetBrains YouTrack
Use JetBrains YouTrack as this project's issue tracker. Configure

Jira
Use Jira as this project's issue tracker. Configure

Mattermost notifications
Send notifications about project events to Mattermost channels. Configure

Mattermost slash commands
Perform common tasks with slash commands. Configure

Microsoft Teams notifications
Send notifications about project events to Microsoft Teams. Configure

Packagist
Keep your PHP dependencies updated on Packagist. Configure

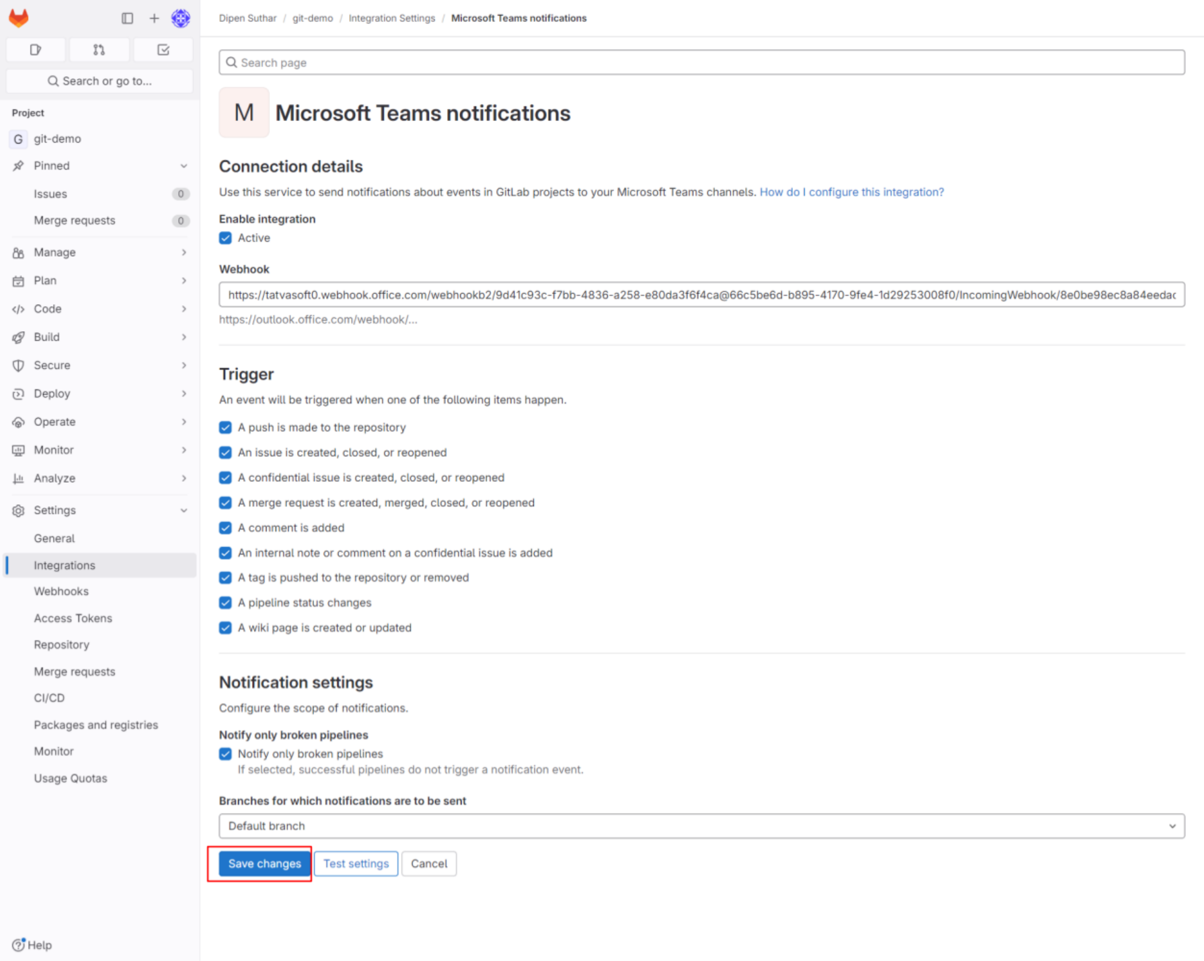
Pipeline status emails
Email the pipeline status to a list of recipients. Configure

Pivotal Tracker
Add commit messages as comments to Pivotal Tracker stories. Configure

Pumble
Send notifications about project events to Pumble. Configure

Pushover
Get real-time notifications on your device. Configure

6. To enable the integration, tick Active checkbox. In Webhook, paste the URL you copied when you configured Microsoft Teams. In the Trigger section, select appropriate evens to enable it as per your requirements. Make sure to review details and **Save Changes.**



Dipen Suthar / git-demo / Integration Settings / Microsoft Teams notifications

M Microsoft Teams notifications

Connection details

Use this service to send notifications about events in GitLab projects to your Microsoft Teams channels. How do I configure this integration?

Enable integration
☑ Active

Webhook
https://tatvasoft0.webhook.office.com/webhookb2/9d41c93c-f7bb-4836-a258-e80da3f6f4ca@66c5be6d-b895-4170-9fe4-1d29253008f0/IncomingWebhook/8e0be98ec8a84eedac
https://outlook.office.com/webhook/...

Trigger

An event will be triggered when one of the following items happen.

☑ A push is made to the repository
☑ An issue is created, closed, or reopened
☑ A confidential issue is created, closed, or reopened
☑ A merge request is created, merged, closed, or reopened
☑ A comment is added
☑ An internal note or comment on a confidential issue is added
☑ A tag is pushed to the repository or removed
☑ A pipeline status changes
☑ A wiki page is created or updated

Notification settings

Configure the scope of notifications.

Notify only broken pipelines
☑ Notify only broken pipelines
If selected, successful pipelines do not trigger a notification event.

Branches for which notifications are to be sent
Default branch

Save changes | Test settings | Cancel