Operating cf-toolsuite on TAS

Prerequisites

```
# Intel, AMD, or ARM 64-bit laptop, desktop, workstation, server, or virtual machine
# Mac OS Big Sur (or better), Ubuntu 20.04 (or better), Windows 10/11 (w/ Windows Subsystem for Linux)

# Github account owner credentials
# Github CLI installed and authenticated
# http CLI installed
# cf CLI installed
# sdk CLI installed - also install Java 21 with  sdk install java 21.0.2-librca
# CF API host and credentials
# Ops Manager host and credentials
# Tanzu Network API Token
# An email account (with support for SMTP/TLS)
# Your favorite browser (e.g., Brave, Chrome, Edge, Firefox)
```

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Step 1: Clone and fork source code repositories

```
gh repo clone cf-toolsuite/home
```

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Step 2: Change directories

```
cd home
```

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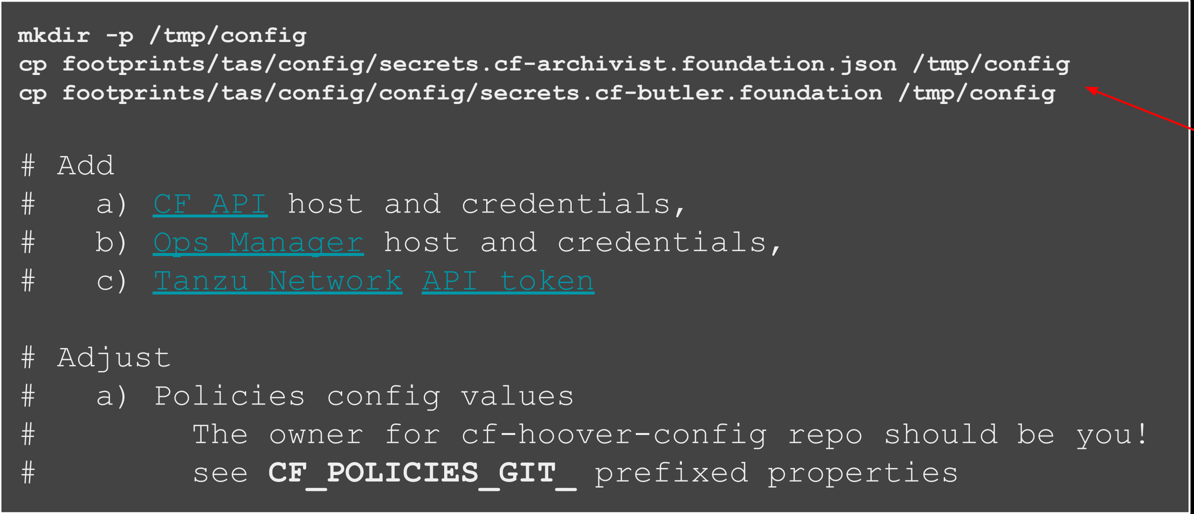
Step 3: Copy sample configuration and edit secrets.cf-archivist.foundation.json and secrets.cf-butler.foundation.json



```
mkdir -p /tmp/config
cp footprints/tas/config/secrets.cf-archivist.foundation.json /tmp/config
cp footprints/tas/config/config/secrets.cf-butler.foundation /tmp/config

# Add
#   a) CF API host and credentials,
#   b) Ops Manager host and credentials,
#   c) Tanzu Network API token

# Adjust
#   a) Policies config values
#        The owner for cf-hoover-config repo should be you!
#        see CF_POLICIES_GIT_ prefixed properties
```

It's recommended that you replace ".foundation." in the configuration file names here with some other identifiable name.

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Step 4: Invoke e2e-install.sh

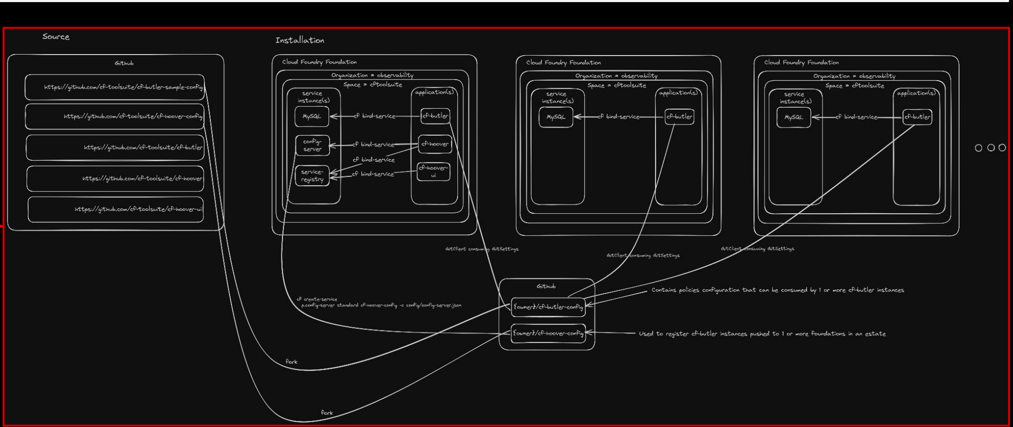
Remember that everything is cloned under the `/tmp` directory

```
# Review the contents of the script
cat scripts/e2e-install.sh

# The first time you invoke this script you will want to clone/fork repos with intent to prepare for installing the full complement of
cf-toolsuite on a single target foundation, like so:
./scripts/e2e-install.sh {cf-api} {cf-admin-username} {cf-admin-password} true true full-install {foundation}

# The second and subsequent times you invoke this script, you will likely run with:
./scripts/e2e-install.sh {cf-api} {cf-admin-username} {cf-admin-password} false false {mode} {foundation}
```

Imagine all the orchestration that is required to lay down this footprint.



Source
Installation
Github
https://github.com/cf-toolsuite/cf-butler-sample-config
https://github.com/cf-toolsuite/cf-hoover-config
https://github.com/cf-toolsuite/cf-butler
https://github.com/cf-toolsuite/cf-hoover
https://github.com/cf-toolsuite/cf-hoover-ui
Cloud Foundry Foundation
Organization = observability
Space = cftoolsuite
service instance(s)
application(s)
MySQL
config-server
service-registry
cf bind-service
cf-butler
cf-hoover
cf-hoover-ui
Cloud Foundry Foundation
Organization = observability
Space = cftoolsuite
service instance(s)
MySQL
cf bind-service
application(s)
cf-butler
Cloud Foundry Foundation
Organization = observability
Space = cftoolsuite
service instance(s)
MySQL
cf bind-service
application(s)
cf-butler
GitClient consuming GitSettings
cf create-service p.config-server standard cf-hoover-config -c config/config-server.json
Github
{owner}/cf-butler-config
{owner}/cf-hoover-config
Contains policies configuration that can be consumed by 1 or more cf-butler instances
Used to register cf-butler instances pushed to 1 or more foundations in an estate
fork
fork

We're going to lay down cf-archivist too!

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Step 5: Edit application.yml in https://github.com/{owner}/cf-hoover-config

```
# Using your favorite browser, visit your fork of cf-hoover-config
# Make sure you are authenticated as the owner w/ read-write permissions
# Edit the cf.butlers key-value pairs
# a) Set the key to an identifier for your foundation
# b) Set the value to your cf-butler route
```

Use `cf apps` to obtain the route to your cf-butler instance

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Step 6: Expose actuator endpoints for each service

```
# Review the contents of the script
cat scripts/expose-actuator-endpoints.sh

# Repeat invoking this script for cf-butler, cf-hoover, cf-hoover-ui, and cf-archivist
./scripts/expose-actuator-endpoints.sh {app-name}
```

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Step 7: Set Java artifacts fetch mode for cf-butler

```
# Review the contents of this script
cat scripts/set-java-artifacts-fetch-mode.sh

# Run this script to activate different modes; be aware droplet modes are
more CPU and memory intensive
./scripts/set-java-artifacts-fetch-mode.sh obtain-jars-from-runtime-metadata
```

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Step 8: Update config-service mirror to respect updates made to cf-hoover-config

```
# Review the contents of this script
cat scripts/update-config-service-mirrors.sh

# Run this script to activate different modes; be aware droplet modes are
more CPU and memory intensive
./scripts/update-config-service-mirrors.sh
```

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Optional: Swap in-memory dB provider for MySQL backend

```
# Review the contents of this script
cat scripts/switch-backend-to-mysql.sh

# Repeat invoking this script for cf-butler and cf-archivist
./scripts/switch-backend-to-mysql.sh {cf-api} {cf-admin-username} {cf-admin-password}
{app-name} 1.0-SNAPSHOT db-medium
```

Check the marketplace for
available service plans with
`cf marketplace -e p.mysql`

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Step 9: Test your footprint

```
# Get status of your deployment
cf app {app-name}

# Show logs for a running app
cf logs {app-name} --recent

# Trigger collection on butler
http POST {cf-butler route}/collect

# Trigger cache refresh on archivist
and hoover-ui, respectively
http POST {cf-archivist route}/cache/refresh
http POST {cf-hoover-ui route}/cache/refresh
```

```
# Obtain snapshot detail report from
butler
http {cf-butler route}/snapshot/detail

# Obtain snapshot summary report from
hoover
http {cf-hoover route}/snapshot/summary

# Visit these URLs in your favorite
browser
https://{cf-hoover-ui route}
https://{cf-archivist route}
```

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Step 10: Invoke e2e-uninstall.sh

```
# This script tears everything down
# (deletes apps, routes, and service instances)
./scripts/e2e-uninstall.sh
```