Travis-CI - Automerge GitHub Branch

# Script

#!/bin/bash -ev

# TravisCI Automerge PR Script

if [ "${TRAVIS\_PULL\_REQUEST}" = "false" ]; then

>&2 echo 'Not in pull request, skipping automerge'

exit 1

fi

# Ensure all required environment variables are present

if [ -z "$TRAVIS\_REPO\_SLUG" ] || \

[ -z "$TRAVIS\_PULL\_REQUEST\_BRANCH" ] || \

[ -z "$TRAVIS\_BRANCH" ] || \

[ -z "$TRAVIS\_PULL\_REQUEST\_SHA" ] || \

[ -z "$GITHUB\_SECRET\_TOKEN" ] || \

[ -z "$GIT\_COMMITTER\_EMAIL" ] || \

[ -z "$GIT\_COMMITTER\_NAME" ]; then

>&2 echo 'Required variable unset, automerging failed'

exit 1

fi

echo : "

Travis-ci automerge pull request script

Repo: $TRAVIS\_REPO\_SLUG

Merging: $TRAVIS\_PULL\_REQUEST\_BRANCH >> $TRAVIS\_BRANCH

"

# Checkout full repo

repo\_temp=$(mktemp -d)

git clone "https://github.com/$TRAVIS\_REPO\_SLUG" "$repo\_temp"

cd $repo\_temp

printf 'Checking out %s\n' "$TRAVIS\_BRANCH"

git checkout "$TRAVIS\_BRANCH"

# Ensure PR commit is head of branch to be merged

branch\_head\_commit=$(git rev-parse HEAD)

if [ $branch\_head\_commit != $TRAVIS\_PULL\_REQUEST\_SHA]; then

>&2 echo "Pull request commit ($TRAVIS\_PULL\_REQUEST\_SHA) and does not match HEAD of branch to be merged ($branch\_head\_commit), automerge failed"

exit 1

fi

printf 'Merging %s\n' "$TRAVIS\_PULL\_REQUEST\_BRANCH"

git merge "$TRAVIS\_PULL\_REQUEST\_SHA"

printf 'Pushing to %s\n' "$TRAVIS\_REPO\_SLUG"

push\_uri="https://$GITHUB\_SECRET\_TOKEN@github.com/$TRAVIS\_REPO\_SLUG"

# Push to github to complete merge

# Redirect to /dev/null to avoid secret leakage

git push "$push\_uri" "$TRAVIS\_BRANCH" >/dev/null 2>&1

git push "$push\_uri" :"$TRAVIS\_PULL\_REQUEST\_BRANCH" >/dev/null 2>&1

# Detail

#### Automatically merge successful pull requests on TravisCI

Add to project in suitable scripts directory:

```

/scripts/travis-ci/travis-ci-automerge-script.sh

```

Then include under the after\_success key in ```.travis.yml```

```yml

after\_success:

- /scripts/travis-ci/travis-ci-automerge-script.sh

```

Generate a GitHub Personal Access Token in [github.com/settings/tokens](https://github.com/settings/tokens) with public or private repo access.

Ensure correct environment variables are set in the build, either using [Travis secure values](https://docs.travis-ci.com/user/encryption-keys/#usage) or adding directly on [travis-ci.com](<https://travis-ci.com>).

```sh

GIT\_COMMITTER\_EMAIL=<git-email>

GIT\_COMMITTER\_NAME=<git-name>

GITHUB\_SECRET\_TOKEN=<github-personal-access-token>

```

Note: when adding environment variables as Travis-CI secure values they will only be available in pull requests created by trusted users. Therefore, if an outside user makes a pull request to your repository, they will not have access to your access token and the pull request will not be merged.

Note: Depending on when your travis-ci account was made, secret may require encrypting with the ``` --com``` flag. See [this stackoverflow]( <https://stackoverflow.com/questions/58152790/why-does-my-secure-travis-ci-environment-variable-not-work>) for more details.