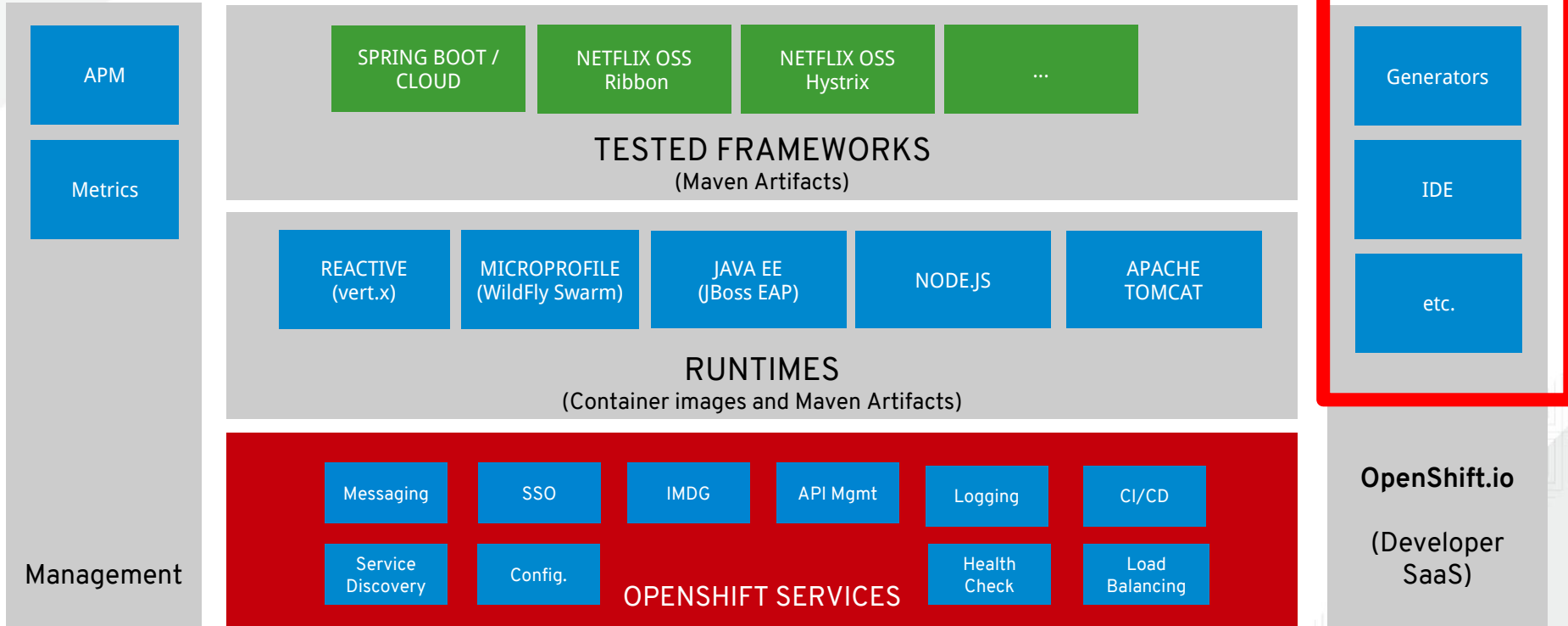


# Openshift.io: Portiamo l'IDE nel cloud

Giuseppe Bonocore  
Solution Architect

# RHOAR: OpenShift Application Runtimes



# Openshift.io - Eclipse CHE tooling





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- codenvy
- red hat
- Cloud
- Popular Posts**

# Red Hat to acquire Codenvy as part of its growing container strategy

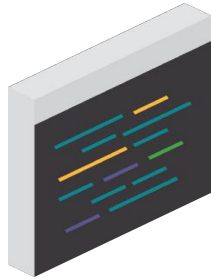
Posted May 25, 2017 by [Ron Miller \(@ron\\_miller\)](#)



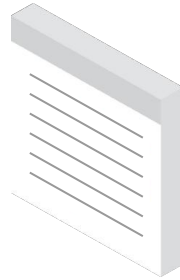
AdChoices ▶

Crunchbase

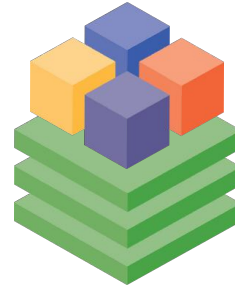
# What is needed to make a contribution?



IDE

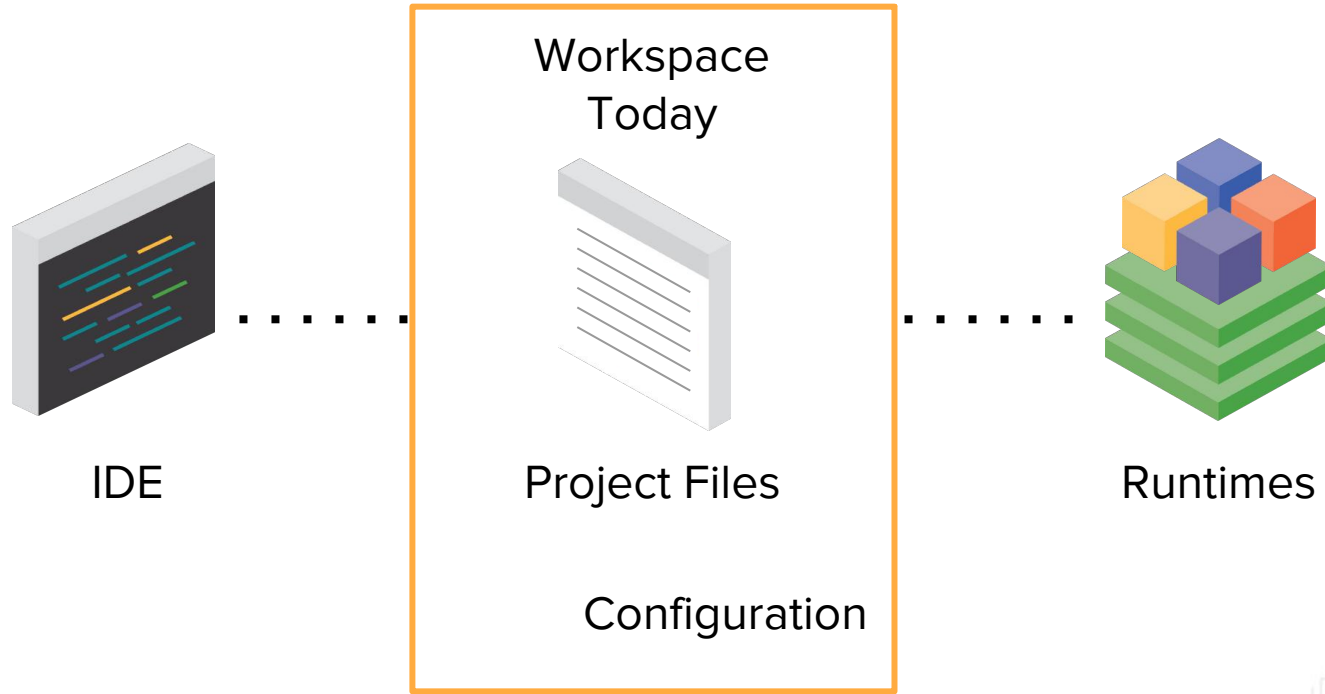


Project Files

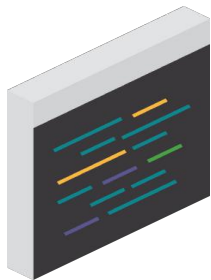


Runtimes

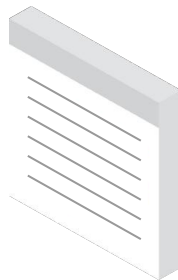
# What is needed to make a contribution?



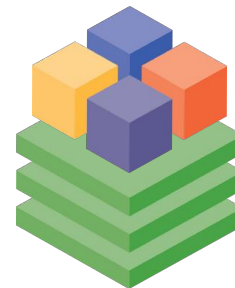
# Che Workspaces



IDE

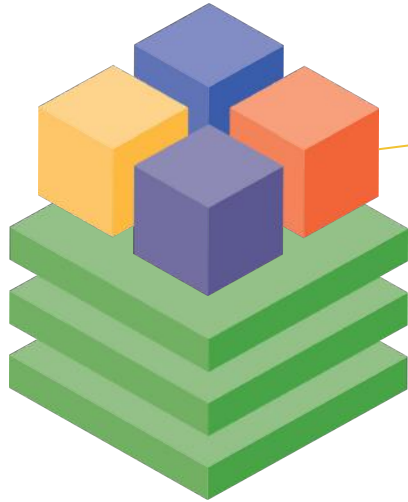


Project Files



Runtimes

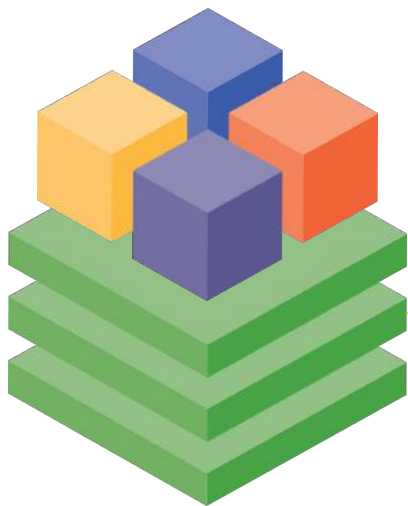
# Projects are mounted into the runtimes



Projects rely on  
workspace runtimes



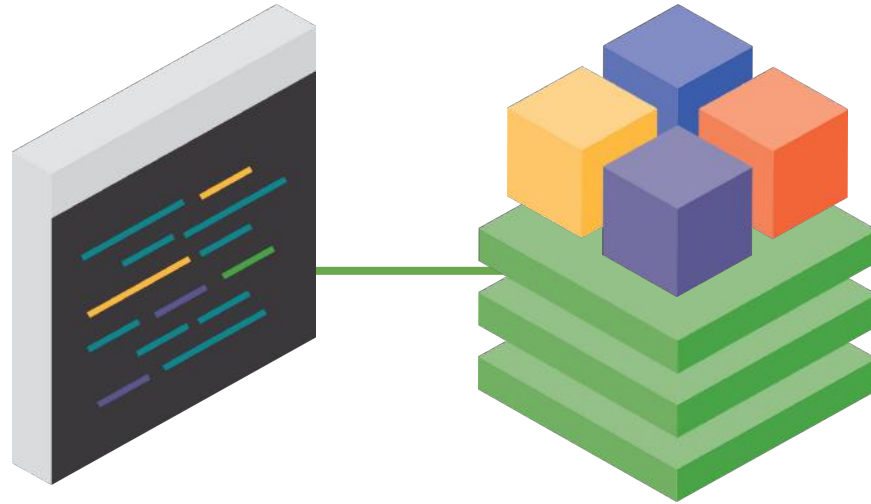
# Workspaces define commands



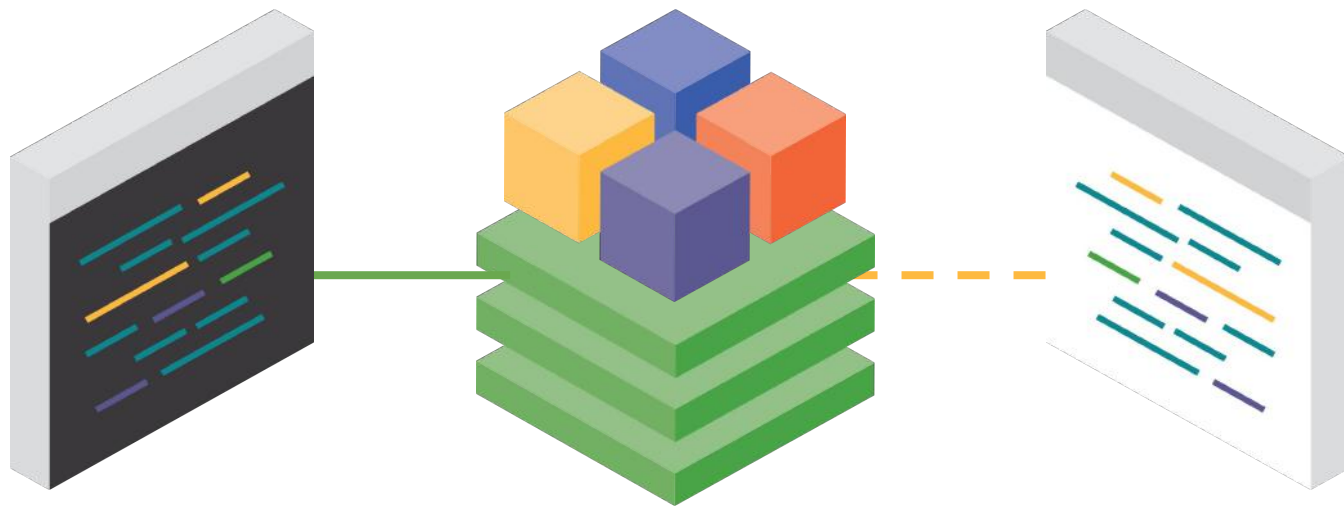
Commands are  
executed as  
processes in  
workspace  
runtimes

- mvn clean install
- start mysql
- deploy project

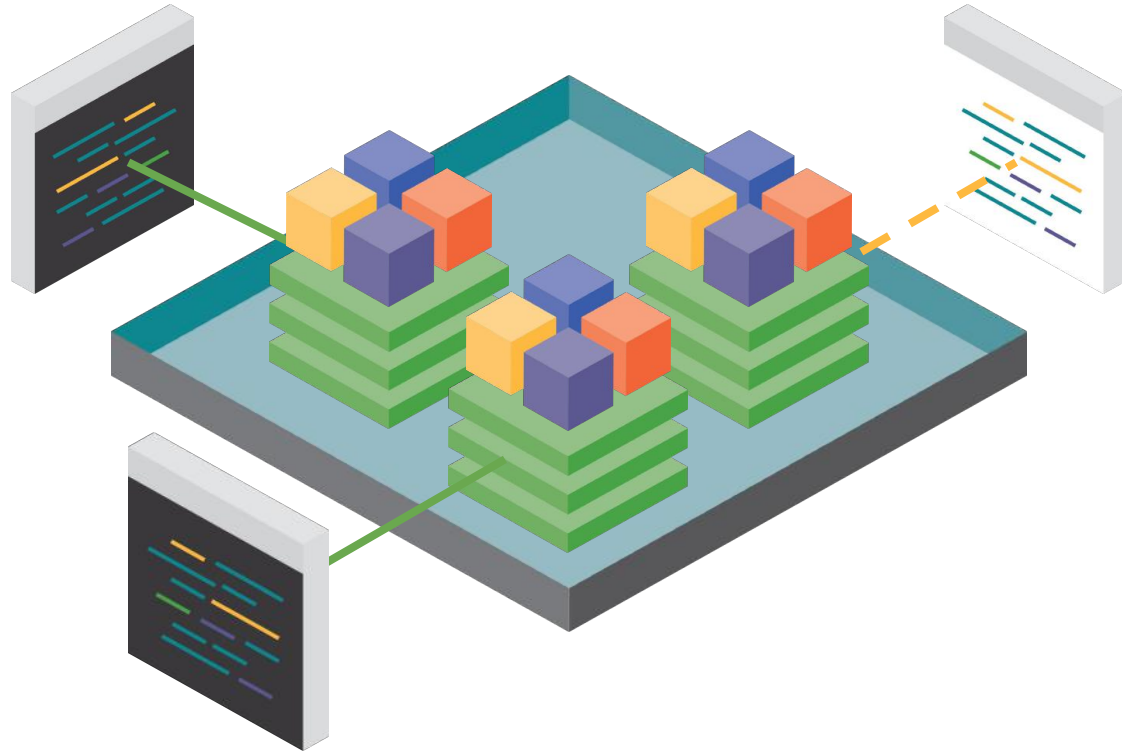
# Workspaces provide their own browser IDE



# Desktop IDEs can connect over SSH



# Workspaces are hosted in Che's server



# Plug-ins

## Languages

Syntax highlighting, stacks, templates, and code assistants.

- Java
- C++
- JavaScript
- Python
- PHP
- Ruby
- SQL

## Frameworks

Project types, scaffold tool integration, and syntax analysis.

- OpenShift
- Angular JS
- Docker
- Yeoman

## Builders

Builders to manage unit tests, compilation, linking, and dependencies.

- Ant
- Bower
- Grunt
- Gulp
- Maven
- Npm

## Tools

Extensions that integrate the IDE with other parts of the developer tool chain.

- Git
- Orion
- SSH
- Subversion



# Developer Workspace


# Project Badging






Spring petclinic with a branch for using MySQL — Edit


356 commits      4 branches      0 releases      15 contributors


---

Branch: **master** [New pull request](#)    [New file](#)    [Upload files](#)    [Find file](#)    **HTTPS**    <https://github.com/codenv>    [Download ZIP](#)

 **slateur** Update url of contribution button      Latest commit `ab3d07d` on Apr 28, 2015

 <a href="#">src</a>	migrated to Spring 4.1.1.RELEASE	a year ago
 <a href="#">.gitignore</a>	Ignore codenvy settings	a year ago
 <a href="#">.springBeans</a>	using latest versions of hibernate, spring-data, joda...	2 years ago
 <a href="#">pom.xml</a>	upgraded to Spring Data 1.7.0	a year ago
 <a href="#">readme.md</a>	Update url of contribution button	11 months ago

 [readme.md](#)

 **Developer Workspace**

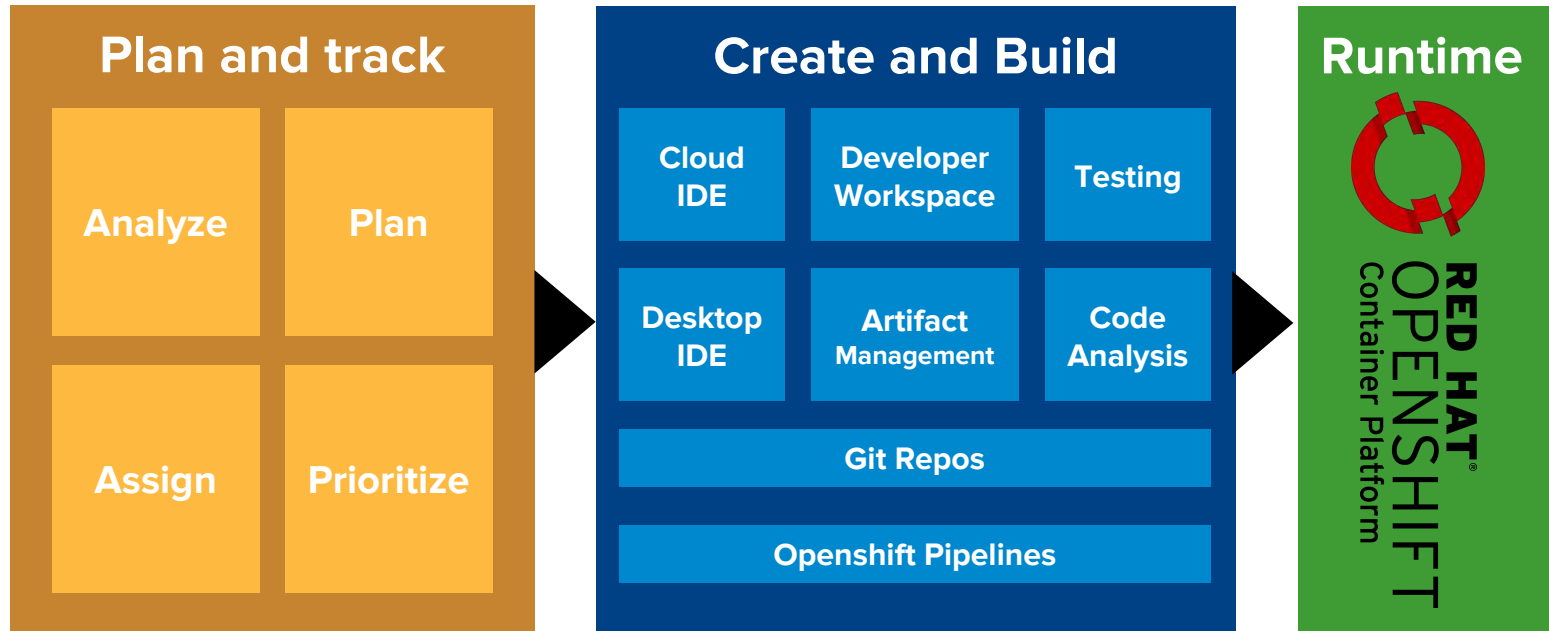
# Openshift.io: Cloud Based IDE, SDLC and more...





# OpenShift.io

Unified view across teams and projects



# Create new Space

Home Profile

## Create new collaboration space

Space Name  
eCommercePlatform

Development Process  
Agile

What type of space would you like to create

- Public  
Anyone can access this space
- Private  
Only authorized people can access this space

Create Space

Recent Collaboration Space

Bobo

Hysterix

fabric8io

BalloonPopGame

sdfdsfdf

dsfdf

safsafda

# Multiple, guided ways to Get Started

Your **BalloonPopGame** Space is ready! How would you like to get started ?

**I'd like to start by Planning my work.**  
(more content and graphics)  
Planning

**I'd like to start by Coding from scratch.**  
(more content and graphics)  
New Code


















**I'd like to start by Importing existing code.**  
(more content and graphics)  
Import Code

**I'd like to use a wizard or QuickStart.**  
(more content and graphics)  
Wizard  
QuickStart

Cancel Back Finish

# Wizards, powered by Forge project

Select a project type to add to the **BalloonPopGame** space.

 Django	 From Archetype	 From Archetype Catalog
 Funktion	 Generic	 Go
 Integration	 Java Enterprise Archive (EAR)	 Java Library (JAR)
 Java Web Application (WAR)	 Microservice	 NodeJS
 Rails	 Spring Boot	 Swift
 Vert.x	 Wildfly Swarm	

Project Name

Copyright 2017 Red Hat

# Advanced Openshift Pipelines

Stack and Code      Deployment      Summary

1      2      3

2A. Configure Pipeline >

2B. Build Config

Select a build pipeline strategy

- > Release  
Build Release → Integration Test
- > Release and Stage  
Build Release → Integration Test → Rollout to Stage
- > Release, Stage, Approve and Promote  
Build Release → Integration Test → Rollout to Stage → Approve → Rollout to Run

Cancel      < Back      Next >

01:30      04:52

# Integrated planner

Move ▾ | Filter Method ▾ | +

**Backlog** 95

▾ Current Iteration

**Carnation** ⋮

Feb 12, 2017 - Feb 19, 2017 71 of 74 completed

▸ Future Iteration

▸ Past Iteration

+ Create Iteration

<span>↓</span> <span>✍</span> 14	Link Item 1		<span>⋮</span>
<input type="checkbox"/> <span>↓</span> <span>📖</span> 5	New item 1		<span>⋮</span>
<span>↓</span> <span>✍</span> 16	Link Item 3		<span>⋮</span>
<span>↓</span> <span>📖</span> 17	Work 2		<span>⋮</span>
<input checked="" type="radio"/> <span>⊕</span> 1	Work item 10		<span>⋮</span>
<span>↓</span> <span>📖</span> 7	Create work item of any type from quick add		<span>⋮</span>

+ Add Work Item

# Kanban Boards

The screenshot displays a Jira Kanban board for the project 'Trade\_Insights/Sprint 4'. The board is organized into four columns: 'new' (5 items), 'open' (2 items), 'in progress' (3 items), and 'resolved' (2 items). The 'new' column contains tasks 577, 573, 570, 569, and 563. The 'open' column contains tasks 582 and 567. The 'in progress' column contains tasks 576, 575, and 566. The 'resolved' column contains tasks 579 and 565. A left sidebar shows the 'Current Iteration' as 'Sprint 4' with '0 of 7 completed' items. The top navigation bar includes 'Backlog' and 'Board' tabs, and a filter dropdown set to 'Task'.

Backlog **Board**

Backlog **11** Select *Select a filter type* Currently showing: Task

Current Iteration

**Sprint 4**

*/Trade\_Insights/Sprint 4*

**0 of 7 completed**

> Future Iterations

> Past Iterations

**new 5**

- 577 Write script for validating the deployment
- 573 Evaluate unit test coverage
- 570 Run reports of OpenShift usage
- 569 Design notifications for any market alerts
- 563 Performance Tests

**open 2**

- 582 Notification history needed
- 567 Integrate with zabbix

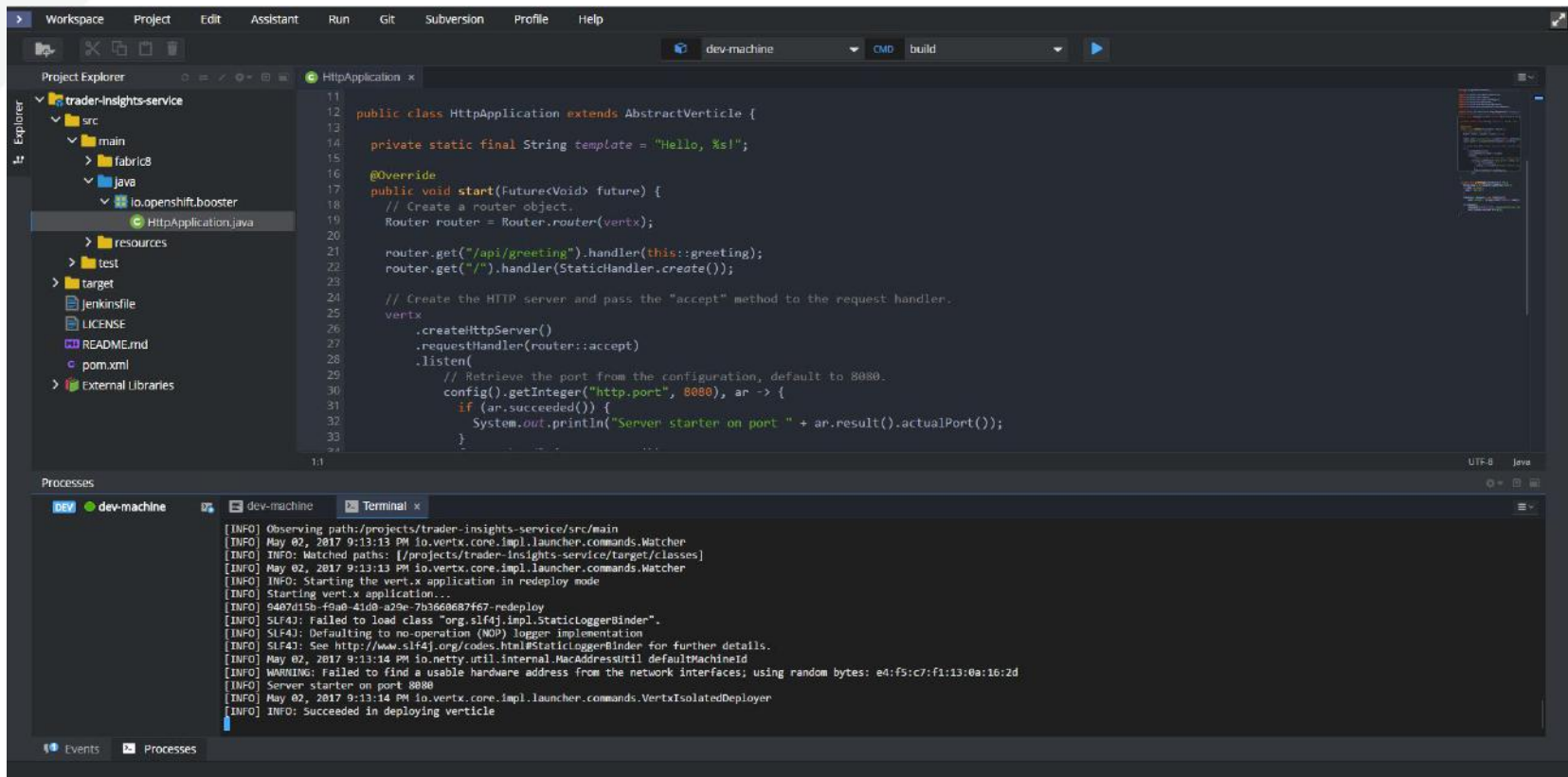
**in progress 3**

- 576 Test service scaling for HA
- 575 Design trade window alert area
- 566 Add tradeWindowEnd

**resolved 2**

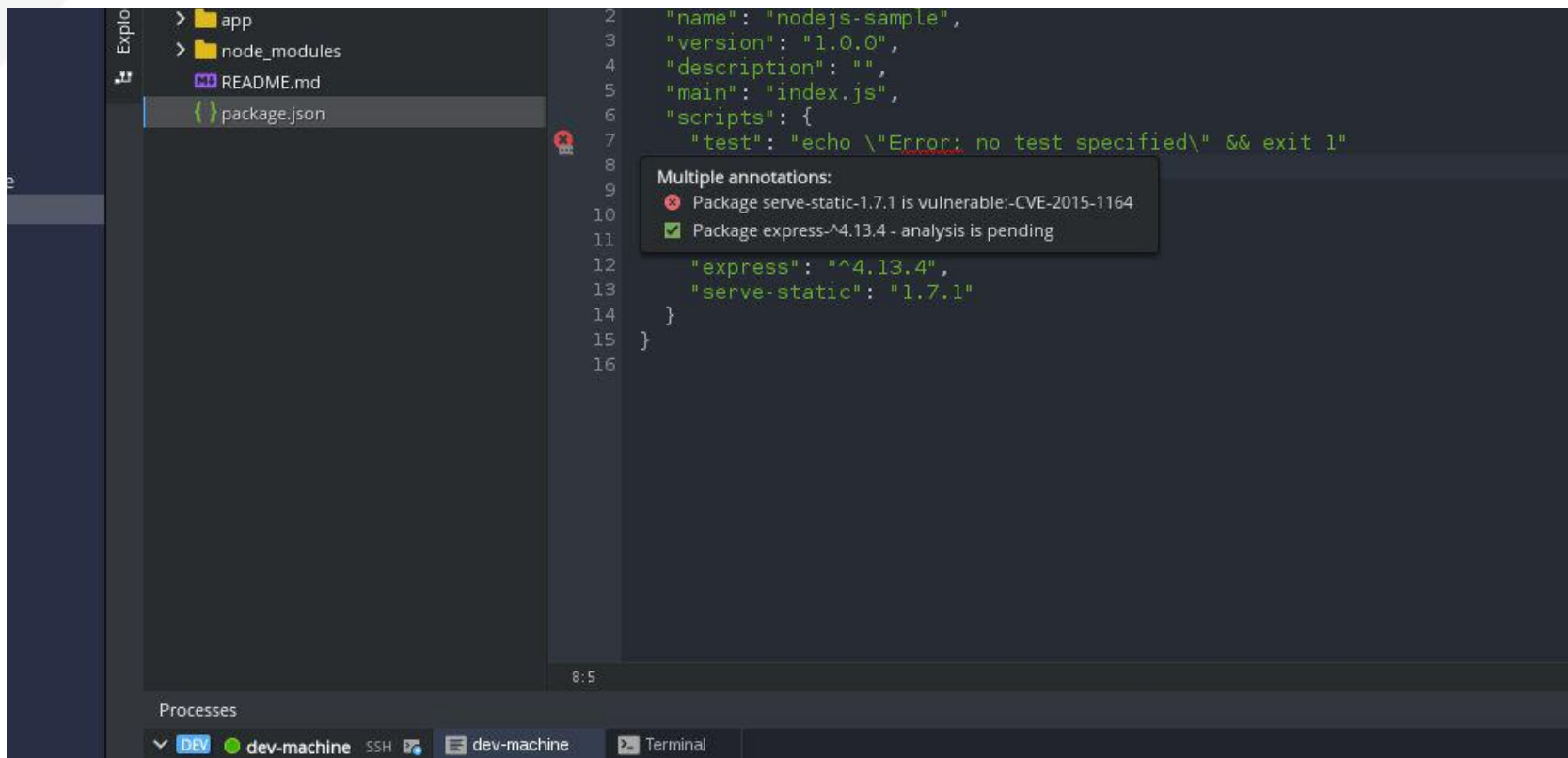
- 579 Add Quinn to sprint retrospective
- 565 Add functional tests to stage environment

# Browser based IDE





# Fabric8 Analytics Suggestions



The screenshot shows an IDE interface with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders 'app' and 'node\_modules', and files 'README.md' and 'package.json'. The code editor displays the contents of 'package.json':

```
2  "name": "nodejs-sample",
3  "version": "1.0.0",
4  "description": "",
5  "main": "index.js",
6  "scripts": {
7    "test": "echo \"Error: no test specified\" && exit 1"
8  }
9
10
11
12  "express": "^4.13.4",
13  "serve-static": "1.7.1"
14 }
15 }
16
```

A warning overlay titled "Multiple annotations:" is positioned over the code. It contains two items:

- Package serve-static-1.7.1 is vulnerable: CVE-2015-1164
- Package express-^4.13.4 - analysis is pending

The IDE interface includes a "Processes" bar at the bottom with tabs for "DEV", "dev-machine", "SSH", "dev-machine", and "Terminal".

# Insights and suggestions

Report title on Application, Build #8a0db42c991844d0b05d442229c6ae16

Updated just now

## Recommendations

Based on our analytics engine we found 3 recommendations to improve your application stack:

- Recommended - Update io.vertx:vertx-web : 3.4.1** Vert.x HTTP Booster has a different version of that dependency. [Create Work Item](#)
- Recommended - Update ch.qos.logback:logback-core : 1.2.3** Vert.x HTTP Booster has a different version of that dependency. [Create Work Item](#)
- Recommended - Update org.slf4j:slf4j-api : 1.7.2** Vert.x HTTP Booster has a different version of that dependency. [Create Work Item](#)

## Stack Overview

### Security

CVE-2017-5929 

7.5 CVSS score 7.5 of 10 Total



### Dependencies



4

Dependencies  
(direct declared)

### Code Metrics



147942 lines of code

NA Cyclomatic complexity

1026 total files

### Total Licenses Used



## Dependencies

Name  Filter By Name...

Name	Current Version	Latest Version	CVE ID	CVSS	License	Lines Of Code	Average Cyclomatic Complexity	Total Files
io.vertx:vertx-core	3.4.1	3.4.0	NA	NA	ASL 2.0,Free Art,MITNFA	80586	NA	441
org.slf4j:slf4j-api	1.7.22	1.7.24	NA	NA		-1	NA	-1
ch.qos.logback:logback-core	1.1.10	1.2.1	CVE-2017-5929	7.5	Forbidden Phrase,Free Art,MPLv2.0	29507	NA	345
io.vertx:vertx-web	3.4.0	3.4.0	NA	NA	ASL 2.0,Free Art,RsfS	37850	NA	241

**QUESTIONS?**





# RED HAT OPEN SOURCE DAY

Europe, Middle East & Africa