

Securing GitHub workflows

Martin Pitt <mpitt@redhat.com>

Cyborg Infrastructure Seminar 2022

Naïve situation

(until ~ one year ago)

- Single almighty `github.com/cockpituous` token
- cockpit-project org wide secrets
- every developer does `npm install` all the time

Now

- *zero* custom GitHub tokens for workflows
- low-priv token for custom infra (`read:org`, `repo:status`)
- workflows minimize privileges
- compartmentalized secrets
- no `npm install` on dev machines

Intra-project: Default GitHub token

GitHub: `${{secrets.GITHUB_TOKEN}}` ([documentation](#))

GitLab: `${CI_JOB_TOKEN}` ([documentation](#))

`permissions:`


`contents: read`

`packages: write`

example workflow: [refresh unit-tests container](#)

Inter-project: Deploy keys

cockpit-weblate repo public key:




/repos/cockpit-project/cockpit/environments/cockpit-weblate/secrets/DEPLOY_KEY
SHA256: +VrTm/JP5VaA8DomwjPfKgP74eYIuk8s8ulug9RCKNY
Added on Dec 8, 2021 via personal access token owned by @allisonkarlitskaya
Last used within the last week — Read/write

SSH

Delete

secret key on cockpit repo:

 DEPLOY_KEY Updated on Dec 8, 2021

Update Remove

- uses: actions/checkout@v2
with:
repository: \${github.repository}-weblate
ssh-key: \${secrets.WEBLATE_DEPLOY_KEY}

POT refresh workflow

Deploy key management













github-upload-secrets script

cockpit's deploy keys

GitHub documentation

GitLab documentation

Environments

flathub	 1 secret 
self	 1 secret 
cockpit-weblate	 1 secret 
cockpit-dist	 1 secret 
node-cache	 1 secret 
release	 5 secrets 

in `weblate-sync-pot.yml`:

```
environment: cockpit-weblate
```

NPM cache

Recent attack on the npm coa module:

```
"preinstall": "start /B node compile.js & node compile.js"
```

Org-wide `node_modules/` `cache`, used as git submodule

`npm install cache builder workflow`