

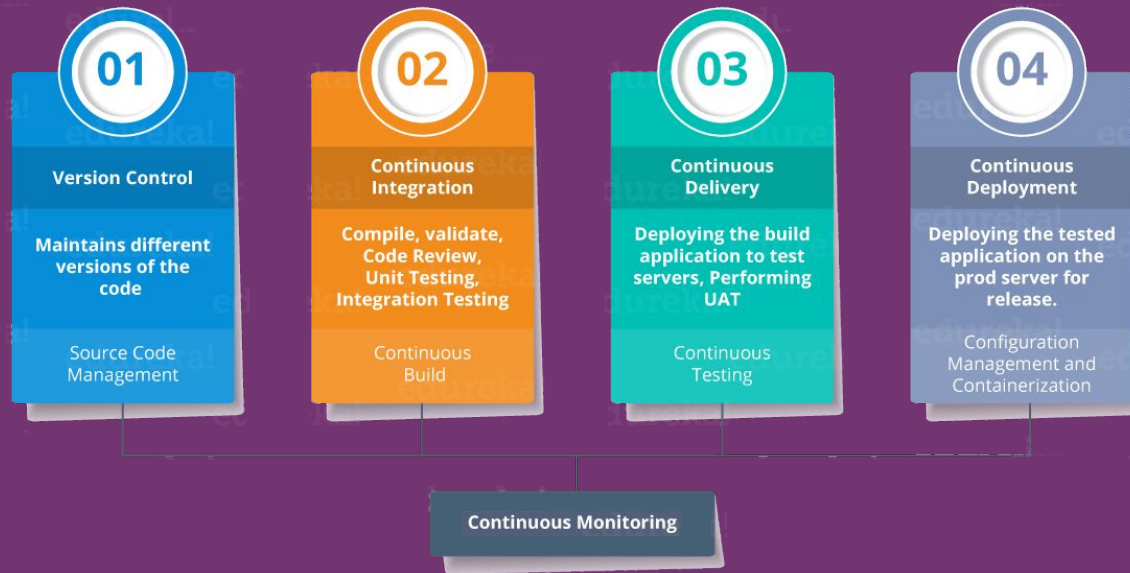
React Native CI/CD

Isumi
Jakarta, June 2020

GOALS

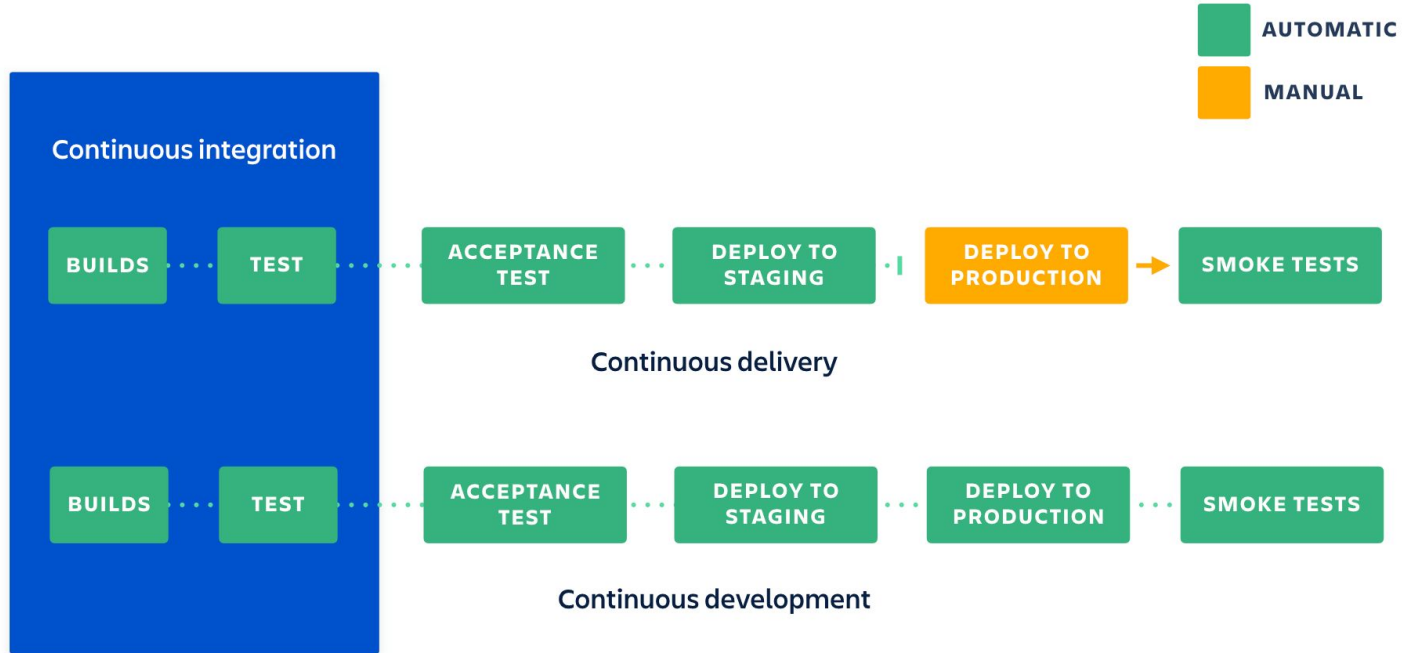
1. Intro CI/CD
2. Setup Environment on Gitlab
3. Setting Script

1. Intro CI/CD

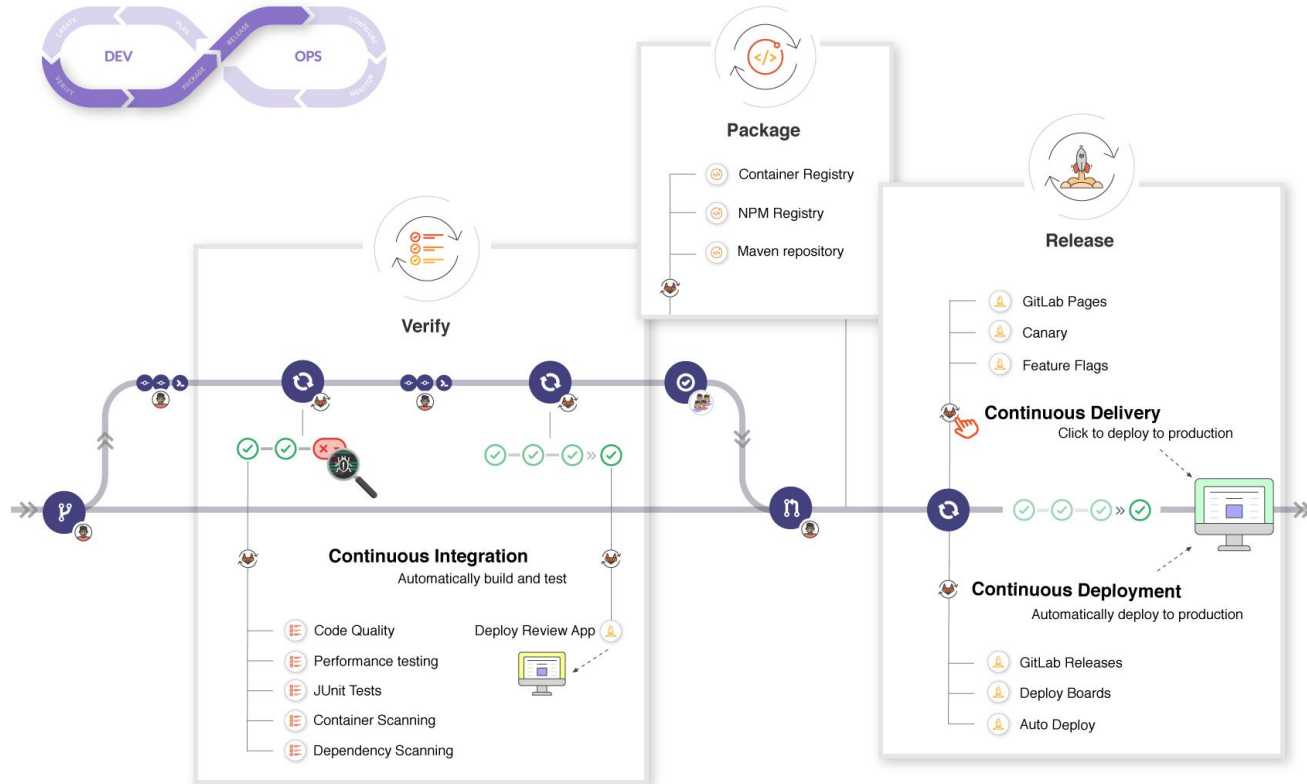




CI vs CD



CI/CD | Workflow



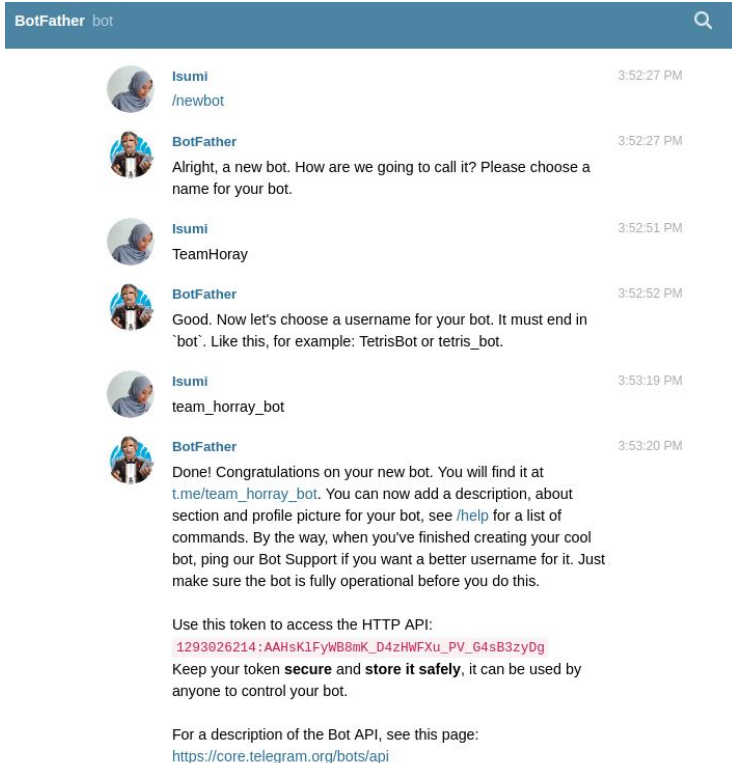
2. Setup Environment

- Setting Bot on Telegram
- Setting Environment Variables on Gitlab





Setting Bot | Telegram



1. Search & Add User: BotFather
2. Type: /newbot
3. Create a name for bot
4. Create a username for bot
5. Copy the token



Setting Bot | Telegram

6. Paste the token into this format url:
`api.telegram.org/bot<token>/getUpdates`

The screenshot shows a web browser with the URL `api.telegram.org/bot1293026214:AAHsKlFyWB8mK_D4zHWFxu_PV_G4sB3zyDg/getUpdates`. The token `1293026214:AAHsKlFyWB8mK_D4zHWFxu_PV_G4sB3zyDg` is circled in red. Below the browser, a JSON response is displayed in a code editor:

```
{
  ok: true,
  result: [
    {
      update_id: 85546562,
      message: {
        message_id: 3,
        from: {
          id: 115120260,
          is_bot: false,
          first_name: "Isumi",
          last_name: "Karina",
          username: "Isumi_Karina",
          language_code: "en"
        },
        chat: {
          id: 115120260,
          first_name: "Isumi",
          last_name: "Karina",
          username: "Isumi_Karina",
          type: "private"
        },
        date: 1592126181,
        text: "Hei"
      }
    }
  ]
}
```

7. Create a message using this format:
`api.telegram.org/bot<token>/sendMessage?chat_id=<id>&text=<your_text>`

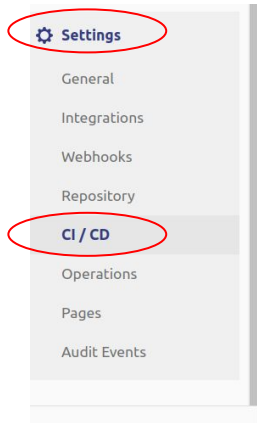
The screenshot shows a web browser with the URL `api.telegram.org/bot1293026214:AAHsKlFyWB8mK_D4zHWFxu_PV_G4sB3zyDg/sendMessage?chat_id=115120260&text=Yes%20dear`. The token `1293026214:AAHsKlFyWB8mK_D4zHWFxu_PV_G4sB3zyDg` and the chat ID `115120260` are circled in red. Below the browser, a JSON response is displayed in a code editor:

```
{
  ok: true,
  result: {
    message_id: 4,
    from: {
      id: 1293026214,
      is_bot: true,
      first_name: "TeamHoray",
      username: "team_horray_bot"
    },
    chat: {
      id: 115120260,
      first_name: "Isumi",
      last_name: "Karina",
      username: "Isumi_Karina",
      type: "private"
    },
    date: 1592126325,
    text: "Yes dear"
  }
}
```




Setting Environment Variables | Gitlab



1. Setings -> CI/CD
2. Variables -> Collapse
3. Add Variable: Token & Chat ID



Variables ?

Environment variables are applied to environments via the runner. They can be protected by only exposing them to protected branches or tags. Additionally, they can be masked so they are hidden in job logs, though they must match certain regexp requirements to do so. You can use environment variables for passwords, secret keys, or whatever you want. You may also add variables that are made available to the running application by prepending the variable key with `K8S_SECRET_`. [More information](#)

Environment variables are configured by your administrator to be **protected** by default

Type	↑ Key	Value	Protected	Masked	Environments
Variable	TG_BOT_TOKEN	*****	✓	✓	All (default) 
Variable	TG_CHAT_ID	*****	✓	✓	All (default) 

Reveal values

Add Variable

Collapse



Setting Environment Variables | Gitlab

Update variable

✕

Key

TG_BOT_TOKEN

Value

https://api.telegram.org/bot1293026214:AAHsKlFyWB8mK_D4zHWFxu_PV_G4sB3zyDg

Type

Variable

Environment scope

All (default)

Flags

☒ Protect variable ⓘ

Export variable to pipelines running on protected branches and tags only.

☒ Mask variable ⓘVariable will be masked in job logs. Requires values to meet regular expression requirements. [More information](#)

Cancel

Delete variable

Update variable

Update variable

✕

Key

TG_CHAT_ID|

Value

115120260

Type

Variable

Environment scope

All (default)

Flags

☒ Protect variable ⓘ

Export variable to pipelines running on protected branches and tags only.

☒ Mask variable ⓘVariable will be masked in job logs. Requires values to meet regular expression requirements. [More information](#)

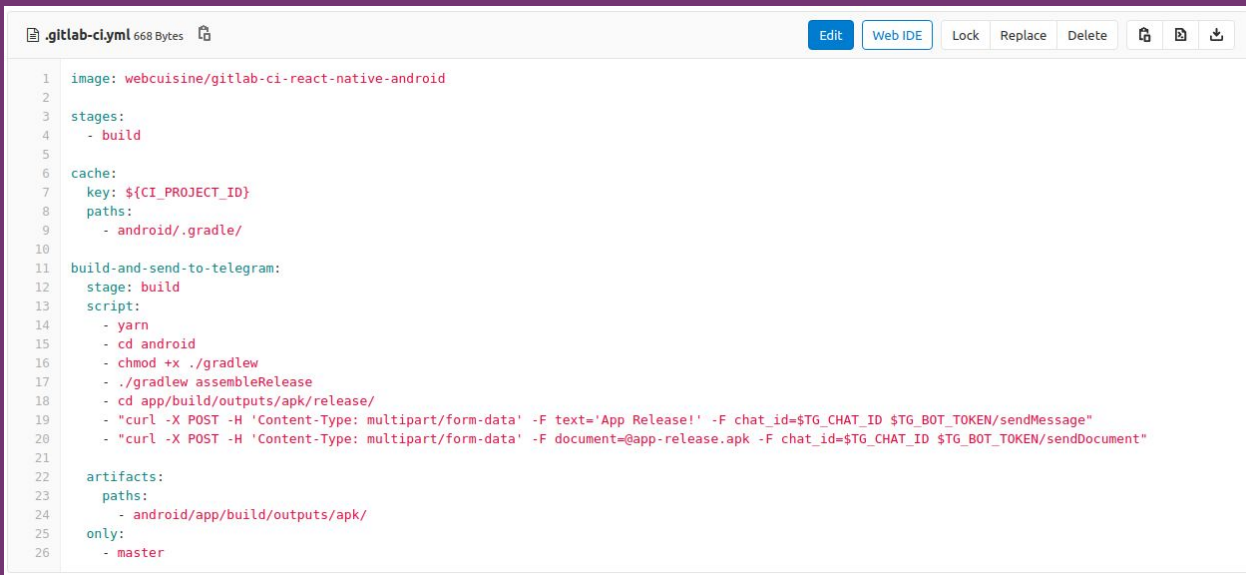
Cancel

Delete variable

Update variable

3. Setting Script

1. In your RN project, add file: `.gitlab-ci.yml`
2. Push the update: `git add + commit + push`
3. Pipeline will run automatically



```
1 image: webcuisine/gitlab-ci-react-native-android
2
3 stages:
4   - build
5
6 cache:
7   key: ${CI_PROJECT_ID}
8   paths:
9     - android/.gradle/
10
11 build-and-send-to-telegram:
12   stage: build
13   script:
14     - yarn
15     - cd android
16     - chmod +x ./gradlew
17     - ./gradlew assembleRelease
18     - cd app/build/outputs/apk/release/
19     - "curl -X POST -H 'Content-Type: multipart/form-data' -F text='App Release!' -F chat_id=$TG_CHAT_ID $TG_BOT_TOKEN/sendMessage"
20     - "curl -X POST -H 'Content-Type: multipart/form-data' -F document=@app-release.apk -F chat_id=$TG_CHAT_ID $TG_BOT_TOKEN/sendDocument"
21
22 artifacts:
23   paths:
24     - android/app/build/outputs/apk/
25 only:
26   - master
```



passed Job #594326651 triggered 32 minutes ago by Isumi

```

1 Running with gitlab-runner 13.0.0 (c127439c)
2   on docker-auto-scale fa6cab46
3 Preparing the "docker+machine" executor 01:27
4 Using Docker executor with image webcuisine/gitlab-ci-react-native-android ...
5 Pulling docker image webcuisine/gitlab-ci-react-native-android ...
6 Using docker image sha256:38633ab9f2138ef0782113f913954407a492300686e3d9fd4c0228ac9713ad4 for webcuisine/gitlab-ci-react-native-android ...
7
8 Preparing environment 00:05
9 Running on runner-fa6cab46-project-19203698-concurrent-0 via runner-fa6cab46-srm-1592134797-1f1b1e36...
10
11 Getting source from Git repository 00:16
12 $ eval "$CI_PRE_CLONE_SCRIPT"
13 Fetching changes with git depth set to 50...
14 Initialized empty Git repository in /builds/isumizumi/wfh/.git/
15 Created fresh repository.
16 From https://gitlab.com/isumizumi/wfh
17 * [new ref]      refs/pipelines/156035024 -> refs/pipelines/156035024
18 * [new branch]   master -> origin/master
19 Checking out c8e2a3bf as master...
20 Skipping Git submodules setup
21 Restoring cache 00:02
22 Checking cache for 19203698...
23 FATAL: file does not exist
24 Failed to extract cache
25
26 Downloading artifacts 00:01
27 Running before_script and script 05:52
28 Running after_script 00:01
29 Saving cache 00:03
30 Creating cache 19203698...
31 android/.gradle/: found 25 matching files
32 Uploading cache.zip to https://storage.googleapis.com/gitlab-com-runners-cache/project/19203698/19203698
33 Created cache
34 Uploading artifacts for successful job 00:04
35 Job succeeded

```

Isumi > WFH > Pipelines

All 4					Pending 0	Running 0	Finished 4	Branches	Tags	Run Pipeline	Clear Runner Caches	CI Lint
Filter pipelines												
Status	Pipeline	Triggerer	Commit	Stages								
passed	#150035024 latest		!master -> c8e2a3bf update ci-cd			00:07:51		1 hour ago				
failed	#150022400 latest		!master -> c8e2a3bf update ci-cd			00:06:42		2 hours ago				
failed	#150020314		!master -> 2ab23c43 Update gitlab-ci.yml			00:07:25		2 hours ago				
failed	#150018864		!master -> 9563ba8d Add .gitlab-ci.yml			00:06:57		3 hours ago				

References

- [Gitlab Docs](#)
- [React Native with Gitlab CI/CD](#)
- [Publishing App: Android](#)
- [Publishing App: iOS](#)