Capital One

Hygieia - Dashboard Configuration

V 2.0

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Introduction

About Hygieia

Hygieia dashboard is a single, configurable, easy-to-use dashboard to visualize near real-time status of the entire delivery pipeline. In addition, it provides a continuous feedback loop for any DevOps organization.

Hygieia dashboards are customizable: you can select your story tracking tools, code repository, users can select VersionOne or Jira for story tracking, Subversion or GitHub as repositories, Jenkins/Hudson for builds, Selenium and SonarQube for quality, uDeploy and Jenkins for deployment. More plugins are available.

Hygieia dashboards assist in achieving process transparency and therefore help establish feedback loops that are the underlying concept of lean and DevOps. They contain interactive elements which enable drill-down and linking to the connected tools.

Objectives

- Automate Development Environment Setup:
- Continuous Performance Measurement and Visualization
- Unified DevOps Dashboard

Features

- **Visual Delivery Pipeline**: Use the pipeline view to visualize the status of the entire delivery pipeline and the components' lifecycle progression
- **Team Dashboard**: Monitor work items, code repo, builds, quality items (unit tests, security coverage), and deployments in a single dashboard
- **Real-time Status**: Monitor quality, productivity, and work in process on a real-time basis within the dashboard.
- **Configurable View**: Setup the dashboard to display the widgets that matter most to your project, which helps amplify and shorten to feedback loop.
- **Open Source**: Hygieia is open source and free for everyone to use. We also encourage external users to contribute to the project.

Hygieia Dashboard

Signup and Login

For a new user:

1. Click **Signup** in the login page to create a user account.
2. Enter a username, password, confirm the password, and then click **Signup**.

For an existing user, enter the username and password, and then click **Login**.

Select your Dashboard

Once you successfully login to the Hygieia dashboard, you can view the following tabs:

- All dashboards Tab
- Team dashboard Tab

- Product dashboard Tab

All Dashboards Tab

Under this tab, you can view the following dashboard:

- **My Dashboards**: List of all dashboards that you have created is displayed here.
- **All Dashboards**: List of all dashboards created by all users is displayed here.

Team Dashboards Tab

This tab displays a list of all product dashboards you have created for each individual product.

Product Dashboards Tab

This tab displays all the products for a team.

Create a New Team/Product Dashboard

Click **Create a new dashboard**. The following screen is displayed:

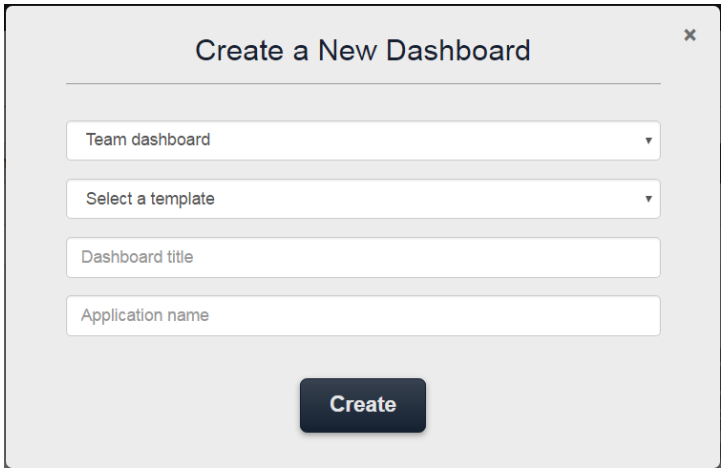

Fig 1: Create a New Dashboard

Enter the following details:

Team Dashboard: Select the dashboard type from the dropdown list. You can select one of the following values:

- Team Dashboard
- Product Dashboard

Select a template: Select a dashboard template from the dropdown list. For Team Dashboard, select one of the following options:

- Cap One
- Cap One ChatOps
- Cloud Dashboard
- Split View

For product dashboard, the default template is Product Dashboard.

Dashboard Title: Enter a title for your DevOps dashboard. The title must be unique for each dashboard.

Application Name: Enter the application name for which you are creating the DevOps Dashboard.

Once you have entered these values, click **Create**.

Search for a Dashboard

In the dashboard search field, enter your dashboard name and press **Enter** on the keyboard.

Based on the search keyword, a list of dashboards is displayed under the **All Dashboards** section.

Configure the Dashboard

Dashboard Views

A view is a primary mechanism for displaying data. The Hygieia dashboard offers comprehensive overview through two view methods:

- Widget view - Widget view showcases more detailed information: features in the current sprint, code contribution activities, continuous integration activities, code analysis, security analysis, unit and functional test results, and deployment and environment status.
- Pipeline view - The pipeline view pulls back to show each component's lifecycle progression through the development, testing, and deployment stages.

Widget View

The widget view gives more detailed information about the features, code contribution, continuous integration, deployment, and environment status.

Standard Dashboard Widgets

Widget	Description
Features	Displays features in the current sprint to help you track epics or issues in a sprint type feature from feature management tools JIRA, VersionOne
Code Repo	Displays code contribution activities from one of the supported code repositories.
Build	Displays build status
Quality and Performance	Displays the code quality and performance details based on unit and functional test results.
Deploy	Displays deployment and environment status details
Monitor	Displays monitor details

Configure Widgets - Common Procedure

To configure a widget in the dashboard:

1. Click **Configure Widget** under the widget name for which you want to configure your DevOps Dashboard.
   The **Configure <Widget Name> Widget** pop-up screen in invoked.
2. In the **Configure <Widget Name> Widget** screen, enter configuration values for the fields, and then click **Save**.

The Dashboard widget displays values and status based on your configuration.

Configure Feature Widget

Click Configure to invoke the Configure Feature Widget screen. In this screen, enter the following details:

Agile Content Tool Type: Select one of the following feature data source:

- JIRA
- VersionOne

Project Name: Enter a new project name or select one of the existing projects from the list of projects.

Team Name: Enter a team name

Estimate Metric: Estimate metrics are:

- Hours
- Issue Count
- Story Points

Sprint Type: Select a sprint type:

- Sprint
- Kanban
- Both

List Feature Type: Select one of the following feature type:

- Epics
- Issues

Click **Save** to save all the details and view the Feature-related details in the widget.

Based on the configuration, Hygieia displays the following details in the Features widget:

Configure Code Repo Widget

Repo Type

Repo URL

Branch

Credentials (Optional)

Configure Build Widget

Build Job

Build Duration Threshold (minutes)

Alert Takeover Criteria (number of consecutive build fails)

Configure Code Analysis and Performance Widgets

Static Code Analysis

Security Scan

Open Source Scan

Functional Tests

Performance Widget: Performance Analysis Job

Configure Deploy Widget

Configure Monitor Widget

Our services

Dependent Services

Create a Custom Widget

Pipeline View

You can configure the pipeline view from development through deployment stages.

Select a Preconfigured Dashboard

Administer the Dashboard

Change Dashboard Settings

To change the settings for your dashboard:

1. Go to All Dashboards tab in the main console.
2. Under My Dashboards, select the dashboard you want to edit/make changes to, and then click **Settings** icon ( ) to the right of the dashboard. The **Administer Your Dashboard** screen is invoked.

In this screen, you can make specific changes to the dashboard in the following tabs:

- **Dashboard Title Tab**: To change or edit the existing title, enter the new title, and then click **Save**.
- **Business Service/Application Tab**: In the **Business Service** field, select a top-level name that supports a business function.
  In the business application details, in the
- **Owner Information Tab**: Add/edit the Dashboard owners' list.

Delete Dashboard

To delete a dashboard:

1. Go to All Dashboards tab in the main console.
2. Under My Dashboards, select the dashboard you want to edit/make changes to, and then click **Delete** icon ( ) to the right of the dashboard.

The dashboard is deleted.