



ThoughtWorks®



Cabinet Office

Tin Tulip - Blue team

Showcase #7 - June 2

Agenda

What we achieved

What's next?

Summary

The blue team are preparing for the beginning of red team engagement next week

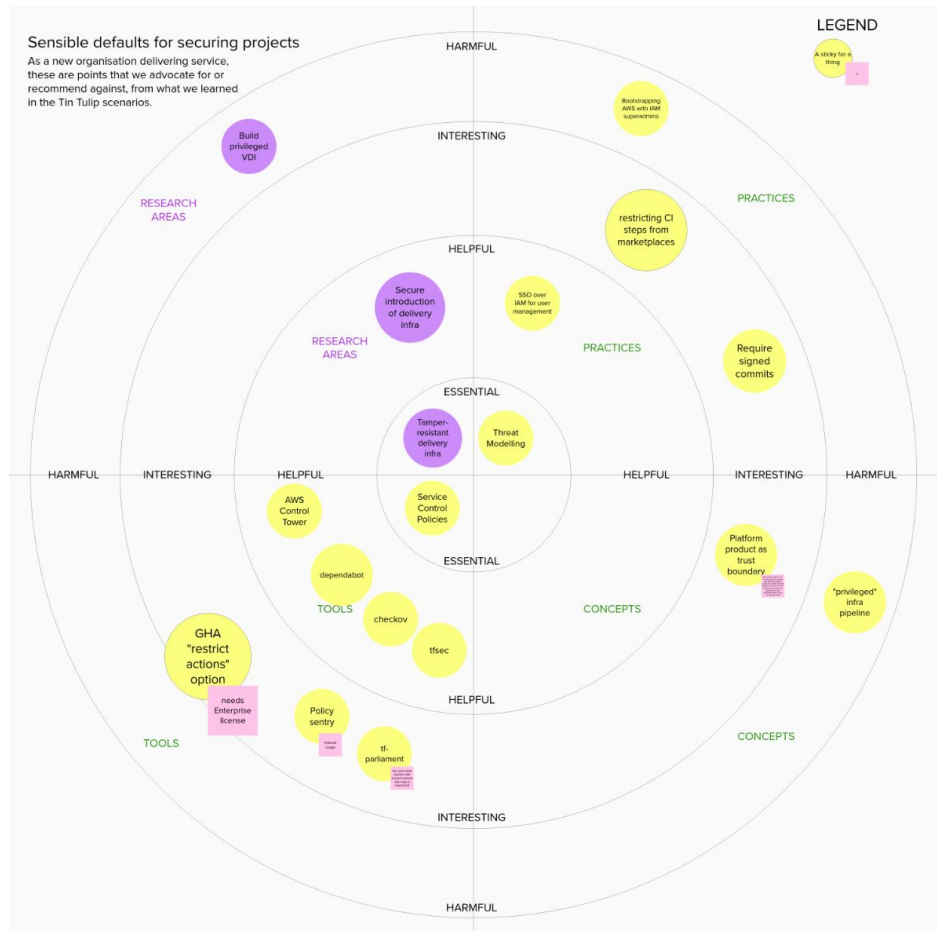
We are adding a dynamic workload and finishing the trusted pipeline

What we achieved



What we worked on

- Running Terratest in the Sandbox
- Setting up CodePipeline
- Network setup



Running Terratest in sandbox

What we built:

Created a sandbox account as well as the Github actions pipelines to run terratest.

Why we built it:

To have a testing environment for team Dali that tests the infrastructure.

What we learned from it:

- Developers can test their work without impacting other environments.
- Terratest provides fast feedback and destroys after testing.

Setting up CodePipeline

What we built:

A pipeline for the builder account that is triggered when a commit is made to the CI (GitHub Actions).

Why we built it:

To have a secondary pipeline in a highly trusted environment to reduce the blast radius of a malicious user.

What we learned from it:

- IAM user can trigger CodePipeline from GitHub actions.
- Alternatively GitHub actions can be integrated with CodePipeline using a webhook.

application-infra-pipeline

✓ **Source** Succeeded

Pipeline execution ID: 3dc04955-2ad0-4da4-bfb5-5075d22ca5f0

Source



GitHub (Version 2) [🔗](#)

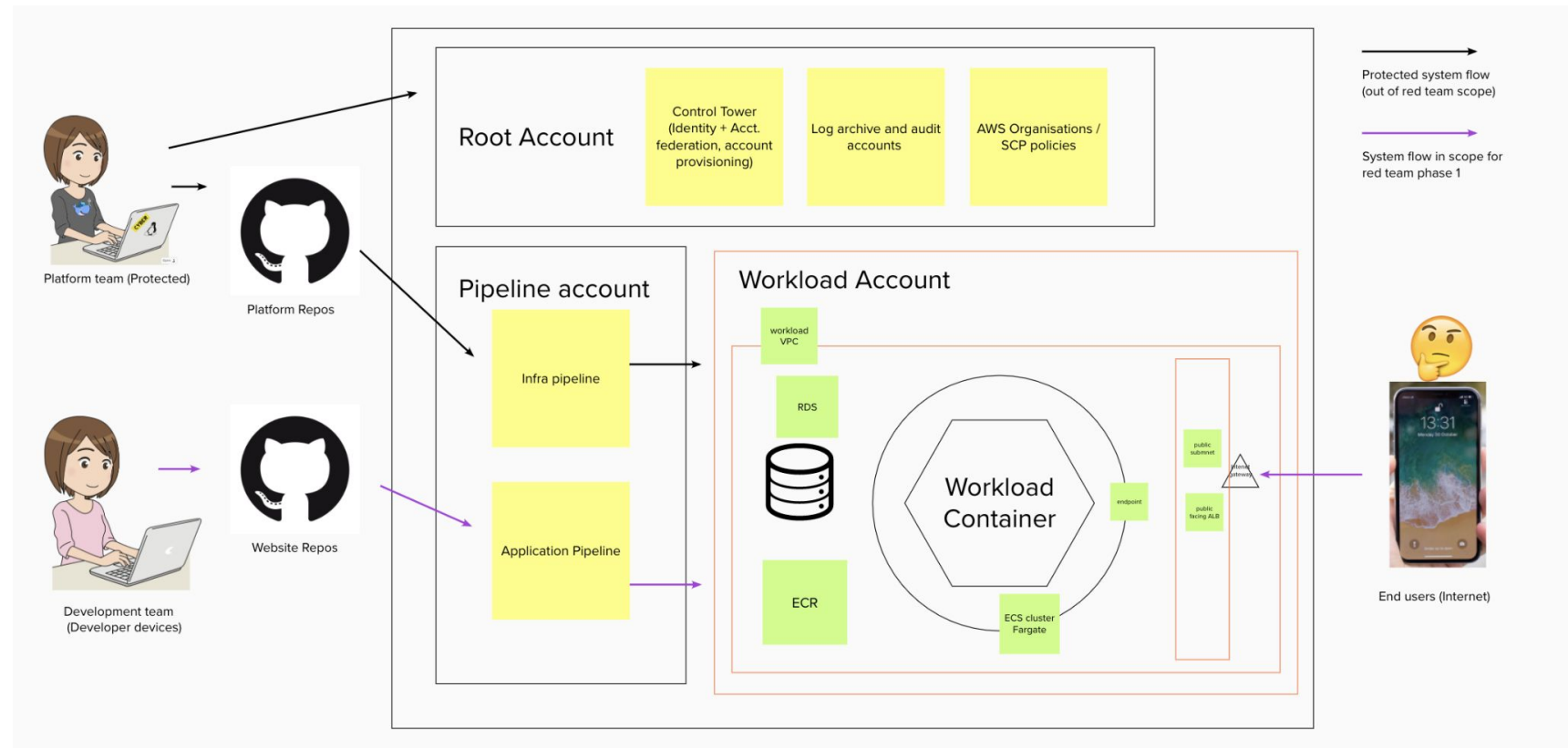
✓ **Succeeded** - Just now

d8c4c5e4 [🔗](#)

What's next?



Readiness for Red team start



Readiness for Red team start

What we are working on:

- Completion of pipelines
- Completion of ECS workload

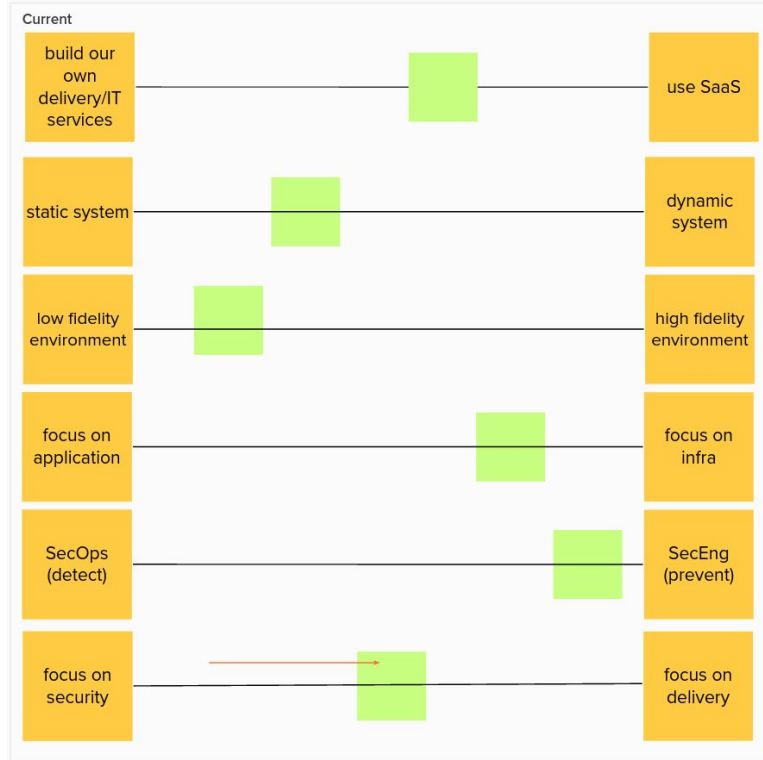
What we will give the red team:

- Login as a Development team user
- URL for workload on Internet

What we need to do with red team to prepare

- Agree flags
- Share credentials
- Agree daily wash up calls
- *Any other logistics ?*

Tradeoff Sliders review



- Focussed on starting red team engagement

Sliders tracker (link requires access):

<https://app.mural.co/t/thoughtworksclientprojects1205/m/thoughtworksclientprojects1205/1620729955822>

Appendix: Guiding Principles



Guiding principle for the project

Does this teach us something new about a security control, or how to defeat it?

Guiding principle for platform implementation

In order to research the known security boundaries, the blue team will implement a test platform based on published best practices, including those published by the NCSC

Guiding principle for communicating learnings

The key audience for learnings are government departments, who want to empower their local technology teams to deliver secure systems