

GitLab CI - Configuring Gitlab Runners

Description

GitLab runner is a build instance which is used to run the jobs over multiple machines and send the results to GitLab and which can be placed on separate users, servers, and local machine. You can register the runner as shared or specific after installing it. The installation of runner is explained in the GitLab Installation chapter.

You can serve your jobs by using either specific or shared runners.

Shared Runners

These runners are useful for jobs multiple projects which have similar requirements. Instead of using multiple runners for many projects, you can use a single or a small number of Runners to handle multiple projects which will be easy to maintain and update.

Specific Runners

These runners are useful to deploy a certain project, if jobs have certain requirements or specific demand for the projects. Specific runners use *FIFO* (First In First Out) process for organizing the data with first-come first-served basis.

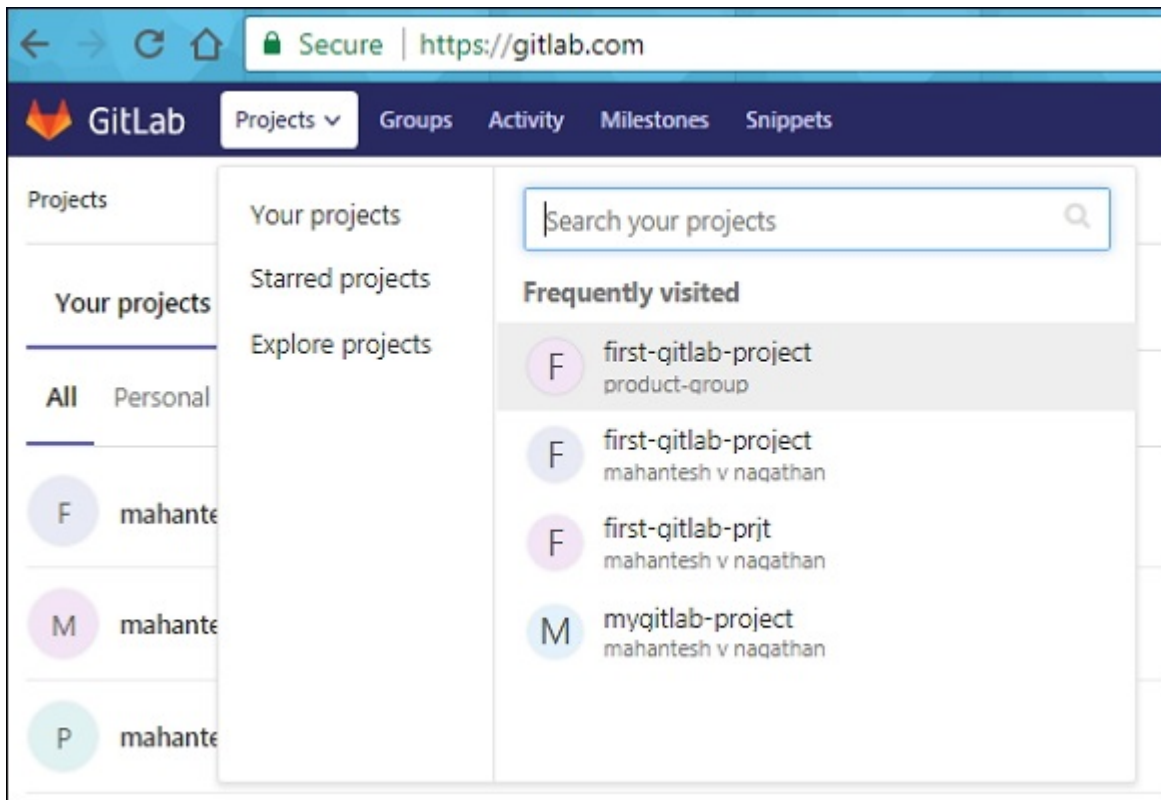
You can register a specific runner by using project registration token. The registering a specific runner is explained in the GitLab Installation chapter from step 1 to 12 under the *Installation of GitLab on Windows* section.

Locking a specific Runner

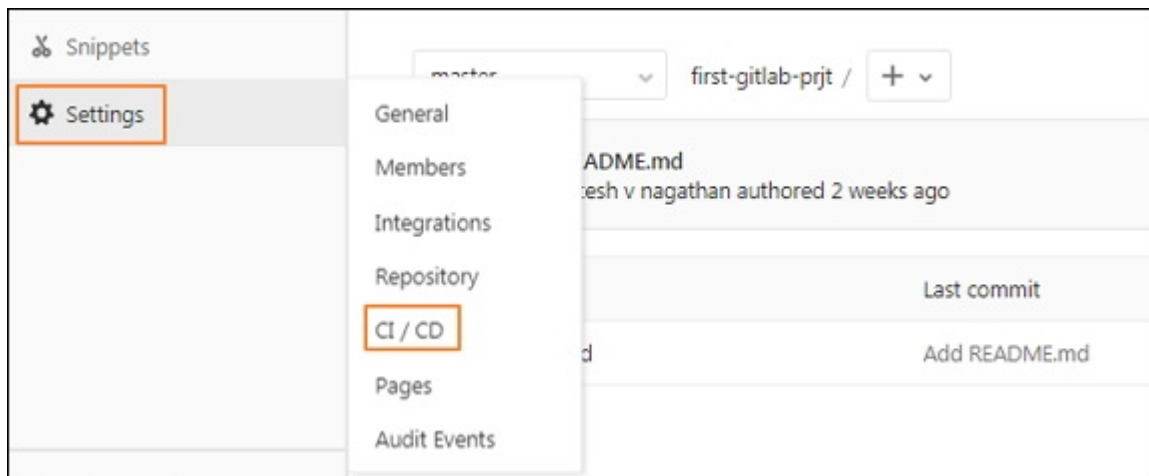
You can lock a specific runner from being enabled for other projects. To do this, you need to register a runner which is explained in the GitLab Installation chapter from step 1 to 12 under the *Installation of GitLab on Windows* section.

To lock runner, execute the below steps –

Step 1 – Login to your GitLab account and go to your project –



Step 2 – Click on the CI/CD option under Settings tab and expand the Runners Settings option. –



Step 3 – Under Runners Settings section, you will see the activated Runners for the project –

CI / CD

Wiki

Snippets




Settings

- General
- Members
- Integrations
- Repository
- CI / CD
- Pages
- Audit Events

Setup a specific Runner manually

1. Install a Runner compatible with GitLab CI (checkout the [GitLab Runner section](#) for information on how to install it).
2. Specify the following URL during the Runner setup:
`https://gitlab.com/`
3. Use the following registration token during setup:
`Pv8JG86a42dnNm_1CHFM`
4. Start the Runner!

Runners activated for this project

 7f7fd019  	Pause Remove Runner
Hello GitLab Runner	#331172

Step 4 – Now click on the pencil button –

CI / CD

Wiki

Snippets




Settings

- General
- Members
- Integrations
- Repository
- CI / CD
- Pages
- Audit Events

Setup a specific Runner manually

1. Install a Runner compatible with GitLab CI (checkout the [GitLab Runner section](#) for information on how to install it).
2. Specify the following URL during the Runner setup:
`https://gitlab.com/`
3. Use the following registration token during setup:
`Pv8JG86a42dnNm_1CHFM`
4. Start the Runner!

Runners activated for this project

 7f7fd019  	Pause Remove Runner
Hello GitLab Runner	#331172

Step 5 – Next it will open the Runner screen and check the *Lock to current projects* option –

Overview

Repository

Registry

Issues2

Merge Requests1

CI / CD

Wiki

Snippets

Settings

Runner #331172

Active ☒ Paused Runners don't accept new jobs

Protected ☐ This runner will only run on pipelines triggered on protected branches

Run untagged jobs ☒ Indicates whether this runner can pick jobs without tags

Lock to current projects ☒ When a runner is locked, it cannot be assigned to other projects

Token7f7fd0191ba41238c3f6c416197a92

IP Address117.244.11.122

DescriptionHello GitLab Runner

Tags

You can setup jobs to only use Runners with specific tags. Separate tags with commas.

Save changes

Click on the *Save changes* button to take the changes effect.

Step 6 – After saving the changes, it will update the Runner successfully.

Overview

Repository

Registry

Issues2

Merge Requests1

CI / CD

Wiki

Snippets

Settings

Runner was successfully updated.

Runner #331172

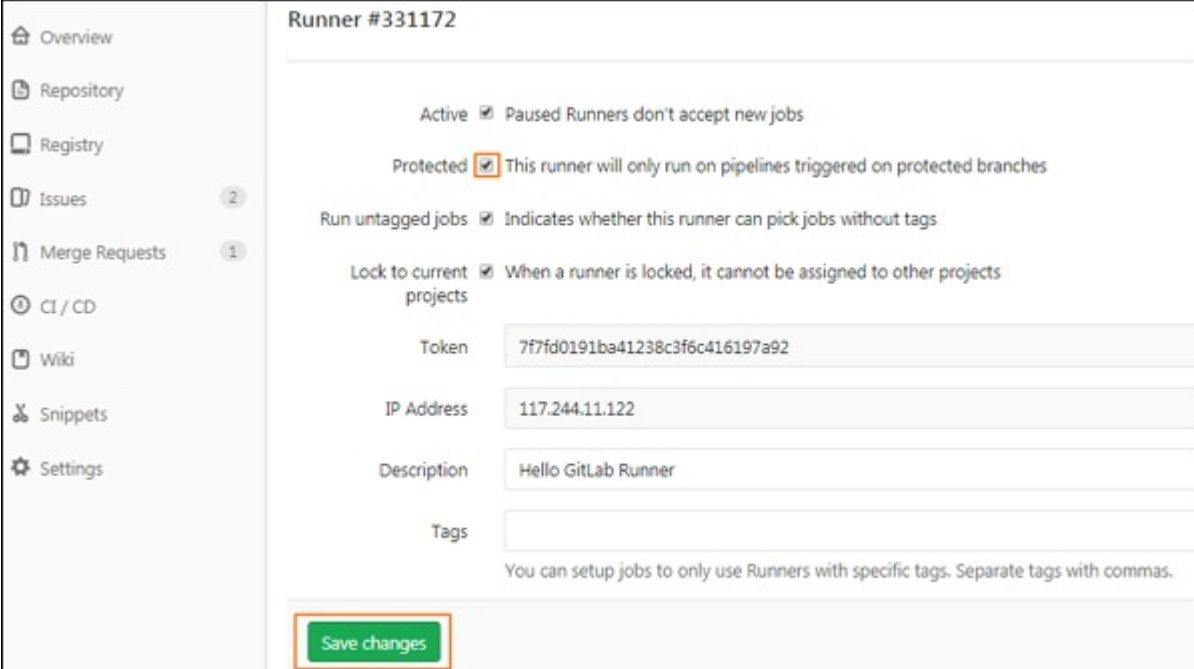
Property Name	Value
Active	Yes
Protected	No
Can run untagged jobs	Yes
Locked to this project	Yes
Tags	
Name	gitlab-runner
Version	10.4.0
IP Address	117.244.11.122
Revision	857480b6
Platform	windows
Architecture	386
Description	Hello GitLab Runner
Last contact	Never

Protected Runners

The runners can be protected to save the important information. You can protect the runner by using below steps –

Step 1 – Follow the same steps (from step 1 to 4) which are explained in the previous section (Locking a specific Runner).

Step 2 – After clicking on the pencil button, it will open the Runner screen and then check the *Protected* option –



The screenshot shows the GitLab Runner configuration interface for a specific runner, identified as 'Runner #331172'. On the left is a sidebar with navigation links: Overview, Repository, Registry, Issues (with a '2' badge), Merge Requests (with a '1' badge), CI / CD, Wiki, Snippets, and Settings. The main content area displays various configuration options for the runner, each with a checkbox and a descriptive text:

- Active** ☒ Paused Runners don't accept new jobs
- Protected** ☒ This runner will only run on pipelines triggered on protected branches
- Run untagged jobs** ☒ Indicates whether this runner can pick jobs without tags
- Lock to current projects** ☒ When a runner is locked, it cannot be assigned to other projects

Below these options are input fields for:

- Token**: 7f7fd0191ba41238c3f6c416197a92
- IP Address**: 117.244.11.122
- Description**: Hello GitLab Runner
- Tags**: (empty field)

A note at the bottom of the tags section states: 'You can setup jobs to only use Runners with specific tags. Separate tags with commas.'

At the bottom of the configuration area, there is a green button labeled 'Save changes', which is highlighted with a red rectangular box.

Click on the *Save changes* button to take the changes effect.

Run untagged Jobs

You can prevent runners from picking jobs with tags when there are no tags assigned to runners. Runner can pick tagged/untagged jobs by using below steps –

Step 1 – Follow the same steps (from step 1 to 4) which are explained in the *Locking a specific Runner* section.

Step 2 – After clicking on the pencil button, it will open the Runner screen and then check the *Run untagged jobs* option –

Overview

Repository

Registry

Issues2

Merge Requests1

CI / CD

Wiki

Snippets

Settings

Runner #331172

Active☒ Paused Runners don't accept new jobs

Protected☐ This runner will only run on pipelines triggered on protected branches

Run untagged jobs☒ Indicates whether this runner can pick jobs without tags

Lock to current projects☒ When a runner is locked, it cannot be assigned to other projects

Token7f7fd0191ba41238c3f6c416197a92

IP Address117.244.11.122

DescriptionHello GitLab Runner

Tags

You can setup jobs to only use Runners with specific tags. Separate tags with commas.

Save changes

Click on the *Save changes* button to take the changes effect.