



Mergify

Mergify: Faster & safer code merge 🤖

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Agenda



Problem



Mergify



Workflow



Configuration



Check report



Merge Queue



Menti

Problem

Merging code is Time Consuming

- Lots of pull requests to be reviewed, approved and merged
- Decide reviewers, assign labels, add comments...
- Rebase branches



Introducing Mergify!

A Pull Request
automation tool

- Automatic merging
- Commenting, labeling, closing
- Merge Queues

Github Integration,
Works with any CI
tool



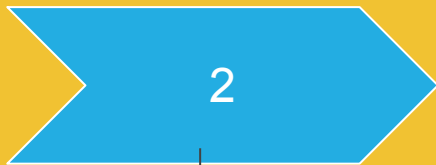
Mergify

Mergify Workflow

A new pull request is created or updated.
Mergify is triggered



Run configuration file, check rules



If rule(s) are satisfied,
actions are executed
e.g. Label, merge



An automated workflow
which handles pull
requests for you!





Configuration

- Configure YAML file
- Rules and Actions


Example:

```
pull_request_rules:  
  - name: automatic merge for main when reviewed and CI passes  
    conditions:  
      - check-success=Travis CI - Pull Request  
      - "#approved-reviews-by>=2"  
      - base=main  
      - label=ready-to-merge  
    actions:  
      merge:  
        method: merge
```



Check report







AbyelT commented 5 minutes ago

Owner 

No description provided.



 Test mergify



Verified  8df178d


 **mergify**  merged commit **0606e27** into **main** 4 minutes ago

Hide details Revert

2 checks passed

 **build** [Details](#)

 **Summary** 1 rule matches [Details](#)



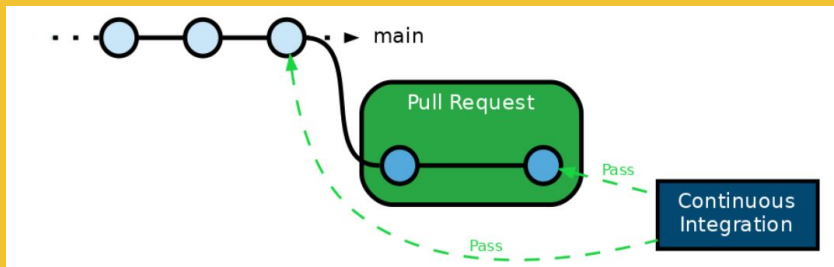
Pull request successfully merged and closed

You're all set—the **Mergify-test** branch can be safely deleted.

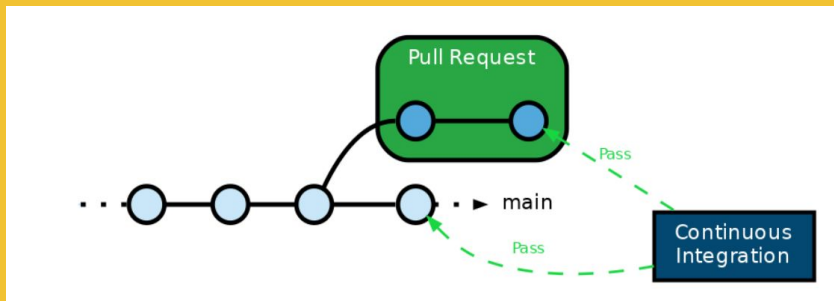
Delete branch

Merge Queues: The problem

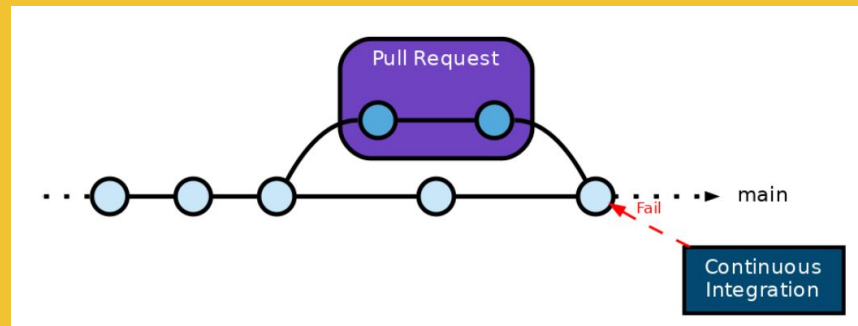
1.



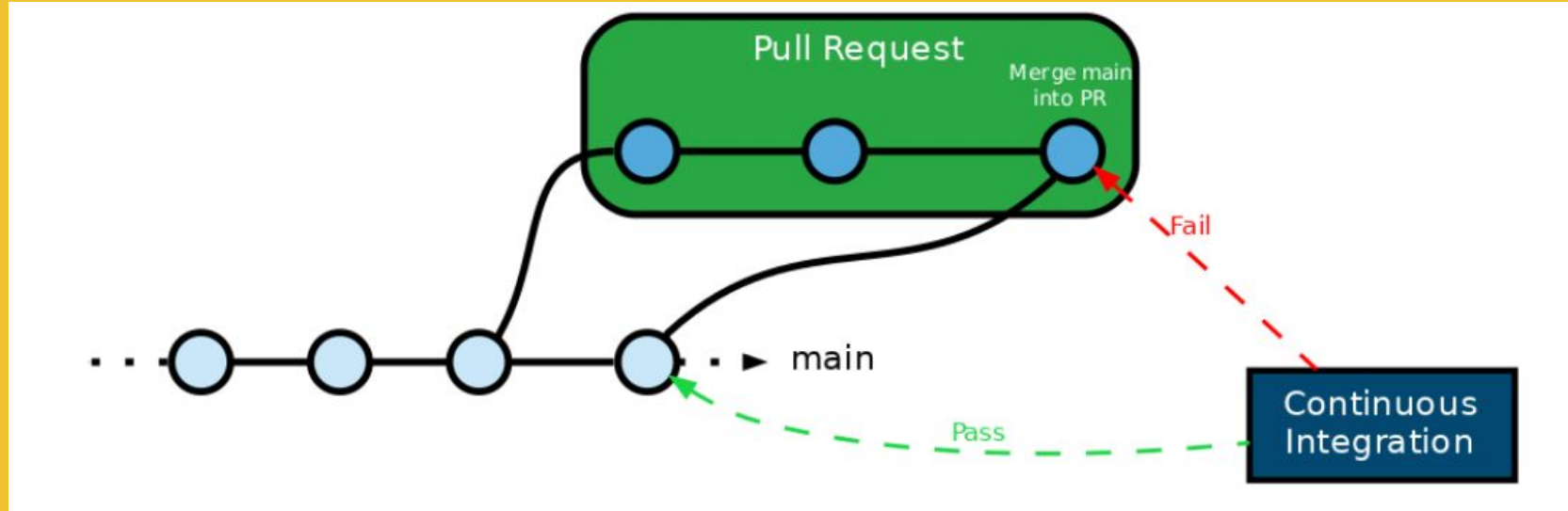
2.



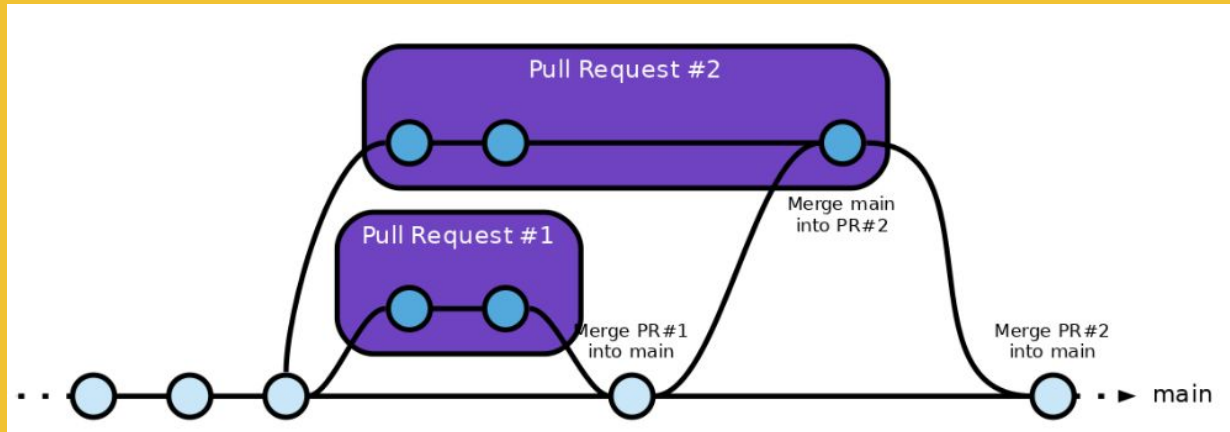
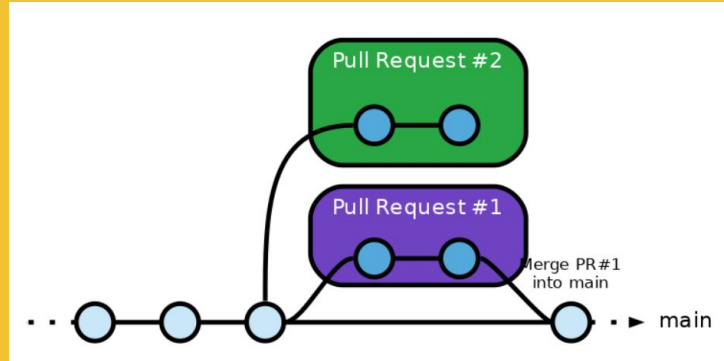
3.



Merge Queues: The solution (1)



Merge Queues: The solution (2)



Merge Queues: A simple example

```
queue_rules:
  - name: default
    conditions: [] # no extra conditions needed to get merged

pull_request_rules:
  - name: merge using the merge queue
    conditions:
      - base=main
      - "#approved-reviews-by>=2"
      - check-success=Travis CI - Pull Request
    actions:
      queue:
        name: default
```

- Queueing Merges Sequentially

Merge Queues: Higher priority example

```
queue_rules:
- name: urgent
  conditions:
    # A PR can be queued without the CI passing, but needs to get merged though
    - check-success=Travis CI - Pull Request

- name: default
  conditions: []

pull_request_rules:
- name: move to urgent queue when 2 reviews and label urgent
  conditions:
    - base=main
    - "#approved-reviews-by>=2"
    - label=urgent
  actions:
    queue:
      name: urgent

- name: merge using the merge queue
  conditions:
    - base=main
    - "#approved-reviews-by>=2"
    - check-success=Travis CI - Pull Request
    - label!=urgent
  actions:
    queue:
      name: default
```

- Multiple Queues
- Prioritize PRs
- Premium Feature

They use Mergify

moz://a

aws



fedora

Uber

iCARE

NETFLIX

Pitch

DFINITY

SiFive

Airtable

IBM

Key takeaway

- Mergify helps automate your GitHub workflow
- Automate your Pull Request actions.





Thank you!