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Integrate Instana with a Microservice Application on OpenShift

Sbusiso Mkhombe
Developer Advocate, South Africa

IBM

Monitor the performance of your microservice applica...

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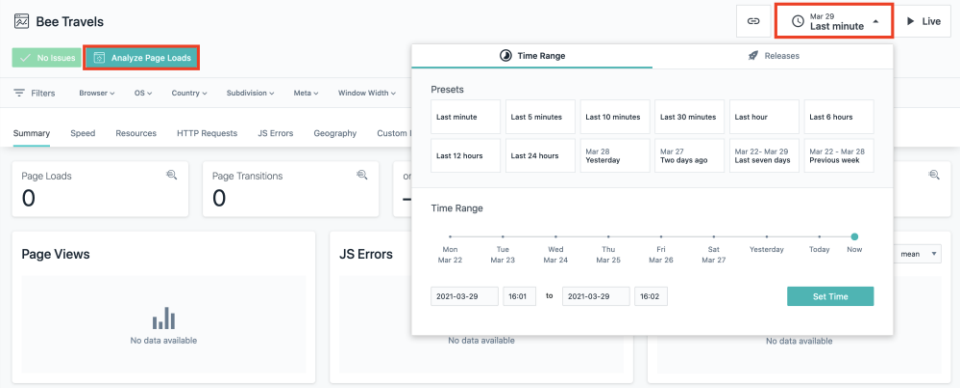
Use Case

We want to integrate Instana with a polyglot microservice travel application, the Bee Travels project, on Red Hat OpenShift.

This will allow us to monitor the performance of our microservice application.



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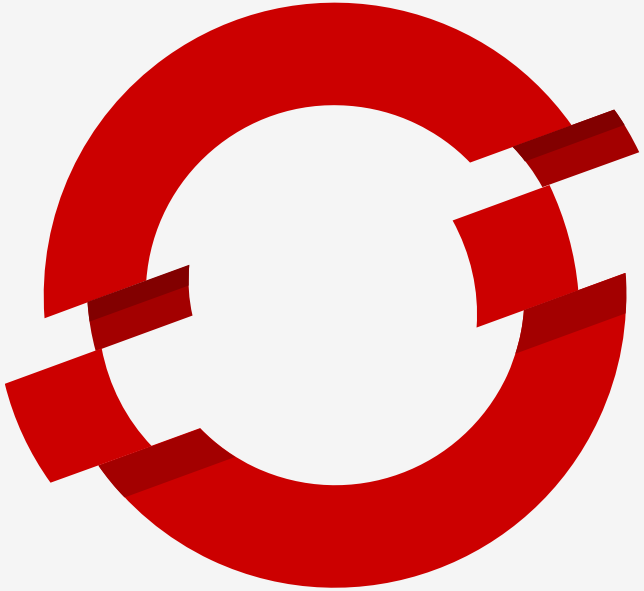
Deployment Models

We can either deploy the application on Red Hat OpenShift or opt to run it locally using Code Ready Containers.

We can use the IBM Cloud Shell as described in the lab, this will then use our OpenShift Cluster on IBM Cloud, or we can alternatively run the same commands on our local machine using Code Ready Containers.



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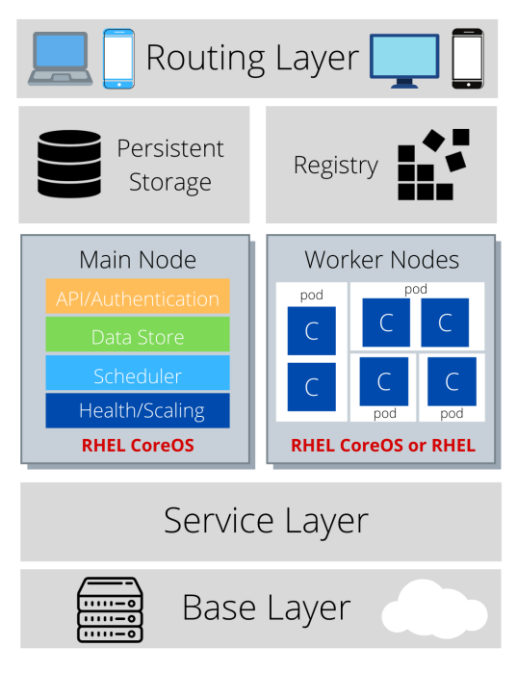
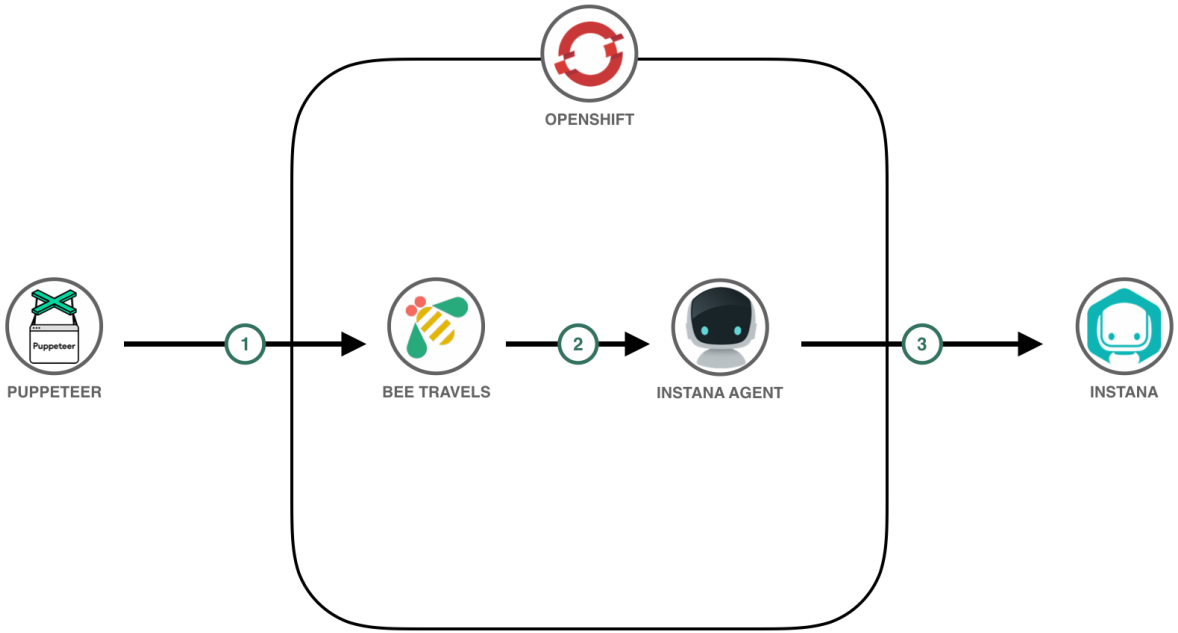
Openshift Architecture



Application Architecture



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Instana

Instana is a fully automated APM solution for cloud-native, multi-cloud and hybrid cloud applications.

Instana allows you to make sense of your chaotic cloud-native environments.

INSTANA
an IBM Company

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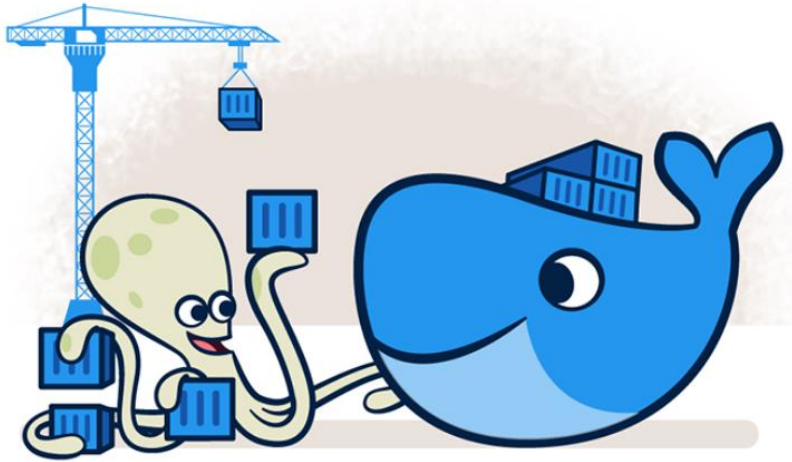
Docker

Docker is an open-source containerization platform. It **enables developers to package applications into containers.**

Containers are standardized executable components.

These components combine application source code with the operating system (OS) libraries and dependencies required to run that code in any environment.



https://www.docker.com/

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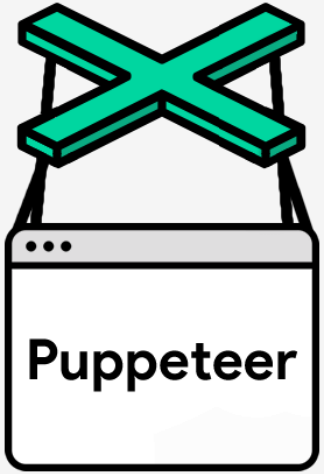
Puppeteer

Puppeteer is a Node library which provides a high-level API to control headless Chrome or Chromium over the DevTools Protocol.

It can also be configured to use full (non-headless) Chrome or Chromium.



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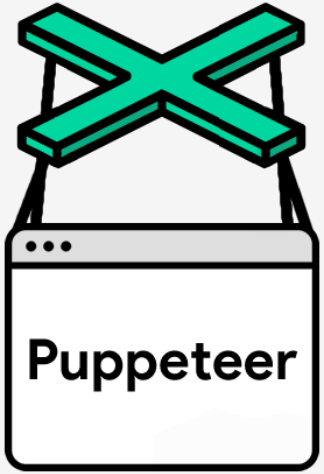
Puppeteer

Most things that you can do manually in the browser can be done using Puppeteer!

1. Generate screenshots and PDFs of pages.
2. Crawl a SPA (Single-Page Application) and generate pre-rendered content (i.e. "SSR" (Server-Side Rendering)).
3. Automate form submission, UI testing, keyboard input, etc.
4. Capture a timeline trace of your site to help diagnose performance issues.
5. Test Chrome Extensions
6. Create an up-to-date, automated testing environment. Run your tests directly in the latest version of Chrome using the latest JavaScript and browser features.



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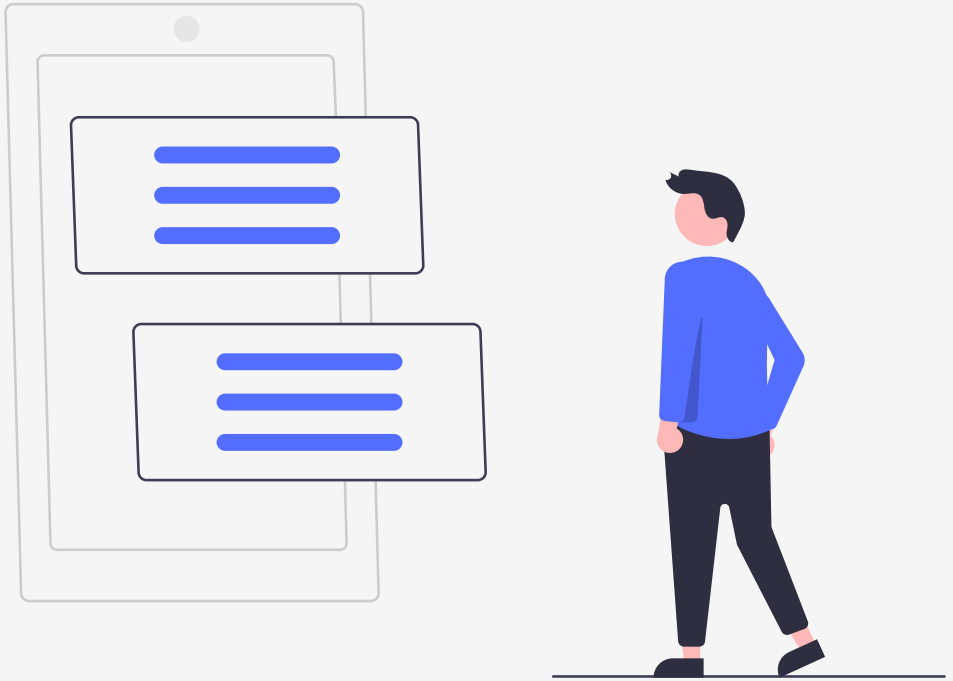

Thank you

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—
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