Cloud DevTools Mission

Define and build an ecosystem of best-in-class open-source Web and Cloud-based development tools; and to promote and drive the broad adoption of these tools.
Agenda

- Q1, Q2 News
- Project Updates
- SIG Updates
- Open Discussion and Q&A
Q1/Q2 News

● > 1600 commits this year enabled the following releases
  ○ Theia: 1.21 - 1.26 (monthly)
  ○ Dirigible: 5.12, 6.0
  ○ JKube: 1.4, 1.5, 1.6, 1.7, 1.8
  ○ GLSP: 0.9, 1.0
  ○ Sprotty: 0.9, 0.10, 0.11, 0.12

● Open VSX Registry: 1904 extensions, 911 publishers

● Cloud IDE Day 2022
  ○ 291 Registrants, 150 live attendees
  ○ 12 sessions: [YouTube Playlist](#)

● We’re in person again at EclipseCon 2022, October 24 - 27
  ○ We intend a Cloud DevTools Community Day concurrent

● Stay tuned for information on TheiaCon 2022 in November

● Cloud Tool Time is back: [YouTube Playlist](#)
  ○ [Sign up to present](#)
WORKING GROUP PROJECTS

The Kubernetes-Native IDE for Developer Teams

Extensible platform to develop IDE-like products

Vendor-neutral alternative to the Visual Studio Marketplace

Also:

Dirigible
EMF.cloud
CDT.cloud
GLSP
JKube
Sprotty
Embedded SIG
Modeling SIG (emerging)
Agenda

- Q1, Q2 News
- Project Updates
- SIG Updates
- Open Discussion and Q&A
WORKING GROUP PROJECTS

Eclipse Che
The Kubernetes-Native IDE for Developer Teams

THEIA
Extensible platform to develop IDE-like products

Open VSX Registry
Vendor-neutral alternative to the Visual Studio Marketplace

Also:

Dirigible
CDT.cloud
GLSP
JKube
Sprotty
Embedded SIG
Modeling SIG (emerging)
Theia and Theia Blueprint

- **Noteworthy Features:**
  - Toolbar
  - Playwright support
  - Performance File API

- **Community Updates:**
  - Documentation
  - Community Release
  - Regular Release Blogs
  - **Next generation of Eclipse!**

- **Upcoming:**
  - Detachable Windows
  - Semantic versioning for core API
WORKING GROUP PROJECTS

Eclipse Che
The Kubernetes-Native IDE for Developer Teams

THEIA
Extensible platform to develop IDE-like products

Open VSX Registry
Vendor-neutral alternative to the Visual Studio Marketplace

Also:

Dirigible
EMF.cloud
CDT.cloud
GLSP
JKube
Sprotty
Embedded SIG
Modeling SIG (emerging)

Philip Langer
Philip Langer
- Model Server
  - V2 Endpoint: Removes leaking of EMF jargon, ...

- Model Server Node
  - Node-based Model Server, ...

- Theia Tree Editor, Theia Property View with JSON Forms, ...
  - Improvements and updates (Theia, etc.)

- Community
  - Very active discussions forum
  - Many new adopters and contributors
- Several new and updated components
  - CDT GDB Debug Adapter
  - CDT Amalgamator
  - TraceCompass.cloud
  - Clangd Contexts
  - ...

- CDT.cloud Blueprint
  - Builds and downloads
  - Welcome page
  - Example project generator
  - ...
• 1.0 release approved and left incubation phase
  ○ Stabilized APIs
  ○ Extensive documentation
  ○ Node-based GLSP Server Framework
  ○ Project templates
    ■ Theia + EMF + Java
    ■ Theia + JSON + Node
    ■ VS Code + JSON + Node
    ■ ...
  ○ ... (several features and fixes)

• Many new adopters and contributors
WORKING GROUP PROJECTS

- **Eclipse Che**: The Kubernetes-Native IDE for Developer Teams
- **THEIA**: Extensible platform to develop IDE-like products
- **Open VSX Registry**: Vendor-neutral alternative to the Visual Studio Marketplace

- **dirigible**: Dirigible
- **emf.**: EMF.cloud
- **cdt.**: CDT.cloud
- **Cloud**: GLSP
- **JKube**: JKube

Also:
- **Sprotty**: Embedded SIG
- **Embedded SIG**: Modeling SIG (emerging)

Aart van Baren
OPEN VSX REGISTRY

● Current Release
  ○ Pre-release
  ○ Target platform
  ○ resourceUrlTemplate

● Next Release
  ○ Upstream: /vscode & proxying
  ○ Publish through WebUI
  ○ /api/-/query performance

● Upcoming
  ○ Admin change namespace
  ○ Fix Open VSX vulnerabilities

● Community
  ○ More issue & PR contributors
WORKING GROUP PROJECTS

Eclipse Che

The Kubernetes-Native IDE for Developer Teams

THEIA

Extensible platform to develop IDE-like products

Open VSX Registry

Vendor-neutral alternative to the Visual Studio Marketplace

Also:

Dirigible

EMF.cloud

CDT.cloud

GLSP

JKube

Sprotty

Embedded SIG

Modeling SIG (emerging)
Noteworthy Features:

○ Switch to the DevWorkspace Operator as workspace engine
○ Pair programming
○ Decommissioning Keycloak
○ UX / Admin Improvements (configuration of the notification header, Default URL prefix - eclipse-che.<cluster-domain> )
Community Updates:

- New Website - https://www.eclipse.org/che/
- Eclipse Che Blog - https://che.eclipseprojects.io/
- Newsletter - Eclipse Che Gets a New Dev Environments Engine -
  https://newsroom.eclipse.org/eclipse-newsletter/2022/may/eclipse-che-
  gets-new-dev-environments-engine
Upcoming:

- Git zero config with OAuth flow [#20583]
- Better ‘Getting Started’ experience (repos without devfiles) [#21340]
- Building container images [#20227]
- Addressing technical debt
  - Archiving obsolete repositories
  - Decommissioning PostgreSQL database [#21374]
WORKING GROUP PROJECTS

Eclipse Che
The Kubernetes-Native IDE for Developer Teams

THEIA
Extensible platform to develop IDE-like products

Open VSX Registry
Vendor-neutral alternative to the Visual Studio Marketplace

dirigible
EMF.cloud
CDT.cloud
GLSP
JKube

Also:
Sprotty
Embedded SIG
Modeling SIG (emerging)

Jordan Pavlov
Eclipse Dirigible

- News & Updates:
  - New Look & Feel
  - ECMAScript Modules Support
  - Monorepo Projects Support
  - Git Enhancements

- Next:
  - TypeScript Support
  - Debugger Enhancements
  - Eclipse Dirigible 7.0

- Community:
  - [xsk.io](https://xsk.io)
  - [dirigible.io/help](https://dirigible.io/help)
  - [dirigible.io/blogs](https://dirigible.io/blogs)
  - [dirigible.io/releases](https://dirigible.io/releases)
  - [dirigible.io/samples](https://dirigible.io/samples)
  - [youtube.com/c/dirigibleio](https://youtube.com/c/dirigibleio)
WORKING GROUP PROJECTS

Eclipse Che
The Kubernetes-Native IDE for Developer Teams

THEIA
Extensible platform to develop IDE-like products

Open VSX Registry
Vendor-neutral alternative to the Visual Studio Marketplace

dirigible
EMF.cloud
Dirigible

EMF.cloud
Embedded SIG

CDT.cloud
Modeling SIG (emerging)

GLSP

JKube
Sun Tan Rohan Kumar

Also:
Sprotty

Also: Sprotty

Sprotty
EMF.cloud
CDT.cloud
GLSP

EMF.cloud
CDT.cloud
GLSP
Eclipse JKube

- Noteworthy Features:
  - Gradle plugins graduation (1.8 release)
  - M1 support
  - Fragment resources from multiple environment
  - Tomcat 10 compatibility (JakartaEE)
  - JDK 17 support
  - Helm improvements
Eclipse JKube

- Community Updates:
  - Featured by Gradle
    - Gradle Feb 2022 Newsletter
    - Linkedin
  - GSoC 3 students
  - Talk
    - “Move your Java to Kubernetes” at Java2Days
    - workshop at Valencia JUG
WORKING GROUP PROJECTS

Eclipse Che
The Kubernetes-Native IDE for Developer Teams

THEIA
Extensible platform to develop IDE-like products

Open VSX Registry
Vendor-neutral alternative to the Visual Studio Marketplace

Dirigible
EMF.cloud
CDT.cloud
GLSP
JKube

Also:
Sprotty
Embedded SIG
Miro
Spönemann

Embedded SIG
Modeling SIG (emerging)
Eclipse Sprotty

Graduation release 1.0

- No target date yet, but we’ll get there 😊

sprotty-protocol package

- Common TypeScript code for frontend and backend
- Generate diagrams from Node.js backends
  - Web servers (via websocket)
  - Theia extensions (via JSON-RPC protocol)
  - VS Code extensions (via webview message passing)
  - Language servers (using Langium – [langium.org](http://langium.org))

New logo
Agenda

- Q1, Q2 News
- Project Updates
- SIG Updates
- Open Discussion and Q&A
WORKING GROUP PROJECTS

Eclipse Che

The Kubernetes-Native IDE for Developer Teams

THEIA

Extensible platform to develop IDE-like products

Open VSX Registry

Vendor-neutral alternative to the Visual Studio Marketplace

dirigible

EMF.cloud

CDT.cloud

GLSP

JKube

Also:

Sprotty

Embedded SIG

Rob Moran

Sprotty

Modeling SIG (emerging)
Embedded SIG

- Background
  - Running since April 2021
  - Monthly calls, well attended
- Core representation from
  - Arm, EclipseSource, Ericsson, Renesas, ST
- Interest from other companies in the sector
- Focus
  - Discussing trends and needs around the Theia framework and VS Code
  - Collaboration on initiatives which feed into related projects (e.g. CDT.Cloud)
Embedded SIG

● Previous Initiatives (wins!)
  ○ Support for multiple windows (into Eclipse Theia)
  ○ Support for multiple clangd contexts (into Eclipse Theia and CDT.Cloud)
  ○ Debugging heterogeneous systems - amalgamator (into CDT.Cloud)
  ○ CDT GDB Adapter (into CDT.Cloud)
  ○ Trace Compass (into CDT.Cloud)
  ○ CDT.Cloud Blueprint
  ○ Standalone SVD Viewer extension

● Current Initiatives
  ○ Deploying binaries across cloud-connected devices (EclipseSource)
  ○ Tracking VS Code support of embedded development, Web devices and debug extensions (Arm)
WORKING GROUP PROJECTS

- **Eclipse Che**
  The Kubernetes-Native IDE for Developer Teams

- **THEIA**
  Extensible platform to develop IDE-like products

- **Open VSX Registry**
  Vendor-neutral alternative to the Visual Studio Marketplace

- **dirigible**
  Dirigible

- **EMF.cloud**
  EMF.cloud

- **CDT.cloud**
  CDT.cloud

- **GLSP**
  GLSP

- **JKube**
  JKube

- **Sprotty**
  Also: Sprotty

- **Embedded SIG**
  Embedded SIG

- **Modeling SIG (emerging)**
  Modeling SIG (emerging)

- **Mélanie Bats**

COPYRIGHT (C) 2022, ECLIPSE FOUNDATION | MADE AVAILABLE UNDER THE ECLIPSE PUBLIC LICENSE 2.0 (EPL-2.0)
Modeling SIG (emerging)

- Create a dedicated **community around web modeling**
  - Discuss with the modeling community actors about the future of modeling
  - Ease contributions/involvements
  - Share and aggregate roadmaps, communicate over a common roadmap
- Develop a set of **common and integrated components**
  - Align technological dependencies/frameworks
  - Align practices to version/distribute components
- Show and **Promote web modeling technologies**
Sirius Web

- Make your engineers more **efficient** with **domain specific graphical tools** thanks to Sirius Web
- Same **spirit** as the well established technology Eclipse Sirius
- Very **active project**: a new release each 8 weeks
- Classical web stack: Spring, React, JS
- Provides a standard **ready-to-use application**,
- Provides **reusable components** to integrate in an existing one or in a Cloud IDE (VS Code, Theia)
Modeling SIG (emerging)

Need more details? Interested? Join us?

Contact :

melanie.bats@obeo.fr
Agenda

- Q1, Q2 News
- Project Updates
- SIG Updates
- Open Discussion and Q&A
THANK YOU!