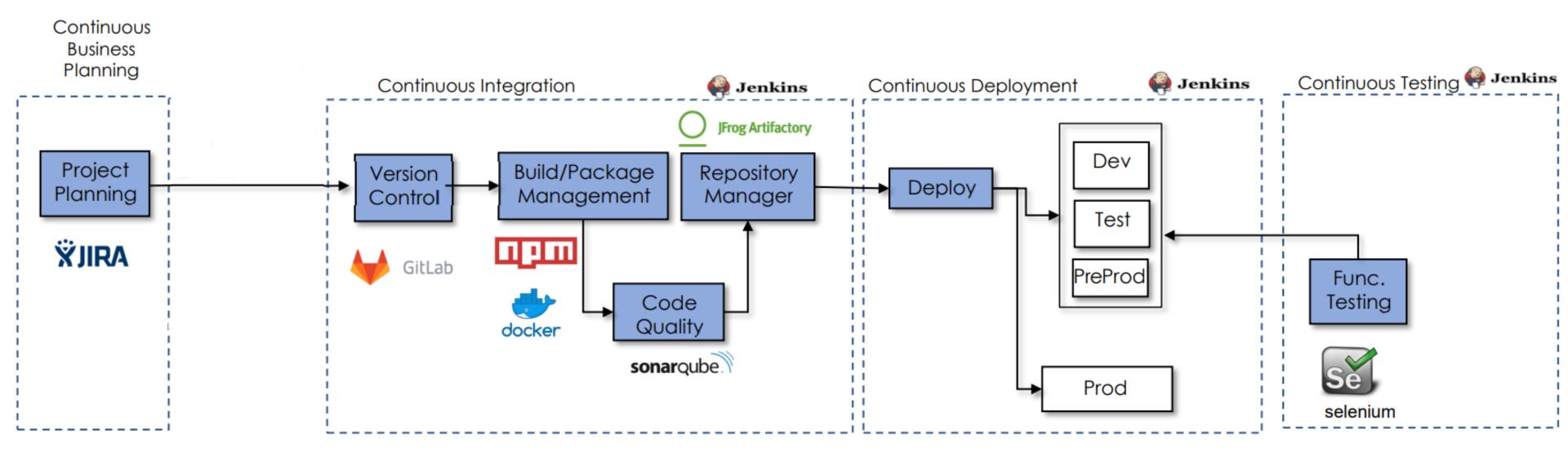
DevOps Implementation for HondaUK

Overview

- Honda is currently the fourth-largest vehicle manufacturer in the world.
- CI/CD Implementation done by incorporating the best principles and practices of DevOps.
- This document contains the detailed DevOps implementation for the HondaUK applications.

DevOps Pipeline



DevOps Tools

DevOps Capabilities	IBM Project Liberty
Project management tool	JIRA
Source code management	GitLab
Build orchestration tool	Jenkins
Static code analysis	SonarQube
Binary storage	Artifactory
Deployment Tool	Jenkins

Tool Links

Tools	Links
JIRA	https://gbsjira.in.edst.ibm.com/
Gitlab	https://gbsgit.edst.ibm.com/
Jenkins	https://gbsjenkins.edst.ibm.com/
Artifactory	https://gbsartifactory.edst.ibm.com/
Sonar	https://gbssonar.edst.ibm.com/sonar/

Technology Stack

Build Packages : Nodejs server, node:14.17.5, docker(19.03.13-beta2 version), npm(6.13.7 version).

Databases: Redis, Maximo, Cloudant.

Information

Pipelines: 9 Pipelines

Bluegroups: Admin-HondaUK & Dev-HondaUK

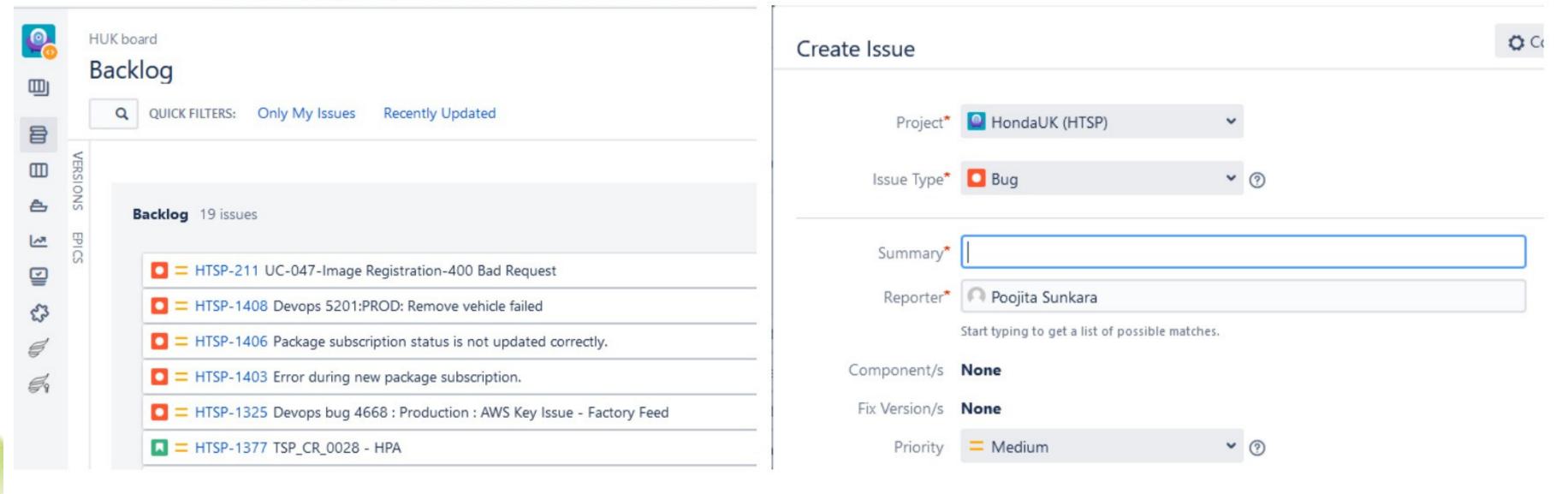
Jenkins slave: Docker10-agent

Executors: 2

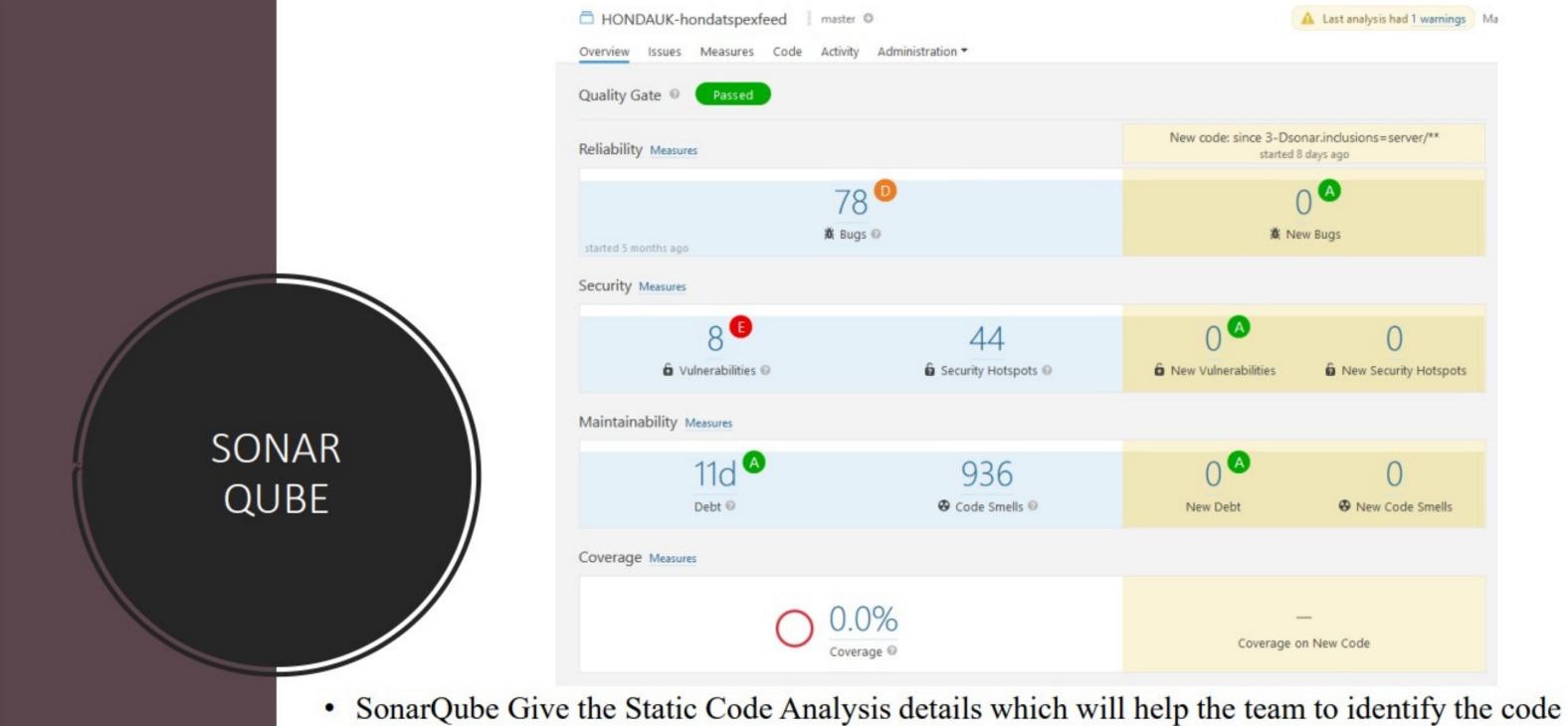
Environments: Dev, Test, Prod and PreProd.

Target Environment: IBM Cloud IKS

JIRA- https://gbsjira.in.edst.ibm.com

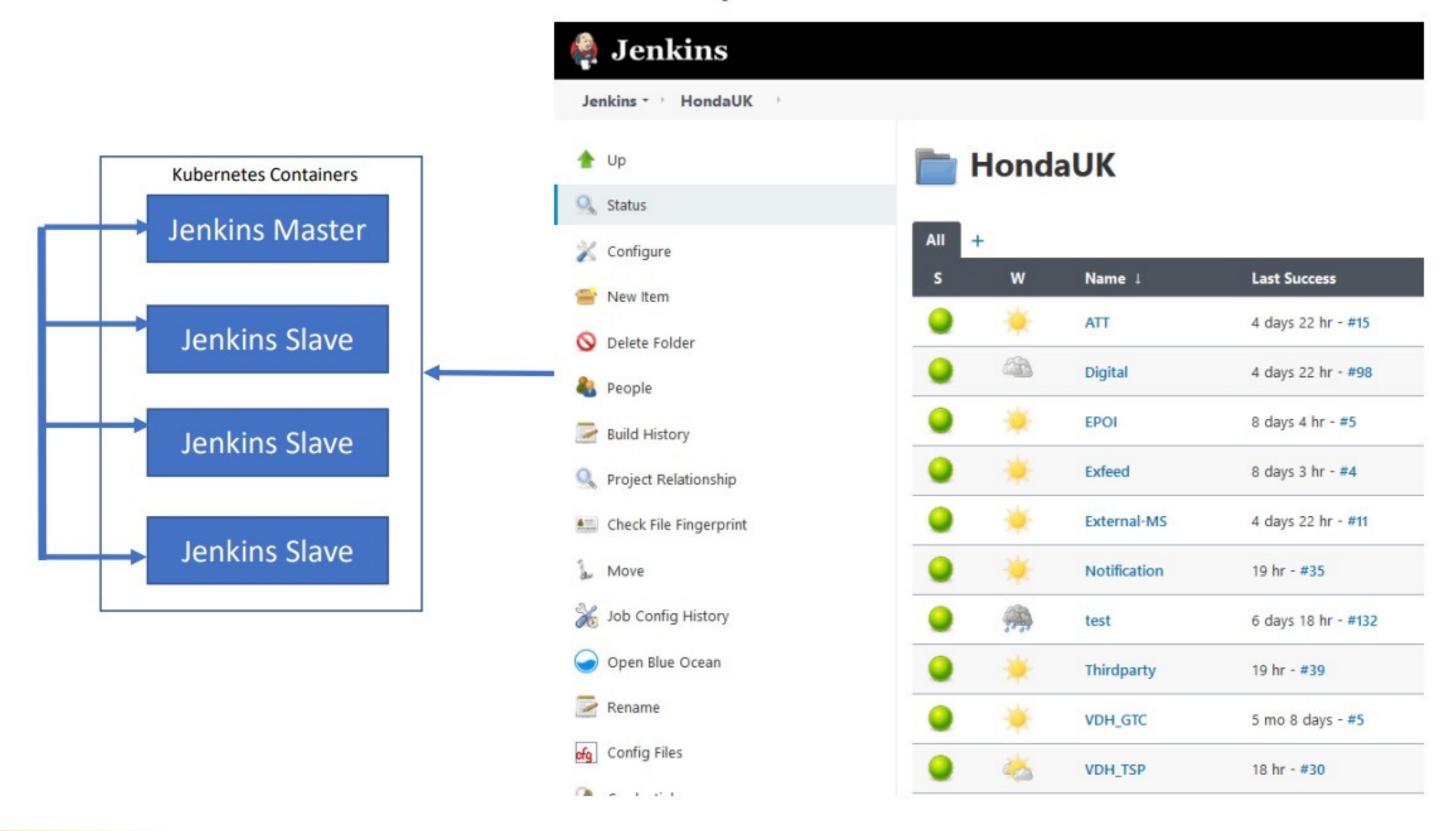


Jira will be used as the Issue tracking tool, which have complete control on the development and the bug tracking by the project team



- SonarQube Give the Static Code Analysis details which will help the team to identify the code quality.
- It will have the quality gate to proceed further as per the threshold value set by the project team.

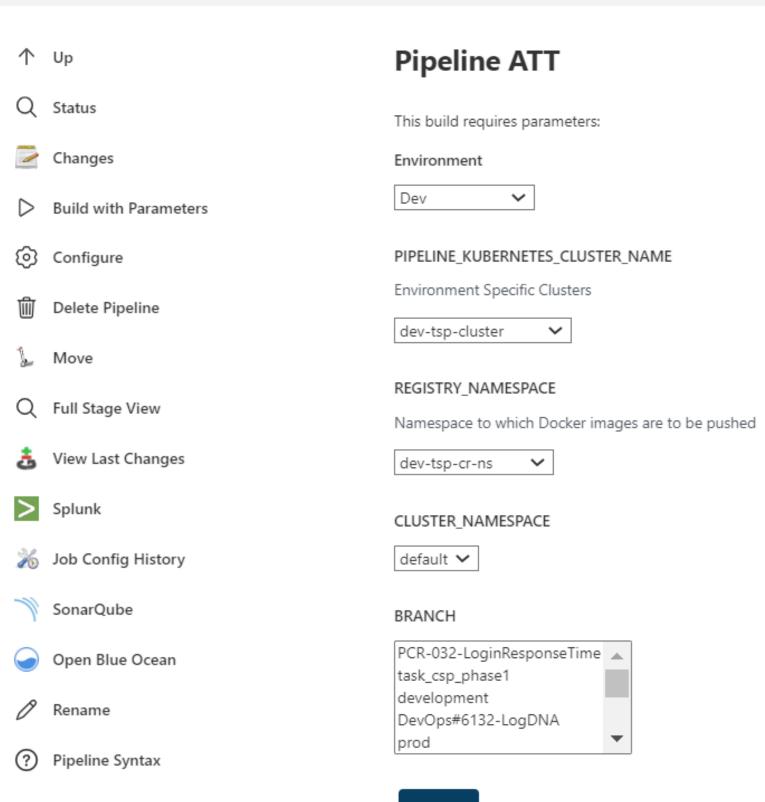
Jenkins Structure and its implementation - HondaUK



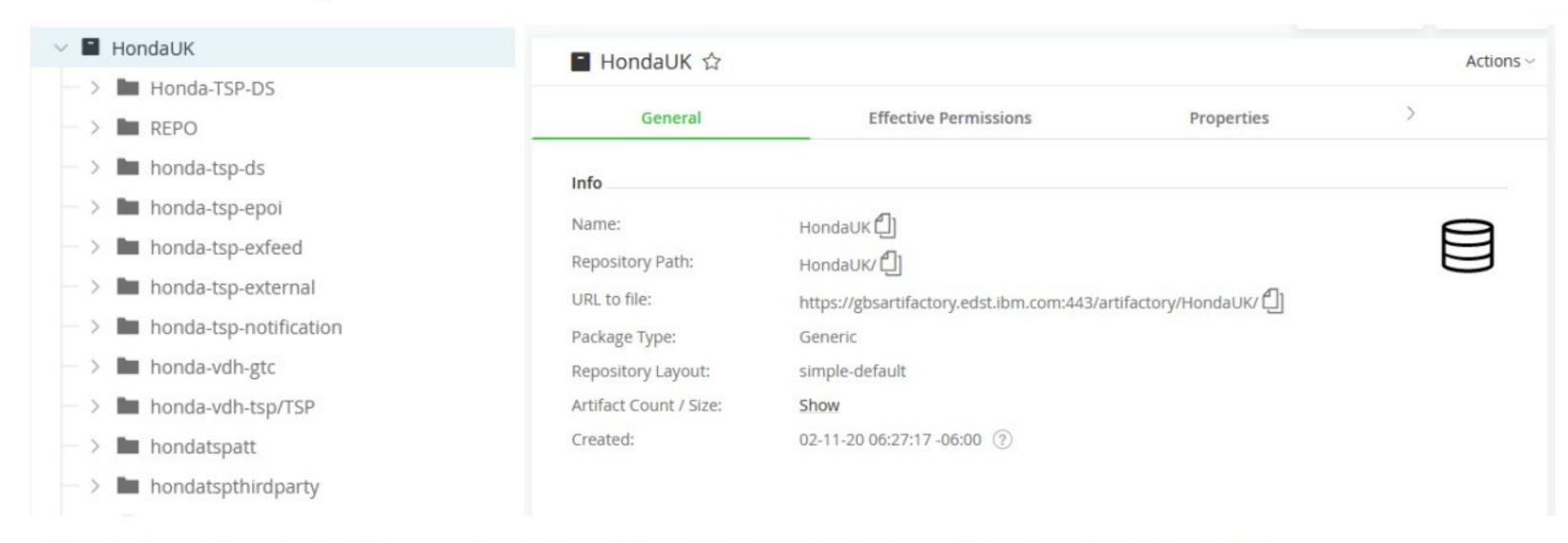
Jenkins For DEPLOY

Ruild Hietory





Artifactory



Artifactory is the repository manager supporting all major packaging formats, build tools and CI servers.

It has different type of repositories like generic, npm, maven, gradle etc.

The repository will store the outcome of your build process, often denoted as artifacts.

