GitHub Actions
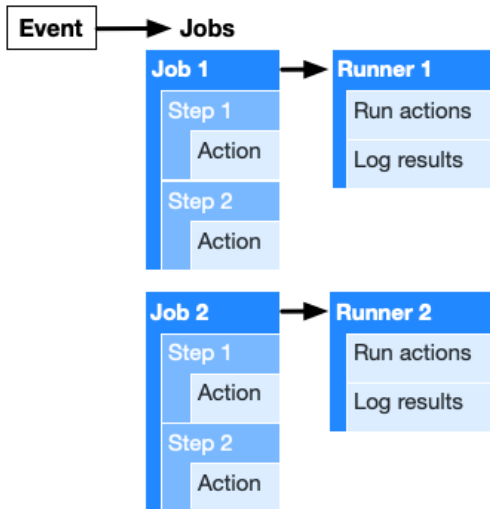
Nikhil Dhandre

February 26, 2021

Introduction

- **GitHub Actions help you automate tasks within your software development life cycle**
- **GitHub Actions are event-driven**

digitronik **GitHub Actions**

Components

- **Workflows**
- **Events**
- **Jobs**
- **Steps**
- **Actions**
- **Runners**

Webhook events

- **check_run**
- **check_suite**
- **create**
- **delete**
- **deployment**
- **deployment_status**
- **fork**
- **issue_comment**
- **issues**
- **label**
- **milestone**
- **page_build**
- **project**
- **project_card**
- **project_column**
- **public**
- **pull_request**
- **pull_request_review**
- **pull_request_review_comment**
- **pull_request_target**
- **push**
- **registry_package**
- **release**
- **status**
- **workflow_run**

Activity type

Every event has respective activity types. `pull_request` **activity types.**

- **assigned**
- **unassigned**
- **labeled**
- **unlabeled**
- **opened**
- **edited**
- **closed**

- **reopened**
- **synchronize**
- **ready_for_review**
- **locked**
- **unlocked**
- **review_requested**
- **review_request_removed**

Supported-Platfrom

1. **Ubuntu 20.04 LTS**
2. **Ubuntu 18.04 LTS**
3. **Ubuntu 16.04 LTS**
4. **Windows Server 2019**
5. **Windows Server 2016**
6. **MacOS 10.15**
7. **MacOS 11.0**

Note: These are updated weekly

Common checks for Python Project

- **Code quality**
- **Unit tests**
- **Different platforms**
- **Build and Verify Package**

Job, which can create an issue and send a notification to the IRC channel.