

Kompositní GitHub akce pro Testing Farmu

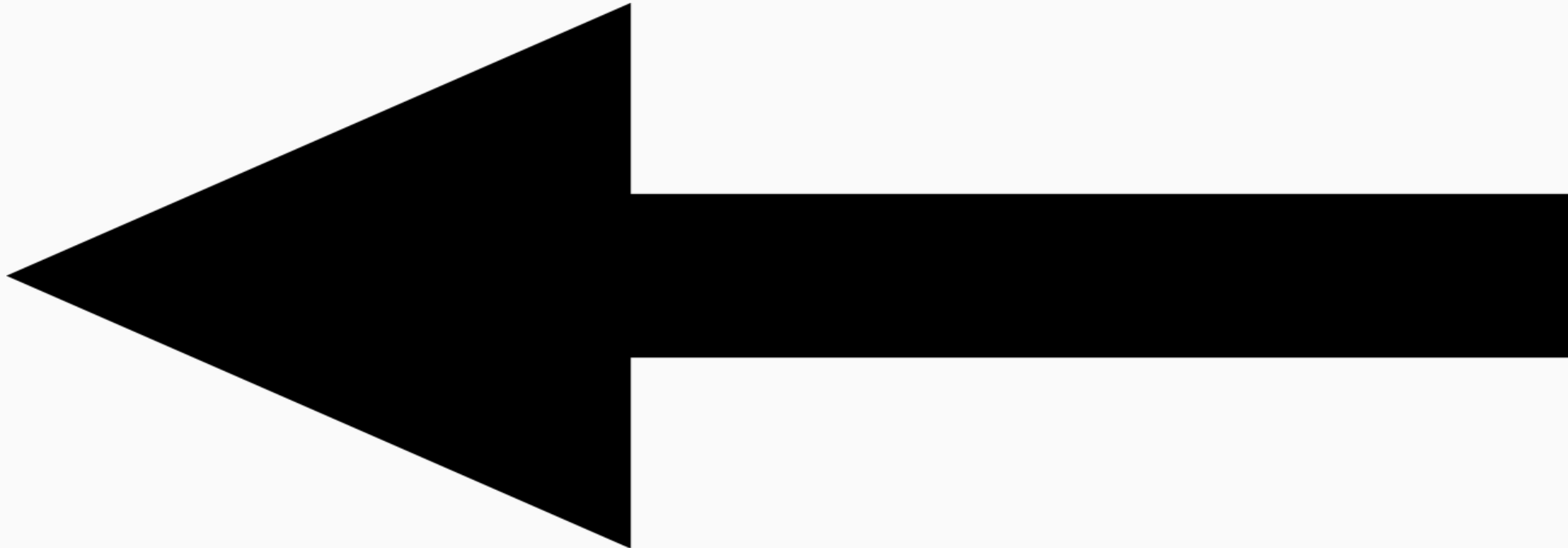
18.09.2022

Petr Hráček

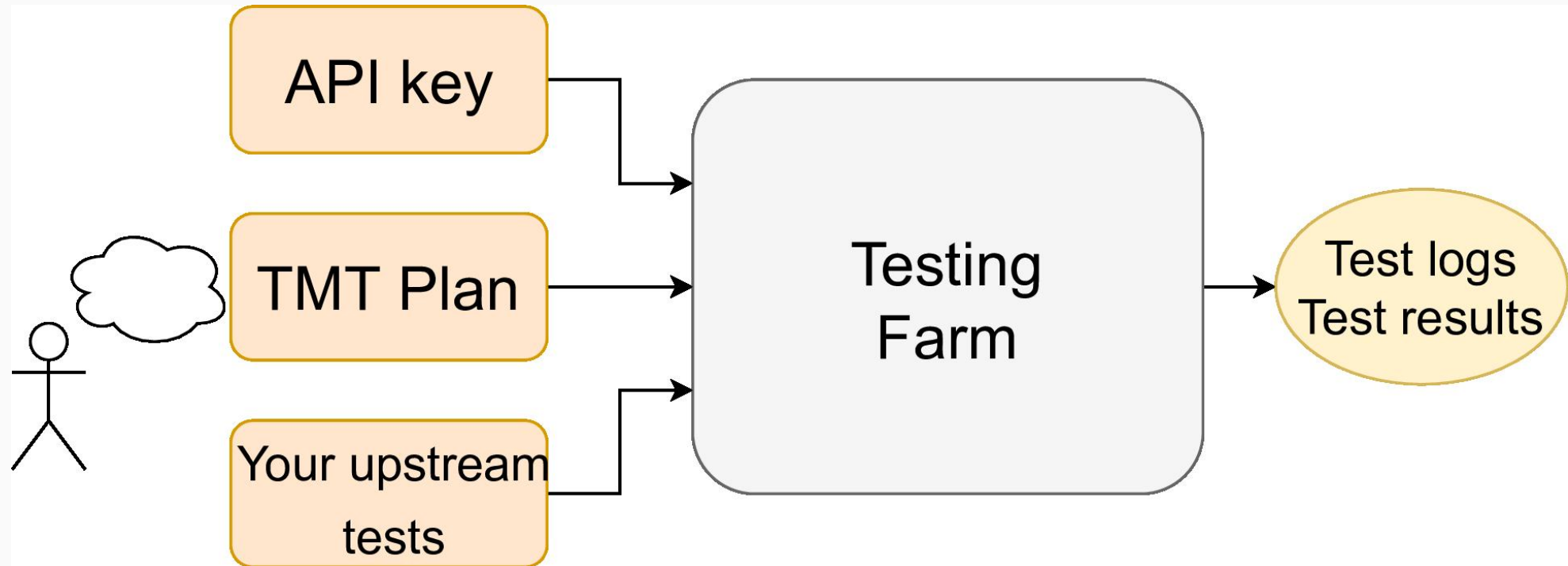
Agenda

1. Motivace (Proč poslouchat tuto prezentaci?)
2. Co je Testing Farma
3. Co jsou Github Actions
4. Jak spojit tyto dva “frameworky” pro náš účel
5. Co si odnést - použití Github Actions s Testing Farm ve Vašich projektech

**Testujme dříve raději
než později?**



Testing Farm



Testing Farm

- Podporované host platformy
- veřejný “ranč”
- soukromý “ranč”
- HTTP založené API
- TMT plan pro testy

Testing Farm - TMT plan - prepare

summary: TMT/TFT plan for running CentOS 7 docker or OpenShift 3 tests on CentOS-7

description: |

Run CentOS7 tests on CentOS-7

prepare:

how: shell

script: |

```
# TODO install packages by ansible playbook
```

```
yum -y install rh-python36-python-virtualenv origin-clients distgen
```

```
https://kojipkgs.fedoraproject.org//packages/source-to-image/1.1.7/3.fc29/x86\_64/source-to-image-1.1.7-3.fc29.x86\_64.rpm #source-to-image
```

```
mkdir -p /etc/rhsm/ca && touch /etc/rhsm/ca/redhat-uep.pem
```

```
git clone $REPO_URL /root/$REPO_NAME
```

```
cd /root/$REPO_NAME
```

```
git fetch origin +refs/pull/*:refs/remotes/origin/pr/*
```

```
git checkout origin/pr/$PR_NUMBER/head
```

```
git submodule update --init
```

execute:

how: tmt

Testing Farm - TMT plan - run

discover:

how: shell

tests:

- name: Run CentOS7 tests on CentOS-7, depends on TEST_NAME

framework: shell

test: cd /root/\$REPO_NAME && make \$TEST_NAME TARGET=\$OS

SINGLE_VERSION=\$SINGLE_VERSION

duration: 3h

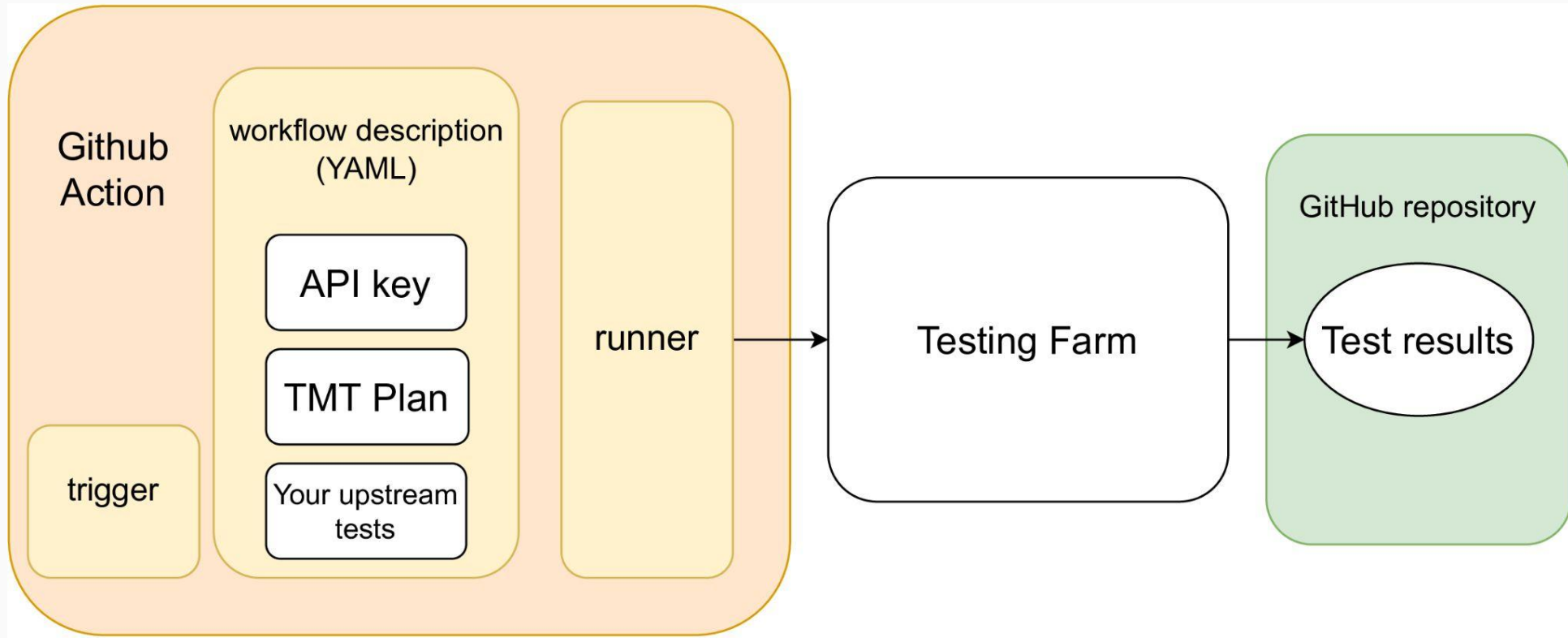
Github Actions

- Automatizovat všechna workflow v CI / CD ve Vašich projektech
- Dostupné runnery
- Formát akcí
- Lokální testování
 - <https://github.com/nektos/act>

Github Actions - triggery

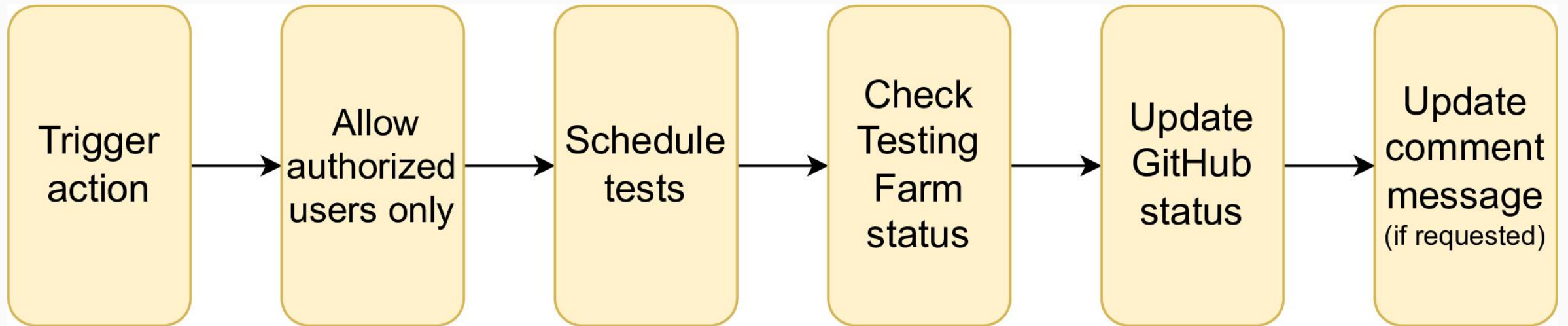
- Triggery
 - Merge pull request - Testy, push to Quay.io
 - Release - PyPi, Copr a další ;)
 - Komentář
 - Plánované

Testing Farm jako GitHub Action - návrh



Testing Farm jako GitHub Action

.. krok po kroku ..



Testing Farm jako GitHub Action

.. příklad ..

1. Triggered by `issue_comment`, NOT automatically ([link](#))
2. Allow only owners or maintainers of the repository to run the tests ([link](#))
3. Schedule tests on Testing Farm via its HTTP API ([link](#))
4. Periodically check progress of testing (via Testing Farm's HTTP API) ([link](#))
5. Get final reports, when testing is finished ([link](#))
6. Update PR status and add PR comment with test case results (optional) ([link](#))

GitHub Marketplace



GitHub Action

Schedule tests on Testing Farm



v1.2.11

Latest version

testing-farm-as-github-action

GitHub Marketplace

- Minimalistické použití:

- uses: actions/checkout@v2
 - uses: sclorg/testing-farm-as-github-action@v1
- with:
- ```
api_key: ${{ secrets.API_KEY }}
git_url: ${{ matrix.tmt_plan }}
```

# Zobrazení výsledků



phracek commented on Apr 13

Member

Author



[test-all]



## Some checks were not successful

[Hide all checks](#)

2 failing and 8 successful checks



Testing Farm - RHEL7 - OpenShift 3 — Build finished

[Details](#)



Testing Farm - RHEL8 — Build finished

[Details](#)



Testing Farm - CentOS Stream 8 — Build finished

[Details](#)



Testing Farm - CentOS Stream 9 — Build finished

[Details](#)



Testing Farm - CentOS7 — Build finished

[Details](#)



Testing Farm - CentOS7 - OpenShift 3 — Build finished

[Details](#)

Demo



# Linky

- [Testing Farm as a GitHub Action in the Marketplace](#)
- [Testing Farm onboarding](#)
- [Testing Farm documentation](#)
- [Software Collections organization, with examples](#)
- [Testing Management Tool documentation](#)
- Further information about Testing Farm + GitHub Actions ([link](#)) ([link](#))

"So have you already started with integrating Testing Farm as a GitHub Action into your project?"

Petr Hracek