

INFOSYS DEVSECOPS

Sift Left Secure Right

Screenshots



Instructions

```
#!/bin/bash
set -e

# Function to check if a command is installed
is_installed() {
    command -v $1 > /dev/null 2>&
}

# Function to install a package
install_package() {
    sudo apt-get install $1
}

# Function to update the system
update_system() {
    sudo apt-get update
}

# Main script logic
update_system
install_package curl
install_package git
```

Information



Configuration

```
#!/bin/bash
set -e

# Function to check if a command is installed
is_installed() {
    command -v $1 > /dev/null 2>&
}

# Function to install a package
install_package() {
    sudo apt-get install $1
}

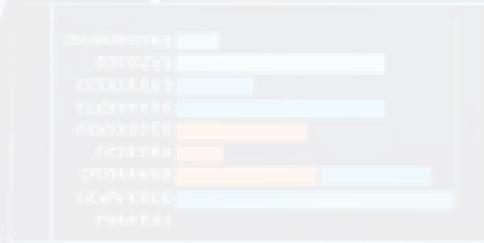
# Function to update the system
update_system() {
    sudo apt-get update
}

# Main script logic
update_system
install_package curl
install_package git
```

Very sensitive



Bar charts



A deep dive into Infosys DevSecOps Platform

By,
Manohar V Nagaiah

Agenda

- Importance of Shift Left
- Typical DevSecOps pipeline
- Platform Approach for DevSecOps Automation
- Three key ingredients required for Secure software delivery
- Quick introduction to Infosys DevSecOps Platform
- Sneak Peek into Infosys DevSecOps Platform



Importance of Shift Left



EARLY DETECTION =
LOWER COSTS

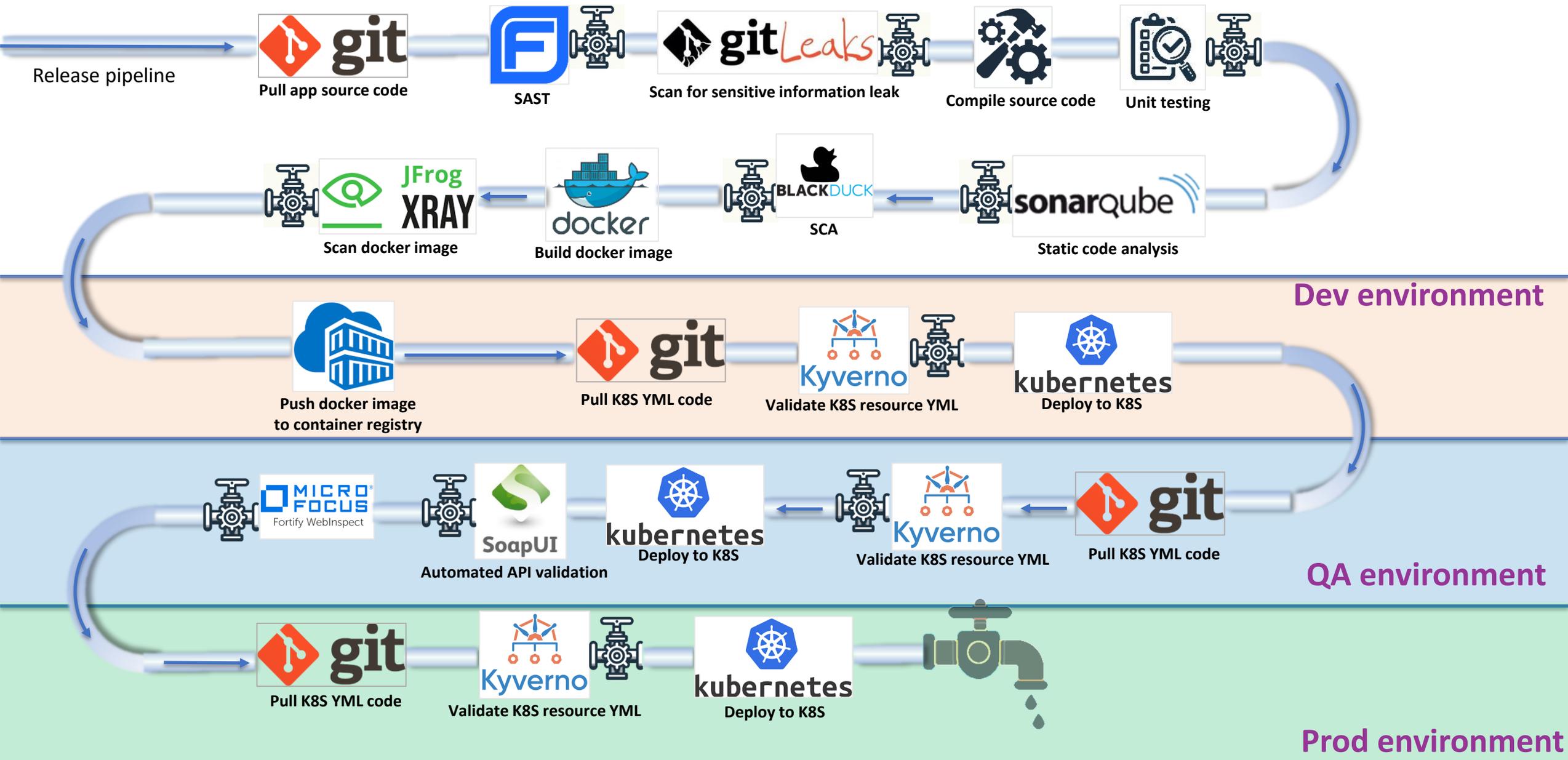


REDUCE SECURITY
RISKS



FASTER RELEASE CYCLES

Shift left security - Illustrative DevSecOps pipeline



Importance of Platform Approach



CONSISTENCY
ACROSS TEAMS



EFFICIENT
WORKFLOWS



COMPREHENSIVE
SECURITY

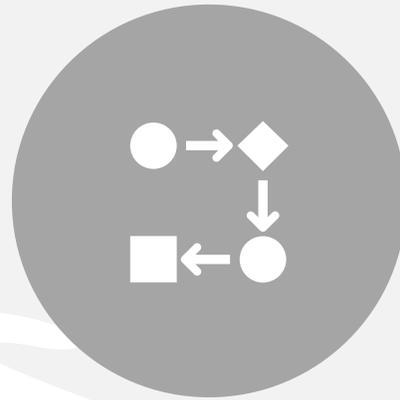


EASY ADOPTION

key Ingredients for producing secure software



TOOLS



PROCESS



TEAM CULTURE

Org-wide templates

The screenshot displays the Infosys DevSecOps Platform interface. The top navigation bar is purple and contains the platform name, a notification bell with '2...' alerts, and the user name 'DevSecOps Platform Admin'. A left sidebar lists various platform features. The main content area shows the 'Pipeline Templates' section with a list of templates and a 'Create New Template' button.

Infosys DevSecOps Platform

DevSecOps Platform Admin

Platform Configuration

Tools Integration Workers Dashboard **Pipeline Templates**

Pipeline Templates List [+ Create New Template](#)

Template Name	Template Category	Action
java-mvn-websphere	SCM, Test, BUILD, CI, SecOps, Security, CD, SECURITY, TEST, CT	
dotnet-core-k8s	SCM, SecOps, CI, dotnet, unit test, coverage, BUILD, DEPLOY, Security, CT, SECURITY, TEST	
iac-terraform	SCM, CI, SecOps, CD, SECURITY, TEST, Cloud, Terraform	
python-microsvc-k8s	SCM, SecOps, CI, BUILD, CT, DEPLOY, Security, SECURITY, TEST	
generic-devsecops	SCM, SecOps, CI, DEPLOY, BUILD, Security, CT, SECURITY, TEST	

Tools Mandate

Edit Portfolio - [redacted]

Variables Policies Release Workers **Tools Compliance** Pipeline Templates

Tools Compliance Configuration Selected Tools list: Fortify-SAST_0.0.X + Add Tools [trash icon]

Tools Mandate Run Frequency Gating Lock Plugin Fields

Mandatory + Add override

Pipelines matching the below patterns will be excluded from the mandatory list

Overrides by path matches

/infra_ [close icon]

Save

Run frequency

Edit Portfolio - [Redacted]

Variables Policies Release Workers **Tools Compliance** Pipeline Templates

Tools Compliance Configuration Selected Tools list: Fortify-SAST_0.0.X + Add Tools [Trash]

Tools Mandate **Run Frequency** Gating Lock Plugin Fields

Run Frequency List Exclude + Add Run Frequency

Inclusion	Frequency	Actions
/	Once in every 1-Week	[Edit] [Trash]

Items per page: 10 1 - 1 of 1 |< < > >|

Tools compliance – Audit dashboard

Portfolio

Maturity Quality **Audit** Insights Observability VSM

Compliance Telemetry

Filter

Last Executed : Oct 14, 2023, 7:35:42 AM

Pipeline	blackduck...	trivy vulnerability scanner...	developers-gitleaks...	jmeter...	k8s_customdeploy...	jfrog_xray...	codeql-analyze...
	✗ 50%	? NA	✗ 0%	? NA	? NA	? NA	✓ 100%
	✓ 100%	? NA	✗ 0%	? NA	? NA	? NA	✓ 100%
	✓ 100%	✗ 0%	✗ 0%	? NA	✗ 0%	✗ 0%	✗ 0%
	✓ 100%	✗ 14.28%	✗ 0%	? NA	✗ 0%	✓ 100%	✓ 100%
	✓ 100%	? NA	✗ 7.15%	? NA	? NA	? NA	✓ 100%

Items per page: 5 1 - 5 of 37

Centralized gating

Manage > Portfolio > EDIT - QAUTO

Dashboard Manage

Edit Portfolio - [REDACTED]

< Variables Policies Release Workers **Tools Compliance** Pipeline Templates >

Tools Compliance Configuration

Selected Tools list SonarQube_0.0.X + Add Tools

Tools Mandate Run Frequency **Gating** Lock Plugin Fields

Gating List

+ Add gating criteria

Specifics	Gating criteria	Actions
/	[critical == 0] && [blocker == 0] && [major == 0] && [minor <= 10]	
TTM/*	[critical <= 30] && [major <= 10] && [minor <= 110]	

Pipeline execution failed for not meeting gating criteria

The screenshot displays the Infosys DevSecOps Platform interface. The top navigation bar is purple and contains the platform name and a user profile for 'DevSecOps Platform Admin'. A left-hand sidebar lists various platform features such as Platform Configuration, Audit Logs, Portfolio, Application, Pipeline, Analytics, Plugin Builder, Onboard IDP, Reports, Policy Manager, About IDP, User Guide, and Feedback. The main content area shows a list of pipeline runs. The first run, 'BUILD (Integration) : Go-Coverage (Branch : 0, Level : 1)', is marked as successful with a green checkmark and a duration of 10s. The second run, 'BUILD (Integration) : SonarQube (Branch : 0, Level : 1)', is marked as failed with an orange warning icon and a duration of 48s. Below this, a large blue rectangular area represents a redacted or obscured log view. At the bottom of the log area, the following error message is visible: '[GatingFailed] Plugin execution marked as failed for the below reasons Actual result:{"blocker":0,"coverage":37.3,"critical":7,"debt":75,"duplicationpercentage":4.5,"info":0,"maintainabilityrating":1,"major":0,"minor":0,"reliabilityrating":1,"securityrating":1,"url":"https://infysonar.ad.infosys.com/dashboard/index/QLTY_QAUTO_idp-platform-portfolio-service"} Gating failed: [Gating failed], gating expression:[PluginReport.critical <= 0]

Lock plugin input fields

Tools Compliance Configuration Selected Tools list: SonarQube_0.0.X + Add Tools 🗑️

Tools Mandate Run Frequency Gating **Lock Plugin Fields**

Locked fields list + Lock Fields

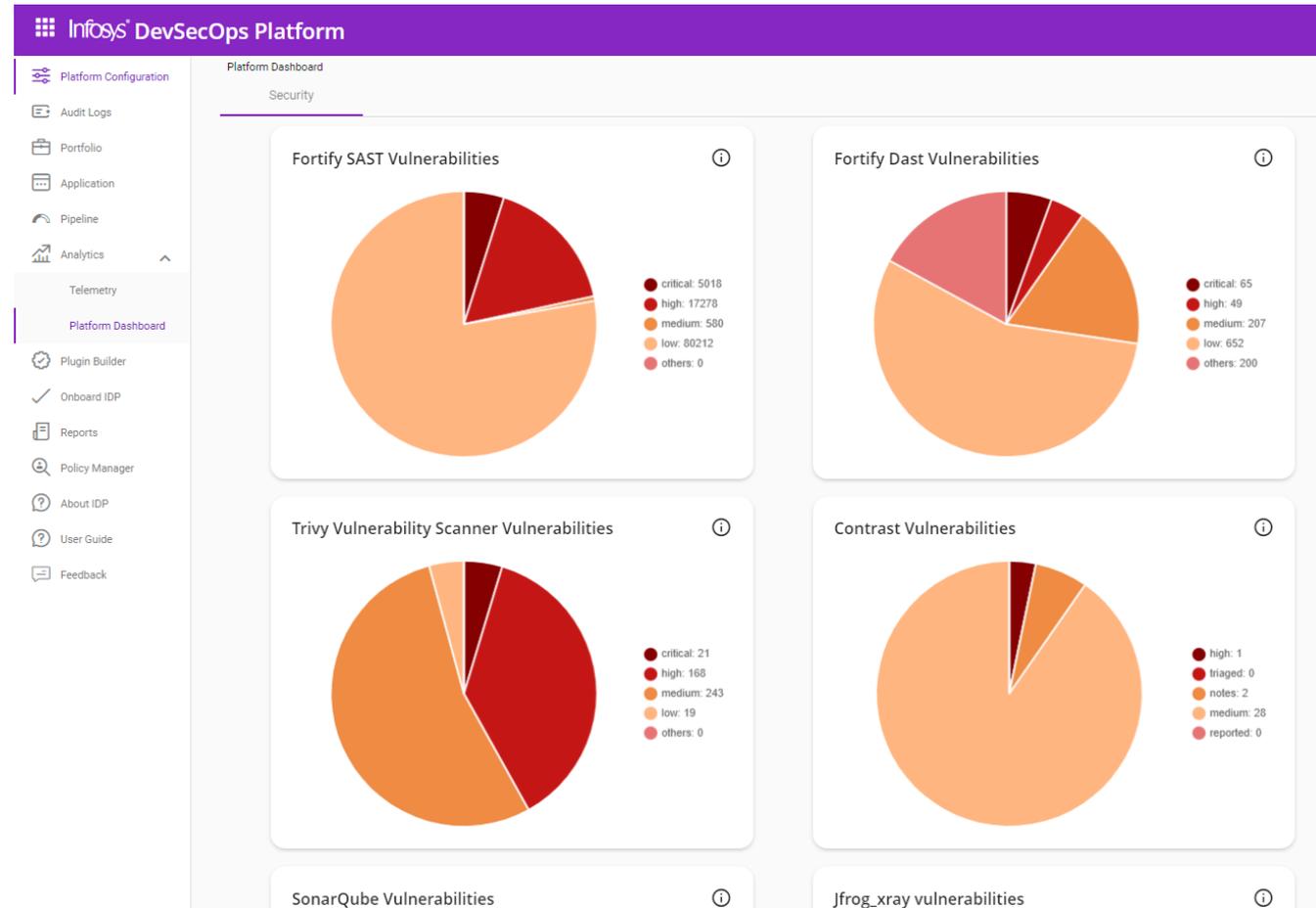
Inclusion	Custom Lock	Continue On Failure disabled	Actions
[redacted]/*	serverUrl	false	✎ 🗑️
[redacted]/SAP*		false	✎ 🗑️
[redacted]		false	✎ 🗑️
[redacted]		true	✎ 🗑️
IDP/svc_*	additionalSonarProperties	true	✎ 🗑️

Portfolio level pipeline templates

The screenshot displays the Infosys DevSecOps Platform interface. The top navigation bar is purple and contains the platform name, a notification bell with a '2...' indicator, and the user name 'DevSecOps Platform Admin'. A left sidebar lists various platform features. The main content area is titled 'Edit Portfolio' and includes a breadcrumb trail with tabs for 'Variables', 'Policies', 'Release', 'Workers', 'Tools Compliance', and 'Pipeline Templates'. Below the tabs is a 'Pipeline Templates List' section with two action buttons: '+ Import Platform level Template' and '+ Create New Template'. A table lists the existing pipeline templates with columns for Template Name, Template Category, and Action (view/edit icons).

Template Name	Template Category	Action
Jira-Pipeline	Insights	
report_dynamic	SCM, CI, BUILD, SecOps, SECURITY, Necessity framework, DEPLOY, CD	
MF_CS_TEMPLATE	SCM, CI, BUILD, SecOps, Necessity framework, CD	
CloudDevops_TS_EXT	SCM, CI, SecOps, SECURITY, CT	
CloudDevops_TS	SCM, CI, SecOps, SECURITY, CT	

Aggregated security dashboard



THANK YOU

Infosys[®]
Navigate your next

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