DEV1331
Using Eclipse as an IDE for SUSE Cloud Application Platform

RahulKrishna Gupta
Sr. Solution Architect | RahulKrishna.Gupta@suse.com
Global System Integrators Alliance Team
Agenda

• The need for Application Delivery Solutions
• SUSE Cloud Application Platform
  • Overview
  • What’s new in ver 1.4?
• Integrating Eclipse IDE
  • Eclipse Tools for Cloud Foundry
• Q&A
Customer needs to innovate faster to stay competitive

Agility accelerates innovation
Modern application development

Enterprises are putting more focus on:

• *Building Applications* for their business
• *Automate and Abstract* away infrastructure as much as possible
Benefits of Containers

Apps + dependencies are defined by developers in code.

Standardized packaging enables Automated Testing, Deployment & Monitoring

Built-in versioning enables Security/Compliance Control.

Easier to Manage Micro-services
Containers Help Enterprises Accelerate IT

Accelerate application development and delivery

Build and deliver new cloud native applications

Modernize legacy applications
Kubernetes is Dominant

- Originally developed by Google and donated to the Cloud Native Computing Foundation (CNCF)
- By far the most popular open source software for orchestrating container usage
- SUSE provides customers with an easy way to deploy and manage Kubernetes on SLES (with SUSE CaaS Platform)
- SUSE Cloud Application Platform includes Kubernetes via SUSE CaaS Platform
Kubernetes is Aimed at Operators, not Developers

SUSE Cloud Application uses the Cloud Foundry Application Runtime to add functionality for developers:

• One step command to containerize, deploy, and manage an application
• Automatically identifies and pulls in language libraries, frameworks, and other dependencies via buildpacks
• Open source service brokers automatically create and bind services to applications
• Automates application lifecycle management by assigning appropriate resources, managing routing, load balancing, scaling, and more
What’s great about Cloud Foundry?
Speed application delivery at scale

Cloud Foundry Foundation Application Runtime User Survey, Oct 2017
Cloud Foundry Foundation: Productivity Improvements

Cloud Foundry Users Save

10 WEEKS

$100,000

on average per application development cycle
SUSE Cloud Application Platform
SUSE Application Delivery Platforms
Support multiple approaches to speed application delivery

Cloud Foundry
Productivity

Kubernetes
Flexibility

SUSE Cloud Application Platform
- Accelerate end-to-end application development and delivery at scale
- Maximize productivity with abstractions, patterns, and full lifecycle automation

SUSE CaaS Platform
- Simplify deployment and management of containers and containerized applications
SUSE Cloud Application Platform

A modern application delivery platform that brings an advanced cloud native developer experience to Kubernetes. SUSE Cloud Application Platform increases business agility by helping enterprises to:

• Boost developer productivity
• Reduce complexity and increase IT efficiency
• Maximize ROI
Boost Developer Productivity

With easy one step deployment of cloud native applications using the language and framework most appropriate for the task.

- One step application deployment
- Develop and deploy software solutions faster than ever before
- Leverage your in-house skills
Reduce Complexity & Increase IT Efficiency

With a single, lean, platform that brings together proven open source technologies for rapid application delivery at scale.

- **Multiple cloud deployment models**
- **Increased efficiency with a lean and fast platform**
- **Easy to install with Helm charts and managed in Kubernetes**
Maximize Return on Investment

With industry leading open source technologies that leverage your existing investments.

- Lower risk by aligning with industry momentum
- Gain the benefits and value of a thriving ecosystem of contributors
- Protect your investment with a rock solid open source core
LEADING THE WAY TO CLOUD FOUNDRY AND KUBERNETES INTEGRATION

SUSE Cloud Application Platform

- Cloud Foundry in Kubernetes
- Containerized Cloud Foundry Application Runtime
- Enterprise Ready
- Kubernetes-native scheduler
SUSE Cloud Application Platform Overview

Enterprise Applications

App AutoScaler
Job Scheduler

Cloud Foundry CLI
Stratos Web UI
CI/CD Plugins

cf api

SUSE Cloud Application Platform

CF API

 pymongo

kubernetes

MySQL

MariaDB

php

NET

.onet

GO

HTML

SUSE OpenStack Cloud

SUSE CaaS Platform

Public Cloud

On Premise

Dev

Ops

Multi-tenancy
Multi-language
Multi-cloud

User Auth

Open Service Brokers

SUSE Cloud Application Platform Overview

Cloud Foundry

CI/CD

Dev

Ops

SUSE Cloud Application Platform Overview

Cloud Foundry

CI/CD

Dev

Ops
SUSE Cloud Application Platform 1.4

SUSE Cloud Application Platform is a modern application delivery platform that brings an advanced cloud native developer experience to Kubernetes.

What’s New:

• **Introduces a 100% Kubernetes native architecture**, including a technology preview of Project Eirini that allows operators to take greater advantage of the widely adopted Kubernetes container scheduler.

• **Increased flexibility for IT operations teams** with support for Google Kubernetes Engine (GKE) in addition to existing support for Amazon EKS, Azure AKS, SUSE CaaS Platform, or as a multi-cloud combination.
Enhanced Multi-cloud Support

Multi-cluster and workload management

- On-prem K8s
- Microsoft AKS
- Amazon EKS
- Google EKS
- Self-managed on public cloud IaaS
- New!
Integration with Eclipse IDE
Eclipse Tools for Cloud Foundry
Eclipse Tools for Cloud Foundry

• Extensible framework
• Common UI to deploy applications to different Cloud Foundry targets
• Closely integrates with Web Tools Platform (WTP) and Eclipse
• Allows Application Scaling and Services Management
  • from the same Eclipse-based IDE where applications are developed
• Debug applications in Cloud Foundry using the built-in Eclipse debugger
  • Very convenient for developers to work on applications running on CF
Demo
Eclipse Tools for Cloud Foundry

This listing installs support into Eclipse Tools for Cloud Foundry, the industry’s first open platform as a service. A Java 8 Execution Environment is required. Run your Spring, Java, and Grails applications. Spring deployment to Cloud Foundry now also includes Spring Boot. Deploy from your IDE or command line. Introducing Cloud Foundry Cloud Foundry is the open platform as a service project by Pivotal. It can support multiple frameworks, multiple cloud providers, and multiple application services all on a cloud scale platform.

- Developer Productivity — Build applications with your choice of high productivity frameworks and application services.
- Open System — Choose your framework, choose your cloud, choose your application services.
- Faster Delivery — Shorten the time it takes to take your application from concept, to code, to the cloud using an open platform as a service.

Categories: Tools

Tags: spring, Cloud, paas, java, java, cloudfoundry

**Additional Details**

Platform Support: Windows, Mac, Linux/GTK
Organization Name: Pivotal, IBM
Date Created: Wed, 2011.08.17 16:58
Development Status: Production/Stable
License: EPL
Date Updated: Mon, 2019-01-21 09:14
Eclipse Tools for Cloud Foundry
Install Eclipse Tools for Cloud Foundry
### Eclipse Tools for Cloud Foundry - Installed

<table>
<thead>
<tr>
<th>Plugin Name</th>
<th>Version</th>
<th>Description</th>
<th>Install Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Tools for Cloud Foundry</td>
<td>1.2.0</td>
<td>This listing installs support into Eclipse Tools for Cloud Foundry, the industry’s first open platform as a service. A Java 8 Execution Environment is required.</td>
<td>Installed</td>
</tr>
<tr>
<td>Google Cloud Tools for Eclipse</td>
<td>1.8.0</td>
<td>Cloud Tools for Eclipse is a Google-sponsored open source plugin that supports the Google Cloud Platform. Cloud Tools for Eclipse enables you to create, import, ... more info</td>
<td>Installed</td>
</tr>
<tr>
<td>Yatta Launcher for Eclipse</td>
<td>1.3.50</td>
<td>Share Your Eclipse Setup With Your Team. The Launcher is a lightweight desktop app and the easiest way to organize your Eclipse setups – for yourself, your team, ... more info</td>
<td>Installed</td>
</tr>
</tbody>
</table>
Configure Cloud Foundry End-point