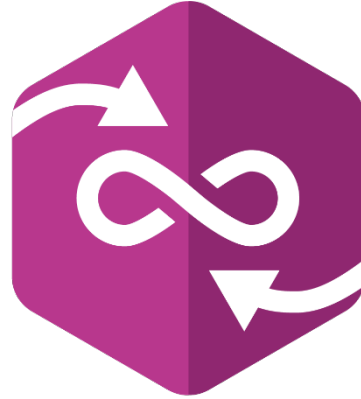


SGTS Product Overview



shiphats

A Product of GDS, GovTech

Agenda

- SAY HELLO TO THE SINGAPORE GOVERNMENT TECH STACK (SGTS)
- INTRODUCING **SHIP-HATS: AN SGTS PRODUCT**
 - UNDER-THE-HOOD
 - BENEFITS
 - TECHNICAL OVERVIEW
- HOW TO GET STARTED
 - SELF LEARN WITH TECH DOCS
 - WORKSHOPS & WEBINARS
 - SUBSCRIPTION MODEL
- WHAT'S NEXT?

Singapore Government Tech Stack (SGTS)



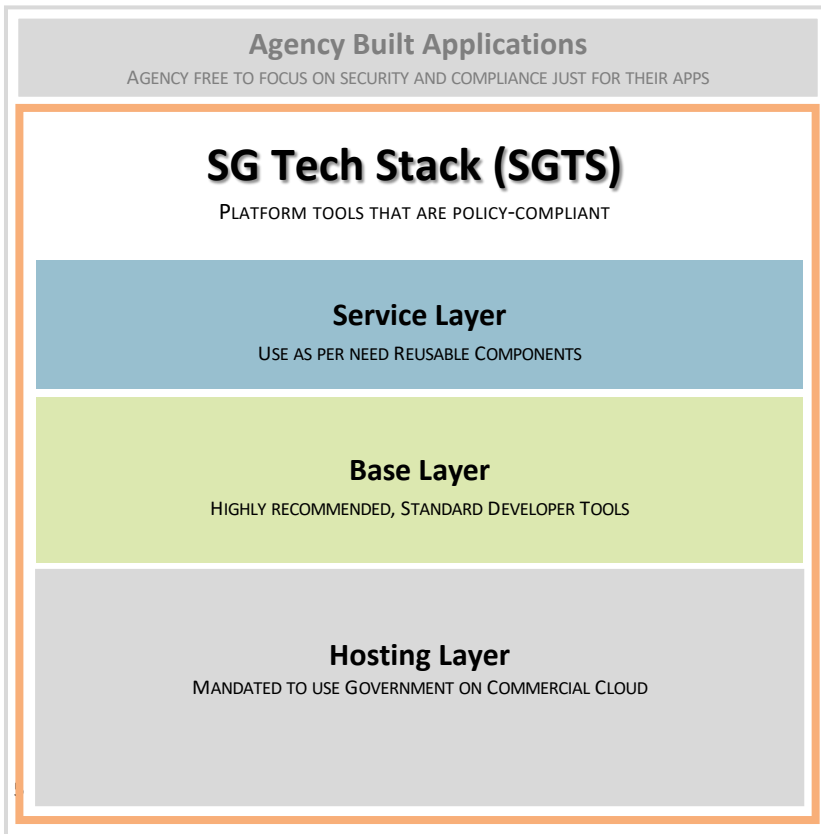
Say Hello to

SGTS

A set of **central platform tools** that streamlines and **simplifies the development and monitoring process** and enables code reuse across WOG to build and monitor secure, high quality applications.

#platformengineering

Say Hello to SGTS



SGTS - Unpacked

RESTRICTED / NON-SENSITIVE

Agency Built Applications

AGENCY FREE TO FOCUS ON SECURITY AND COMPLIANCE JUST FOR THEIR APPS

SG Tech Stack (SGTS)

PLATFORM TOOLS THAT ARE POLICY-COMPLIANT

Service Layer

USE AS PER NEED REUSABLE COMPONENTS

Base Layer

HIGHLY RECOMMENDED, STANDARD DEVELOPER TOOLS

Hosting Layer

MANDATED TO USE GOVERNMENT ON COMMERCIAL CLOUD

Legend: ● Live ● Planned ● Work in progress

Analytics

- [Personalise](#)
- [WOGAA](#)

Design

- [SG Design System](#)

Digital Identity

- [Corppass](#)
- [Verify](#)
- [Identiface](#)
- [Authorise](#)
- [Singpass Login](#)
- [Notify](#)
- [MyInfo](#)
- [Sign](#)

IoT

- [DECADA IoT Stack](#)

Data Science

- [Video Analytics](#)
- [Transcribe](#)
- [GovText](#)
- [Fraud Detect](#)

Data Transfer

- [Cloud File Transfer](#)
- [Video Exchange](#)

Communications

- [APEX on Prem](#)
- [APEX \(SDX\)](#)
- [APEX Cloud](#)
- [APEX Marketplace](#)

Toolchain

- [SHIP-HATS](#)



Runtime

- [Container Stack](#)



Monitoring

- [StackOps](#)



Service Management

- [Developer Portal](#)
- [SEED & TechPass](#)
- [TechBiz](#)

Benefits of SGTs



Engineers

Access to templates, and self-service capabilities with automated infrastructure operations that are IM-compliant, to reduce cognitive workload on engineers.



PMs/CIOs

Increased transparency into the development process, and greater operational insights



Agencies

Levelling up of DevSecOps maturity within agencies and across the government



Vendor Partners

Enhanced capabilities ready to partner various government agencies deliver apps using SGTs

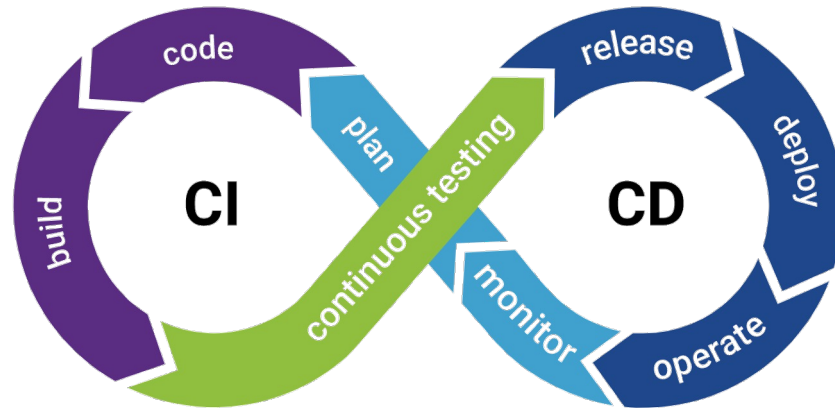
SHIP-HATS

An SGTS Product



What is SHIP-HATS

An **end-to-end Source Code Management** and **Continuous Integration/Continuous Delivery (CI/CD)** toolchain with security and governance guardrails for developers to build, test, and deploy code to production.



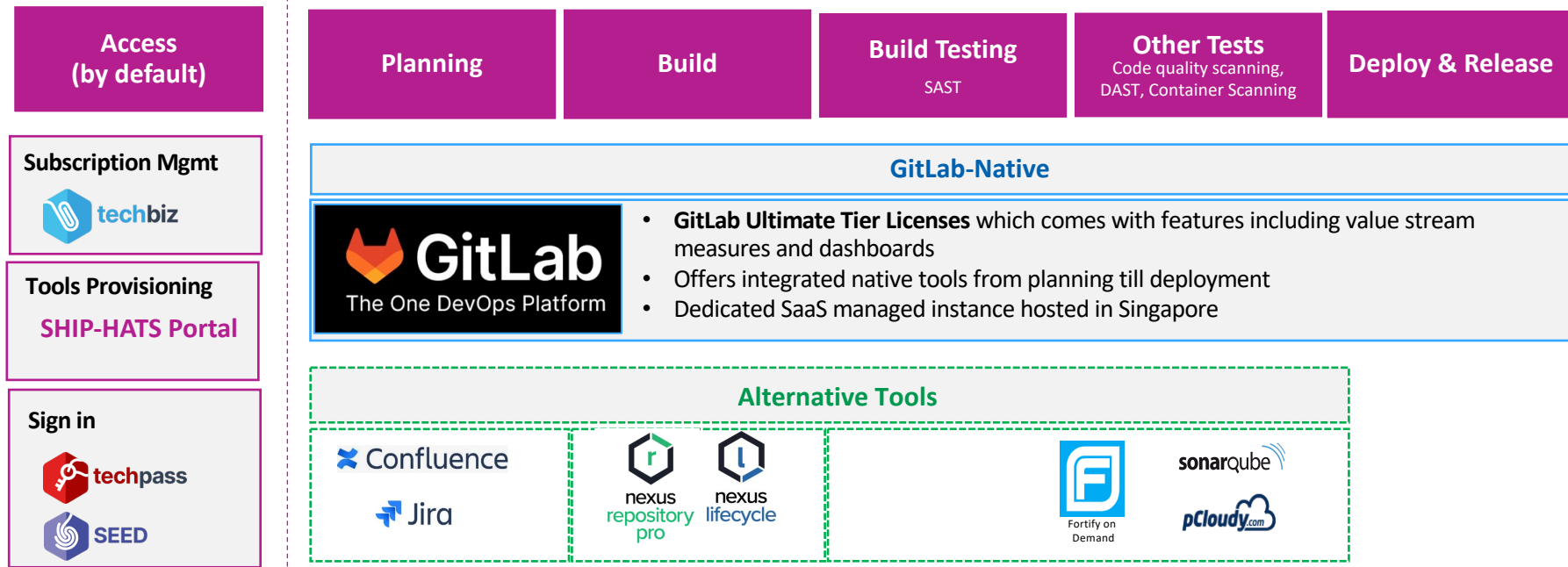
CI/CD pipelines automate incremental code changes to be delivered quickly and reliably to production

Who should use **SHIP-HATS**

- For all **Agency Systems** that are **Cloud Confidential (Eligible)** and below
- **Mandatory** for GovTech-owned systems
- Users can be **Public officers or Vendors**
- Subscription **by Agencies**

SHIP-HATS 2.0. Product Offering

Tools under-the-hood



TOOL SELECTION

Agencies must assess whether Gitlab native is sufficient (e.g. whether the gitlab-native tool supports the language/framework used etc).

1

GitLab Native only

- ✓ Lean teams
- ✓ Simple use cases
- ✓ New Projects
- ✓ Value for \$\$

2

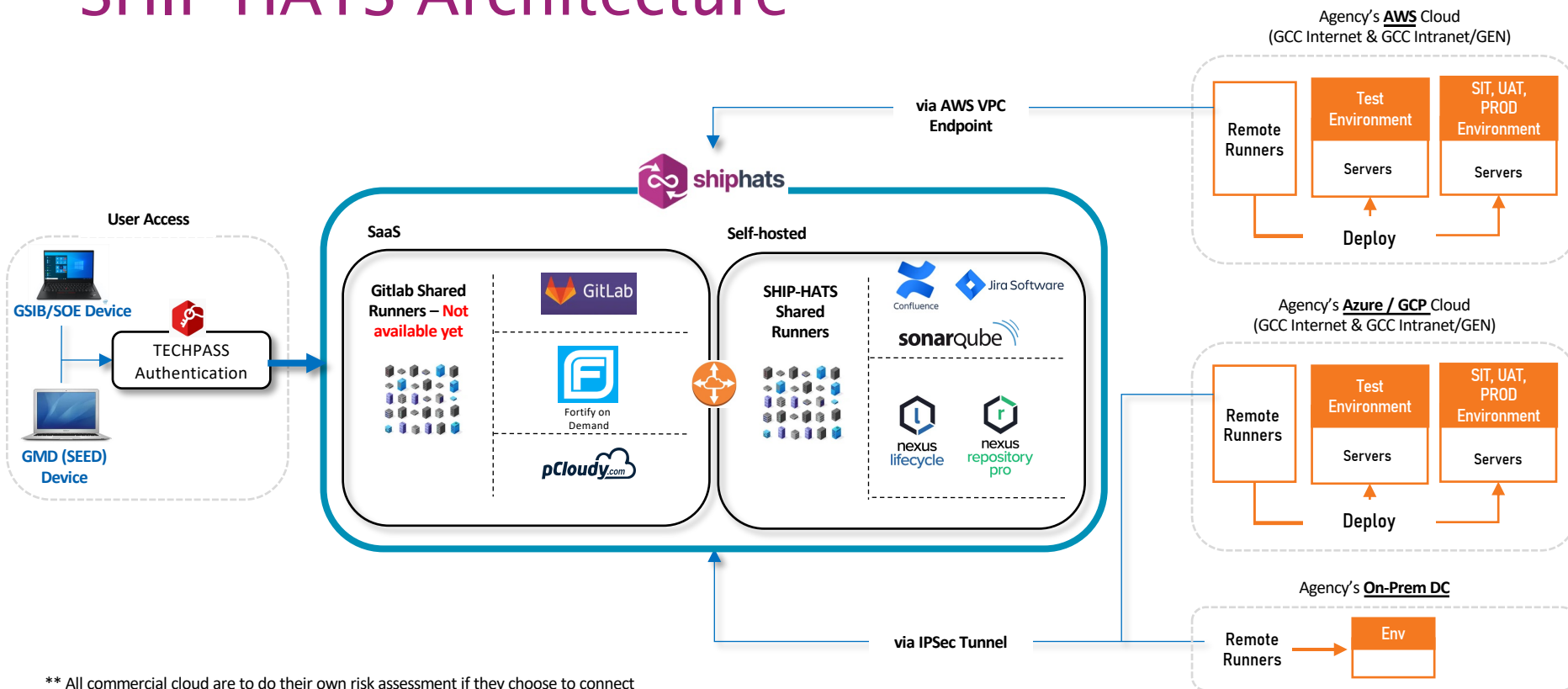
GitLab & Alternative tools

- ✓ Already on alternative tools
- ✓ Complex use cases

❖ **Both** options **meet Security Policy** needs

❖ Alternative tools are available as add-on anytime

SHIP-HATS Architecture



** All commercial cloud are to do their own risk assessment if they choose to connect remote runners to SHIP-HATS Gitlab over the internet.

Benefits of SHIP-HATS



#SHIPHATSforAgencies

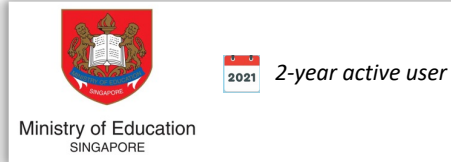


50 Agencies use SHIP-HATS

300+ Agency Systems

Over 3K Active User

50+ Pipeline Templates offered



Why choose SHIP-HATS?

1

Faster time to market

- ✓ **In-built compliance** and best practices through centralized
- ✓ **Templates and tools** for all users
- ✓ **No procurement** overheads to get started

2

Security for Public Sector Needs

- ✓ **CI/CD platform complies to security** needs
- ✓ **SaaS benefits for Confi-Cloud (Eligible) Systems** as dedicated instance is hosted in Singapore

3

WoG Collaboration

- ✓ **Common repo** of images for reuse
- ✓ Contribute to templates
- ✓ Learn faster and replicate learnings across WOG

4

Metrics & Data for DevSecOps

- ✓ **GitLab Dashboards:** Security, DORA metrics, DevOps Adoption, Value Stream Analytics
- ✓ Greater transparency and reduces system reporting overheads

Value-Added Features



SHIP-HATS 2.0. Value-Added Features

As a subscriber, agencies will also have access to the following:

- Platform Enablement Features
- CI/CD Tools and Features
- Security Baseline & Testing Tools
- Metrics and Value Stream Measurements (VSM)

Platform- Enablement e.g. Runners

Option 1: SHIP-HATS Shared Runners

- Hosted by SHIP-HATS team
- Created on-demand
- Available for all SHIP-HATS users at no additional costs
- No overheads for Agencies to maintain runners.
- 4 variants: **CStack**, **Docker**, **Windows** and GitLab Shared Runners

Option 2: Self-hosted Remote Runners

- Hosted by the agency
- Agencies to bear the costs of hosting their own runners
- Can be configured for Group or Project level access
- Full-control of the runners

CI/CD Tools & Features

e.g.
Pipeline Templates

1	5 End-to-End Pipeline Templates Pipeline skeletons
2	40~Modular Templates can be include as per need
3	Reference Pipelines fully implemented pipeline samples
4	Pipeline COE Reusable container images

5 End-to-End Pipeline Templates

Pipeline skeletons

Your project pipeline plan

End to End Pipeline Template

Your project specific variables

Copy

End to End Pipeline Templates from GovTech

Example Use Case:
.NET applications hosted in Azure App
Service



Menu



Search GitLab



E E2E Templates

Subgroup information

Epics

0

Issues

7

Merge requests

4

Security & Compliance

Packages & Registries

Analytics

Wiki

WOG > ... > E2E Templates

E

E2E Templates



Group ID: 144 [Request Access](#)

Templates on
GitLab

Subgroups and projects

Shared projects

Archived projects

Search

> E Examples



S

SHIP-HATS Docker Image CI Pipeline Templates

Docker Image CI Pipeline Template

★ 0



S

SHIP-HATS Docker Multi Services App E2E Templates

Docker E2E Template

★ 0



S

SHIP-HATS Docker Single Service App E2E Templates

Dockerapp E2E Template

★ 0



S

SHIP-HATS Webapp E2E Templates

★ 0

```
1 include:
2   - local: BUILD.gitlab-ci.yml
3   - local: TEST.gitlab-ci.yml
4   - local: DEPLOY.gitlab-ci.yml
5   - project: "WOG/GVT/ship/ship-hats-templates"
6     ref: "main"
7   file:
8     - /templates/vars/.gitlab-ci-sonatype-vars.yml
9     - /templates/.gitlab-ci-publish-to-nexus.yml
10    - /templates/.gitlab-ci-check-app-readiness.yml
11    - /templates/.gitlab-ci-run-test.yml
12    - /templates/.gitlab-ci-create-report.yml
13
14 stages:
15   - build
16   - static-test
17   - deploy-to-testing-env
18   - runtime-test
19   - sign
20   - publish
21   - deploy-to-prod #to PROD
22
23 image: $NEXUSREPO_DOCKER_PROXY_HOSTNAME/alpine:latest
24
25 variables:
26   # app-specific variables
27   WORKING_DIR: "" # app for eg. relative path to application from project
28   OUTPUT_ARTEFACT: "" # "$WORKING_DIR/app.zip" for eg. compiled app to be scanned and uploaded
29   UNIT_TEST_REPORT: "" # "$WORKING_DIR" for eg. relative path to run unit testing
30   WEBAPP_URL: "" # URL to reach project web application
31   WEBAPP_NAME: "" # web application name that can be searched when service is up
32   VERSION: "" # version of web application to release to artefact repository.
33
34   # for e2e integration testing if robot framework is used
35   RF_TESTSCRIPT_FOLDER: "" # "$WORKING_DIR/test-automation/E2eTest/robotframework_testscripts"
36
37   # for dast (pen) testing in compliance framework
38   DAST_WEBSITE: $WEBAPP_URL # target URL to perform dast for web app in testing env
39   DAST_XML_REPORT: "dast-owasp-zap-report.xml" # DAST report that's viewable from your build's
40
41   # for sonarqube scan in compliance framework
42   # check out with SHIP-HATS team for account provisioning
43   # see README.md#provide-sensitive-variables for list of variables required to include ship-sa
44
45   # for nexus iq scan in compliance framework
46   # check out with SHIP-HATS team for account provisioning
47   # see README.md#provide-sensitive-variables for list of variables required to include ship-ne
48   SCAN_TARGETS: $OUTPUT_ARTEFACT # target to perform scan on
49
50   # for fod sast and fod dast in compliance framework
51   # check out with SHIP-HATS team for account provisioning
52   # see README.md#provide-sensitive-variables for list of variables required to include ship-fortify-sast-fod-with-report and ship-fortify-dast
```

```
71
72 # for deploy-to-prod stage to know the source of artefact
73 DEPLOY_ARTEFACT: prod/$ARTEFACT_ID.$ARTEFACT_PACKAGE
74
75 build-job: # build. define in BUILD.gitlab-ci.yml file
76   stage: build
77
78 lint-job: # perform a lint check. define in TEST.gitlab-ci.yml file
79   stage: static-test
80
81 unit-test-job: # perform a unit testing. define in TEST.gitlab-ci.yml file
82   stage: static-test
83
84 depcheck-job: # perform a dependency check to check for unused dependencies. define in TEST.gitlab-ci.yml file
85   stage: static-test
86
87 deploy-testing-job: # deploy to a testing env from DEPLOY.gitlab-ci.yml file
88   stage: deploy-to-testing-env
89
90 wait-for-webapp-ready-job: # wait for the app service to be ready, using a template from WO
91   extends: .wait-for-app-and-assert-text
92   needs: ["deploy-testing-job"]
93   stage: deploy-to-testing-env
94   environment:
95     name: testing
96     action: prepare
97   variables:
98     URL: "$WEBAPP_URL"
99     TEXT: "$WEBAPP_NAME"
100
101 e2e-test-job: # run e2e UI test using robot framework, you may edit to use any e2e testing
102   stage: runtime-test
103   variables:
104     SERVICE: selenium/standalone-chrome:4
105     ROBOT_IMAGE_VERSION: latest
106     OPTS: -v BROWSER:headlesschrome
107     OUTPUT_DIR: $RF_TESTSCRIPT_FOLDER/reports
108     OUTPUT_XML: report.xml
109     LOG_NAME: log
110     REPORT_NAME: report
111     TEST_TARGET: $RF_TESTSCRIPT_FOLDER
112   extends: .run-robot-test
113   allow_failure: true
```

Yaml for E2E

```
1 include:
2   - project: "WOG/GVT/ship/ship-hats-templates"
3     ref: "main"
4   file:
5     - /templates/vars/.gitlab-ci-sonatype-vars.yml
6
7 image: $NEXUSREPO_DOCKER_PROXY_HOSTNAME/alpine:latest
8
9 .build-webapp:
10   script:
11     - echo "implement building webapp here."
12
13 build-job: # do not change the name of this job, required by compliance
14   extends: .build-webapp
15   # artifacts:
16   #   when: always
17   #   paths:
18   #     - $OUTPUT_ARTEFACT # required by compliance
19
```

40~Modular Templates can be include as per need

Your project pipeline plan

Your project specific scripts



Modular Testing Template

Modular Repo Template

Your project specific variables

Include

Modular Templates from GovTech

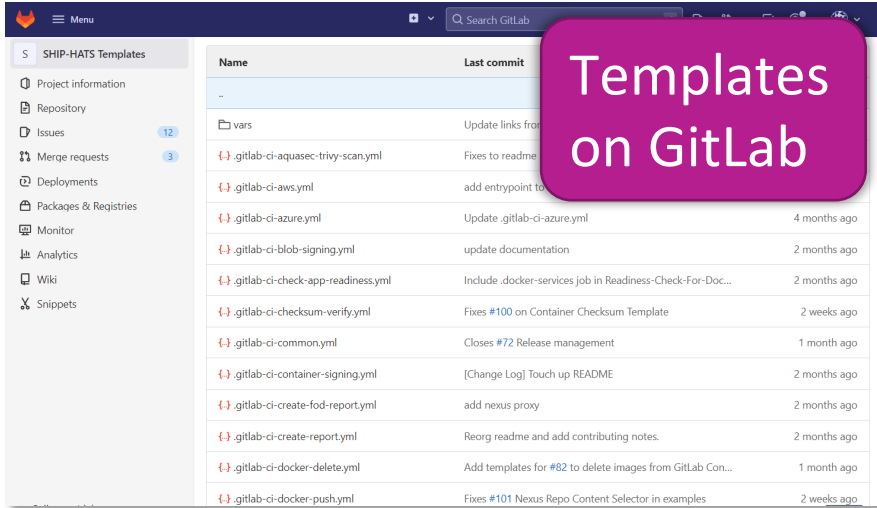
Build & Release Templates

QA & Security Templates

Artifact Repository Templates

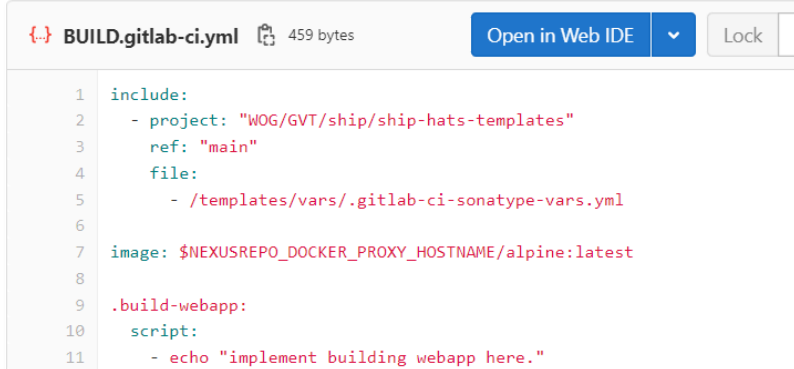


Modular Pipeline Templates



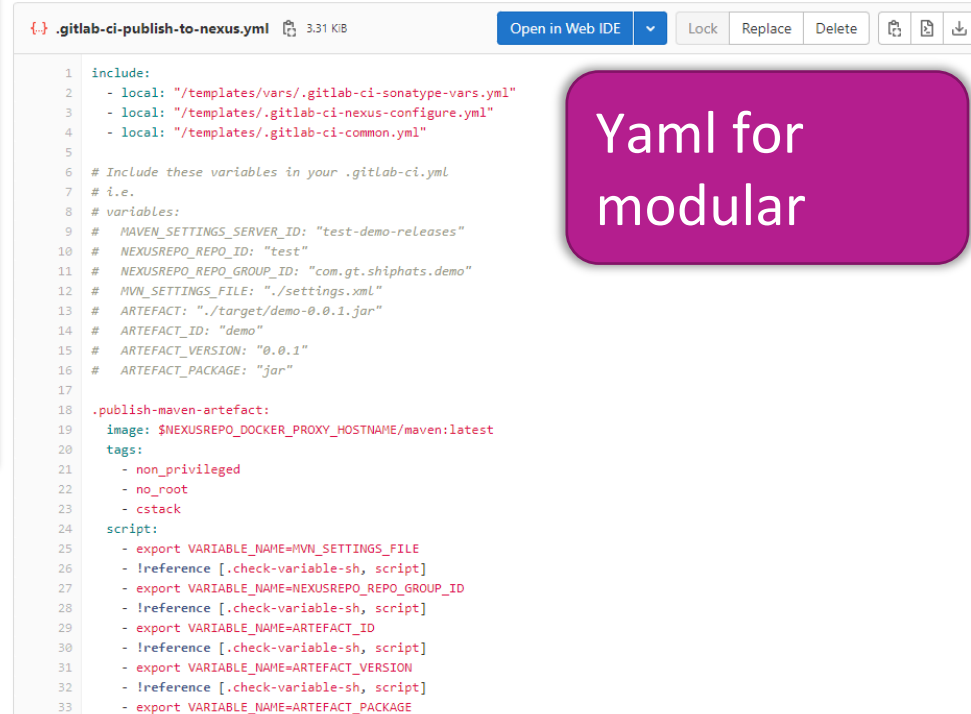
Templates on GitLab

Name	Last commit
-	-
vars	Update links from
.gitlab-ci-aquasec-trivy-scan.yml	Fixes to readme
.gitlab-ci-aws.yml	add entripoint to
.gitlab-ci-azure.yml	Update .gitlab-ci-azure.yml 4 months ago
.gitlab-ci-blob-signing.yml	update documentation 2 months ago
.gitlab-ci-check-app-readiness.yml	Include .docker-services job in Readiness-Check-For-Doc... 2 months ago
.gitlab-ci-checksum-verify.yml	Fixes #100 on Container Checksum Template 2 weeks ago
.gitlab-ci-common.yml	Closes #72 Release management 1 month ago
.gitlab-ci-container-signing.yml	[Change Log] Touch up README 2 months ago
.gitlab-ci-create-fod-report.yml	add nexus proxy 2 months ago
.gitlab-ci-create-report.yml	Reorg readme and add contributing notes. 2 months ago
.gitlab-ci-docker-delete.yml	Add templates for #82 to delete images from GitLab Con... 1 month ago
.gitlab-ci-docker-push.yml	Fixes #101 Nexus Repo Content Selector in examples 2 weeks ago



BUILD.gitlab-ci.yml 459 bytes

```
1 include:
2   - project: "WOG/GVT/ship/ship-hats-templates"
3     ref: "main"
4     file:
5       - /templates/vars/.gitlab-ci-sonatype-vars.yml
6
7 image: $NEXUSREPO_DOCKER_PROXY_HOSTNAME/alpine:latest
8
9 .build-webapp:
10  script:
11    - echo "implement building webapp here."
```



.gitlab-ci-publish-to-nexus.yml 3.31 KiB

```
1 include:
2   - local: "/templates/vars/.gitlab-ci-sonatype-vars.yml"
3   - local: "/templates/.gitlab-ci-nexus-configure.yml"
4   - local: "/templates/.gitlab-ci-common.yml"
5
6 # Include these variables in your .gitlab-ci.yml
7 # i.e.
8 # variables:
9 #   MAVEN_SETTINGS_SERVER_ID: "test-demo-releases"
10 #   NEXUSREPO_REPO_ID: "test"
11 #   NEXUSREPO_REPO_GROUP_ID: "com.gt.shiphats.demo"
12 #   MVN_SETTINGS_FILE: "./settings.xml"
13 #   ARTEFACT: "./target/demo-0.0.1.jar"
14 #   ARTEFACT_ID: "demo"
15 #   ARTEFACT_VERSION: "0.0.1"
16 #   ARTEFACT_PACKAGE: "jar"
17
18 .publish-maven-artefact:
19   image: $NEXUSREPO_DOCKER_PROXY_HOSTNAME/maven:latest
20   tags:
21     - non_privileged
22     - no_root
23     - cstack
24   script:
25     - export VARIABLE_NAME=MVN_SETTINGS_FILE
26     - !reference [.check-variable-sh, script]
27     - export VARIABLE_NAME=NEXUSREPO_REPO_GROUP_ID
28     - !reference [.check-variable-sh, script]
29     - export VARIABLE_NAME=ARTEFACT_ID
30     - !reference [.check-variable-sh, script]
31     - export VARIABLE_NAME=ARTEFACT_VERSION
32     - !reference [.check-variable-sh, script]
33     - export VARIABLE_NAME=ARTEFACT_PACKAGE
```

Reference Pipelines

fully implemented pipeline samples

Reference pipelines

Following [E2E CI pipeline examples using SHIP-HATS templates](#) are available for use.



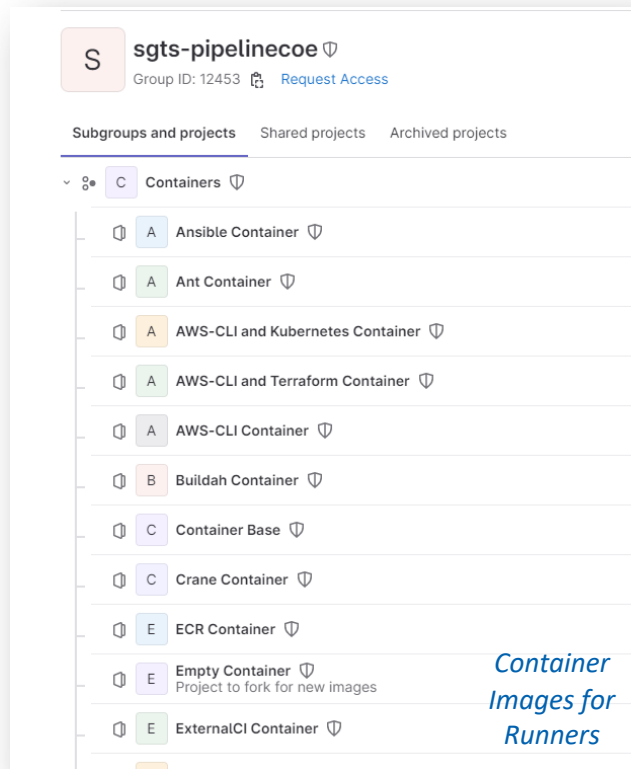
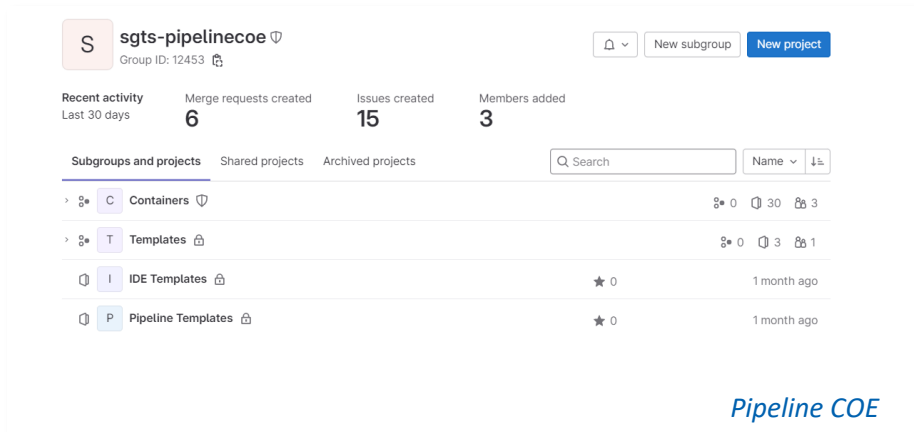
If you do not have access to GitLab, you may [access mirror templates in BitBucket](#) for reference only.

Template	Description	Mirror
javaapp	Example end to end CI pipeline for a sample 3-tier application hosted in AWS EC2	Mirror template in BitBucket for reference only if you do not have access to GitLab
javadockerapp	Example end to end CI pipeline for sample containerized Java application hosted in AWS EKS	Mirror template in BitBucket for reference only if you do not have access to GitLab
netapp	Example end to end CI pipeline for sample containerized .NET applications hosted in Azure App Service	Mirror template in BitBucket for reference only if you do not have access to GitLab
netdocker	Example end to end CI pipeline for sample containerized .NET Core application hosted in AWS Fargate	Mirror template in BitBucket for reference only if you do not have access to GitLab
nodetsapp	Example end to end CI pipeline for sample Node.js typescript application hosted in Azure App Service	Mirror template in BitBucket for reference only if you do not have access to GitLab

*Developed by CTMO, SVC
Group, GovTech*

Pipeline COE aka DevSecOps Governance Framework (DGF) (new branding) Reusable code & images

- Feature provided by GitLab & maintained by the SHIP-HATS Team with a base set of **reusable code & images**
- Part of inner-sourcing efforts
- The SHIP-HATS team is **continually developing new reusable assets**
- Agencies can raise a Service Ticket to **suggest new assets**



Security Baseline & Testing Tools Security Features

Benefits of Automated Security Testing:

- Tests are completed faster
- Consistency of running the same tests across incremental builds
- Repeatability allows the task to be build into a larger automated process
- Auditability of tests through logging and dashboards

To streamline and automate manual testing efforts, the following features were introduced

1	Security with SHIP-HATS Shifting left and codifying security
2	Compliance Framework Automates setting up controls
3	Extended Code Analysis Testing feature from CSG, available by default

Centralising automated security testing via SHIP-HATS

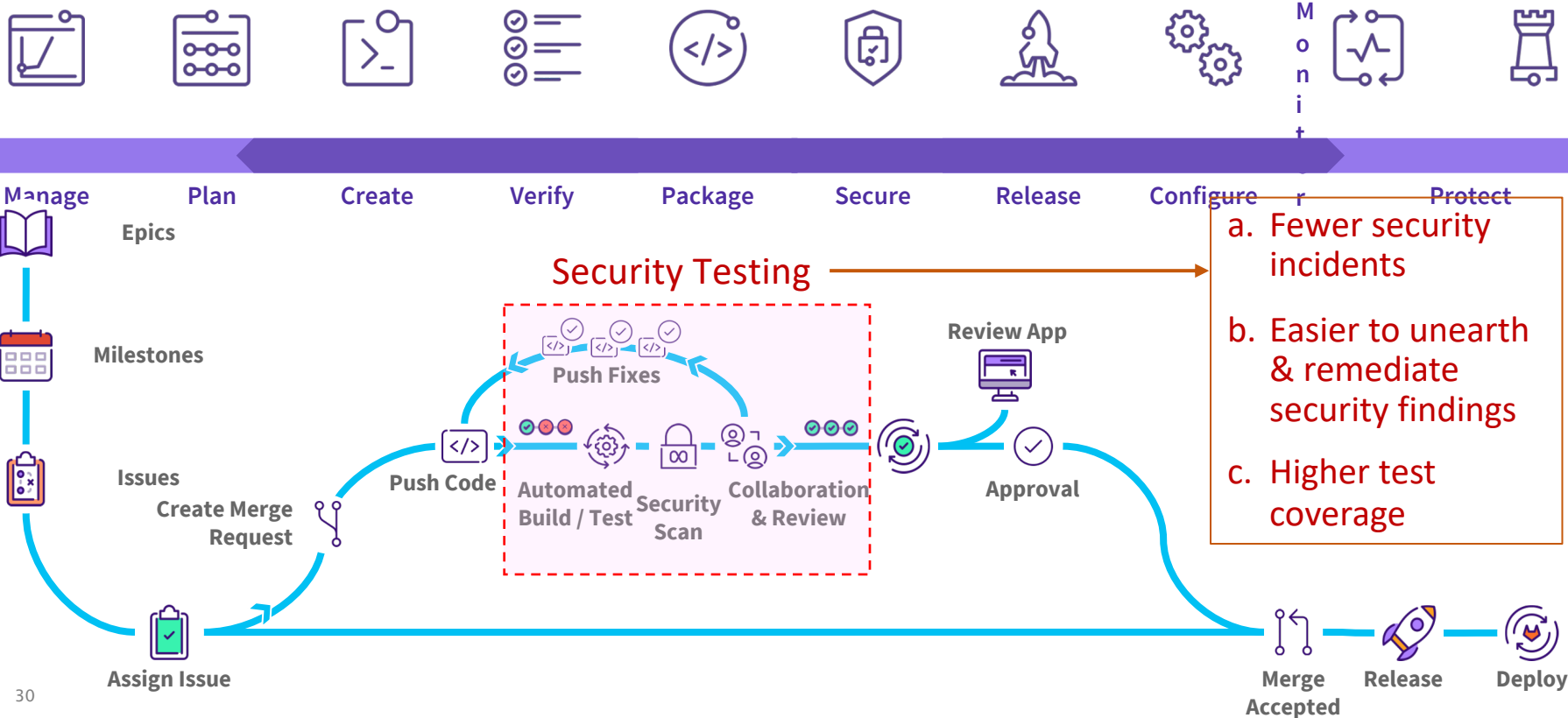
Impetus	Benefits	What if we don't centralise?
• Lack of basic security capabilities across government • Similar environmental set-up and needs • Need for speedy remediation	• Centralise security experts • In-built compliance and best practices through centralized tools e.g. SHIP-HATS is preconfigured for OWASP Top 10 (an industry standard) • Learn faster and replicate learnings across WOG*	• Agencies will be left to configure tools on their own • Longer onboarding/adoption times • Higher manpower costs, esp. for agencies with lower DevSecOps maturity

*Apart from building-in the learnings via tools, best practices are also published in the DevOps Playbook (<https://docs.developer.tech.gov.sg/docs/devsecops-playbook>)

Security with SHIP-HATS

Shifting left and codifying security

Security testing is incorporated in the CI/CD pipeline and is automated (i.e. run every time the app is built)



Design/Plan	Develop	Build	Test	Deploy	Operate & Monitor
Security Architecture (ISC)² Training via CAPE	Secure Development Secure Code Warrior (SCW)	Secure build management GitLab Build Runners	Performance test & monitoring pCloudy Test Farm	Approval for release to prod. GitLab Continuous Deployment	Continuous monitoring/logging AWS CloudWatch Logs
Threat modelling (ISC)² Training via CAPE	Code repo security controls GitLab Repo BitBucket (SHIP1.0)	Secrets Detection GitLab Security Analysers Security for Bitbucket (SHIP1.0)	Dynamic App Security Testing (DAST) GitLab DAST Fortify-on-Demand DAST	Artefact repository scanning GitLab Continuous Deployment	Continuous feedback & metrics AWS CloudWatch
Capabilities on SHIP-HATS	Code reviews GitLab Merge Requests	3rd Party component scanning GitLab Dependency Scanning Nexus Intelligence / IQ Server	Manual Pen Test CSAS Bulk Tender	Continuous vuln scan (Host) AWS Systems Patch Manager AWS Inspector	Web Application Firewall AWS Web Application Firewall
	Source code scanning (SAST) GitLab Security Analysers Fortify-on-Demand SAST	Container scanning GitLab Container Scanning Prisma Cloud (SHIP1.0)		Secrets management AWS Secrets Manager	
New Capabilities	Developer endpoint security controls Developers' Environment Endpoint Posture (DEEP)	Mobile app scanning Mobile App Security Hygiene (MASH)	Repeated Security Findings Extended Code Analysis (XCA)		Cloud security controls CloudSCAPE
	Secure-by-Default Designs Secure Infrastructure-as-Code (SlaC) Anyhow Code Also Secure ^				
Threat modelling (+) Integrative Threat Modelling Platform	Supply-chain Security Supply-chain Levels for Software Artifacts (SLSA)				Cloud architecture controls Cloud Architecture Compliance Tooling (CACTi)
					Container Threat Detection Container Anomaly Detection

^ Denotes Experimental

Compliance Framework

Automates setting up controls

- ✓ Use GitLab feature to automate adopting DevSecOps best practices and security needs
- ✓ Teams can apply the framework from UI and confident that their controls and requirements are set up correctly

W Web App Tutorial4

- Project information
- Repository
- Issues 0
- Merge requests 0
- CI/CD
- Security & Compliance
- Deployments
- Packages and registries
- Infrastructure
- Monitor
- Analytics
- Wiki
- Snippets
- Settings**
- General**

Compliance framework

Select a compliance framework to apply to this project. [How are these added?](#)

Compliance framework

ship-hats-webapp-compliance-v1.0.1

[Save changes](#)

Default description template for issues

Set a default description template to be used for new issues. [What are description templates?](#)

[Expand](#)

Service Desk

Enable and disable Service Desk. Some additional configuration might be required. [Learn more.](#)

[Expand](#)

Advanced

Housekeeping, export, archive, change path, transfer, and delete.

[Expand](#)

[Collapse](#)

Extended Code Analysis

Testing feature from CSG, available by default

WOG > XCA > XCA-Demo > Merge requests > 112

nested [Open] requested to merge **another-branch** into **main** 6 days ago

Overview 0 Commits 7 Pipelines 6 Changes 3

Merge request pipeline #279197 passed for 2cd3f9ca 18 hours ago

Approve Approval is optional

View eligible approvers

Security scanning detected 2 potential vulnerabilities 0 Critical 2 High and 0 Others

SAST detected 2 potential vulnerabilities 0 Critical 2 High and 0 Others

New

- High Detected redirect to SingPass redirect URL without validation. This causes an open redirect vulnerability
- High Detected redirect to SingPass redirect URL without validation. This causes an open redirect vulnerability

Fixed

- High Detected redirect to SingPass redirect URL without validation. This causes an open redirect vulnerability
- High Detected redirect to SingPass redirect URL without validation. This causes an open redirect vulnerability

Ready to merge!

☒ Delete source branch ☐ Squash commits ☐ Edit commit message

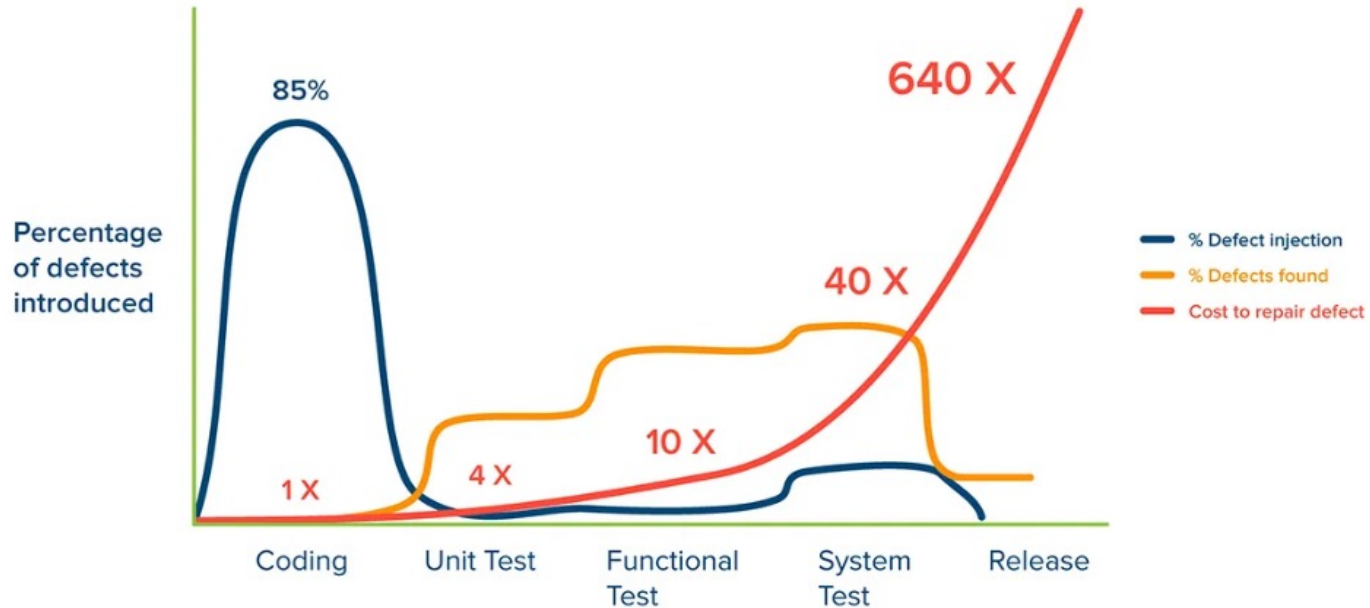
7 commits and 1 merge commit will be added to main.

Merge

<

Apart from platforms, tools and features, we need to drive security best practices

Regular and more upstream security testing enables 'shift-left', where vulnerabilities are found and remediated earlier in the dev cycle resulting in fewer defects and reduced time/costs for rectification by 10x



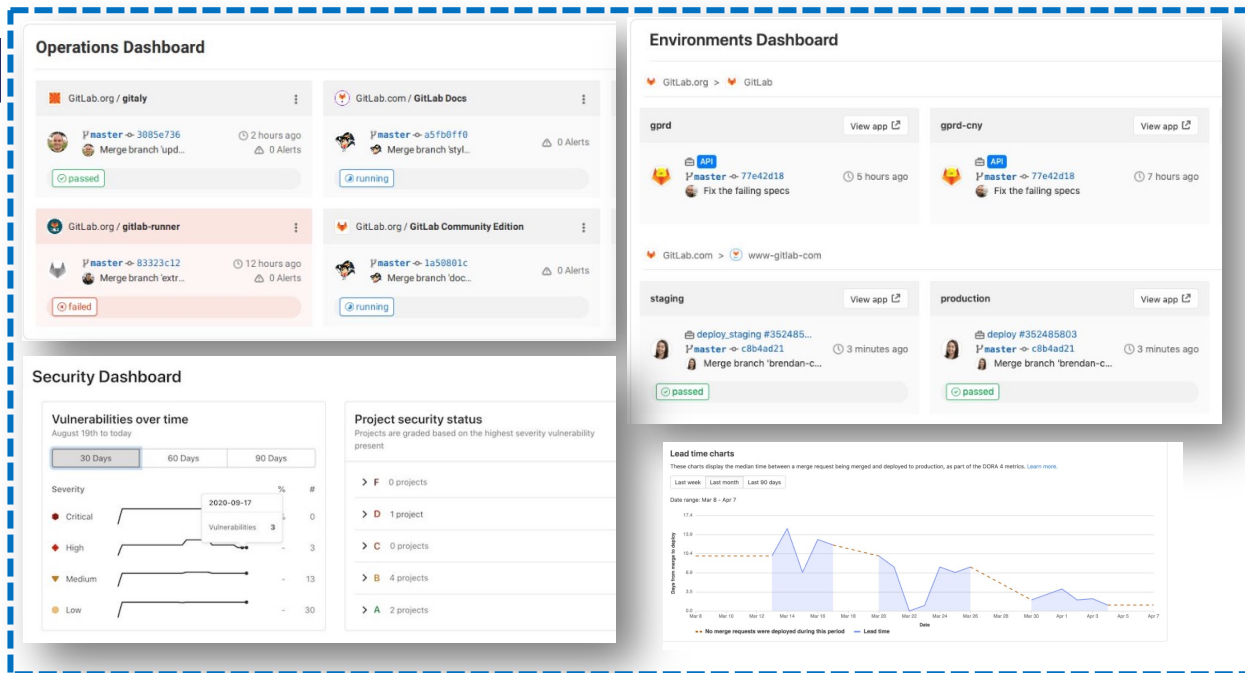
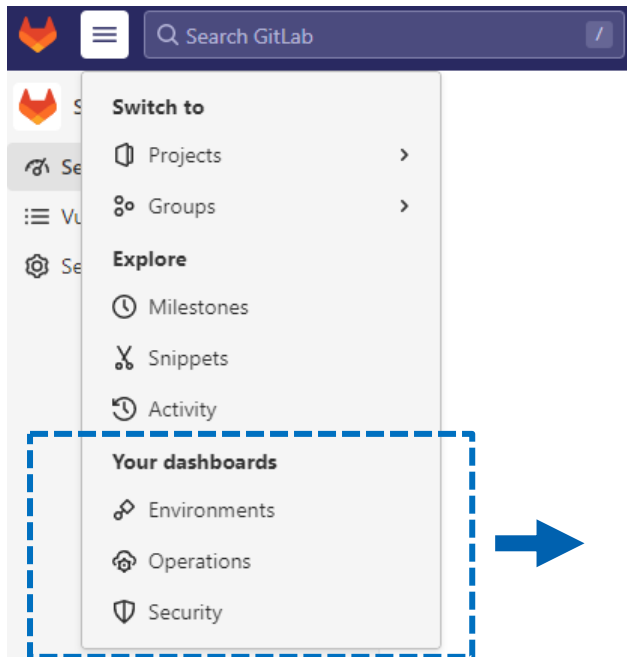
Metrics & Value Stream Metrics (VSM)

For Dev Productivity
and DevSecOps
Maturity

1 **GitLab-Native Dashboards** e.g. Security, Ops etc.

2 **DevSecOps Scoreboard (WIP!)**

1 GitLab-Native Dashboards e.g. Security, Ops etc.



DevSecOps Scoreboard (WIP!)

A Singapore Government Agency Website [How to Identify](#)



Search for projects DESC 10						
Details	Project Name	Project Settings (/6)	Security and Testing (/4)	Pipeline Standardisation (/1)	Score	Rank
Maturity	SHIP-HATS Templates	6	null	null	6	1
Maturity	clglabjavadockerapp	5	null	null	5	2
Maturity	SHIP-HATS Compliance	5	null	null	5	3
Maturity	clglabapp	5	null	null	5	4
Maturity	gitlab-nexus-iq-pipeline	5	null	null	5	5
Maturity	bootstrap-deploy-runner	5	null	null	5	6
Maturity	SHIP-HATS Webapp E2E Templates	5	null	null	5	7

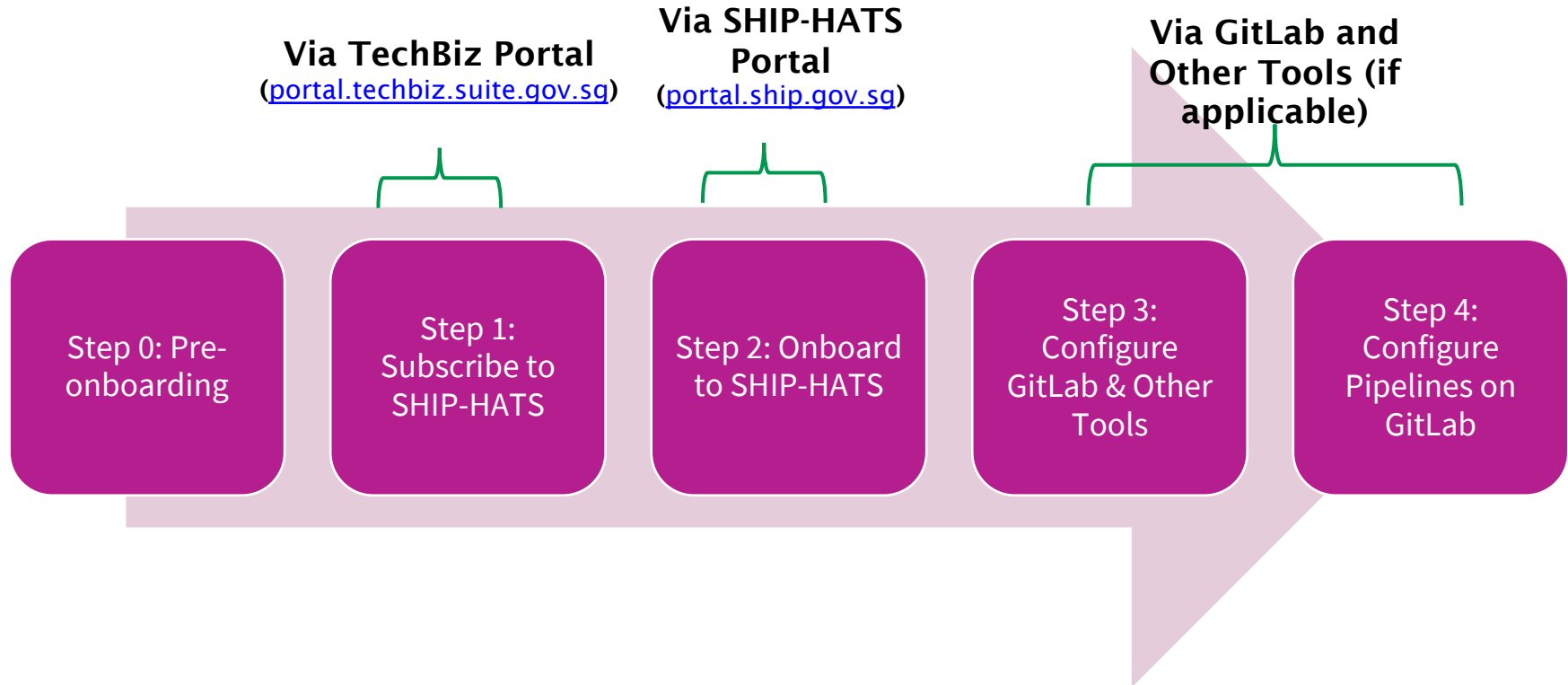
SHIP-HATS 2.0. Product Roadmap

Component	Q1	Q2	Q3	Q4
Platform Enablement	• Shared runners for Intranet deployment	• Runners to support GitLab-Native services • Jira/Confluence Cloud Pilot (JSM & Multi-tenancy)		• Jira/Confluence Cloud GA (JSM/Multi-tenancy)
CI/CD Tools and Features	• Low-Cost Flow (GitLab-Native) Pipeline Template • GitOps-based Templates	• GitLab Guest-Account Enablement with TechPass	• Limiting Feature for GitLab Guest Accounts	• Support for GCC + • BCP
Security Baseline & Testing Tools	• SemGrep (bg scanning) • DevSecOps Security Baseline – identification of baselines and draft measures	• DevSecOps Security Baseline – roll-out to GDS	• SLSA • DevSecOps Security Baseline – roll-out to GovTech and WOG	• DevSecOps Security Baseline – intermediate baselines
Metrics and VSM	• DevSecOps Scoreboard POC – checking for compliance with IM8,	• DevSecOps Scoreboard Beta	• DevSecOps Scoreboard GA – Phase 1	• DevSecOps Scoreboard GA – Phase 2

Getting Started



Subscribing and Onboarding to SHIP-HATS



Subscription Options

[Subscription documentation available on Developer Portal](#)

[Pricing details on go.govsg/sh2indicative for Public Officers](#)

FLEXIBLE ADD-ONS

BASE PLAN

- ✓ 3 GITLAB ULTIMATE USER LICENSE
- ✓ SHARED PLOUDY
- ✓ STANDARD SUPPORT 9.30AM TO 5:30PM
- ✓ UP TO 50 GITLAB LICENSES PER BUNDLE

NOTES

- Start with Base Option
- Add-ons to maximise flexibility

Component	What's Included	Notes
GitLab Ultimate	1 x GitLab Ultimate User License	Based on the number of users
Jira/Confluence	1 x Jira/Confluence License	Based on the number of users
Sonatype Nexus IQ & Nexus Repo	1 x Nexus IQ	Based on the number of users
	1 x Nexus Repo User License	
pCloudy Testing Farm	1 x pCloudy ios Device (dedicated)	1 device can be used concurrently across multiple GitLab Projects, and tests can be run in parallel
	1 x pCloudy Android Device (dedicated)	
SonarQube	1 x SonarQube Community Edition App	1 app can be used for 1 subscription (i.e. shared across GitLab projects)
	1 x SonarQube Dev Edition App	1 app can be used for 1 subscription (i.e. shared across GitLab projects)
Fortify-on-Demand	1 x FOD App	1 app can be shared across multiple GitLab Projects, but tests cannot be run in parallel.
Additional support	Per hour (after 5:30 PM)	Outside office hours

Self-learn with Technical Documentation

Everything on the Internet – Search on Google
Or
Visit <https://go.gov.sg/ship-hats-docs>

The screenshot shows the 'SHIP-HATS Getting Started' page on the Singapore Government Developer Portal. The left sidebar contains a navigation menu with sections: Overview, Key Features, Architecture, and Onboard to SHIP-HATS. The main content area is titled 'Audience' and lists two user groups: Subscription Administrator (SA) and Project Admin (PA), and New users. It also lists additional documentation resources in a table.

Singapore Government Developer Portal About Documentation

SHIP-HATS Getting Started

Overview

- Audience
- Overview
- What's New
- Tools
- Roadmap

Key Features

- Compliance Framework
- Dashboards
- Pipeline Templates
- Sample Pipeline
- Pipeline COE

Architecture

- Architecture
- Runners

Onboard to SHIP-HATS

- Subscription
- Onboarding

[Home](#) / [Docs](#) / [SHIP-HATS](#) / SHIP HATS Getting Started

Audience

This documentation is intended for the following users:

- **Subscription Administrator (SA) and Project Admin (PA)** to subscribe and onboard to SHIP-HATS.
- **New users** to understand how SHIP-HATS helps you set up your CI/CD pipeline and **access training resources** on using SHIP-HATS.

Following additional documentation resources are available:

Document	Audience	Description
SHIP-HATS Migration	Existing users	Use this documentation to plan migration of your systems from SHIP-HATS 1.0 to SHIP-HATS 2.0.
SHIP-HATS Portal	Subscription Administrator (SA) Project Administrator (PA)	Use this documentation to onboard to the SHIP-HATS portal, add projects, set Project Administrators, and manage users
SHIP-HATS Tools	Tools Administrators and Developers at Agencies	Use this documentation to learn about tools integrated with SHIP-HATS
SHIP-HATS Support	All	Use this documentation to understand our Support Offering and learn about Terms & Conditions.

Attend with Workshops & Webinars

<https://go.gov.sg/ship-hats-learning-events>

[Home](#) / [Docs](#) / [SHIP HATS](#) / [SHIP HATS Getting Started](#) / Learning Events

Learning Events

Upcoming events

Date	Topic	Audience	Level	Sign up
Hands on Workshop	SHIP-HATS 2.0 and Introduction to Pipeline Templates	Tech	200	By invitation based on onboarding and migration
Scheduled every month	Classroom session for developers	SHIP-HATS Users & Prospects		
9:00 AM- 5:00 PM				
Webinar	SGTS Learning Events: SHIP-HATS Product Briefing	Non Tech	100	Sign up
20 March 2023	SGTS Overview	SHIP-HATS Users & prospects		
	SHIP-HATS 2.0 Product Offering & Roadmap			
	Subscription packages			
3 PM to 4 PM	Learning Resources & Training			
Webinar	SGTS Learning Events: SHIP-HATS & Application Security with FOD	Tech & Non Tech	100	Sign up
13 April 2023	Learn how modernised tools seamlessly			

SHIP-HATS Subscription

<https://go.gov.sg/sh2indicative>

Accessible via GSIB

- Materials for Subscription
- Indicative Pricing, Pricing Calculator
- Pricing Simulations
- Subscription how-to videos

Next Steps

- Reach out to us at <https://go.gov.sg/she>
- Technical documentation <https://go.gov.sg/ship-hats-docs>

SGTS Products

- SGTS Products
[Explore the products](#)
- SGTS Product Documentation
[Read the docs](#)

SGTS Learning Series

--- Online Webinar ---

SHIP-HATS 2.0 Product Briefing [Monday, 20 Mar 2023 3 to 4 PM](#)

Get to know the **CI/CD tool** in Singapore Government Tech Stack including roadmap, features and resources.
Level 100 Tech & Non-Tech

SHIP-HATS & Application Security with FOD [Thursday 13 Apr 2023 4 to 5 PM](#)

Learn how modernised tools seamlessly integrate into SHIP-HATS.
Level 100 Tech & Non-Tech

SHIP-HATS & Sonatype [Wednesday 26 Apr 2023 4 to 5 PM](#)

Learn the best practices of using Sonatype in SHIP-HATS.
Level 100 Tech & Non-Tech

Join us and remember to bring your questions for live Q&A.

[Learning Events available on Developer Portal](#)

The screenshot shows the 'Singapore Government Developer Portal' with a 'Learning Events' section. The 'Upcoming events' table lists three events:

Date	Topic	Audience	Level	Sign up
Hands on Workshop	SHIP-HATS 2.0 and Introduction to Pipeline Templates	Tech	200	By invitation based on onboarding and migration
Scheduled every month	Classroom session for developers	SHIP-HATS Users & Prospects		
9:00 AM- 5:00 PM				
Webinar	SGTS Learning Events - SHIP-HATS Product Briefing	Non Tech	100	Only by invitation
20 March 2023	SGTS Overview	SHIP-HATS Users & prospects		
3 PM to 4 PM	SHIP-HATS 2.0 Product Offering & Roadmap			
	Subscription packages			
	Learning Resources & Training			
Webinar	SHIP-HATS & Sonatype	Tech & Non Tech	100	Sign up
26 April 2023	Covers Benefits of Sonatype Nexus IQ for OSS consumption, Nexus Platform			

Thank You

