

# Eclipse Che on K8S

Manage projects and distributed teams with open source in-browser IDE

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# Agenda

- What is Eclipse Che
- Architecture
- Integrations with K8S
- Runtimes and Workspaces
- Factory
- Demo

# **Eclipse Che**

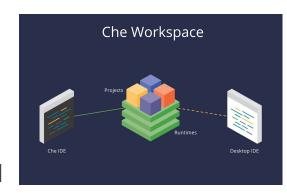
# The Kubernetes-Native IDE for

# Developer Teams



#### **Eclipse Che**

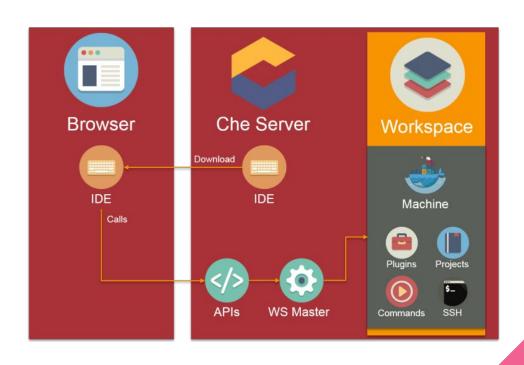
- In-Browser IDE
- Containerized extendible Workspaces
- Support most used Runtimes and Framework (and more!)
- Support Eclipse Theia for Visual Studio Code look'n'feel
- Support for Multi-tenancy
- Open Source



# Eclipse Che



# **Eclipse Che Architecture**



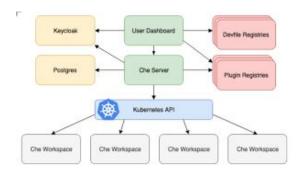
# Integrations with K8S

- Helm charts
  - You can use chectl to install on any k8s
- Operator
  - Available from OperatorHub.io
- Minikube addon
  - minikube addons enable olm



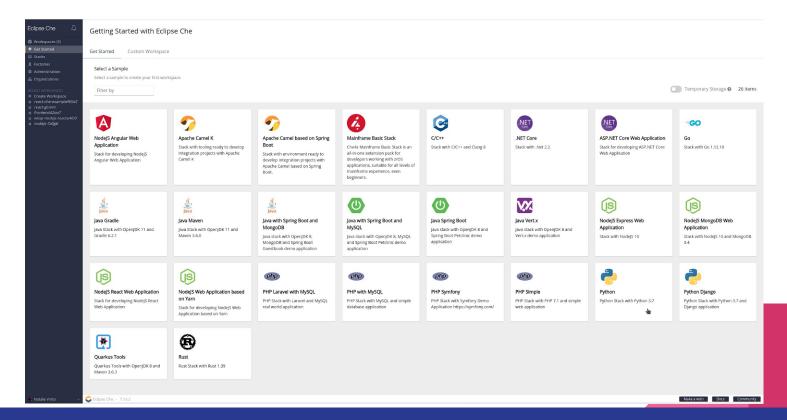
# Integrations with K8S

- Persistence (PVC)
- Multi-tenancy (Keycloack SSO)
- Custom Resource

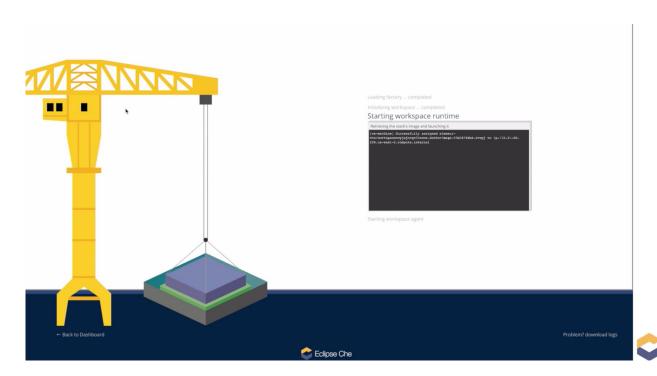




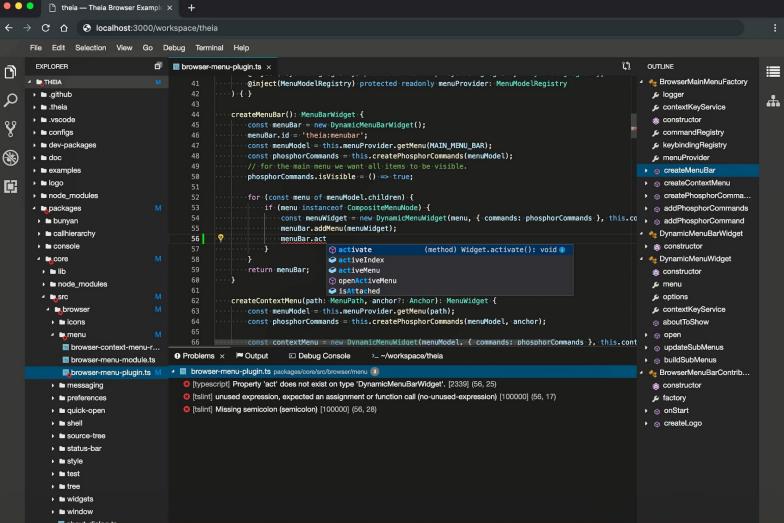
#### **Runtimes and Workspaces**



### Factory & Devfile



- Create Workspaces from devfile
- Devfile is a YAML containing description of Workspace
- Easy to extend
- Fork and Click Developer Workspace



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#### Demo

- Installation on Minikube
- Using and Extending React Workspace
- Test into a workspace with auto generated ingress to access app
- Push changes to Github, triggering Quay.io image build and use K8S resource for deployment of the app on Minikube cluster

https://github.com/blues-man/eclipse-che-minikube-demo

# Thank you!

- Visit OperatorHub.io
- Get more about Eclipse Che and CodeReady Workspaces at learn.openshift.com