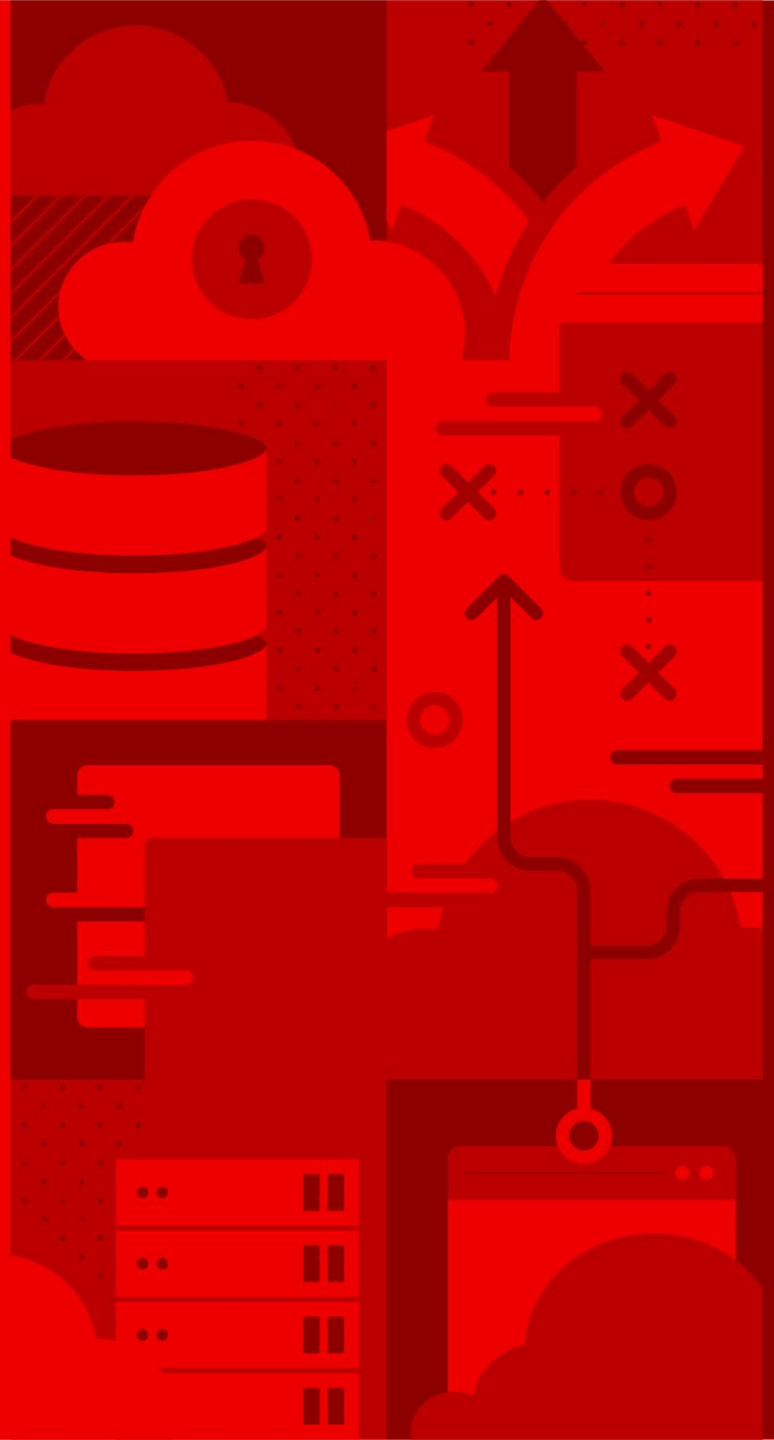

FetchIt

GitOps tool for Podman

Red Hat

Problem

Managing container deployments at scale can be difficult especially with the movement to push early and push often. Tooling and platforms may force organizations to choose a solution based on availability rather than one that fits the exact workload.

Why FetchIt?

- GitOps driven deployment
- Host interacts directly with Git rather than through an intermediary
- Podman Go bindings
- Not Kubernetes dependent
- Lift and shift hardware

How does Fetchit Happen?

- Pull in git/image assets
- Cron based scheduling
- Podman socket
- Dynamic reload of FetchIt configuration

Methods

28 lines (28 sloc) | 611 Bytes

Raw Blame

```yaml
targetConfigs:
- name: fetchit
  url: http://github.com/containers/fetchit
  raw:
  - name: raw-ex
    targetPath: examples/raw
    schedule: "*/1 * * * *"
    skew: 10000
    pullImage: false
  systemd:
  - name: sysd-ex
    targetPath: examples/systemd
    root: true
    enable: false
    schedule: "*/1 * * * *"
    skew: 1000
  ansible:
  - name: ans-ex
    targetPath: examples/ansible
    sshDirectory: /root/.ssh
    schedule: "*/1 * * * *"
  filetransfer:
  - name: ft-ex
    targetPath: examples/filetransfer
    destinationDirectory: /tmp/ft
    schedule: "*/1 * * * *"
    skew: 3000
  branch: main
```

Configuration Reload

16 lines (16 sloc) | 558 Bytes

Raw | Blame

```yaml
# for this test, start with this config, then wait to be sure the
# targetConfigs from .fetchit/config.yaml are populated
# and for follow-up test, push a change to the config and confirm
# new targetConfigs are fetched & run
configReload:
  configURL: https://raw.githubusercontent.com/containers/fetchit/main/examples/config-reload.yaml
  schedule: "*/2 * * * *"
targetConfigs:
- name: fetchit
  url: https://github.com/containers/fetchit
  raw:
  - name: raw-ex
    targetPath: examples/raw
    schedule: "*/1 * * * *"
    pullImage: false
  branch: main
```

Clean Up

4 lines (4 sloc) | 61 Bytes

Raw | Blame

```
prune:
  All: true
  Volumes: true
  schedule: "*/1 * * * *"
```


Red Hat

What's next?

- GitSign to verify commits
- Image verification cosign or similar solution
- Ansible-pull

Demos

- Scale Up
- Podman Kube + Clean up
- Podman Systemd

Where's the code?

https://github.com/containers/fetchit