



Automated DevOps
Lab steps



Plan Stage

Project Management - Lab 1

Lab Assignment

Part 1

Scenario: Create a project structure and views

Key Tasks to Complete

1. Create a Group
2. Create a Project
3. Create Project Milestone
4. Create at least 3 labels
5. Create at least 2 project issues.
6. Create New Board
7. Modify board scoping



Create subgroup





From your workshop group:

1. Select the 'New subgroup' button.

Training Users > ... > My Test Group - iugyed6r

**My Test Group - iugyed6r** 
Group ID: 1049 [Leave group](#)

  **New subgroup** **New project**

Recent activity
Last 90 days

Merge Requests opened
0

Issues opened
0

Members added
2

Subgroups and projects [Shared projects](#) [Archived projects](#)

Create subgroup cont.



From the Create group page:

- Select the **'Create group'** panel.



Create new group



Create group

Assemble related projects together and grant members access to several projects at once.



Import group

Export groups with all their related data and move to a new GitLab instance.

Enter subgroup details

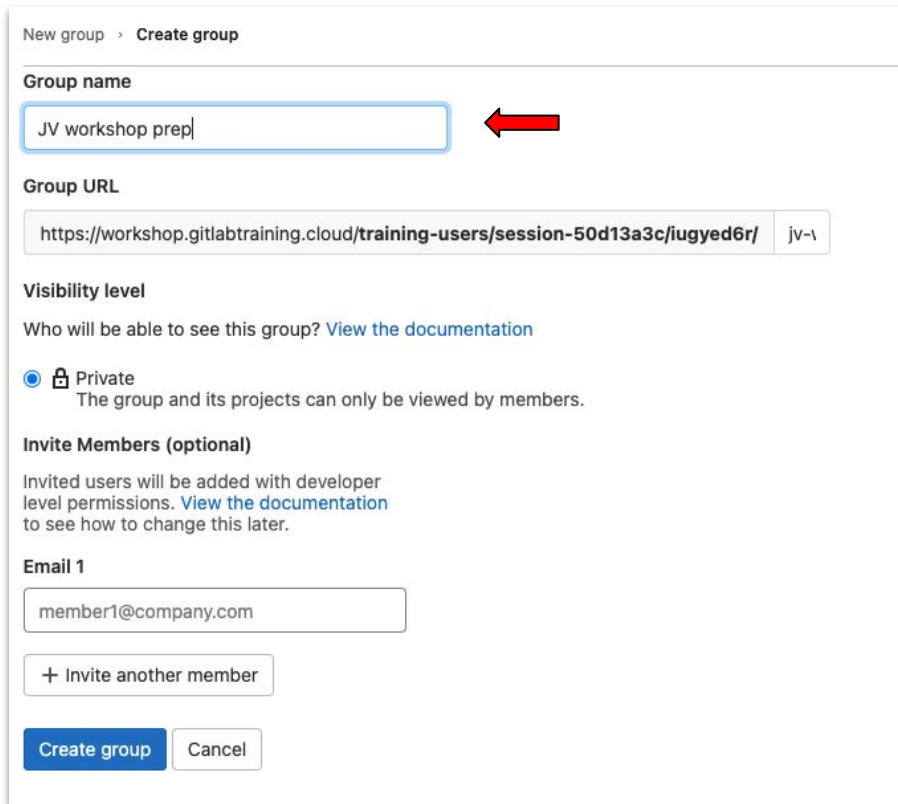


From the Create group tab:

- Enter desired subgroup name in the '**Group name**' field.
- Select the '**Create group**' button.

FYI:

- Do not edit Group URL field.



New group > Create group

Group name

JV workshop prep

Group URL

<https://workshop.gitlabtraining.cloud/training-users/session-50d13a3c/iugyed6r/> jv-v

Visibility level

Who will be able to see this group? [View the documentation](#)

☒ Private
The group and its projects can only be viewed by members.

Invite Members (optional)

Invited users will be added with developer level permissions. [View the documentation](#) to see how to change this later.

Email 1

member1@company.com

+ Invite another member

Create group Cancel

Create project



From your workshop subgroup:

1. Select the 'New project' button.

Training Users > ... > JV workshop prep

Group 'JV workshop prep' was successfully created.

J

JV workshop prep

Group ID: 1050 [Leave group](#)

New subgroup

New project

Recent activity
Last 90 days

Merge Requests opened
0

Issues opened
0

Members added
1

Subgroups and projects

Shared projects

Archived projects

Search by name

Name


Create blank project



In the 'Create new project' page:


1. Select 'Create blank project' quadrant.

Create new project




Create blank project

Create a blank project to house 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.



Run CI/CD for external repository

Connect your external repository to GitLab CI/CD.

You can also create a project from the command line. [Show command](#)

Enter project details



In the Create blank project page:

1. Enter desired project name in the '**Project name**' field.
2. Enter a brief project description in the '**Project description**' (optional) field.
3. Select the **Initialize repository with README** checkbox so it is enabled.
4. Select the '**Create project**' button.

FYI:

- Do not edit Project slug field.

New project › Create blank project

Project name

JV workshop project

Project URL

https://workshop.gitlabtraining.cl training-users/session-50d... ▼

Project slug

jv-workshop-project

Project description (optional)

This project is for a workshop

Visibility Level ⓘ

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

☒ **Initialize repository with a README**
Allows you to immediately clone this project's repository. Skip this if you plan to push up an existing repository.

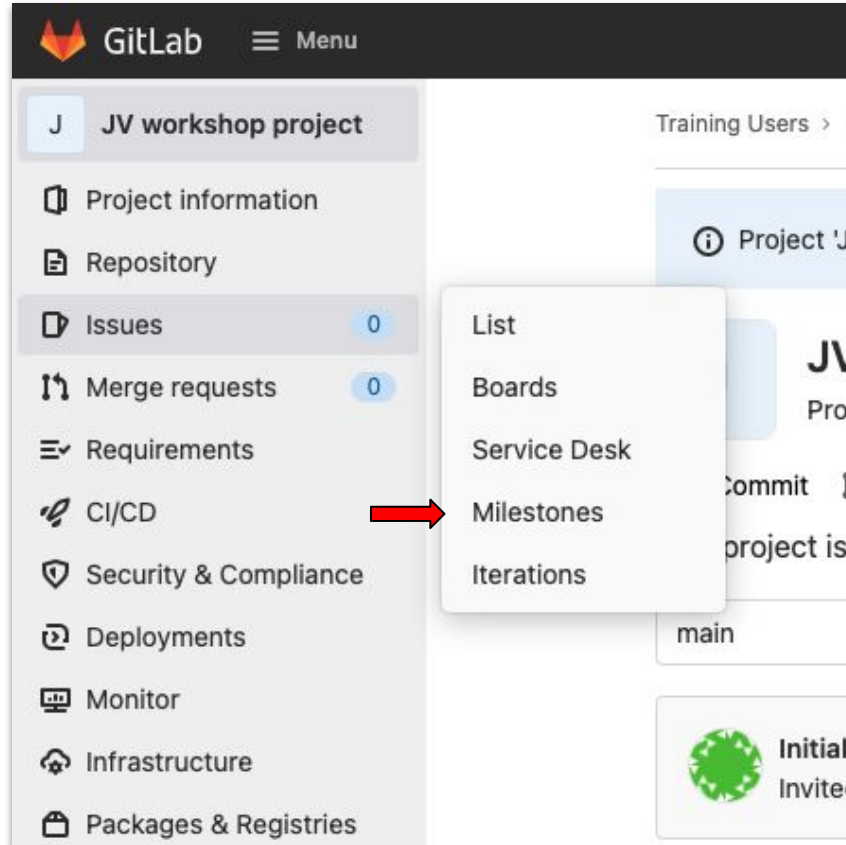
Create project Cancel

Access project milestones



In the project repository:

1. Select 'Issues→Milestones'.

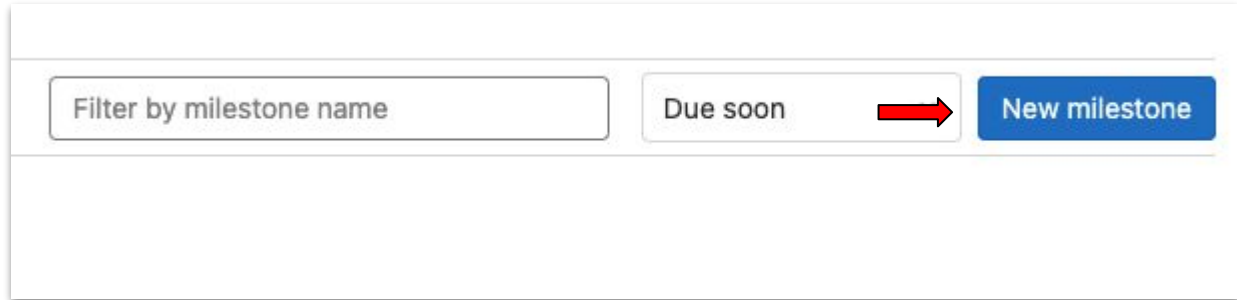


Create new project milestone A



In the project Milestone view:

1. No Milestones will be listed.
2. Select the **'New milestone'** button.

A screenshot of the 'Project Milestone view' interface. It features a search bar labeled 'Filter by milestone name', a 'Due soon' button with a red arrow pointing to it, and a blue 'New milestone' button.

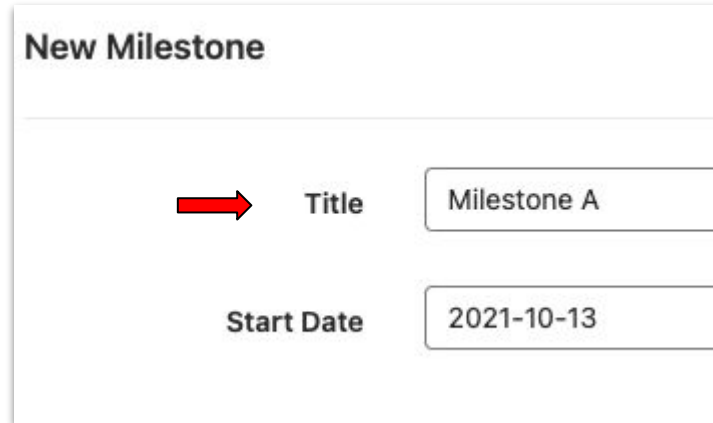
Filter by milestone name

Due soon

New milestone

In the New Milestone page:

1. Enter a milestone title into the **'Title'** field.

A screenshot of the 'New Milestone' page. It shows two input fields: 'Title' with the value 'Milestone A' and 'Start Date' with the value '2021-10-13'. A red arrow points to the 'Title' field.

New Milestone

Title

Milestone A

Start Date

2021-10-13

Enter project milestone A start and due dates



In the New Milestone page:

1. Enter a brief milestone description into the **'Description'** field.

Enter a Start Date.

1. Select the **'Start Date'** field.
2. Select **today's date**.

Enter a Due Date.

1. Select the **'Due Date'** field.
2. Select the date **six days from the Start Date**.

Create the Milestone

1. Select the **'Create milestone'** button.

New Milestone

Title: Milestone A

Start Date: 2021-10-13 [Clear start date](#)

Due Date: 2021-10-19

Description: **Write** Preview **B I ' ' </>**
Milestone A is the first milestone created
Markdown is supported

[Create milestone](#) [Cancel](#)

Project milestone A details



In the Milestone details:

1. Select 'Milestones'.



Training Users > ... > JV workshop prep > JV workshop project > Milestones > Milestone A


Upcoming Milestone Oct 13, 2021–Oct 19, 2021 Edit Promote Close milestone Delete

Milestone A


Milestone A is the first milestone created

Filter by Issues Issue weight

Burndown chart



Burnup chart

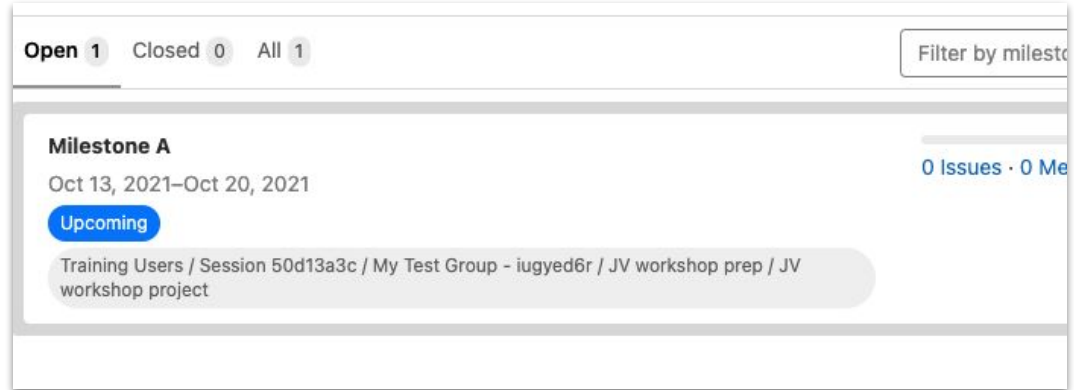


Create new project milestone



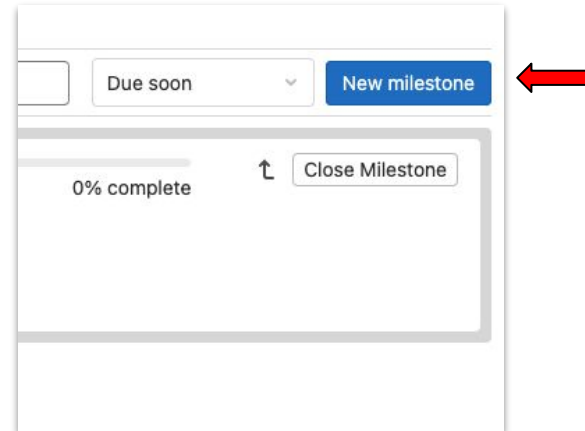
In the project Milestone view:

1. Milestone A will be listed.

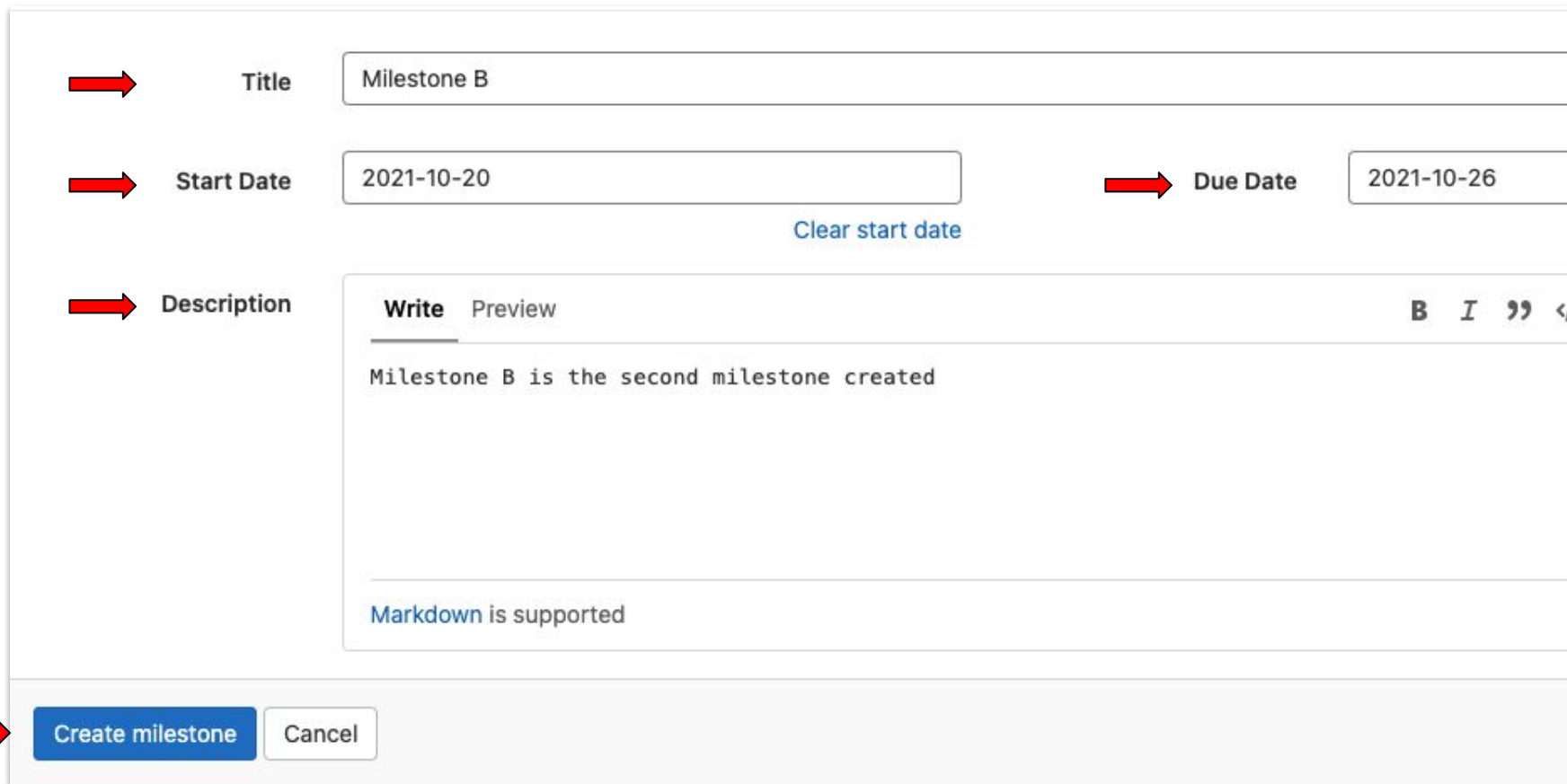


Create a new Milestone:

1. Select the 'New milestone' button.



Repeat: Create a project milestone



The screenshot shows a 'Create project milestone' dialog box. It has the following fields and controls:

- Title:** A text input field containing 'Milestone B'. A red arrow points to the label.
- Start Date:** A date input field containing '2021-10-20'. A red arrow points to the label. Below the field is a blue link labeled 'Clear start date'.
- Due Date:** A date input field containing '2021-10-26'. A red arrow points to the label.
- Description:** A rich text editor with a 'Write' tab selected. It contains the text 'Milestone B is the second milestone created'. A red arrow points to the label. The editor has a toolbar with bold (B), italic (I), quote (”), and code (</) icons.
- Buttons:** At the bottom, there are two buttons: 'Create milestone' (blue) and 'Cancel' (white). A red arrow points to the 'Create milestone' button.

Project milestone B details



Training Users > ... > JV workshop prep > JV workshop project > Milestones > **Milestone B**


Upcoming Milestone Oct 20, 2021–Oct 26, 2021 [Edit](#) [Promote](#) [Close milestone](#) [Delete](#)

Milestone B


Milestone B is the second milestone created

Filter by [Issues](#) [Issue weight](#)

Burndown chart



Burnup chart

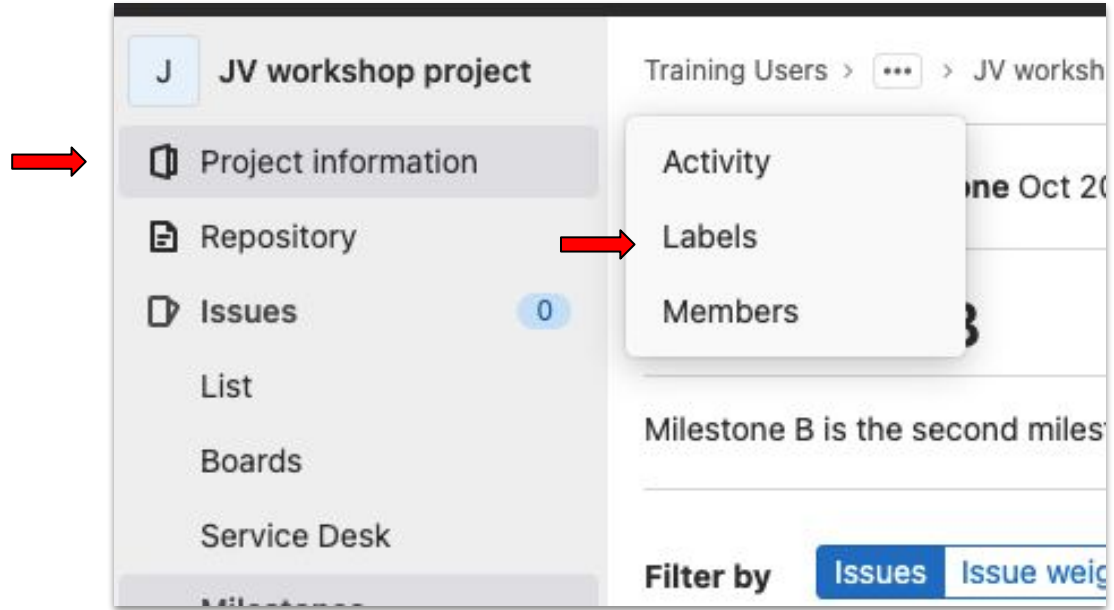


Access project labels



In the project repository:

1. Select 'Project information→Labels'.



Create new scoped project label



In the project Labels view:

1. No Labels will be listed.
2. Select the '**New label**' button.

Labels can be applied to issues and merge requests to categorize them.

You can also star a label to make it a priority label.



New label

Generate a default set of labels

Enter new scoped project label title



In the project Labels view:

1. Enter a scoped label title in the '**Title**' field.
2. For example, enter '**OS::Mac**'.

FYI, scoped labels are formatted as `<value>::<value>`

In the project Labels view:

1. Enter a brief scoped label description in the '**Description**' field.
2. Select a background color from the color options listed.
3. Select the '**Create label**' button.

The screenshot shows a 'New Label' dialog box with the following fields and options:

- Title:** A text input field containing 'OS::Mac'. A red arrow points to this field.
- Description:** A text input field containing 'Scoped Mac'. A red arrow points to this field.
- Background color:** A color selection field showing a blue swatch and the hex code '#6699cc'. A red arrow points to this field. Below the swatch, there is a tooltip that says 'Green-cyan' pointing to a green swatch in a row of color options.
- Create label button:** A blue button labeled 'Create label'. A red arrow points to this button.
- Cancel button:** A white button labeled 'Cancel'.

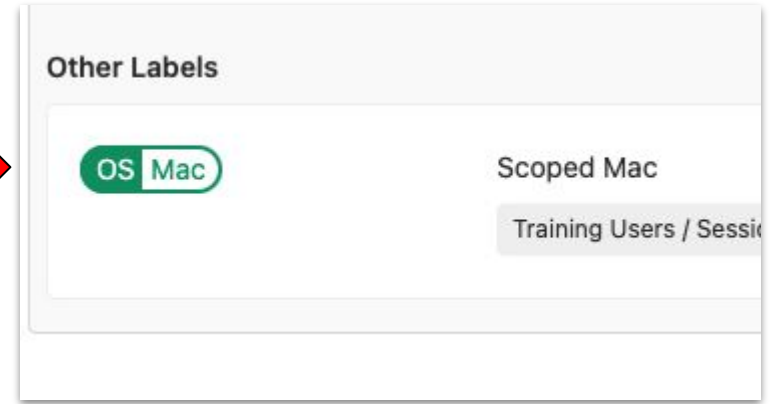
Additional text in the dialog includes: 'Using :: denotes a scoped' and 'Choose any color. In choose one of the'.

Project labels list



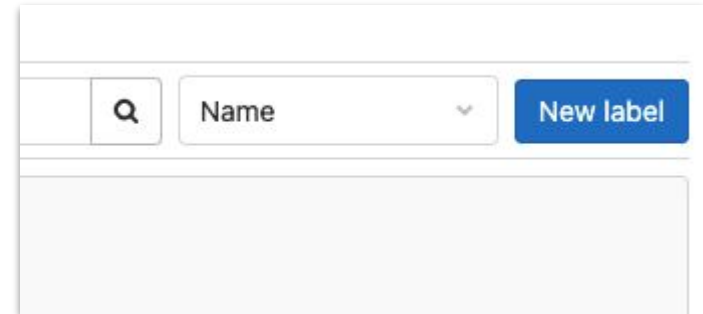
In the project Labels list:

1. Confirm '**OS::Mac**' label is listed.



In the project Labels list:

1. Select the '**New label**' button.



Enter another scoped project label title



In the project Labels view:

1. Enter a scoped label title in the '**Title**' field.
2. For example, enter '**OS::Linux**'.
3. Enter a brief scoped label description in the '**Description**' field.
4. Select a background color from the color options listed.
5. Select the '**Create label**' button.

New Label

Title OS::Linux

Using :: denotes a [scoped label set](#)

Description Scoped Linux

Background color #6699cc

Choose any color.
Or you can choose one of the following colors:

Blue-gray

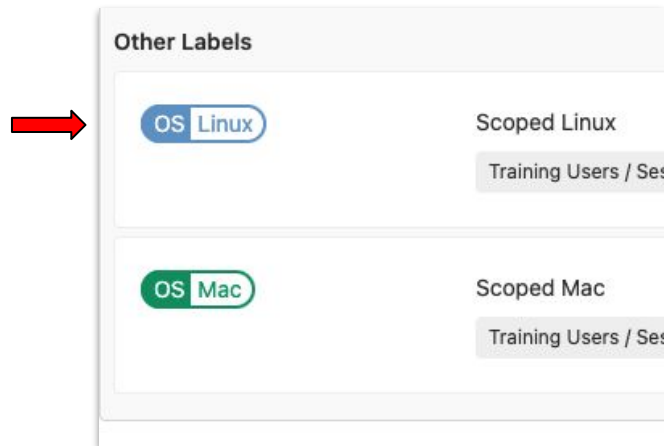
Create label Cancel

Project labels list



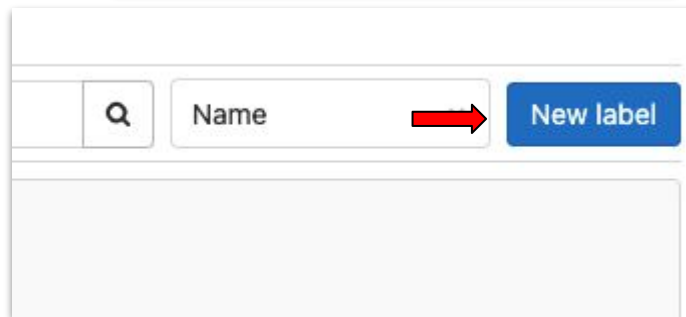
In the project Labels list:

1. Confirm '**OS::Linux**' label is listed.



In the project Labels list:

1. Select the '**New label**' button.



Enter new non-scoped project label title



In the project Labels view:

1. Enter a non-scoped label title in the '**Title**' field.
2. For example, enter '**Bugs**'.
3. Enter a brief label description in the '**Description**' field.
4. Select a background color from the color option listed.
5. Select the '**Create label**' button.

The screenshot shows the 'New Label' dialog box. It has four main input fields: 'Title' (containing 'Bugs'), 'Description' (containing 'Bad things'), 'Background color' (showing a blue swatch and the hex code '#0000ff'), and a 'Create label' button. Red arrows point to each of these elements. Below the background color field, there is a color selection interface with a row of color swatches. The blue swatch is highlighted with a tooltip that says 'Blue'. At the bottom, there are two buttons: 'Create label' and 'Cancel'.

Project labels list



In the project Labels list:

1. Confirm '**Bugs**' label is listed.





Other Labels

Bugs	Bad things Training Users / Sessi
OS Linux	Scoped Linux Training Users / Sessi
OS Mac	Scoped Mac Training Users / Sessi

In the project Labels list:

1. Select the '**New label**' button.



 **New label**

Enter new non-scoped project label title



In the project Labels view:

1. Enter a non-scoped label title in the '**Title**' field.
2. For example, enter '**Feature**'.
3. Enter a brief label description in the '**Description**' field.
4. Select a background color from the color option listed.
5. Select the '**Create label**' button.

New Label

→ **Title** Feature

Use :: to create a [scoped label set](#) (eg. `priority::1`)

→ **Description** Good things

→ **Background color** #e6e6fa

Choose any color.
Or you can choose one of the suggested colors

→ **Create label** Cancel

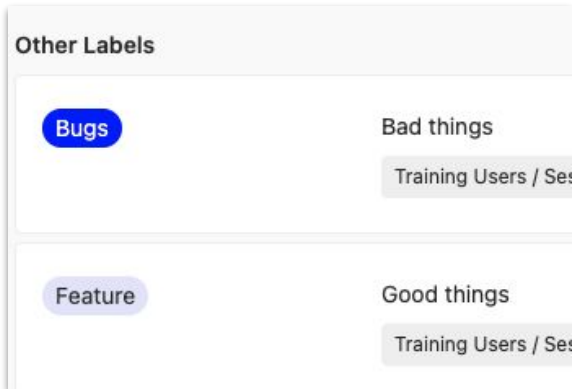
Lavendar

Project labels list



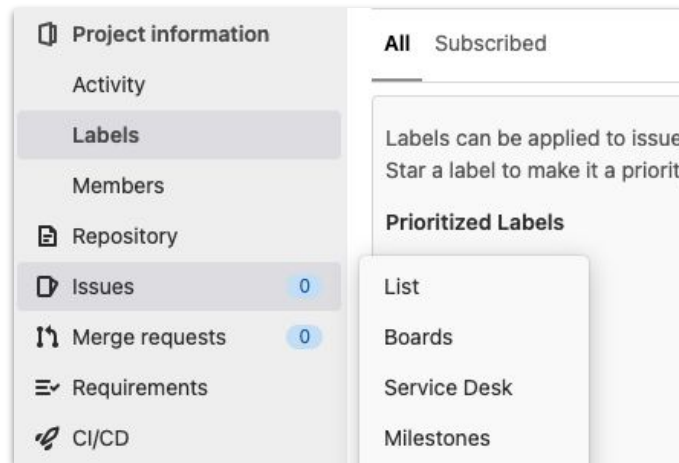
In the project Labels list:

1. Confirm 'Feature' label is listed.



In the project Labels list:

1. Select the 'Issue' panel.





In the project Labels view:

1. No issues will be listed.
2. Select the **'New issue'** button.

The Issue Tracker is the place to add things that need to be improved or solved in a project

Issues can be bugs, tasks or ideas to be discussed. Also, issues are searchable and filterable.



New issue

Import issues ▾

Enter issue metadata/create issue



In the project New issue view:

1. Enter an issue title in the **'Title'** field.
2. Enter an issue description in the **'Description'** field.
3. Select the **'Assign to me'** hyperlink.
4. Select the **'Milestone'** drop-down→<any milestone>.
5. Select the **'Labels'** drop-down→<any label>.
6. Select the **'Submit issue'** button.

The screenshot shows the 'New Issue' form in a project view. Red arrows point to the following fields and buttons:

- Title:** A text input field containing 'Issue A'.
- Description:** A text area with a 'Write' tab selected and a 'Preview' tab. The text 'Feature request' is entered.
- Assignees:** A dropdown menu showing 'Invited User iugyed6r'.
- Milestone:** A dropdown menu showing 'Milestone A'.
- Labels:** A dropdown menu showing 'OS::Linux'.
- Create issue:** A blue button at the bottom left.

Other visible elements include a 'Type' dropdown set to 'Issue', a 'Feature request' template link, a checkbox for 'This issue is confidential and should only be visible to team members', and a 'Cancel' button.

Issue details



Issue A



Feature request

Drag your designs here or [click to upload](#).



Linked issues



0



0



Oldest first

Show all activity

Create merge request



Invited User iugyed6r @iugyed6r changed milestone to %Milestone A just now



Invited User iugyed6r @iugyed6r added OS Linux scoped label just now



Invited User iugyed6r @iugyed6r assigned to @iugyed6r just now

Write

Preview

B *I* “ ” </> 🔗 ☰ ☷ ☰ ☷ ☰ ☷ 📎 📄 ↗

Write a comment or drag your files here...

@iugyed6r

Epic
None

Milestone
Milestone A

Iteration
None

Time tracking
No estimate or time spent

Due date
None

Labels
OS Linux

Weight
None

Create issue



In the project issue view:

1. Select the 
2. Select '**New issue**' option.



Repeat: enter issue details

In the project New issue view:

1. Enter an issue title in the '**Title**' field.
2. Enter an issue description in the '**Description**' field.
3. Select the '**Milestone**' drop-down→<any milestone>.
4. Select the '**Labels**' drop-down→<scoped label> and <non-scoped label>.
5. Select the '**Submit issue**' button.

The screenshot shows the 'New issue' form in a project view. The form is divided into several sections. The 'Title' field is at the top, with a red arrow pointing to it. Below the title is a section for 'Similar issues' and a 'Type' dropdown menu. The 'Description' field is in the middle, with a red arrow pointing to it. Below the description is a section for 'Assignees', 'Epic', 'Milestone', and 'Labels'. The 'Milestone' and 'Labels' fields have red arrows pointing to them. The 'Labels' field shows 'Bugs +1 more'. The form also includes a 'Write' and 'Preview' tab, a 'Markdown and quick actions are supported' note, and a checkbox for 'This issue is confidential and should only be visible to team'.

Title Issue B

Add [description templates](#) to help your contributors communicate

Similar issues [?](#) **Issue A**
#1 • 2 minutes ago by [?](#)

Type Issue [?](#)

Description

Write **Preview**

There's a bug in the code

[Markdown](#) and [quick actions](#) are supported

☐ This issue is confidential and should only be visible to team

Assignees Unassigned [Assign to me](#)

Epic Select epic

Milestone Milestone B

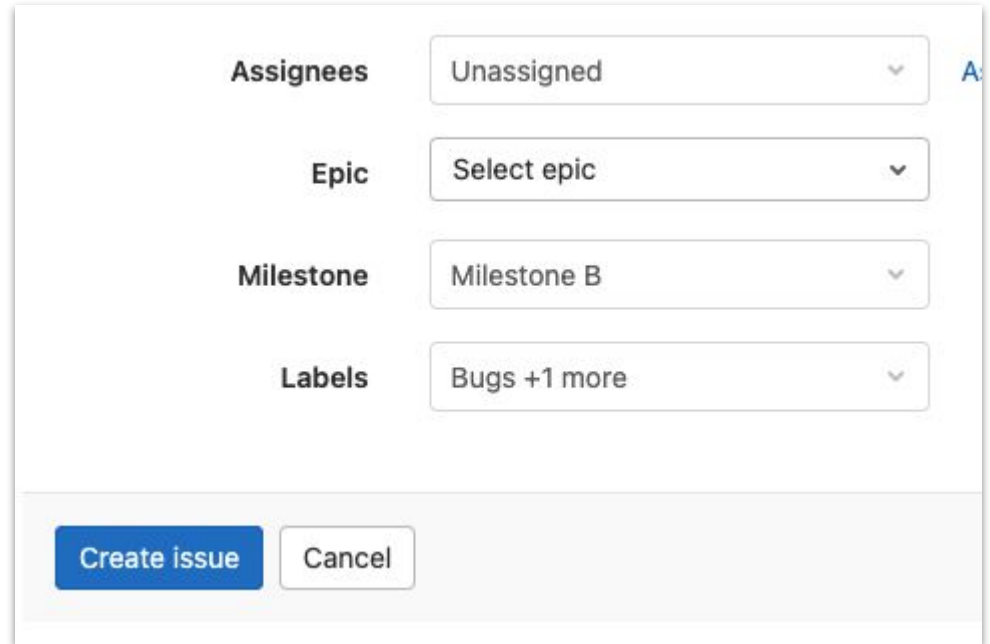
Labels Bugs +1 more

Finalize the issue creation



In the project New issue view:

1. Select the **'Create issue'** button.

A screenshot of the 'New issue' form in a project view. The form contains four dropdown menus: 'Assignees' (set to 'Unassigned'), 'Epic' (set to 'Select epic'), 'Milestone' (set to 'Milestone B'), and 'Labels' (set to 'Bugs +1 more'). At the bottom of the form are two buttons: a blue 'Create issue' button and a white 'Cancel' button. A red arrow points to the 'Create issue' button from the left. The form is titled 'A:' in the top right corner.

New issue details



Issue B

There's a bug in the code

Drag your designs here or [click to upload](#).

Linked issues 0



0



0



Oldest first

Show all activity

Create merge request



Invited User iugyed6r @iugyed6r changed milestone to %Milestone B just now



Invited User iugyed6r @iugyed6r added OS Mac scoped label just now



Invited User iugyed6r @iugyed6r added Bugs label just now

Epic
None

Milestone
Milestone B

Iteration
None

Time tracking
No estimate or time spent

Due date
None

Labels

Bugs



OS



Mac

Access project issue boards



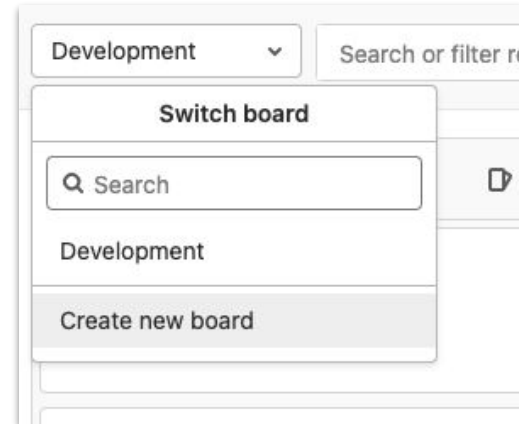
In the project repository:

1. Select '**Issues**→**Boards**'.



In the project Issue Board view:

1. Select the '**Switch board**' menu→ '**Create new board**' option.



Name new project issue board



In the Create new board view:

1. Enter a board title into the **'Title'** field.
2. Select the **'Create board'** button.



Create new board

×

Title

WIP Board

List options

Configure which lists are shown for anyone who visits this board

☒ Show the Open list

☒ Show the Closed list

Scope

Expand

Board scope affects which issues are displayed for anyone who visits this board

Cancel

Create board



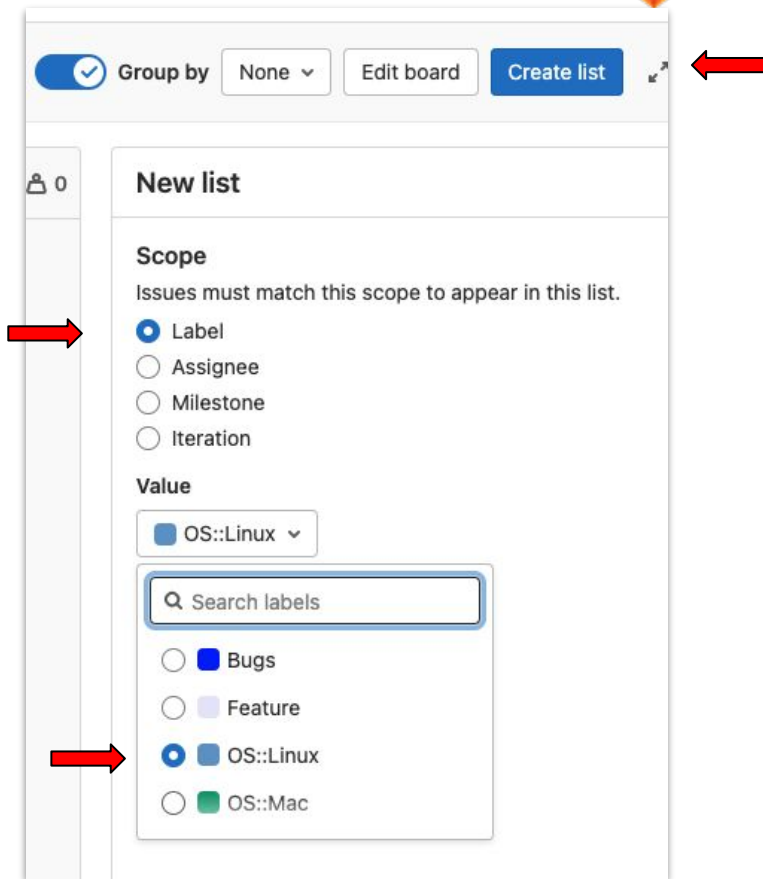
Modify issue board scope

In the project Issue Board view:

1. Select the **'Create list'** menu → **'Label'** radio button.
2. Select **'Value'** drop-down.
3. Select a **'<scoped label>'**.
4. Select the **'Add to board'** button.

In the project Issue Board view:

5. Select the **'Create list'** menu → **'Label'** radio button.
6. Select **'Value'** drop-down.
7. Select the **'<other scoped label>'**.
8. Select the **'Add to board'** button.

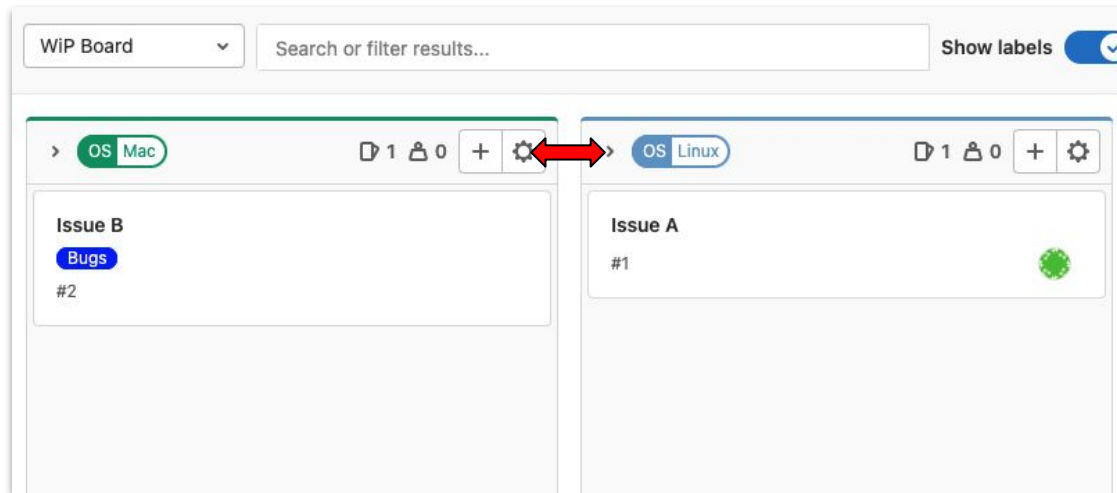


Move board columns



In the project Issue Board view:

1. Select and hold a '<scoped column>' and move it before/after the other "<scoped label>" column.
2. Example: 'OS::Mac' before 'OS::Linux' column.

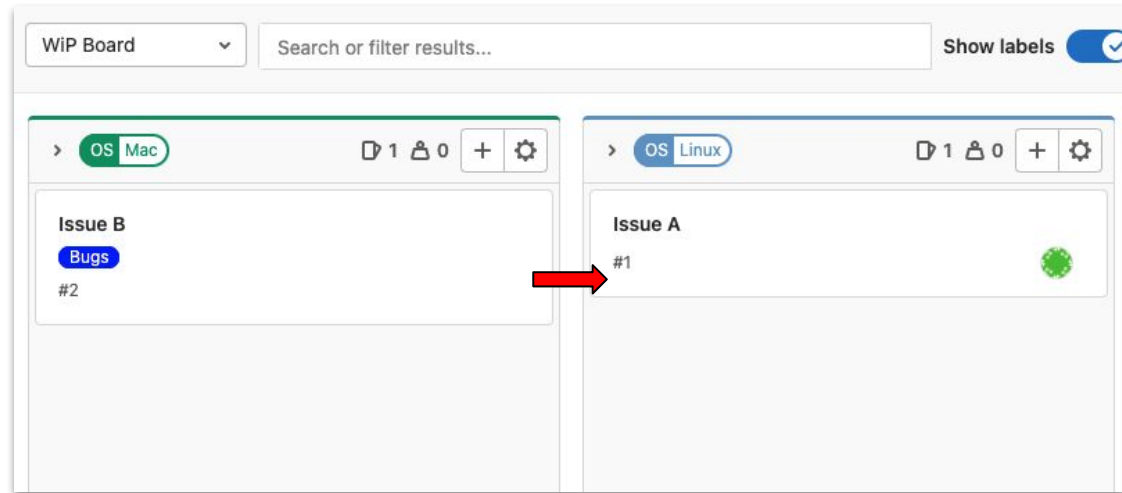


Move issue within board



In the project Issue Board view:

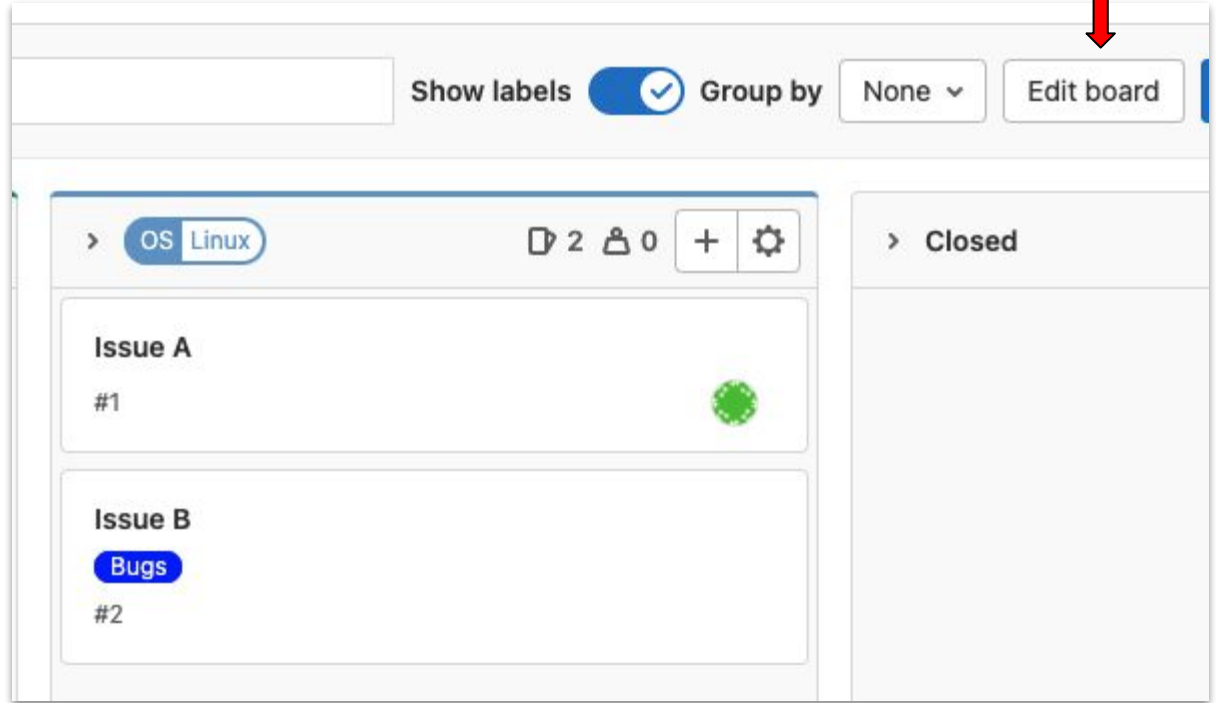
1. Select and hold '**<an issue>**' and drag into the other '**<scoped label>**' column.
2. Example: '**Issue A**' into '**OS::Linux**' column.



Modify scope of existing issue board

In the project Issue Board view:

1. Select '**Edit board**' button.



Scope existing issue board to milestone

In the Edit board view:

1. Select **'Edit'** option for the **'Milestone'** pane.
2. Select **'Any milestone'** option.
3. Select the **'Save changes'** button.

Scope

Board scope affects which issues are displayed for anyone who visits this board

Milestone Edit

Milestone

Search milestones

Any milestone

No milestone

Upcoming

Started

Milestone A

Milestone B

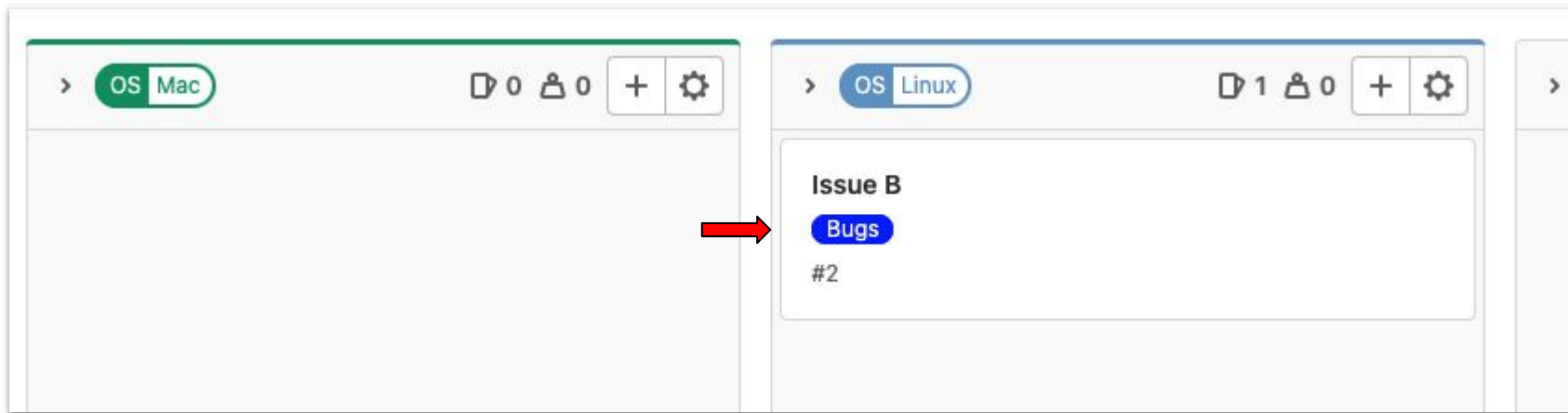
Cancel Save changes

Confirm scoping change to existing issue board



In the Issue Boards view:

1. Issue(s) matching selected milestone is/are displayed.





GitLab

Thank you



Create Stage

Gitlab Basics - Lab 2

Lab Assignment

Part 2

Scenario: Use CI features to branch from, modify, and integrate updates into a known repository state.

Key Tasks to Complete

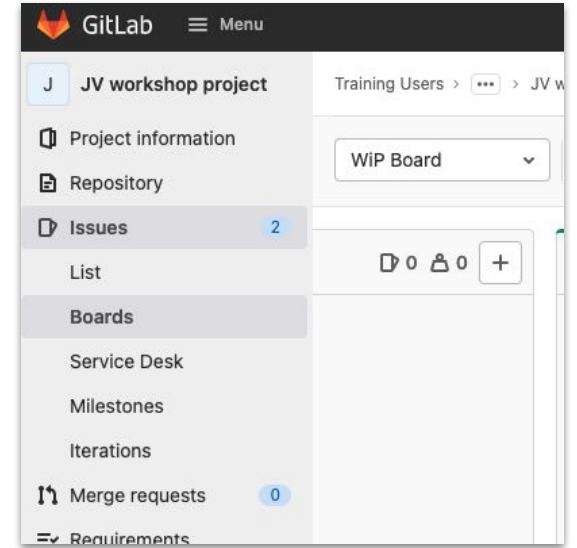
1. Review Issue
2. Create a MR
3. Open in Web IDE
4. Modify README.md file
5. Commit file changes
6. Resolve Draft Status
7. Merge changes

Access project issues



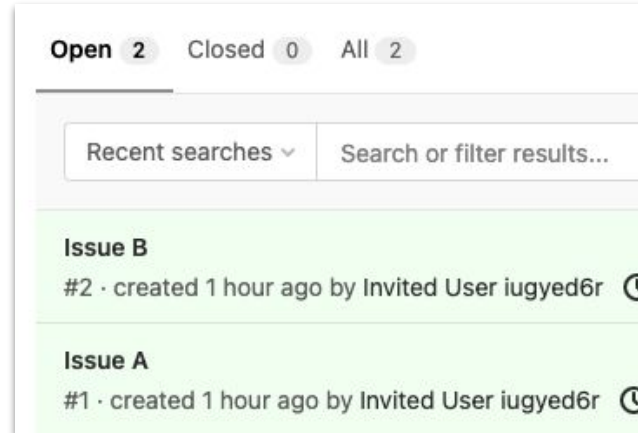
In the project repository:

1. Select 'Issues'.



From the project issues list:

1. Select '<any issue>'.

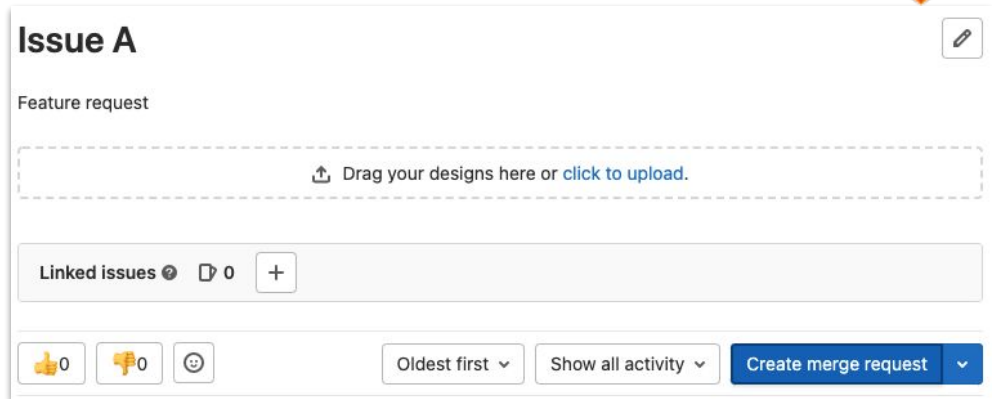


Create a Merge Request from issue



From Issues detail view:

1. Select '**Create merge request**' button.



From your Merge Request view:

1. Select '**Open in Web IDE**' button.



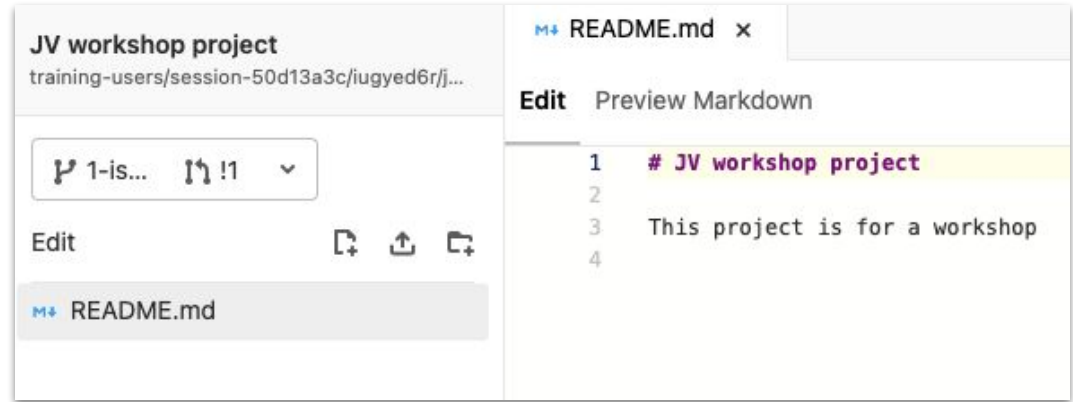
FYI, the Merge Request (MR) is in **“Draft”** – it can not merged into a target baseline until the MR is marked as **“Ready”**.

Access file from Web IDE



From the Web IDE view:

1. Select '**README.md**' from the list of project files.
2. File contents will be displayed in the edit pane.



From the Web IDE edit pane:

1. Modify the contents of the '**README.md**' file in the '**Edit**' pane.
2. Example: "**This line has been edited**".
3. Select the '**Commit**' button.

Note: Below the commit button it tracks the number of the files that you have changed





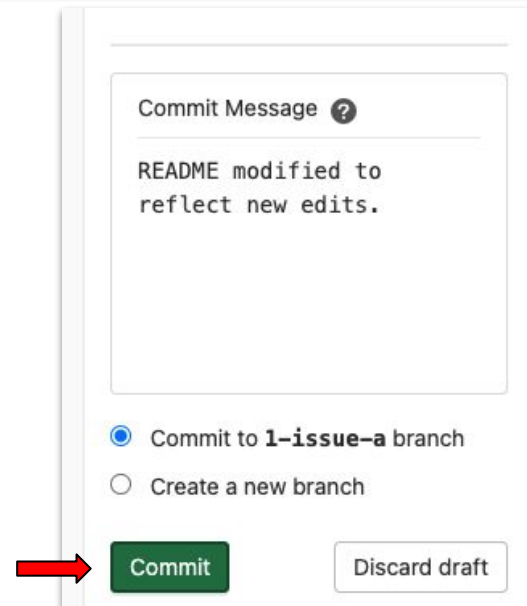
From your Web IDE view:

1. Confirm before/after changes to file in a side-by-side view.



From your Web IDE view:

2. Add text to 'Commit Message' pane.
3. Select the 'Commit' button.

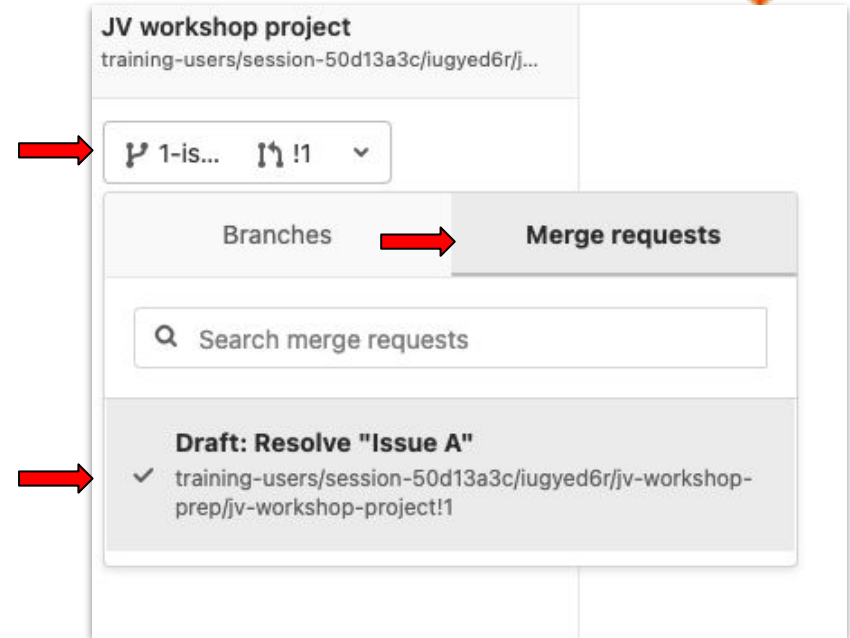


Web IDE: consolidated content



From your Web IDE view:

1. Select the **'Branches/MR'** drop-down menu.
2. Select the **'Merge Requests'** tab.
3. Select the Merge Request for this change.

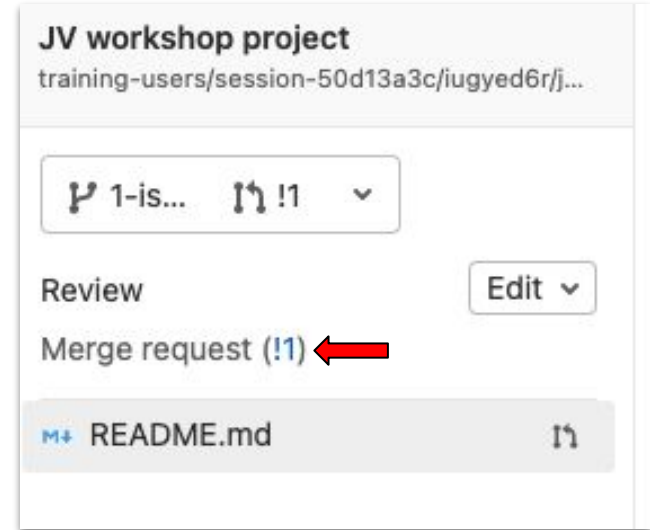


Web IDE: return to MR



From your Web IDE view:

1. Select the hyperlinked '**!MR**'.
2. Example: '**!1**'.



MR details



From the MR details view, confirm these key *automated* details.

1. Link with issue.
2. Branching/target links.
3. Approval information.
4. Inherited milestone association.
5. Inherited labels.
6. Commit history.

The screenshot displays a GitLab Merge Request (MR) details page for a draft titled "Draft: Resolve 'Issue A'". The page is divided into several sections:

- Header:** Shows the MR is "Open", created 13 minutes ago by "Invited User iugyed6r" (owner). Buttons for "Edit" and "Mark as ready" are present.
- Overview:** Shows 0 commits and 1 change.
- Closes #1:** A red arrow points to the "Closes #1" link.
- Request to merge:** A red arrow points to the "Request to merge 1-issue-a into main" button. Other buttons include "Open in Web IDE", "Check out branch", and a download icon.
- Approval:** A red arrow points to the "Approval is optional" section, which includes a link to "View eligible approvers".
- Merge status:** A red arrow points to the "Merge" button. A warning message states: "This merge request is still a draft. Draft merge requests can't be merged." A "Mark as ready" button is also present.
- Activity:** A red arrow points to the activity feed at the bottom, which includes:
 - Invited User iugyed6r @iugyed6r changed milestone to %Milestone A 13 minutes ago
 - Invited User iugyed6r @iugyed6r added OS Linux scoped label 13 minutes ago
 - Invited User iugyed6r @iugyed6r assigned to @iugyed6r 13 minutes ago
 - Invited User iugyed6r @iugyed6r added 1 commit 3 minutes ago
 - ca7b3e1d - README modified to reflect new edits.
- Right sidebar:** Contains additional details:
 - Assignee:** Invited User iugyed6r @iugyed6r
 - Reviewers:** 0 Reviewers, None
 - Milestone:** Milestone A (a red arrow points to this section)
 - Time tracking:** No estimate or time spent
 - Labels:** OS Linux (a red arrow points to this section)
 - Lock merge request:** Unlocked
 - 1 participant:** Invited User iugyed6r
 - Notifications:** Reference: training-users/ses, Source branch: 1-issue-a

MR view: commit details



From the MR details view:

1. Select 'Commits' tab.

Draft: Resolve "Issue A"

Overview 0 **Commits 1** Changes 1

09 Oct, 2021 1 commit



README modified to reflect new edits.

Invited User iugyed6r authored 4 minutes ago

Add previously merged commits

From the MR details view:

1. Select 'Changes' tab.
2. Confirm before/after changes to file in red/green view.

Draft: Resolve "Issue A"

Overview 0 Commits 1 **Changes 1** 

Compare main and latest version

▼ README.md

1	1	# JV workshop project
2	2	
3		- This project is for a workshop
		\ No newline at end of file
3	3	+ This project is for a workshop
4	4	+
5	5	+ This line has been edited.

MR view: aggregated data



From the MR details view:

1. Select '**Overview**' tab.

From the MR details view, confirm these key *automated* details.

2. '**Approval**' panel for status of outstanding approvals.
3. '**Merge**' button is "grayed out" to prevent accidental merging of unfinished work.

From the MR details view:

4. Select the '**Mark as ready**' button.

Draft: Resolve "Issue A"

Overview 0 Commits 1 Changes 1

Closes #1

Request to merge 1-issue-a into main [Open in Web IDE](#)

Approval is optional [View eligible approvers](#)

! Merge This merge request is still a draft. [Mark as ready](#)

Draft merge requests can't be merged.

Closes #1

MR view: ready for integration



From the MR details view,
confirm the MR is ready for
integration.

1. Banner alerts viewers of ability to merge this MR.
2. **'Draft'** prefix is dropped from MR title.
3. **'Merge'** button is colored blue.

From the MR details view:

4. Select the **'Merge'** button.



The merge request can now be merged.

Open Created 13 minutes ago by Invited User

Resolve "Issue A"

Overview 0 Commits 1 Changes 1

Closes #1

Request to merge 1-issue-a into main

Approval is optional

> View eligible approvers

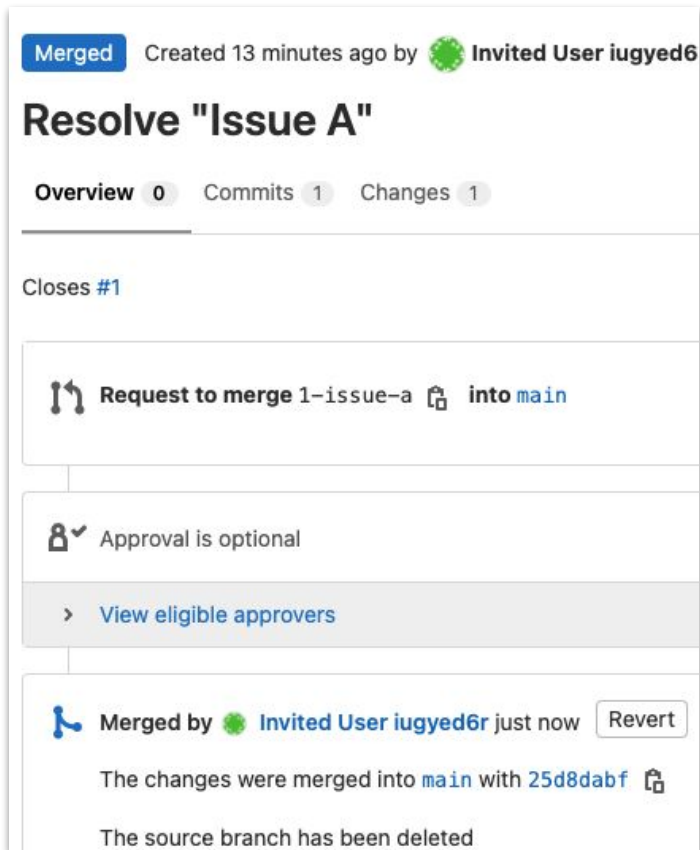

Merge ☒ Delete source branch



MR view: merge changes




From the MR details view, confirm the MR has been integrated.

1. 'Merged' badge replaces 'Open' badge.
2. 'Merged by' reflects integrator and branch/target information.



The screenshot displays a GitLab Merge Request (MR) titled "Resolve 'Issue A'". At the top, a blue "Merged" badge is visible, followed by the text "Created 13 minutes ago by  Invited User iugyed6". Below the title, there are tabs for "Overview" (0), "Commits" (1), and "Changes" (1). The "Overview" tab is selected. Underneath, it says "Closes #1". A section titled "Request to merge 1-issue-a" shows the merge target as "into main". Below this, a section indicates "Approval is optional" with a link to "View eligible approvers". At the bottom, a section titled "Merged by" shows the user  Invited User iugyed6r just now, with a "Revert" button. Below this, it states "The changes were merged into main with 25d8dabf" and "The source branch has been deleted".





GitLab

Everyone can contribute



Release Stage CI/CD

Lab Assignment Part 3

Scenario: Create a `.gitlab-ci.yml` file to visualize an automated CI process.

Key Tasks to Complete

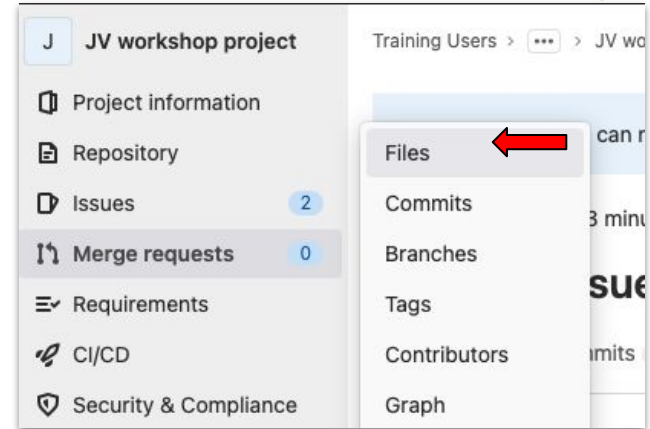
1. Create a `.gitlab-ci.yml` File
2. View the CI pipeline
3. Update the CI pipeline

Access repository files



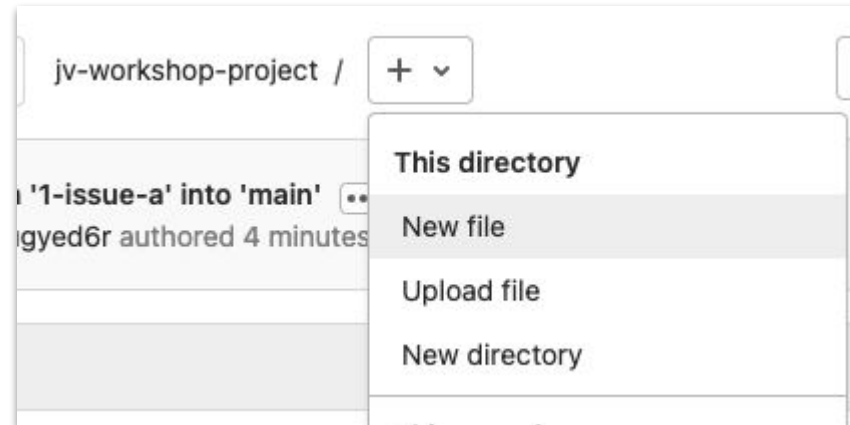
In the MR view:

1. Select **Repository**→**Files**.



In the repository file view:

2. Select the '+' → 'New file'

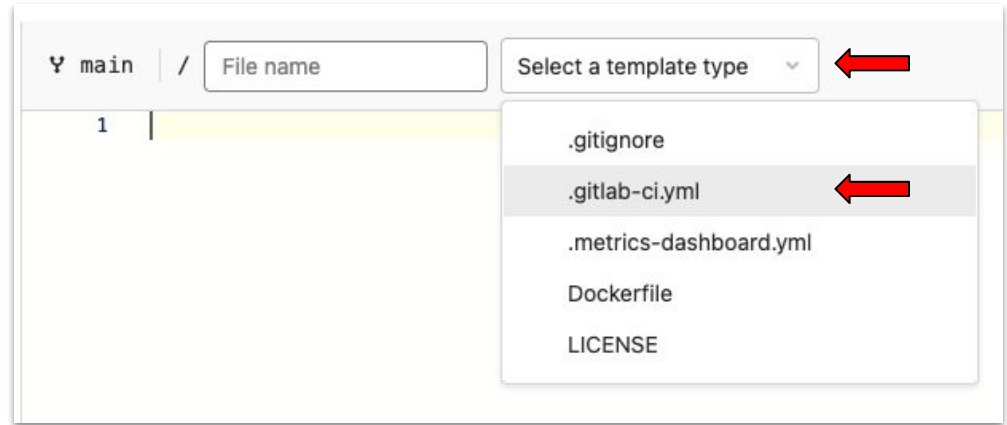


Select file template type



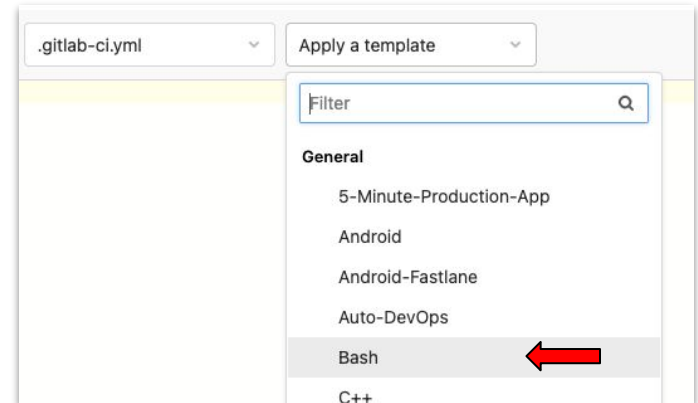
In the New file view:

1. Select the '**Select a template type**' drop-down→
'**.gitlab-ci.yml**' option.



In the New file view:

2. Select the '**Apply a template**' drop-down→ '**Bash**' option.



File title and contents populated with template



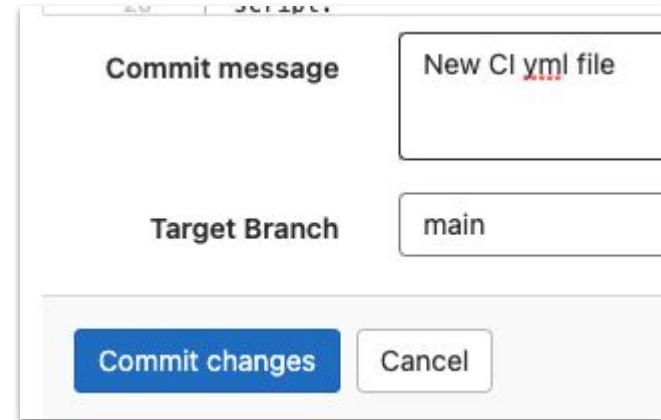
```
Y main / .gitlab-ci.yml .gitlab-ci.yml Apply a template
1 # This file is a template, and might need editing before it works on your project.
2 # To contribute improvements to CI/CD templates, please follow the Development guide at:
3 # https://docs.gitlab.com/ee/development/cicd/templates.html
4 # This specific template is located at:
5 # https://gitlab.com/gitlab-org/gitlab/-/blob/master/lib/gitlab/ci/templates/Bash.gitlab-ci.yml
6
7 # See https://docs.gitlab.com/ee/ci/yaml/README.html for all available options
8
9 # you can delete this line if you're not using Docker
10 image: busybox:latest
11
12 before_script:
13   - echo "Before script section"
14   - echo "For example you might run an update here or install a build dependency"
15   - echo "Or perhaps you might print out some debugging details"
16
17 after_script:
18   - echo "After script section"
19   - echo "For example you might do some cleanup here"
20
21 build:
22   stage: build
23   script:
24     - echo "Do your build here"
25
26 test1:
27   stage: test
28   script:
```

Add commit message



In the New file view:

1. Enter <commit message text> into the 'Commit message' pane.
2. Select the 'Commit changes' button.



Commit message

New CI yml file

Target Branch

main

Commit changes

Cancel



Components of this .gitlab-ci.yml



In the file view, confirm the following components.

1. Leverages Docker **image**.
2. **'before_script'** block.
3. **'after_script'** block.
4. Pipeline elements of **'stage'** and **'script'**.



.gitlab-ci.yml 1.15 KB

EditWeb IDE

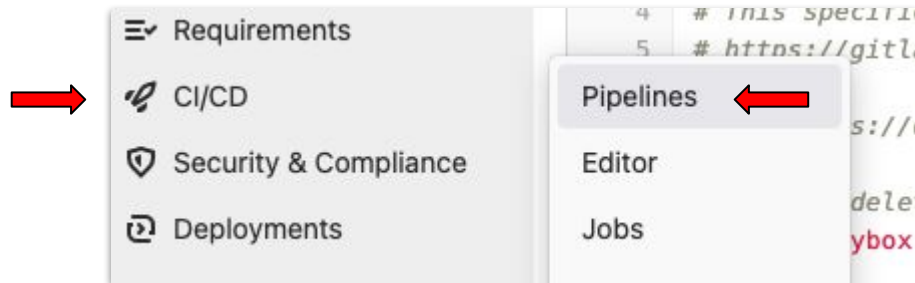
```
1  # This file is a template, and might need editing before it works on
2  # To contribute improvements to CI/CD templates, please follow the D
3  # https://docs.gitlab.com/ee/development/cicd/templates.html
4  # This specific template is located at:
5  # https://gitlab.com/gitlab-org/gitlab/-/blob/master/lib/gitlab/ci/t
6
7  # See https://docs.gitlab.com/ee/ci/yaml/README.html for all availab
8
9  # you can delete this line if you're not using Docker
10 image: busybox:latest
11
12 before_script:
13   - echo "Before script section"
14   - echo "For example you might run an update here or install a buil
15   - echo "Or perhaps you might print out some debugging details"
16
17 after_script:
18   - echo "After script section"
19   - echo "For example you might do some cleanup here"
20
21 build1:
22   stage: build
23   script:
24     - echo "Do your build here"
25
```

Access repository pipelines



In the file view:

1. Select **CI/CD**→**Pipelines**.



In the Pipelines view:

2. Confirm the pipeline elements below.

- Pipeline status.
- Pipeline ID.
- Pipeline triggerer.
- Pipeline target.
- Pipeline stages and status.
- Pipeline time.

A screenshot of the GitLab Pipelines view table. Red arrows point to each column header: Status, Pipeline, Triggerer, Commit, Stages, and Duration.

Status	Pipeline	Triggerer	Commit	Stages	Duration
	#132290 latest		main ~ 1fb67868 New CI yaml file		00:00:22 1 minute ago

Access pipeline details

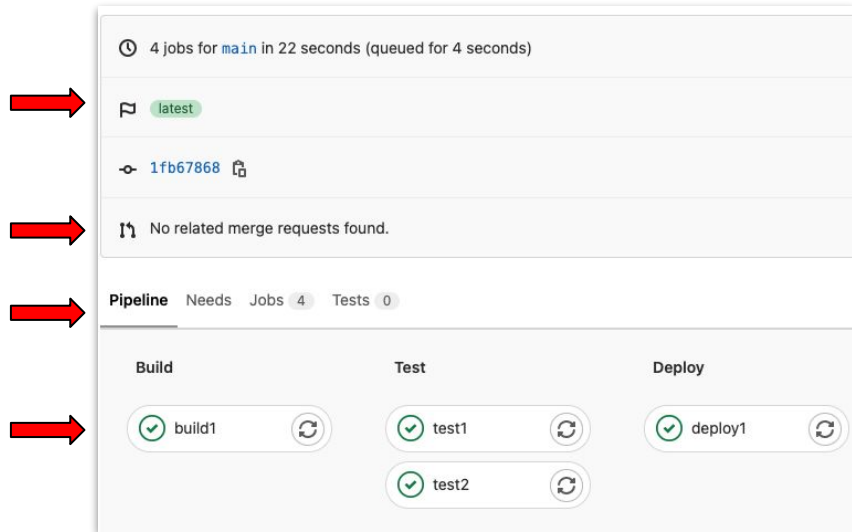
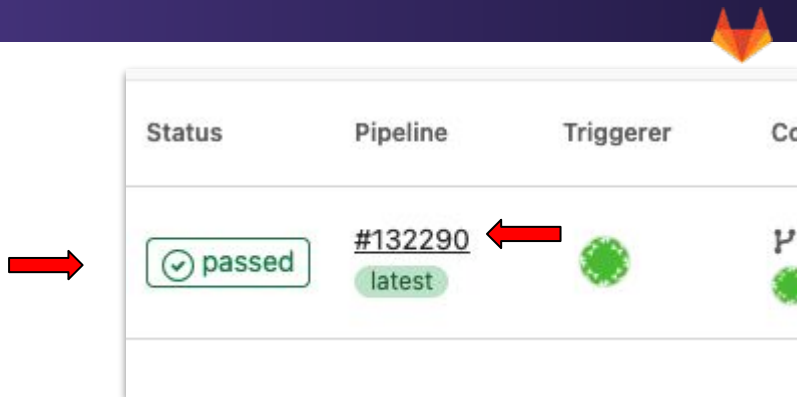
In the Pipelines view:

1. Select the '<pipeline status>' button, or
2. Select the '<pipeline ID>' hyperlink.

In the pipeline view:

3. Confirm the additional pipeline elements.

- 'latest' flag,
- Related merge requests.
- Additional tabs for context.
- Expanded pipeline view.

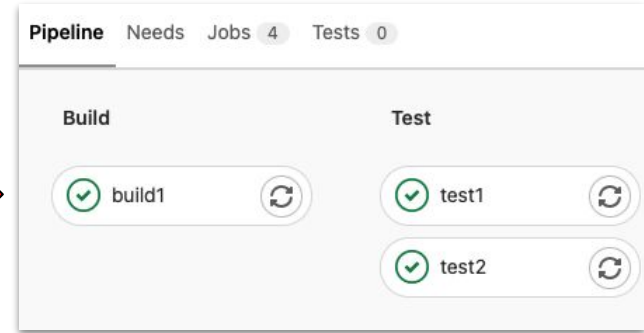


Access job details



In the pipeline view:

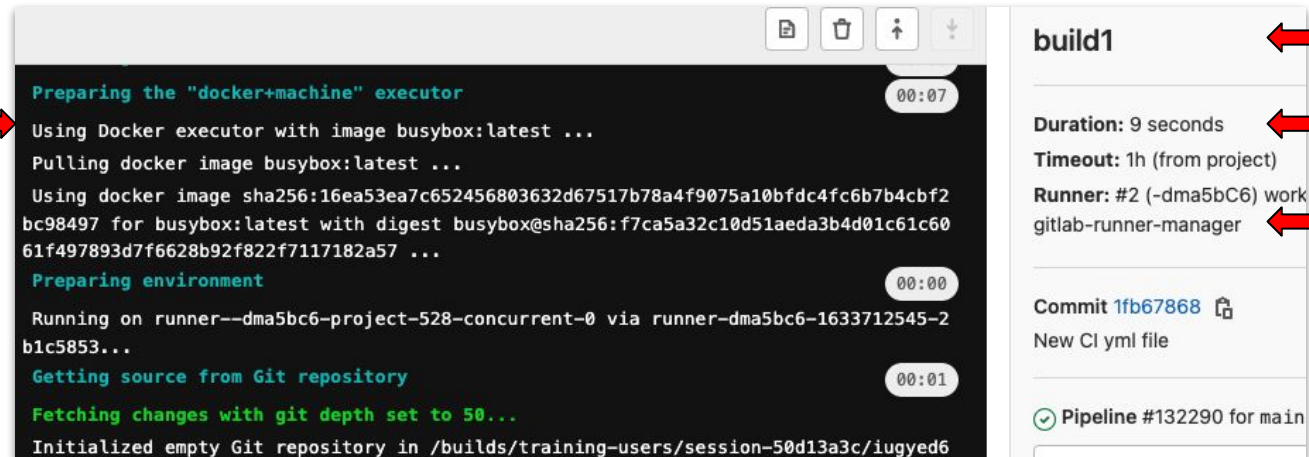
1. Select '<individual job>' button.



In the job view:

2. Confirm the following elements.

- Job name.
- Job duration and runner name.
- Job artifacts (if avail.).
- Pipeline stage drop-down.
- List of pipeline jobs.
- Terminal output.

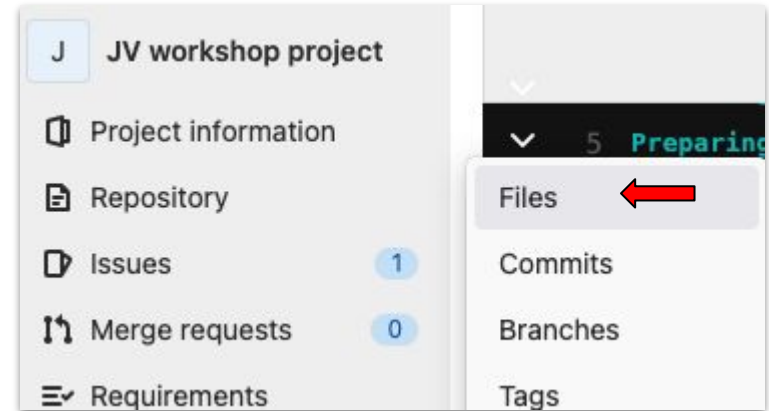


Access repository files



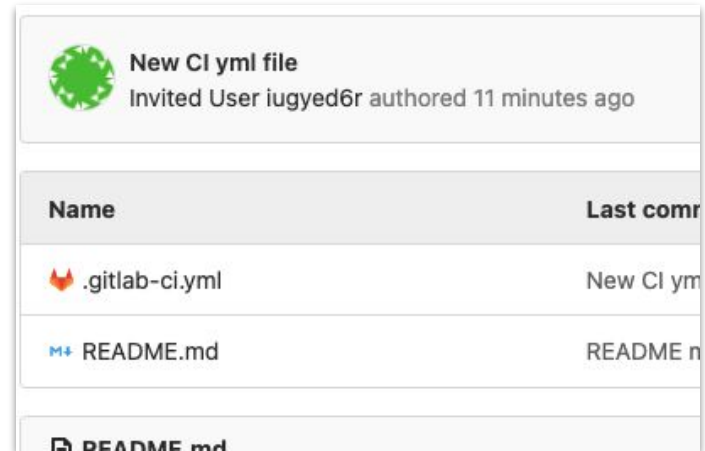
In the job view:

1. Select **Repository**→**Files**.



In the Repository files list view:

2. Select **'`.gitlab-ci.yml`'** file name.



Open .gitlab-ci.yml file to edits



In the file content view:

1. Select the **Edit** button.



```
1 # This file is a template, and might need editing before it works on
2 # To contribute improvements to CI/CD templates, please follow the De
3 # https://docs.gitlab.com/ee/development/cicd/templates.html
4 # This specific template is located at:
5 # https://gitlab.com/gitlab-org/gitlab/-/blob/master/lib/gitlab/ci/te
6
7 # See https://docs.gitlab.com/ee/ci/yaml/README.html for all availabl
```

In the file edit view:

2. Copy the contents of the **'test1:'** element.



```
21 build:
22   stage: build
23   script:
24     - echo "Do your build here"
25
26 test1:
27   stage: test
28   script:
29     - echo "Do a test here"
30     - echo "For example run a test suite"
31
32 test2:
33   stage: test
34   script:
35     - echo "Do another parallel test here"
```

Modify the .gitlab-ci.yml file - part 1



In the file edit view:

1. Scroll to the bottom of the file.
2. Insert a space after the last row in the file.
3. **Paste** the copied contents to the end of the `.gitlab-ci.yml` file.



```
37
38  deploy1:
39    stage: deploy
40    script:
41      - echo "Do your deploy here"
42
43  test1:
44    stage: test
45    script:
46      - echo "Do a test here"
47      - echo "For example run a test suite"
```

In the file edit view:

4. Modify the pasted contents to reflect:

```
test3:
  stage: test
  script:
    - cat README.md
```



```
37
38  deploy1:
39    stage: deploy
40    script:
41      - echo "Do your deploy here"
42
43  test3:
44    stage: test
45    script:
46      - cat README.md
47
```

Add commit message for .gitlab-ci.yml file



In the file edit view:

1. Enter **<commit message text>** into the **'Commit message'** pane.
2. Select the **'Commit changes'** button.

```
43 test3:
44   stage: test
45   script:
46     - cat README.md
47
```

Commit message: Created test3 job for test stage in gitlab-ci.yml

Target Branch: main

Commit changes Cancel

In the file view:

3. Verify the following components.
 - Commit status message.
 - Configuration lint.

main jv-workshop-project / .gitlab-ci.yml

Created test3 job for test stage in gitlab-ci.yml
Invited User iugyed6r authored just now

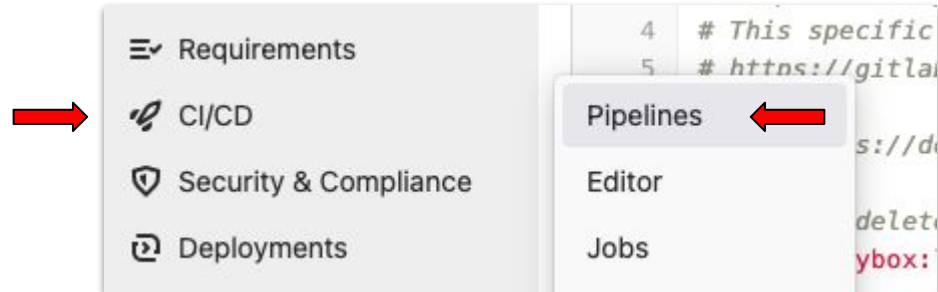
✓ This GitLab CI configuration is valid. [Learn more](#)

Access repository pipelines



In the file view:

1. Select **CI/CD**→**Pipelines**.



In the Pipelines view:

2. Confirm updates to the following pipeline elements.

- Pipeline status.
- Pipeline ID.
- Pipeline triggerer.
- Pipeline target.
- Pipeline stages and status.
- Pipeline time.

Status	Pipeline	Triggerer	Commit	Stages	Duration
	#132292 latest		main → b1b2318b Created test3 job for ...		⌚ 00:00:23 🕒 2 minutes ago
	#132291 yml invalid error		main → 27184cff Created test3 job to t...		🕒 5 minutes ago
	#132290		main → 1fb67868 New CI yml file		⌚ 00:00:22 🕒 22 minutes ago

Red arrows point to the Status, Pipeline ID, Triggerer, Commit, Stages, and Duration columns of the table.

Access pipeline details



In the Pipelines view:

1. Select the '<pipeline status>' button, or
2. Select the '<pipeline ID>' hyperlink. →

Status	Pipeline	Triggerer	Commit	Stages	Duration
✓ passed	#132292 latest		main → b1b2318b Created test3 job for ...	✓ ✓ ✓	00:00:23 2 minutes ago

In the pipeline view:

3. Confirm the following pipeline elements.
 - Commit message listed.
 - Additional job added to “Test” stage.



Created test3 job for test stage in gitlab-ci.yml

🕒 5 jobs for main in 23 seconds (queued for 4 seconds)

🚩 latest

🔗 b1b2318b

🔍 No related merge requests found.

Pipeline Needs Jobs 5 Tests 0

Build	Test	Deploy
✓ build1	✓ test1	✓ deploy1
	✓ test2	
	✓ test3	

Access job details



In the pipeline view:

1. Select '<individual job>' button.

Example:

1. Select the '**test3**' button.

Created test3 job for test stage in gitlab-ci.yml

🕒 5 jobs for `main` in 23 seconds (queued for 4 seconds)

🚩 latest

🔗 b1b2318b 📄

🔍 No related merge requests found.

Pipeline Needs Jobs 5 Tests 0

Build	Test	Deploy
✓ build1 🔄	✓ test1 🔄	✓ deploy1 🔄
	✓ test2 🔄	
	✓ test3 🔄	

Job details

In the job view:

1. Confirm the following elements.

- Job name reflects added job.
- Job duration and runner name.
- Job artifacts (if avail.).
- Pipeline stage drop-down. includes added job.
- Terminal output reflects “script” for ‘test3’ job.



A screenshot of the GitLab CI job view for a job named 'test3'. The interface is divided into two main sections. The left section is a terminal window showing the execution of a script. The right section is a summary panel. The terminal output shows the following steps: 5. Preparing the "docker+machine" executor (00:05), 6. Using Docker executor with image busybox:latest ..., 7. Pulling docker image busybox:latest ..., 8. Using docker image sha256:16ea53ea7c652456803632d67517b78a4f9075a10bfdc4fc6b7b4cbf2bc98497 for busybox:latest with digest busybox@sha256:f7ca5a32c10d51aeda3b4d01c61c6061f497893d7f6628b92f822f7117182a57 ..., 10. Preparing environment (00:01), 11. Running on runner--dma5bc6-project-528-concurrent-0 via runner-dma5bc6-1633744046-08037a5c..., 13. Getting source from Git repository (00:00), 14. Fetching changes with git depth set to 50..., 15. Initialized empty Git repository in /builds/training-users/session-50d13a3c/iugyed6r/jv-workshop-prep/jv-workshop-project/.git/, 16. Created fresh repository., 17. Checking out blb2318b as main..., 18. Skipping Git submodules setup, 20. Executing "step_script" stage of the job script (00:01), 21. Using docker image sha256:16ea53ea7c652456803632d67517b78a4f9075a10bfdc4fc6b7b4cbf2bc98497 for busybox:latest with digest busybox@sha256:f7ca5a32c10d51aeda3b4d01c61c6061f497893d7f6628b92f822f7117182a57 ..., 22. \$ echo "Before script section", 23. Before script section, 24. \$ echo "For example you might run an update here or install a build dependency". The summary panel on the right shows the job name 'test3' with a 'Retry' button, duration '8 seconds', timeout '1h (from project)', runner '#2 (-dma5bC6) workshop-gitlab-runner-manager', commit 'b1b2318b', and pipeline '#132292 for main'. Below this, a dropdown menu is set to 'test', and a list of jobs is shown: 'test1', 'test2', and 'test3' (selected). Red arrows point to the 'test3' job name, the 'Retry' button, the dropdown menu, and the 'test3' job in the list.



- CI/CD example projects: <https://docs.gitlab.com/ee/ci/examples/#cicd-examples>
- CI/CD templates: <https://docs.gitlab.com/ee/ci/examples/#cicd-templates>



GitLab

Everyone can contribute