

An Intro to Eclipse Che

Next-Generation Eclipse IDE & Open Source Alternative to IntelliJ

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The Application Trinity

Develop Apps

issue mgmt

source code repo

agile

ide



workspace

Deliver Apps

check out & build code

unit test

quality control

package & archiving

integration testing

deploy to test environment

deploy to pre-production

acceptance testing

deploy to production

continuous integration

packaging & build tools

code quality analysis

testing frameworks

artifact repository

release mgmt

100 firms including Atlassian, JetBrains, Puppet, Chef, Ansible, ZeroTurnaround, IBM, Electric Cloud, Coverity, Sonatype, JFrog, and so on...

Host Apps

test

pre-production

production



Big Hairy Audacious Goal

Let anyone contribute to any project anywhere at any time.

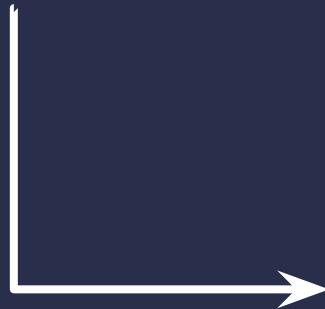
no pre-installation required

ready to participate in any branch flow

always compiles and runs

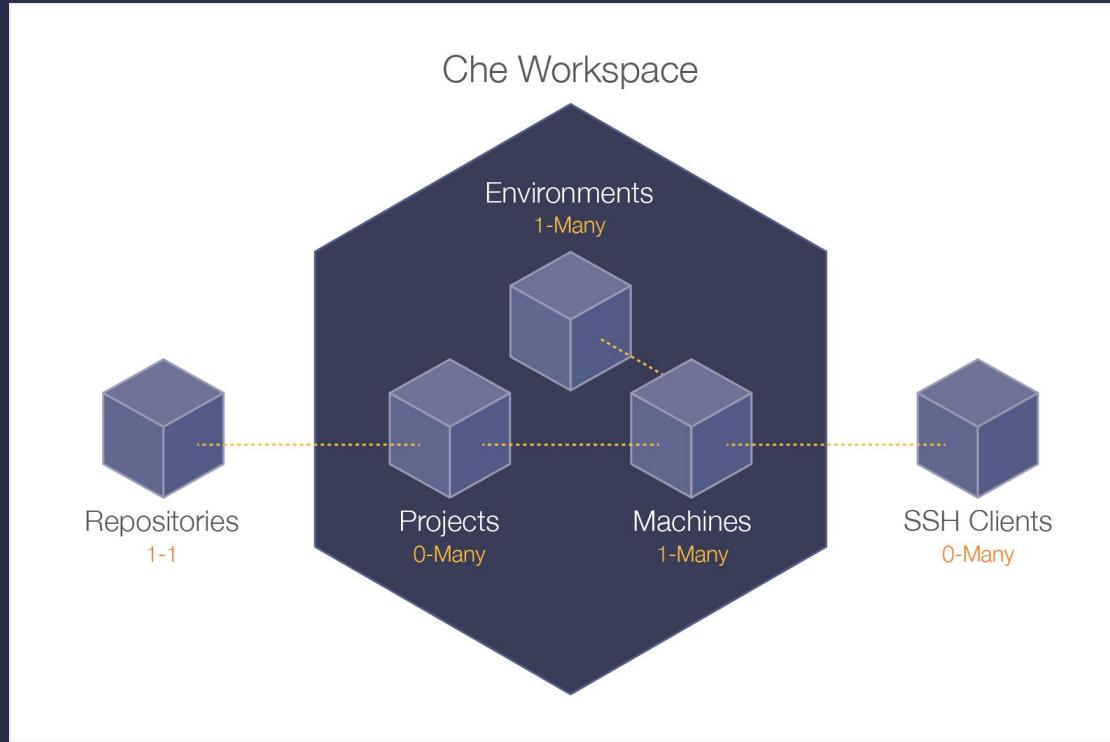
How

http://someurl/factory?id=a_project



1. Create new, or load existing, workspace
2. Populate workspace with projects
3. Fetch source
4. Inject tools (compiler, ssh, intellisense)
5. Create runtime
6. Onboard developer into workspace

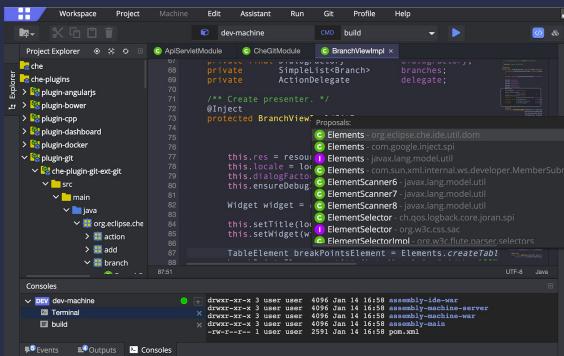
A New Workspace Is Needed



Eclipse Che - Next Generation Eclipse IDE



Che: IDE + Workspace Server + Plug-Ins



Cloud IDE

A no-installation browser IDE and IOE accessible from any local or remote device. Thin, fast, and beautiful - it's the IDE our own engineers wanted.

A screenshot of the Eclipse Che Swagger API documentation. The page title is 'swagger' and the URL is 'http://localhost:8080/api/docs/swagger.json'. It shows a list of API endpoints categorized by workspace, such as auth, profile, ssh, user, and workspace. Each endpoint has a detailed description, parameters, and examples. For example, the 'workspace' section includes endpoints for listing workspaces, creating a new workspace, getting a workspace by name, starting a runtime workspace, and getting a workspace by ID.

Collaborative WS Server

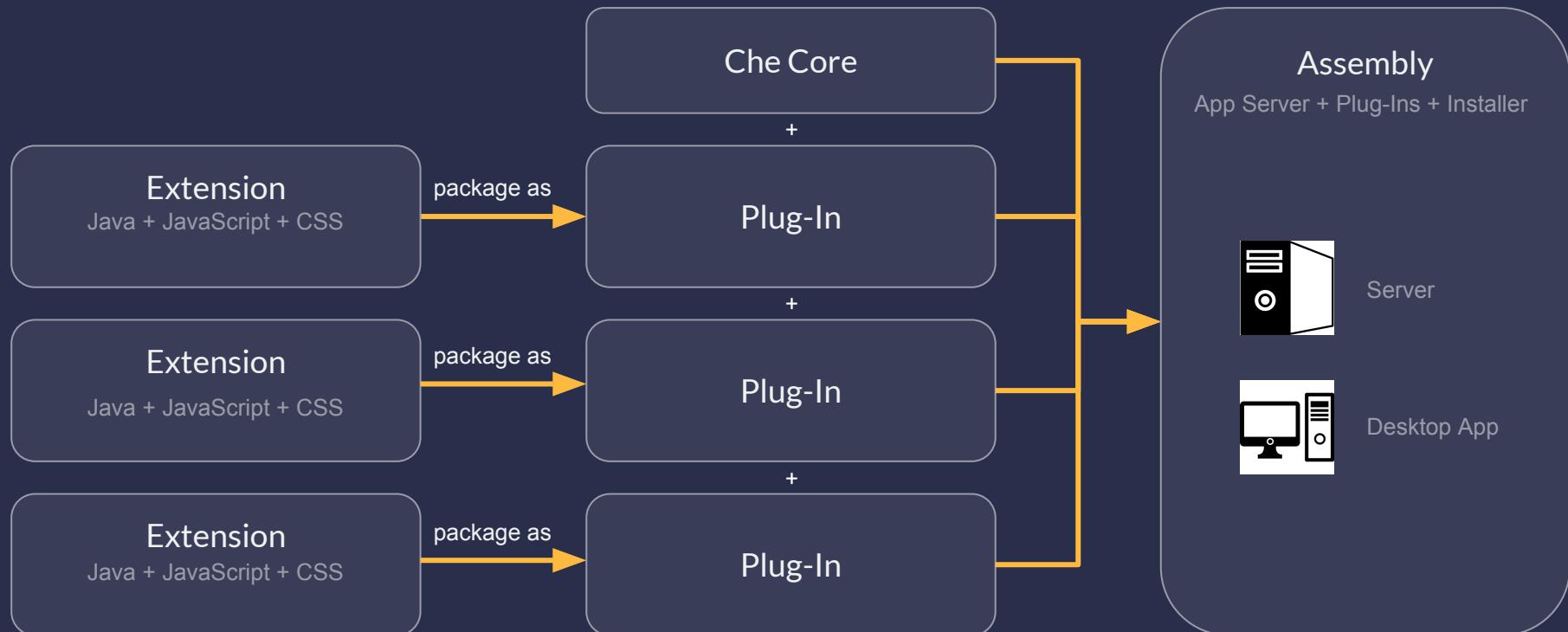
Host Eclipse Che as a workspace server. Share tools, runtime and programming services across workspaces and teams. Control workspaces and projects with REST APIs.

A screenshot of the Eclipse Che 'New Project' and 'Configurable Workspace' interfaces. The 'New Project' interface shows a 'NEW PROJECT' dropdown with options like SOURCE, STACK, WORKSPACE, TEMPLATE, and METADATA, with 'WORKSPACE' selected. It includes sections for 'Select Source' (New from blank, template, or sample project) and 'Select Stack' (READY TO GO STACKS: Java, Node.js, Go, .NET, PHP, etc.). The 'Configurable Workspace' interface shows a 'Configure Workspace' dialog with fields for 'Name' (ws-mpd), 'RAM' (1GB), and 'DISK' (100GB).

Plug-In Framework

Che includes a growing set of plug-ins. You can also create and package your own.

Eclipse Che Extensibility



Getting Started with Che

Source: github.com/codenvy/che

Developer Mailing List: che-dev@eclipse.org

Issue: github.com/codenvy/che

IRC: [#eclipseche](#) (routes to slack)

Che Extension

[plugin-angularjs/core/client/src/main/java/com/codenvy/plugin/angularjs/core/client/](#)

```
@Singleton  
@Extension(title = "AngularJS")  
public class AngularJsExtension extends JsExtension {  
    @Inject  
    public AngularJsExtension(IconRegistry iconRegistry, AngularJSResources resources) {  
        super(Const.ANGULAR_JS_ID, iconRegistry, resources);  
    }  
}
```

[plugin-angularjs/core/server/src/main/java/com/codenvy/plugin/angularjs/core/server/project/type](#)

```
@Singleton  
public class AngularJSProjectType extends ProjectType {  
    public AngularJSProjectType() {  
        super("AngularJS", "AngularJS Project", true, false);  
        setDefaultRunner("system:/javascript/webapp/grunt");  
        addRunnerCategories(Arrays.asList(RunnerCategory.JAVASCRIPT.toString()));  
    }  
}
```

Promotions!

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Eclipse Che

www.eclipse.org/che
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