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Roll No : 01
Devops Assignment : 03

Create a blank project:

Create a blank project. Create a .gitlab-ci.yml file at the root of your repository. This file is where you define the CI/CD jobs and choose the template as bash.

The screenshot shows the GitLab DevOps interface for a project named 'Assignment-3'. The project has been successfully created, as indicated by a notification banner. The project ID is 45559042. The interface displays the project's initial commit, authored by Vedika Adheli, with a commit hash of 13153861. The project is currently on the 'main' branch. The left sidebar shows the project's structure, including 'Project information', 'Learn GitLab', 'Repository', 'Issues', 'Merge requests', 'CI/CD', 'Security and Compliance', 'Deployments', 'Packages and registries', 'Infrastructure', 'Monitor', 'Analytics', 'Wiki', 'Snippets', and 'Settings'. The main content area shows the project's initial commit and a table of files. The table has three columns: 'Name', 'Last commit', and 'Last update'. The first row shows 'README.md' with the 'Initial commit' and 'just now'.

Name	Last commit	Last update
README.md	Initial commit	just now

The screenshot shows the GitLab DevOps interface for the same project 'Assignment-3'. A new file, '.gitlab-ci.yml', has been added to the project. The project's 'Learn GitLab' progress is now 17%. The main content area shows the 'Add new file' notification, authored by Vedika Adheli, with a commit hash of 79c9e6cd. The project is currently on the 'main' branch. The left sidebar shows the project's structure, including 'Project information', 'Learn GitLab', 'Repository', 'Issues', 'Merge requests', 'CI/CD', 'Security and Compliance', 'Deployments', 'Packages and registries', 'Infrastructure', 'Monitor', 'Analytics', 'Wiki', 'Snippets', and 'Settings'. The main content area shows the project's initial commit and a table of files. The table has three columns: 'Name', 'Last commit', and 'Last update'. The first row shows '.gitlab-ci.yml' with the 'Add new file' and 'just now'. The second row shows 'README.md' with the 'Initial commit' and '3 minutes ago'.

Name	Last commit	Last update
.gitlab-ci.yml	Add new file	just now
README.md	Initial commit	3 minutes ago

Register and Start Runner:

Now, you have to install the runner. Then register for the runner, Once the registration is successful start the runner.

```
C:\Gitlab-Runner>.gitlab-runner.exe install
Runtime platform                                arch=amd64 os=windows pid=22424 revision=436955cb version=15.11.0

C:\Gitlab-Runner>.gitlab-runner.exe start
Runtime platform                                arch=amd64 os=windows pid=4640 revision=436955cb version=15.11.0

C:\Gitlab-Runner>.gitlab-runner.exe register
Runtime platform                                arch=amd64 os=windows pid=7104 revision=436955cb version=15.11.0
Enter the GitLab instance URL (for example, https://gitlab.com/):
https://gitlab.com/
Enter the registration token:
GR1348941fBG8YXEAuZrpsrok54ze
Enter a description for the runner:
[LAPTOP-E3MLJE2H]: my first program
Enter tags for the runner (comma-separated):
tag1,tag2
Enter optional maintenance note for the runner:

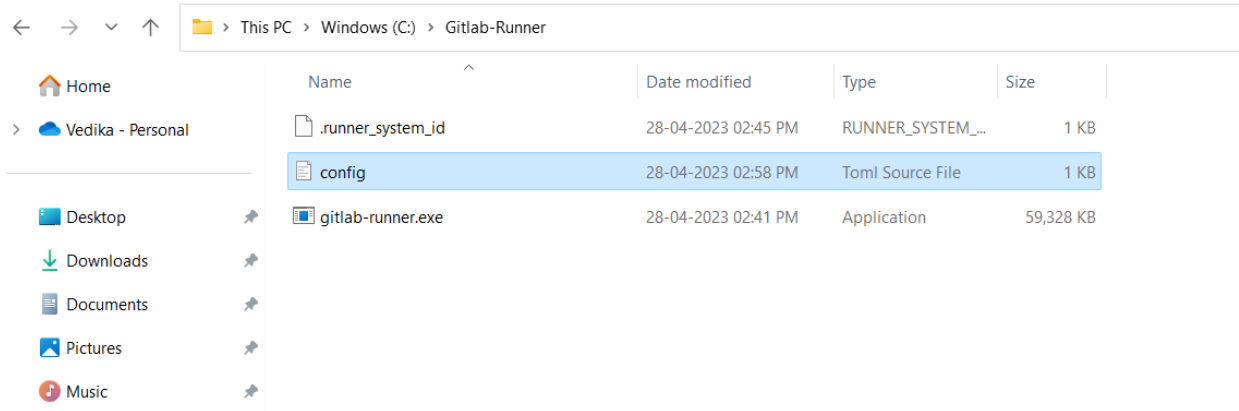
WARNING: Support for registration tokens and runner parameters in the 'register' command has been deprecated in GitLab Runner 15.6 and will be replaced with support for authentication tokens. For more information, see https://gitlab.com/gitlab-org/gitlab/-/issues/380872
Registering runner... succeeded runner=GR1348941fBG8YXEA
Enter an executor: docker-autoscaler, docker+machine, kubernetes, docker, parallels, shell, ssh, virtualbox, docker-ssh+machine, instance, custom, docker-windows, docker-ssh:
shell
Runner registered successfully. Feel free to start it, but if it's running already the config should be automatically reloaded!

Configuration (with the authentication token) was saved in "C:\\Gitlab-Runner\\config.toml"

C:\\Gitlab-Runner>
```

Change in config.toml:

Once the runner is started, In config.toml we have to change pwsh to powershell and save the changes and also delete old runners.



A screenshot of the Notepad++ editor showing the contents of the file C:\Gitlab-Runner\config.toml. The file is open in a tab titled 'config.toml'. The editor displays the following TOML configuration:

```
1 concurrent = 1
2 check_interval = 0
3 shutdown_timeout = 0
4
5 [session_server]
6   session_timeout = 1800
7
8 [[runners]]
9   name = "my first program"
10  url = "https://gitlab.com/"
11  id = 23014345
12  token = "CsFMDsyVCzGuU8Kbxx5A"
13  token_obtained_at = 2023-04-28T09:25:37Z
14  token_expires_at = 0001-01-01T00:00:00Z
15  executor = "shell"
16  shell = "powershell"
17  [runners.cache]
18    MaxUploadedArchiveSize = 0
19
```

Add New File and run pipeline:

Add a new file Hello.java in a project. Now to run a pipeline Go to settings→Runner→disable the shared runners. And Edit the project runner, click on checkbox run untagged jobs. It will start executing the pipeline in build, test, and deploy phase one by one

Project runners

These runners are assigned to this project.

Set up a project runner for a project

1. Install GitLab Runner and ensure it's running.
2. Register the runner with this URL:
<https://gitlab.com/>

And this registration token:
GR1348941fB68YXEaUzrpsrok54ze

[Reset registration token](#)

[Show runner installation instructions](#)

Shared runners

These runners are available to all groups and projects.

Each CI/CD job runs on a separate, isolated virtual machine.

Enable shared runners for this project

☒

Available shared runners: 50

- #1506020 (Hs8mheX51)
windows-shared-runners-manager-1
[shared-windows](#) [windows](#) [windows-1809](#)
- #1506021 (6QgxEPVr)
windows-shared-runners-manager-2
[shared-windows](#) [windows](#) [windows-1809](#)
- #10641681 (rysCLMGK5)
macOS shared runner (primary cluster)
[primary](#) [shared-macos-amd64](#)
- #11573930 (KzYhZxBvI)
1-blue.shared-gitlab-org.runners-manager.gitlab.com

Assigned project runners

- #23014345 (CsfMDsyVC) [Remove runner](#)
my first program
[tag1](#) [tag2](#)

Runner #23014345 [project](#)

This runner is associated with specific projects.
You can set up a project runner to be used by multiple projects but you cannot make this a shared or group runner. [Learn more.](#)

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

IP Address

Description

Maximum job timeout
Enter the number of seconds, or other human-readable input, like "1 hour". This timeout takes precedence over lower timeouts set for the project.

Tags
You can set up jobs to only use runners with specific tags. Separate tags with commas.

[Save changes](#)

Add new file

4 jobs for `main`
in 41 seconds, using 0 compute credits, and was queued for 43 seconds

latest

0e4d4d74

No related merge requests found.

Pipeline Needs Jobs 4 Tests 0

build test deploy

build1 test1 deploy1

test2

To check jobs:

Goto CI/CD → pipelines → click on run pipelines

Assignment 3

Project information

Repository

Issues

Merge requests

CI/CD

Pipelines

Editor

Jobs

Artifacts

Schedules

Security and Compliance

Deployments

Packages and registries

Infrastructure

Monitor

Analytics

Wiki

Snippets

Collapse sidebar

latest

0e4d4d74

No related merge requests found.

Pipeline Needs Jobs 4 Tests 0

Status	Job	Stage	Name	Duration	Coverage
passed	#4153079522 main → 0e4d4d74	deploy	deploy1	00:00:10 just now	
passed	#4153079521 main → 0e4d4d74	test	test2	00:00:10 just now	
passed	#4153079520 main → 0e4d4d74	test	test1	00:00:09 1 minute ago	
passed	#4153079519 main → 0e4d4d74	build	build1	00:00:10 1 minute ago	

<https://gitlab.com/my-first-group6025616/assignment-3/-/pipelines/8441734139>

🔍 Search GitLab

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🔧

📄

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📧

🔗

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🌱

Assignment-3

📁 Project Information

🔗 Learn GitLab 17%

📁 Repository

📄 Issues 0

🔄 Merge requests 0

🔧 CI/CD

🔒 Security and Compliance

📦 Deployments

📦 Packages and registries

🏠 Infrastructure

📊 Monitor

📈 Analytics

📖 Wiki

✂ Snippets

⚙ Settings

« Collapse sidebar

Devops > Assignment-3

A

Assignment-3

Project ID: 45559042

🔔

☆ Star 0

🍴 Fork 0

🔀 3 Commits

🌿 1 Branch

🏷 0 Tags

💾 0 Bytes Project Storage

🌱 Add new file

Vedika Adheli authored 13 minutes ago

dc5c8eb1

main

assignment-3 /

+

Find file

Web IDE

📄

Clone

📄 README

📄 CI/CD configuration

📄 Add LICENSE

📄 Add CHANGELOG

📄 Add CONTRIBUTING

📄 Add Kubernetes cluster

📄 Add Wiki

⚙ Configure Integrations

Name	Last commit	Last update
🔥 gitlab-ci.yml	Add new file	1 hour ago
📄 Hello.java	Add new file	13 minutes ago
📄 README.md	Initial commit	1 hour ago

📄 README.md