Cloud Application Development with Eclipse Tools for Cloud Foundry

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Architect:
• IBM Eclipse Tools for Bluemix WebSphere
• Application Developer (WDT) Server Tools

Eclipse open source project lead:
• Eclipse Tools for Cloud Foundry
• Web Tools Platform (WTP) Server Tools
Martin Lippert

@Pivotal:
• Spring Tool Suite
• Spring Boot Tooling

@Eclipse:
• Eclipse Flux, Equinox Weaving
• Cloud Development PMC
• Architecture + Planning Council
“Cloud Foundry (CF) is an open platform as a service (PaaS) that provides a choice of clouds, runtime frameworks, and application services.”

[http://cloudfoundry.org]
Flavors

CenturyLink AppFog
HPE Helion Cloud Foundry
Huawei FusionStage
IBM Bluemix
Pivotal Cloud Foundry
SAP HANA Cloud Platform
Swisscom Application Cloud
deploy, run, and test your projects on Cloud Foundry directly from within Eclipse - no need to work on the CLI

be vendor neutral, like CF itself and provide hooks for specific CF incarnations
Eclipse (including WTP)

Cloud Foundry Tools for Eclipse

Vendor-specific extensions

Pivotal CF Tools

Bluemix Tools

Open source CF tools base
Support useful for any CF environment

Boxes not to scale :-(
Live Demo - Part 1

IBM Eclipse Tools for Bluemix
Live Demo - Part 2

Spring Tool Suite for Pivotal CF and Spring Boot
What is coming up?

👍 CFT is joining the Eclipse Neon Simultaneous Release

✅ CFT 1.0.0 release planned for Neon GA (June 2016)
Get Involved

Get on the mailing list
https://dev.eclipse.org/mailman/listinfo/cft-dev

File a bug
https://bugs.eclipse.org/bugs/enter_bug.cgi?product=CFT

Grab the code
https://github.com/eclipse/cft

Submit a pull request
https://help.github.com/articles/creating-a-pull-request
Thanks

Q&A

And don’t forget to vote for the session

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Evaluate the Sessions

Sign in and vote at eclipsecon.org

-1  0  +1
Appendix
Functions supported by the Tools

• Deploy application projects directly from Eclipse
• See and control the running applications on CF
• Manage services
• Bind and unbind services to applications
• Application scaling
• Debug applications on CF
Connect to the CF server

- You can connect to the CF server of your choice
Deployment

- Deployment is a complicated process, you need to:
  - Right-click on something
  - Select Run > Run on Server
  - That it – just treat it like any server
Deployment Prompts

• You be prompted during deployment to select a name (hostname), # of instances, and memory use
Server Editor

• Server tuning, e.g. number of instances, memory
• Application & instance information
• Bound services
• Environment variables
• Remove unused routes
• Link to Remote System view
Service creation and binding

• Create services and bind them to an application either during application deployment or in the server editor
Remote Systems View

- View what is in the cloud, such as applications deployed, logs, etc.