

Jenkins - Continuous Integration i nie tylko



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Starszy Inżynier ds. oprogramowania

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Agenda

O nas

Cel szkolenia, warsztatów

Jenkins a co to?

Uruchomienie, instalacja

Administracja and Security

Manage Nodes

Jenkins CLI and remote access

Groovy - Script console (Jenkins API)

REST API: Json and Xml

Views and Dashboard

Jobs

Jenkins integration

Plugins

Pytania

O nas

O mnie

Programuje w Javie od 10 lat

Jenkinsem zajmuje się od ~ 8 lat

Sygnity, Sii (Sabre)

Opiekun plugina git-parameter^a

^a<https://github.com/jenkinsci/git-parameter-plugin>

O Was

Każdy po kilka słów

Cel szkolenia, warsztatów

Cel !

Zdobycie wiedzy praktycznej z Jenkinsa

Wdrożenie i zarządzanie Jenkinsem jak i "Jobami"

Jenkins a co to¹

Elevator Pitch

Jenkins is an open source automation server which enables developers around the world to reliably build, test, and deploy their software.

Blurb

Jenkins, originally founded in 2006 as "Hudson", is one of the leading automation servers available. Using an extensible, plugin-based architecture developers have created hundreds of plugins to adapt Jenkins to a multitude of build, test, and deployment automation workloads. In 2015, Jenkins surpassed 100,000 known installations making it the most widely deployed automation server.

¹<https://jenkins.io/press/>

Jenkins kto za tym wszystkim stoi

Kohsuke Kawaguchi



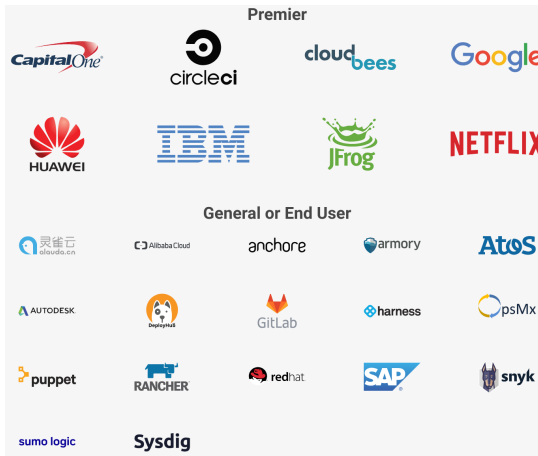
Links

- ▶ <https://jenkins.io>
- ▶ <https://groups.google.com/forum/#!forum/jenkinsci-dev>
- ▶ <https://issues.jenkins-ci.org/>
- ▶ <https://wiki.jenkins-ci.org/display/JENKINS/Home>
- ▶ <https://stats.jenkins.io/>

cloudbees.



Jenkins kto teraz za tym stoi - A New Home for Jenkins!



Początki bywają trudne



Uruchomienie, instalacja

- ▶ repository
- ▶ docker
- ▶ war

- ▶ catalog structure
- ▶ https
- ▶ http2

Administracja vel Manage Jenkins

- ▶ About Jenkins
- ▶ System Information
- ▶ Manage Old Data
- ▶ Reload Configuration from Disk
- ▶ Load statistics
- ▶ System Log
- ▶ Manage Plugins
- ▶ System
- ▶ Global Tool Configuration
- ▶ History and Backups
- ▶ Configure system
- ▶ ...

Security

- ▶ Jenkins users
- ▶ LDAP
- ▶ Matrix-based security
- ▶ Project-based Matrix Authorization Strategy

LDAP

LDAP

Server

Server

root DN

User search base

User search filter

Group search base

Group search filter

Group membership

☒ Parse user attribute for list of LDAP groups

Group membership attribute

Manager DN

Manager Password

Display Name LDAP attribute

Email Address LDAP attribute

Environment Properties

Name

Value

Add

Delete

Ignore if Unavailable

☒

Manage Nodes

Jenkins CLI and remote access

Groovy - Script console (Jenkins API)

Javadoc

<https://javadoc.jenkins.io/>

REST API: Json and Xml

Views and Dashboard

- Build Monitor View

Jobs

- ▶ Freestyle project
- ▶ Maven project
- ▶ Pipeline
- ▶ Multibranch Pipeline

Jenkins integration

- ▶ git
- ▶ Bitbucket
- ▶ *Sonar*
- ▶ Email
- ▶ *Slack*
- ▶ Docker
- ▶ *JIRA*

Plugins

- ▶ Hallo World
- ▶ Need Beer
- ▶ Calculator

Pytania

Pytania?

Dziękuję!