

Jędrzej Andrykowski



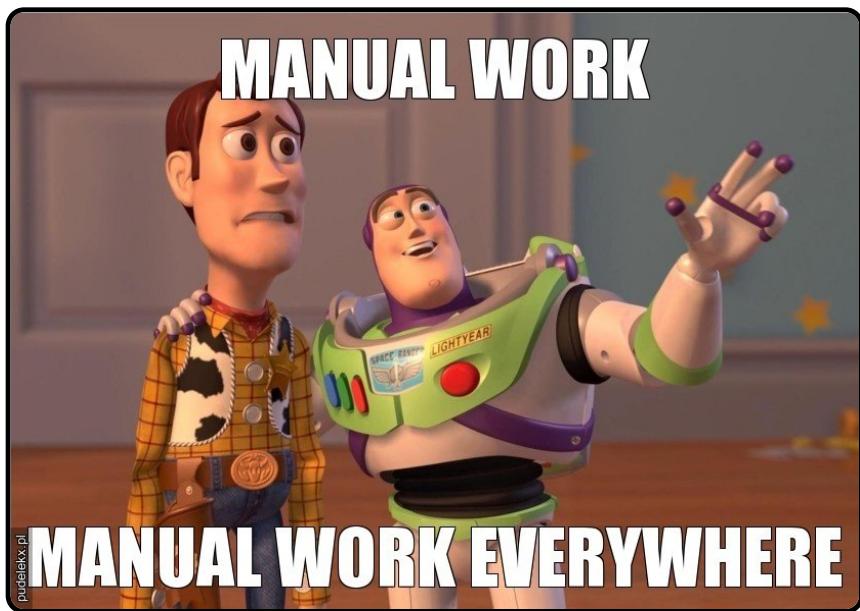
```
FROM openjdk:8-jdk-stretch RUN apt-get update && apt-get install -y git curl && rm -rf /var/lib/apt/lists/* ARG user=jenkins ARG group=jenkins ARG uid=1000 ARG gid=1000 ARG http_port=8080 ARG agent_port=50000 ARG JENKINS_HOME=/var/jenkins_home ENV JENKINS_HOME $JENKINS_HOME ENV JENKINS_SLAVE_AGENT_PORT ${agent_port} RUN mkdir -p $JENKINS_HOME \&& chown ${uid}:${gid} $JENKINS_HOME \&& groupadd -g ${gid} ${group} \&& useradd -d "$JENKINS_HOME" -u ${uid} -g ${gid} -m -s /bin/bash ${user} VOLUME $JENKINS_HOME RUN mkdir -p /usr/share/jenkins/ref/init.groovy.d ARG TINI_VERSION=v0.16.1 COPY tini_pub.gpg ${JENKINS_HOME}/tini_pub.gpg RUN curl -fsSL https://github.com/krallin/tini/releases/download/${TINI_VERSION}/tini-static-$dpkg --print-architecture)o /sbin/chmod +NS_VERSIic/org/jar \&&tts://uME" /usrY_jenkin"/usr/lretch RU G http_pmkdir -s /bin) /tini_p\ && cu gpg --nCOPY iniARG JENKn/jenkinNS_SHA}s.io/exp/s/ref EXr/local/ins.sh"]ate &&aagent_poME \ &&VOLUMErl -fsSLs:/githt ${JENK/n/snare/j5b81a392NS_VERSIjenkins/jJENKINSort} EXPupport C.sh /usrl -y gitJENKINS-$(gid) $RUN mkdub.com/kn/tini/r i_pub.gpit.groov9e37df5far-${JENsha256sREPO MIort} ENVh /usr/lugins.sh curl install-plugins.sh /usr/local/bin/install-plugins.sh RUN openjdk:8-jdk-stretch RUN apt-get update && apt-get install -y git curl && rm -rf /var/lib/apt/lists/* ARG user=jenkins ARG group=jenkins ARG uid=1000 ARG gid=1000 ARG http_port=8080 ARG agent_port=50000 ARG JENKINS_HOME=/var/jenkins_home ENV JENKINS_HOME $JENKINS_HOME ENV JENKINS_SLAVE_AGENT_PORT ${agent_port} RUN mkdir -p $JENKINS_HOME \&& chown ${uid}:${gid} $JENKINS_HOME \&& groupadd -g ${gid} ${group} \&& useradd -d "$JENKINS_HOME" -u ${uid} -g ${gid} -m -s /bin/bash ${user} VOLUME $JENKINS_HOME RUN mkdir -p /usr/share/jenkins/ref/init.groovy.d ARG TINI_VERSION=v0.16.1 COPY tini_pub.gpg ${JENKINS_HOME}/tini_pub.gpg RUN curl -fsSL https://github.com/krallin/tini/r)e).asc -upg \ &&$JENKIorg/publenkins.wMENTAL-hJENKINS HOser} COP", "-.",8-jdk-st=1000 ARport} RUN(gid) -mINS_HOMEbin/tiniasc \ &&in/tini.121.1}s-ci/mal"${JENKI.s.jenkin/e/jenkinport /usbin/jenk-get upd080 ARGWJENKINS HO$user}g RUN cuSLSHTTP---imporoy /usrHA=50007/${JENKI/share/jntal ENV${http_penkins-spluginsinstal900 ARG$uid}:INS HOME${:/githm/krallOME}/tin${ref/in4e96004enkins-ws.war" |EMENTALS{agent penkins.sL/bin/pl
```



Jędrzej Andrykowski

€ \$ cinkciarz.pl

Jak to najczęściej jest?





1 Setup Jenkins Instalacja

jenkins.io/doc/book/installing

Linux

Debian/Ubuntu

On Debian-based distributions, such as Ubuntu, you can install Jenkins through [apt](#).

Recent versions are available in [an apt repository](#). Older but stable LTS versions are in [this apt repository](#).

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
sudo apt-get update
sudo apt-get install jenkins
```

This package installation will:

- Setup Jenkins as a daemon launched on start. See [/etc/init.d/jenkins](#) for more details.
- Create a 'jenkins' user to run this service.
- Direct console log output to the file [/var/log/jenkins/jenkins.log](#). Check this file if you are troubleshooting Jenkins.
- Populate [/etc/default/jenkins](#) with configuration parameters for the launch, e.g [JENKINS_HOME](#)
- Set Jenkins to listen on port 8080. Access this port with your browser to start configuration.



If your [/etc/init.d/jenkins](#) file fails to start Jenkins, edit the [/etc/default/jenkins](#) to replace the line `-----
HTTP_PORT=8080-----` with `-----HTTP_PORT=8081-----`. Here, "8081" was chosen but you can put another port available.



2 Setup Jenkins Post-Instalacja

Zaczynamy

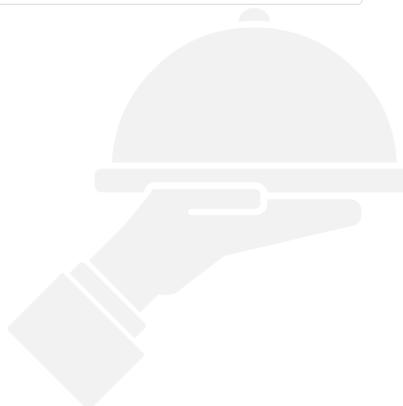
Odblokuj Jenkinsa

Aby zapewnić, że Jenkins jest bezpiecznie uruchomiony przez administratora, hasło zostało zapisane do pliku logów ([nie masz pewności, gdzie go znaleźć?](#)) oraz w pliku na serwerze:

`/var/lib/jenkins/secrets/initialAdminPassword`

Skopiuj hasło z jednej z powyższych lokalizacji i wklej poniżej.

Hasło administratorskie:



Kontynuuj

Zaczynamy



Dostosuj Jenkinsa

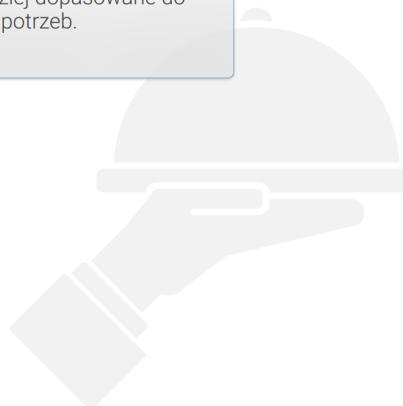
Wtyczki rozszerzające Jenkinsa o dodatkowe funkcjonalności, które zaspokają wiele potrzeb.

Zainstaluj sugerowane wtyczki

Zainstaluj wtyczki, które społeczność Jenkinsa uznała za najbardziej przydatne.

Wybierz wtyczki do instalacji

Wybierz i zainstaluj wtyczki najbardziej dopasowane do Twoich potrzeb.



Jenkins 2.150.3

Instalacja wybranych wtyczek

Wszystkie | Żadne | Rekomendowane Wybrane (20/57)

Zauważ, że poniżej nie jest wyświetlana pełna lista wtyczek. Dodatkowe wtyczki mogą być pobrane przez Menedżera wtyczek, kiedy konfiguracja Jenkinsa zostanie zakończona. Sprawdź więcej informacji na Wiki.

Organization and Administration (2/3)

Dashboard View ↗ 10 ↙ Customizable dashboard that can present various views of job information.

Folders ↗ 10 ↙ This plugin allows users to create "folders" to organize jobs. Users can define custom taxonomies (like by project type, organization type etc). Folders are nestable and you can define views within folders. Maintained by CloudBees, Inc.

OWASP Markup Formatter ↗ 9 ↙ Uses the OWASP Java HTML Sanitizer to allow safe-seeming HTML markup to be entered in project descriptions and the like.

Build Features (4/10)

Build Name Setter ↗ 11 ↙ This plug-in sets the display name of a build to something other than #1, #2, #3, ...

Build Timeout ↗ 7 ↙ This plugin allows builds to be automatically terminated after the specified amount of time has elapsed.

Config File Provider ↗ 9 ↙ Ability to provide configuration files (e.g. settings.xml for maven, XML, groovy, custom files,...) loaded through the UI which will be copied to the job workspace.

Credentials Binding ↗ 9 ↙ Allows credentials to be bound to environment variables for use from miscellaneous build steps.

embeddable-build-status ↗ 4 ↙ This plugin adds the embeddable build status badge to Jenkins so that you can easily hyperlink/show your build status from elsewhere.

Jenkins 2.150.3 Wróć Instaluj

Instalacja wtyczek

Instalacja wtyczek

<input checked="" type="checkbox"/> Folders	<input checked="" type="checkbox"/> OWASP Markup Formatter	<input checked="" type="checkbox"/> Build Timeout	<input checked="" type="checkbox"/> Credentials Binding	Folders
<input checked="" type="checkbox"/> Timestamper	<input checked="" type="checkbox"/> Workspace Cleanup	<input checked="" type="checkbox"/> Ant	<input checked="" type="checkbox"/> Gradle	** JDK Tool ** Script Security ** Command Agent Launcher ** Structs ** Pipeline: Step API ** bouncycastle API ** SCM API ** Pipeline: API ** JUnit OWASP Markup Formatter ** Token Macro Build Timeout ** Credentials
<input checked="" type="checkbox"/> Pipeline	<input checked="" type="checkbox"/> GitHub Branch Source	<input checked="" type="checkbox"/> Pipeline: GitHub Groovy Libraries	<input checked="" type="checkbox"/> Pipeline: Stage View	
<input checked="" type="checkbox"/> Git	<input checked="" type="checkbox"/> Subversion	<input checked="" type="checkbox"/> SSH Slaves	<input checked="" type="checkbox"/> Matrix Authorization Strategy	
<input checked="" type="checkbox"/> PAM Authentication	<input checked="" type="checkbox"/> LDAP	<input checked="" type="checkbox"/> Email Extension	<input checked="" type="checkbox"/> Mailer	

** - zależności wymagane

Jenkins 2.150.3

Dodawanie pierwszego użytkownika

Stwórz pierwszego administratora

Login:	<input type="text" value="foo"/>
Hasło:	<input type="password" value="*****"/>
Powtóż hasło:	<input type="password" value="*****"/>
Pełna nazwa:	<input type="text" value="Foo Bar"/>
Adres e-mail:	<input type="text" value="foo@bar.com"/>

Jenkins 2.150.3

Kontynuuj jako administrator

Zapisz i zakończ

Dodawanie pierwszego użytkownika

Instance Configuration

Jenkins URL:

<https://my-host.pl>

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Jenkins 2.150.3

Not now

Save and Finish

Instalacja zakończona

Jenkins jest gotowy!

Konfiguracja Jenkinsa została zakończona.

[Zacznij korzystać z Jenkinsa](#)

Jenkins 2.150.3

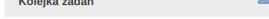
Instalacja zakończona

Jenkins

Nowy Projekt Użytkownicy Historia zadań Zarządzaj Jenkinsem Moje widoki Lockable Resources Credentials New View

Witamy w Jenkinsie!

Utwórz [nowe zadanie](#), aby rozpocząć pracę.

 Nie ma zadań w kolejce

 1 Bezczyyny
2 Bezczyyny

Jenkins 2.150.3



3 Setup Jenkins Konfiguracja

Jenkins

Szukaj... Foo Bar | Wyloguj WŁĄCZ AUTOMATYCZNE ODŚWIĘŻANIE

Zarządzaj Jenkinsem

Nowy Projekt
 Użytkownicy
 Historia zadań
 Zarządzaj Jenkinsem
 Moje widoki
 Lockable Resources
 Credentials
 New View

Kolejka zadań
Nie ma zadań w kolejce

Status wykonawców zadań
1 Bezczytny
2 Bezczytny

Skonfiguruj system
Konfiguruj ustawienia globalne i ścieżki.

Konfiguruj ustawienia bezpieczeństwa
Zabezpiecz Jenkinsa: decyduj, kto ma do niego dostęp.

Configure Credentials
Configure the credential providers and types

Globalne narzędzia do konfiguracji
Konfiguruj narzędzia, ścieżki do nich i automatyczne instalatory

Odczytaj ponownie konfigurację z dysku
Porzuć wszystkie dane załadowane w pamięci i załaduj wszystko z systemu plików. Opcja użyteczna gdy zmodyfikowano pliki konfiguracyjne bezpośrednio z dysku.

Zarządzaj wtyczkami
Dodaj, usuń, włącz lub włącz wtyczki które mogą rozszerzyć funkcjonalność Jenkinsa.

Informacje o systemie
Wyświetla wiele środowiskowych informacji pomocnych przy rozwiązywaniu problemów.

Dziennik systemowy
Dziennik systemowy gromadzi wywoływanie `java.util.logging` powiązane z Jenkinsem.

Statystyki obciążenia
Sprawdź obciążenie zasobów systemowych i dowiedz się, czy nie potrzebujesz więcej maszyn do uruchamiania zadań.

Wiersz poleceń Jenkina
Zarządzaj Jenkinsem poziomu z wiersza poleceń lub systemu.

Konsola skryptów
Wykonuje dowolny skrypt pomocny do celów administracyjnych, usuwania usterek i diagnostyki.

Jenkins

Szukaj... Foo Bar | Wyloguj

Jenkins > konfiguracja

Katalog domowy /var/lib/jenkins

Nowy Projekt

Użytkownicy

Historia zadań

Zarządzaj Jenkinsem

Moje widoki

Lockable Resources

Credentials

New View

Kolejka zadań Nie ma zadań w kolejce

Status wykonawców zadań 1 Bezczytny
2 Bezczytny

of executors 2

Labels

Plan wykorzystania Wykorzystuj ten węzeł tak bardzo, jak to tylko możliwe

Quiet period 5

SCM checkout retry count 0

Restrict project naming

Global properties

- Disable deferred wipeout on this node
- Lokalizacja narzędzi
- Zmienne środowiskowe

Pipeline Speed/Durability Settings

Pipeline Default Speed/Durability Level None: use pipeline default (MAX_SURVIVABILITY)

Usage Statistics

Help make Jenkins better by sending anonymous usage statistics and crash reports to the Jenkins project.

Timestamper

System clock time format HH:mm:ss

Elapsed time format 'HH:mm:ss.S'

Enabled for all Pipeline builds

Zapisz **Zastosuj**

 Jenkins

Jenkins > Globalne narzędzia do konfiguracji

[Back to Dashboard](#) [Manage Jenkins](#)

Globalne narzędzia do konfiguracji

Maven Configuration

Default settings provider: Use default maven settings

Default global settings provider: Use default maven global settings

JDK

JDK instalacji: [Dodaj](#)

List of JDK installations on this system

Git

Git installations:

 Git	Name: Default
	Path to Git executable: git
<input type="checkbox"/> Install automatically	Edit Delete

[Add Git](#)

[Delete Git](#)

Gradle

Gradle instalacji: [Dodaj](#)

List of Gradle installations on this system

Ant

Ant instalacji: [Dodaj](#)

List of Ant installations on this system

Maven

Maven instalacji: [Dodaj](#)

[Save](#) [Apply](#)

Szukaj... [Szukaj](#) | Foo Bar | Wyloguj







4 Setup Jenkins

Konfiguracja zadań

 Jenkins

Szukaj...  Foo Bar | Wyloguj

WŁĄCZ AUTOMATYCZNE ODŚWIĘŻANIE

 [Nowy Projekt](#)

 [Użytkownicy](#)

 [Historia zadań](#)

 [Zarządzaj Jenkinsem](#)

 [Moje widoki](#)

 [Lockable Resources](#)

 [Credentials](#)

 [New View](#)

Witamy w Jenkinsie!

Utwórz [nowe zadanie](#), aby rozpocząć pracę.

Kolejka zadań

Nie ma zadań w kolejce

Status wykonawców zadań

1 Bezczytny
2 Bezczytny

Jenkins

Szukaj... Foo Bar | Wyloguj

Jenkins > Wszystkie >

Podaj nazwę projektu

example » Pole wymagane

Ogólny projekt
 To jest podstawowa funkcja Jenkinsa. Jenkins stworzy projekt łączący dowolny SCM z dowolnym systemem budującym, może to być również wykorzystane do czegoś innego niż budowanie oprogramowania.

Pipeline
 Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
 Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
 Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

GitHub Organization
 Scans a GitHub organization (or user account) for all repositories matching some defined markers.

Multibranch Pipeline
 Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK

Jenkins

Szukaj... Foo Bar | Wyloguj

Jenkins > example >

General Repozytorium kodu Wyzwalacze zadania Środowisko do uruchomienia Budowanie Akcje po zadaniu

Opis

[Niesformatowany tekst] Podgląd

GitHub project Porzuć stare zadania This build requires lockable resources Throttle builds To zadanie jest sparametryzowane Zablokuj zadania Wykonuj zadania wspólnie, jeśli zajdzie potrzeba

Zaawansowane...

Repozytorium kodu

Brak Git

Repositories

Repository URL: <https://github.com/zielona-gora-jug/consumer-driven-contracts.git>

Credentials: - none -

Zaawansowane...

Add Repository

11

 Jenkins

Szukaj... Foo Bar | Wyloguj

WŁĄCZ AUTOMATYCZNE ODSWIEŻANIE

[Nowy Projekt](#)

[Użytkownicy](#)

[Historia zadań](#)

[Zarządzaj Jenkinsem](#)

[Moje widoki](#)

[Lockable Resources](#)

[Credentials](#)

[New View](#)

Wszystkie +

S	P	Nazwa	Ostatni sukces	Ostatni błąd	Czas trwania
		example	—	—	nd.

Ikona: [S](#) [M](#) [L](#)

Legenda RSS Dla wszystkich RSS Tylko niepowodzenia RSS Tylko dla najnowszych

Kolejka zadań =

Nie ma zadań w kolejce

Status wykonawców zadań =

1 Bezczyyny
2 Bezczyyny







MAKE GIFS AT GIFSOUP.COM









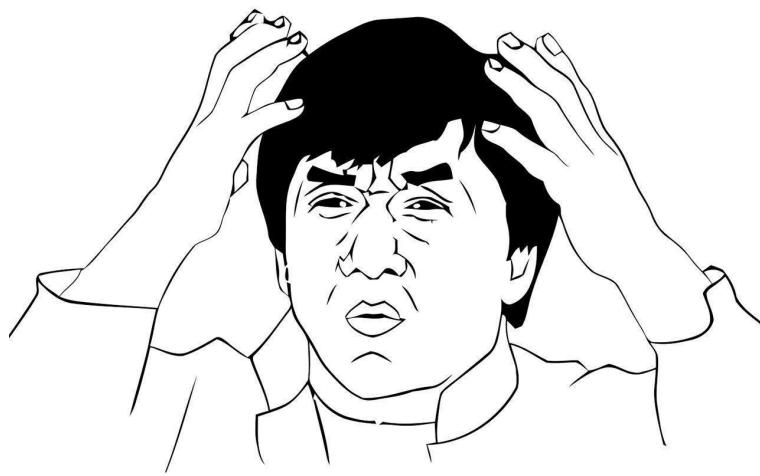




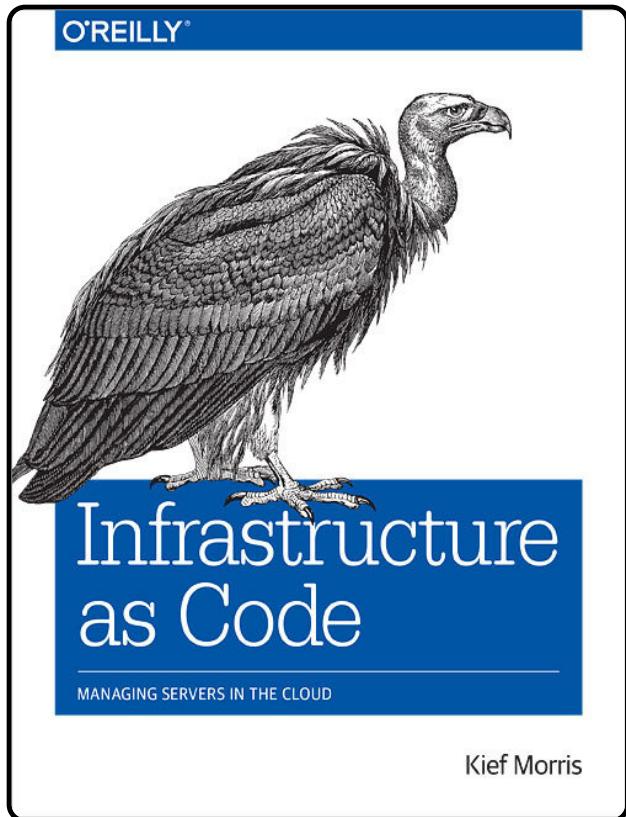


UP TO DATE DOCUMENTATION

**NOW THERE IS SOMETHING I
HAVEN'T SEEN IN A LONG TIME.**



Co można zrobić?



Linux

Debian/Ubuntu

On Debian-based distributions, such as Ubuntu, you can install Jenkins through [apt](#).

Recent versions are available in [an apt repository](#). Older but stable LTS versions are in [this apt repository](#).

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
sudo apt-get update
sudo apt-get install jenkins
```

This package installation will:

- Setup Jenkins as a daemon launched on start. See [/etc/init.d/jenkins](#) for more details.
- Create a 'jenkins' user to run this service.
- Direct console log output to the file [/var/log/jenkins/jenkins.log](#). Check this file if you are troubleshooting Jenkins.
- Populate [/etc/default/jenkins](#) with configuration parameters for the launch, e.g [JENKINS_HOME](#)
- Set Jenkins to listen on port 8080. Access this port with your browser to start configuration.



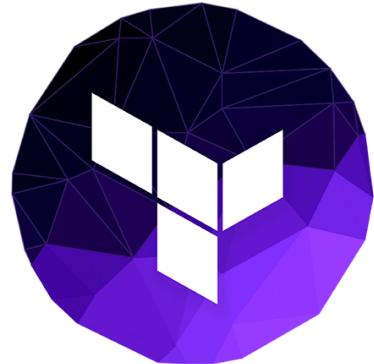
If your [/etc/init.d/jenkins](#) file fails to start Jenkins, edit the [/etc/default/jenkins](#) to replace the line `-----
HTTP_PORT=8080-----` with `-----HTTP_PORT=8081-----`. Here, "8081" was chosen but you can put another port available.

```
- name: Add Jenkins key
  apt_key:
    url: https://pkg.jenkins.io/debian/jenkins.io.key
    state: present
  become: true

- name: Add Jenkins repository
  apt_repository:
    repo: deb http://pkg.jenkins.io/debian-stable binary/
    state: present
    filename: jenkins
  become: true

- name: Update cache
  apt:
    update_cache: yes
  become: true

- name: Install Jenkins
  apt:
    name: jenkins
  become: true
```

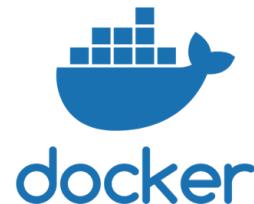


TERRAFORM

{JSON}



YAML



VCS



VCS

Identyfikowalność



VCS

Identyfikowalność

Wersjonowanie



VCS

Identyfikowalność

Wersjonowanie

Korelacja



VCS

Identyfikowalność

Wersjonowanie

Korelacja

Widoczność



VCS

Identyfikowalność

Wersjonowanie

Korelacja

Widoczność



Wykonalność

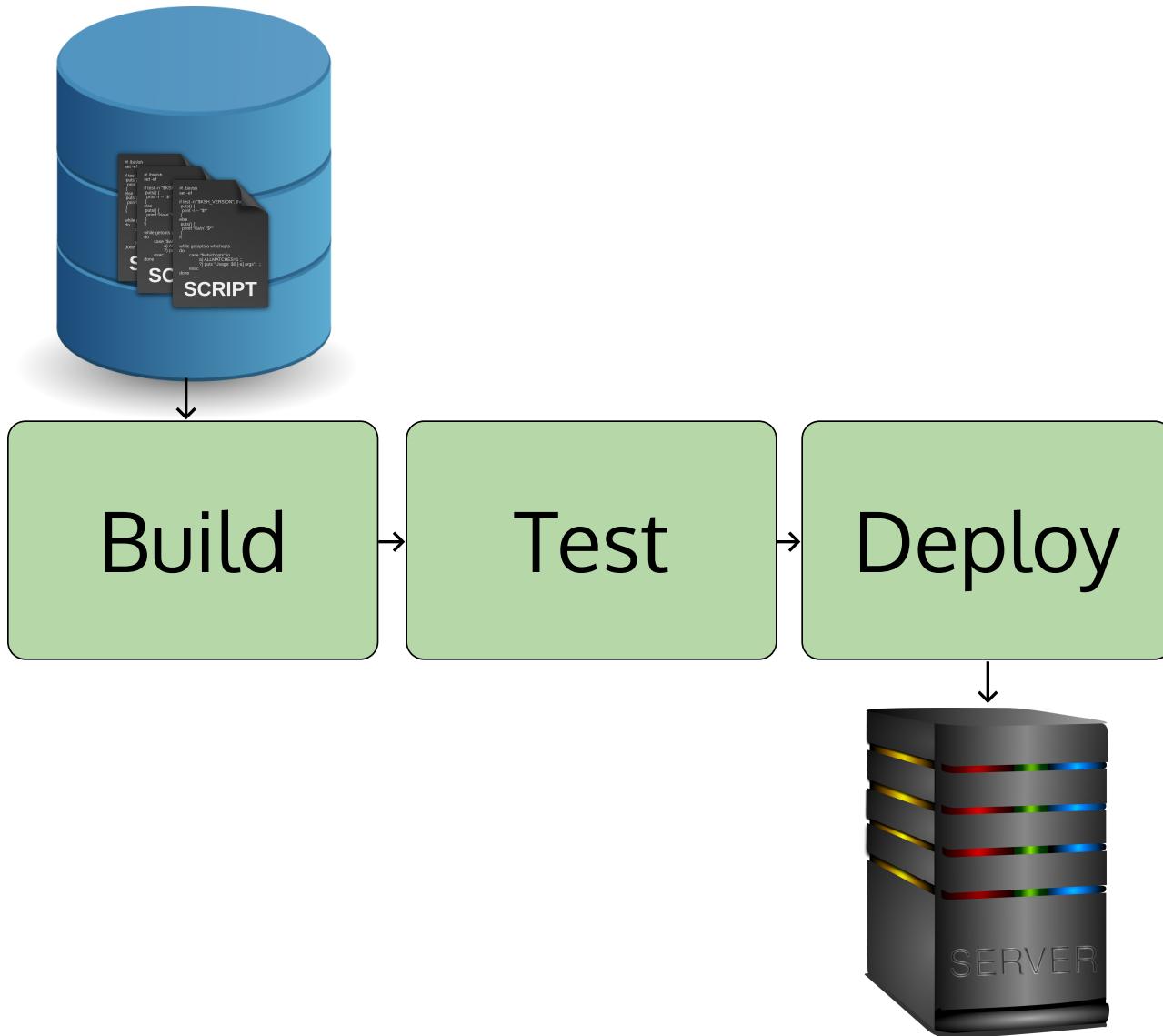
```
$ cat goss.yaml
package:
  jenkins:
    installed: true
service:
  jenkins:
    enabled: true
    running: true
http:
  {{ .Vars.jenkins_host }}/login:
    status: 200
```

```
$ cat goss.yaml
package:
  jenkins:
    installed: true
service:
  jenkins:
    enabled: true
    running: true
http:
  {{ .Vars.jenkins_host }}/login:
    status: 200

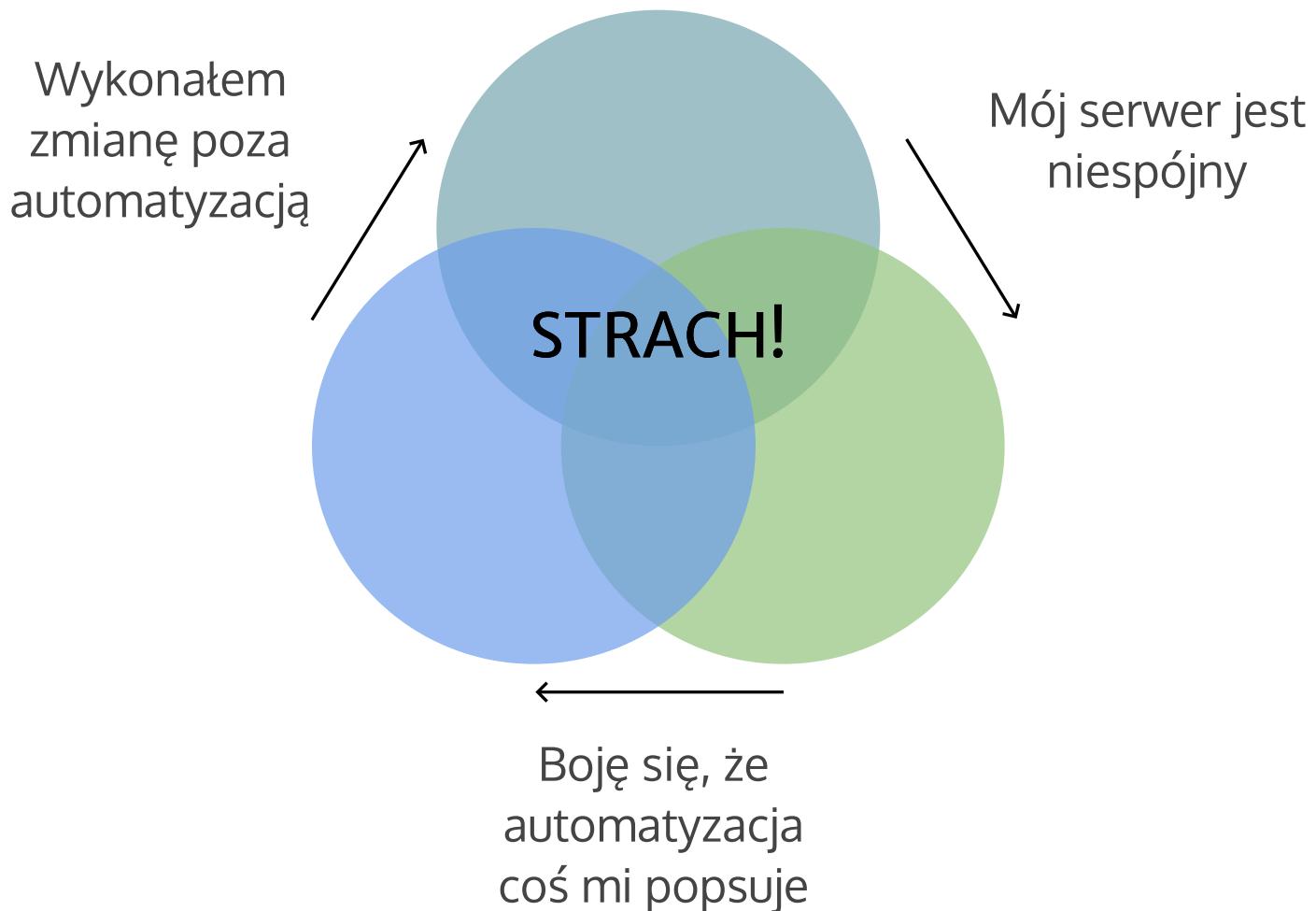
$ goss --vars vars.yaml validate --format documentation

Service: jenkins: enabled: matches expectation: [true]
Service: jenkins: running: matches expectation: [true]
Package: jenkins: installed: matches expectation: [true]
HTTP: http://localhost:8080/login: status:
Expected
  <int>: 503
to equal
  <int>: 200

Total Duration: 1.404s
Count: 4, Failed: 1, Skipped: 0
```







Wykonanie
zmiany
automatycznej

Wzór jest
jednolity



Boję się, że
automatyzacja
coś mi popsuje



Jak
to można
zrobić?





1 Setup Jenkins Instalacja

<https://hub.docker.com/r/jenkins/jenkins/>

 [Search for great content \(e.g., mysql\)](#)

[Explore](#) [Sign In](#) [Sign Up](#)



jenkins/jenkins ☆

By [jenkins](#) • Updated 2 hours ago

The leading open source automation server

Container

[Overview](#) [Tags](#)

Jenkins Continuous Integration and Delivery server.

This is a fully functional Jenkins server, based on the weekly and LTS releases .



Jenkins

- To use the latest LTS: `docker pull jenkins/jenkins:lts`
- To use the latest weekly: `docker pull jenkins/jenkins`
- Lighter alpine based image also available

[Read documentation for usage](#)

Docker Pull Command

```
docker pull jenkins/jenkins
```

Owner



jenkins

Uruchomienie obrazu docker

```
docker-compose.yaml
```

```
version: '3.7'
services:
  jenkins:
    image: "jenkins/jenkins"
    ports:
      - "8080:8080"
    volumes:
      - "./jenkins_home:/var/jenkins_home"
```

```
$ docker-compose up
```

Zaczynamy

Odblokuj Jenkinsa

Aby zapewnić, że Jenkins jest bezpiecznie uruchomiony przez administratora, hasło zostało zapisane do pliku logów ([nie masz pewności, gdzie go znaleźć?](#)) oraz w pliku na serwerze:

`/var/lib/jenkins/secrets/initialAdminPassword`

Skopuj hasło z jednej z powyższych lokalizacji i wklej poniżej.

Hasło administratorskie:



Kontynuuj

Instalowanie dodatkowych pakietów

Dockerfile

```
FROM jenkins/jenkins
USER root
RUN apt-get update && apt-get install -y maven
USER jenkins
```

docker-compose.yaml

```
version: '3.7'
services:
  jenkins:
    image: "jenkins"
    build: .
    ports:
      - "8080:8080"
    volumes:
      - "./jenkins_home:/var/jenkins_home"
```

```
$ docker-compose up --build
```



2 Setup Jenkins Post-Instalacja

Wyłączenie WizardSetup

```
docker-compose.yaml
```

```
version: '3.7'
services:
  jenkins:
    image: "jenkins"
    build: .
    environment:
      JAVA_OPTS: "-Djenkins.install.runSetupWizard=false"
    ports:
      - "8080:8080"
    volumes:
      - "./jenkins_home:/var/jenkins_home"
```

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

The screenshot shows the Jenkins plugin search interface. The top navigation bar includes links for Jenkins, Blog, Documentation, Plugins (which is the active tab), Community, Sub-projects, About, and English. A search bar at the top right contains the query "greenballs". On the left, there's a sidebar with sorting options (Relevance, Most installed, Trending, Title, Release date) and categories (Platforms, iOS development, .NET, Android development, Ruby development). The main search results area displays one result for "Green Balls". The result card includes the plugin name, install count (33423), Jenkins version compatibility (1.440+), a brief description ("Because green is better than blue! For color blind support configure user property."), the developer's name (Asgeir Storesund Nilsen), and a small icon labeled "GB".

Jenkins

Blog Documentation ▾ Plugins Community ▾ Sub-projects ▾ About ▾ English ▾

Browse ▾ greenballs

Sort relevance

Relevance

Most installed

Trending

Title

Release date

Categories

Platforms

iOS development

.NET

Android development

Ruby development

x greenballs

1 to 1 of 1

Green Balls

Installs: 33423

Jenkins 1.440++

User Interface,

Because green is better than blue! For color blind support configure user property.

Asgeir Storesund Nilsen

GB

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

Jenkins Blog Documentation ▾ **Plugins** Community ▾ Sub-projects ▾ About ▾ English ▾

◀ Find plugins

Green Balls 1.15

Minimum Jenkins requirement: 1.440
ID: greenballs

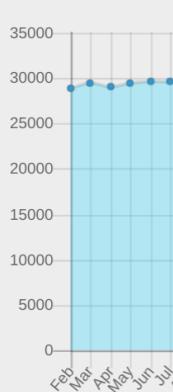
Installs: 33423
[GitHub](#) →
Last released: 3 years ago

Maintainers
Asgeir Storesund Nilsen

Dependencies

- [External Monitor Job Type v.1.0](#) (implied) (what's this?)
- [LDAP v.1.0](#) (implied) (what's this?)
- [PAM Authentication v.1.0](#) (implied) (what's this?)
- [Mailer v.1.2](#) (implied) (what's this?)
- [Matrix Authorization Strategy v.1.0.2](#) (implied) (what's this?)

Archives
Get past 30 days



Instalowanie pluginów

Dockerfile

```
FROM jenkins/jenkins
RUN /usr/local/bin/install-plugins.sh greenballs
USER root
RUN apt-get update && apt-get install -y maven
USER jenkins
```

 Jenkins

Jenkins > Menedżer wtyczek

 Powrót do tablicy
 Zarządzaj Jenkinsem

Aktualizacje Dostępne **Zainstalowane** Zaawansowane

Filtruj:

Włączone wtyczki	Nazwa	Wersja	Poprzednia zainstalowana wersja	Odinstaluj
<input checked="" type="checkbox"/>	Green Balls	1.15		Odinstaluj
Because green is better than blue! For color blind support configure user property.				



3 Setup Jenkins Konfiguracja

<https://github.com/jenkinsci/configuration-as-code-plugin>

Jenkins Configuration as Code Plugin

[build passing](#) [plugin v1.6](#) [chat on gitter](#)



View the [wiki](#) page. See [presentation slides](#) from Jenkins World 2018.

Join our Jenkins Configuration as Code (JCasc) office hours meeting scheduled for every second Wednesday. Use the Hangout on Air link from our [Gitter](#) chat channel. As an alternative, use the link from the [invitation](#). See previous [meeting minutes](#).

Konfiguracja

```
conf-as-code.yaml
```

```
jenkins:
  systemMessage: "IaC Jenkins"
  securityRealm:
    local:
      allowsSignup: false
      users:
        - id: "${JENKINS_USER}"
          password: "${JENKINS_PASS}"
```

Instalowanie CasC

Dockerfile

```
FROM jenkins/jenkins
RUN /usr/local/bin/install-plugins.sh greenballs
RUN /usr/local/bin/install-plugins.sh configuration-as-code
RUN /usr/local/bin/install-plugins.sh configuration-as-code-support
USER root
RUN apt-get update && apt-get install -y maven
USER jenkins
```

Podanie lokalizacji plików konfiguracyjnych

```
docker-compose.yaml
```

```
version: '3.7'
services:
  jenkins:
    image: "jenkins"
    build: .
    environment:
      JAVA_OPTS: "-Djenkins.install.runSetupWizard=false"
      CASC_JENKINS_CONFIG: "/var/jenkins_home/casc_configs"
      JENKINS_USER: "${JENKINS_USER}"
      JENKINS_PASS: "${JENKINS_PASS}"
    ports:
      - "8080:8080"
    volumes:
      - "./jenkins_home:/var/jenkins_home"
      - "./configuration:/var/jenkins_home/casc_configs"
```

W jaki sposób pisać pliki konfiguracyjne?

■ active-directory	■ jobs
■ alauda-devops-sync	■ keycloak
■ artifactory	■ kubernetes-helm
■ build_agents	■ kubernetes-secrets
■ config-file-provider	■ kubernetes
■ credentials	■ ldap
■ docker	■ mailer
■ ec2	■ mesos
■ embedded-userdatabase	■ plugins
■ git	■ role-strategy-auth
■ github-oauth	■ simple-theme-plugin
■ github	■ slack
■ gitlab	■ sonarqube
■ gitscm	■ statistics-gatherer
■ global-matrix-auth	■ terraform
■ google-login	■ tfs
■ graphite	■ warnings
■ jenkins	■ workflow-cps-global-lib

W jaki sposób pisać pliki konfiguracyjne?

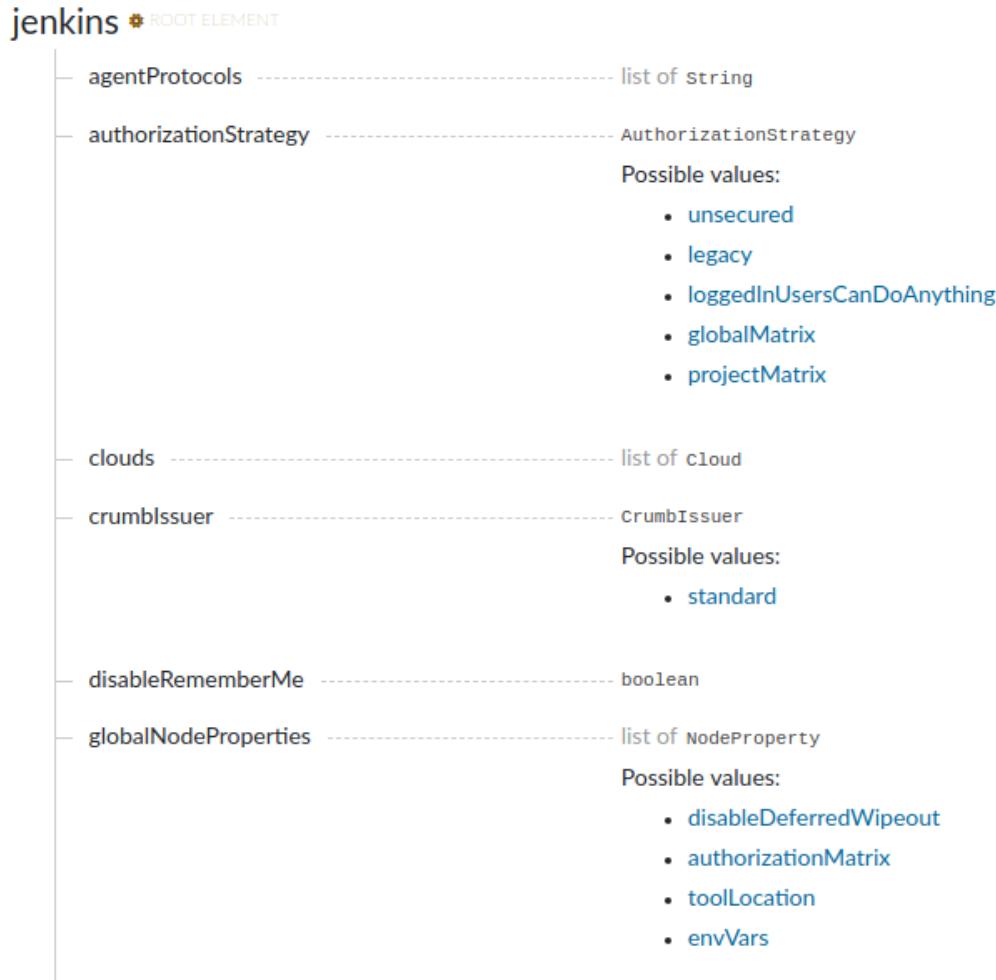


Configuration as Code

Reload your configuration or update configuration source

[Documentation](#)

W jaki sposób pisać pliki konfiguracyjne?



Bezpieczeństwo

Dockerfile

```
FROM jenkins/jenkins
RUN /usr/local/bin/install-plugins.sh greenballs
RUN /usr/local/bin/install-plugins.sh configuration-as-code
RUN /usr/local/bin/install-plugins.sh configuration-as-code-support
RUN /usr/local/bin/install-plugins.sh matrix-auth
USER root
RUN apt-get update && apt-get install -y maven
USER jenkins
```

Zablokowanie możliwość konfigurowania

```
conf-as-code.yaml
```

```
jenkins:
    systemMessage: "IaC Jenkins"
    authorizationStrategy:
        globalMatrix:
            grantedPermissions:
                - "Overall/Read:authenticated"
                - "Job/Build:authenticated"
                - "Job/Cancel:authenticated"
                - "Job/Read:authenticated"
    securityRealm:
        local:
            allowsSignup: false
            users:
                - id: "${JENKINS_USER}"
                  password: "${JENKINS_PASS}"
```

ImmutableServer



Kief Morris

13 June 2013

Automated configuration tools (such as [CFEngine](#), [Puppet](#), or [Chef](#)) allow you to specify how servers should be configured, and bring new and existing machines into compliance. This helps to avoid the problem of fragile [SnowflakeServers](#). Such tools can create [PhoenixServers](#) that can be torn down and rebuilt at will. An Immutable Server is the logical conclusion of this approach, a server that once deployed, is never modified, merely replaced with a new updated instance.

Automated configuration tools are usually used with [ConfigurationSynchronization](#) where you leave a server running for a potentially long period of time, repeatedly applying configuration to bring it into line with the latest specification. In theory servers can be allowed to run indefinitely, and they'll be kept completely consistent and up to date. In practice it's not possible to manage a server's configuration completely, so there is considerable scope for configuration drift, and unexpected changes to running servers.



4 Setup Jenkins

Konfiguracja zadań

<https://github.com/jenkinsci/job-dsl-plugin>

Jenkins Job DSL / Plugin

The Jenkins "Job DSL / Plugin" is made up of two parts: The Domain Specific Language (DSL) itself that allows users to describe jobs using a Groovy-based language, and a Jenkins plugin which manages the scripts and the updating of the Jenkins jobs which are created and maintained as a result.

Background

Jenkins is a wonderful system for managing builds, and people love using its UI to configure jobs. Unfortunately, as the number of jobs grows, maintaining them becomes tedious, and the paradigm of using a UI falls apart. Additionally, the common pattern in this situation is to copy jobs to create new ones, these "children" have a habit of diverging from their original "template" and consequently it becomes difficult to maintain consistency between these jobs.

The Jenkins job-dsl-plugin attempts to solve this problem by allowing jobs to be defined with the absolute minimum effort in a programmatic form. The goal is for your team to be able to define all the jobs they wish to be related to their project, declaring their intent for the jobs programmatically, and leaving the common elements in each of them hidden behind the DSL.

For example, your project might require a unit test job, a nightly SonarQube build, an integration test job, and a promotion job. Permission to run the release job should be limited to certain users. Here's the example DSL script:

Job DSL

seed.groovy

```
job('example') {
    triggers {
        scm('*/* * * * *')
    }
    steps {
        shell("echo 'Hello world!'")
    }
}
```

Dockerfile

```
FROM jenkins/jenkins
RUN /usr/local/bin/install-plugins.sh greenballs
RUN /usr/local/bin/install-plugins.sh configuration-as-code
RUN /usr/local/bin/install-plugins.sh configuration-as-code-support
RUN /usr/local/bin/install-plugins.sh matrix-auth
RUN /usr/local/bin/install-plugins.sh job-dsl
USER root
RUN apt-get update && apt-get install -y maven
USER jenkins
```

Konfiguracja Job DSL

conf-as-code-jobs.yaml

```
jobs:
- script: >
    job('example') {
        triggers {
            scm('*/* * * * *')
        }
        steps {
            shell("echo 'Hello world!'")
        }
    }
```

<https://github.com/jenkinsci/pipeline-plugin>

Stage View



Permalinks

- [Last build \(#1\), 2 hr 14 min ago](#)
- [Last stable build \(#1\), 2 hr 14 min ago](#)
- [Last successful build \(#1\), 2 hr 14 min ago](#)

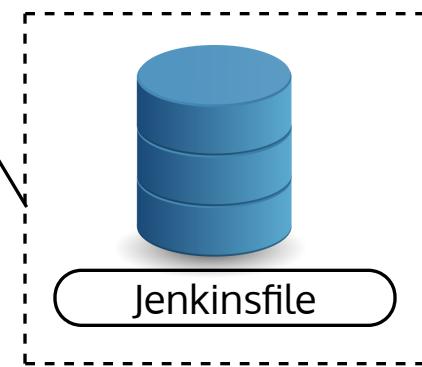
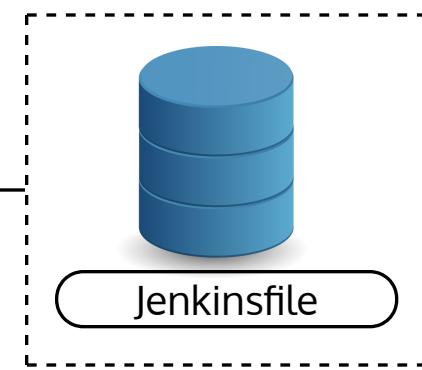
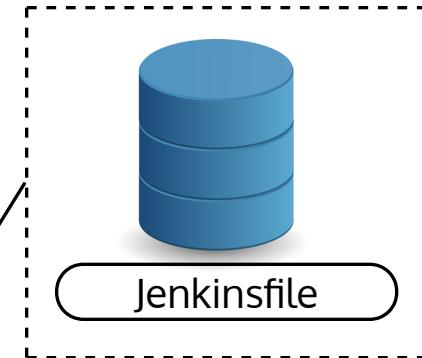
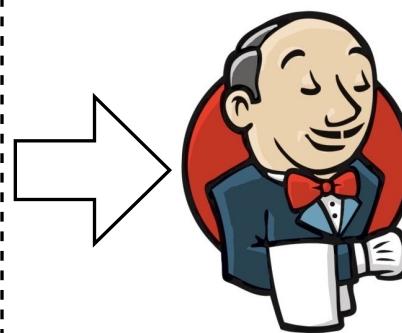
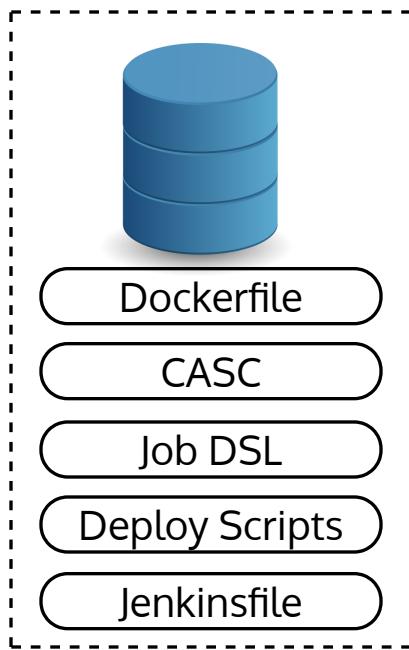
Deklaratywny pipeline

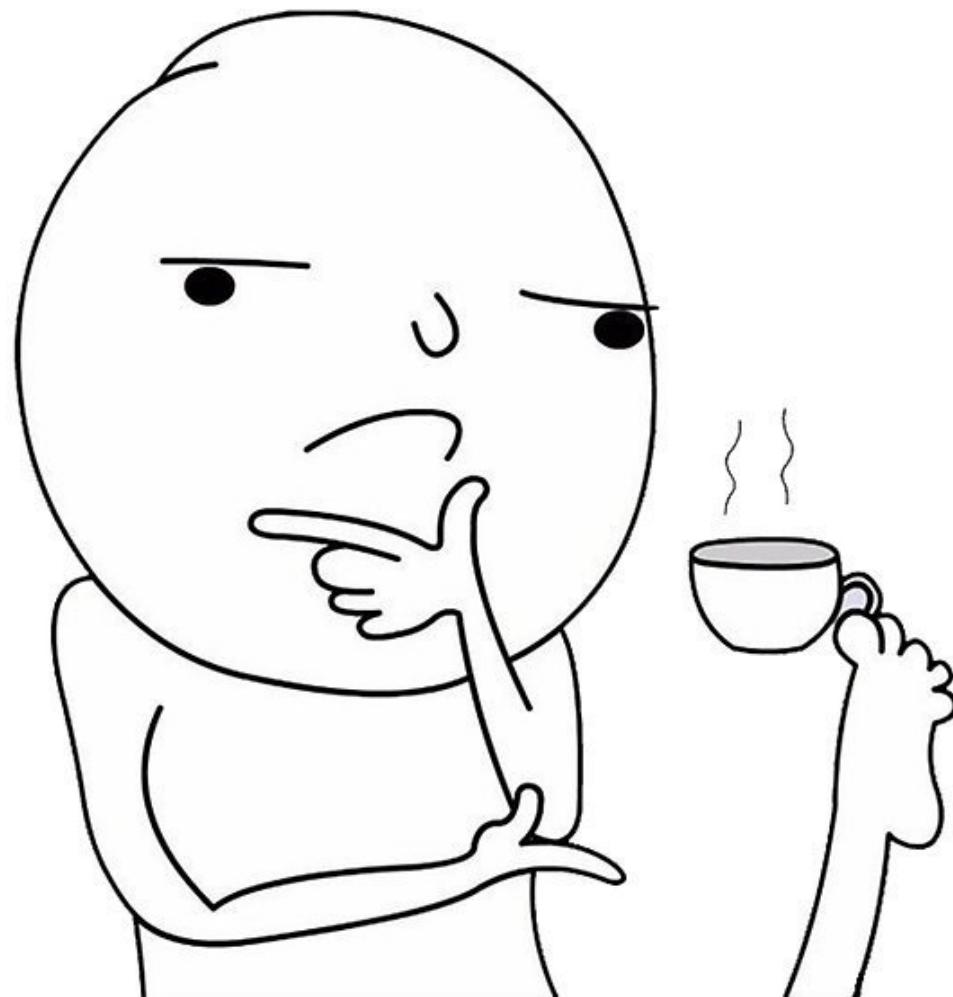
Jenkinsfile

```
pipeline {
    agent any
    stages {
        stage('Stage 1') {
            steps {
                echo 'Hello world!'
            }
        }
    }
}
```

Dockerfile

```
FROM jenkins/jenkins
RUN /usr/local/bin/install-plugins.sh greenballs
RUN /usr/local/bin/install-plugins.sh configuration-as-code
RUN /usr/local/bin/install-plugins.sh configuration-as-code-support
RUN /usr/local/bin/install-plugins.sh matrix-auth
RUN /usr/local/bin/install-plugins.sh job-dsl
RUN /usr/local/bin/install-plugins.sh workflow-aggregator
USER root
RUN apt-get update && apt-get install -y maven
USER jenkins
```





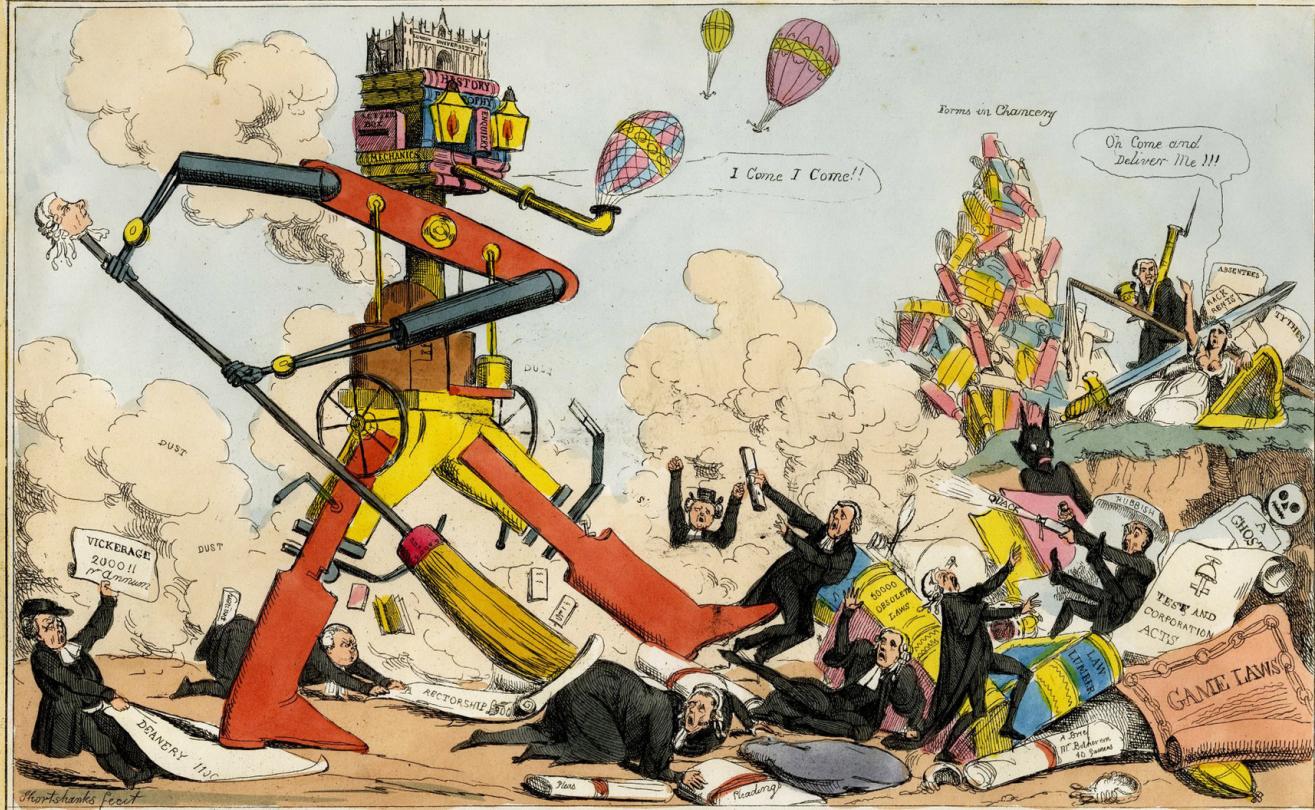
Technology Radar

JAN
2011

ADOPT ?

The large number of hosts and devices in a modern datacenter or cloud deployment have made manually installing and configuring infrastructure unwise. Infrastructure as code is an approach whereby infrastructure configuration is scripted or described by files that are stored in version control, and changes are pushed out to the datacenter in a controlled manner. This parallels the discipline of source control and build promotion used in software development, hence 'as code'. The two front-running open source tools for infrastructure automation are Chef and Puppet. They both use a textual DSL to script automation. Using this approach provides consistent and repeatable environment changes, reducing the manual effort involved, especially in troubleshooting environmental differences.

THE MARCH OF INTELLECT.



I saw a Trison, A Giant form appeared its oys where burning lights over of Gaffs, and on its learned head it bore a Crown of many towers, Its Body was an Engine yeir of steam its arms were iron and the legs with which it stode like unto proffes that men called printors use, from whence fell ever and anon small Books that fed the little people of the Earth, It rose and in its hand it took a Broom to sweep the rubish from the face of the land, the Special pleadors & their wigs also of the Quack Doctors also and the ghosts of those that wear Horns, & the Crowns of those that set themplor's above the laws & the Delays in Chancery it utterly destroy'd likewise it swept from the Clergy evry Plorality, Neverthelss the Lawyours & the Persons of divers others kickt up a great Dust!!!

THE MARCH OF INTELLECT.

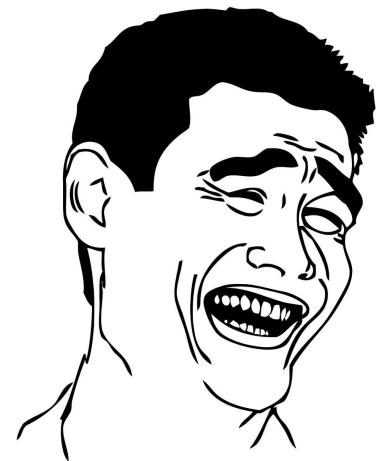
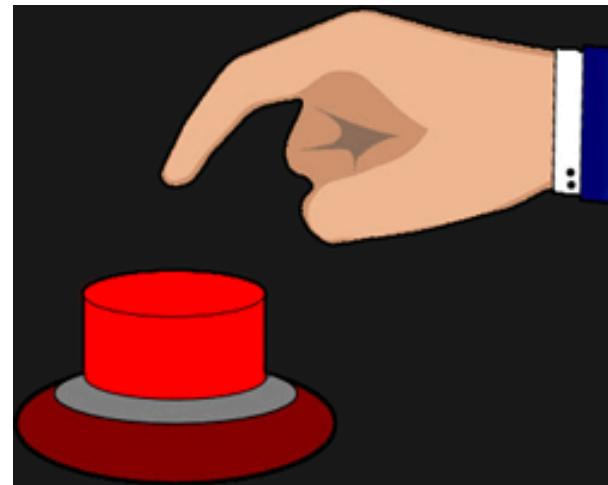
Why Are There Still So Many Jobs? The History and Future of Workplace Automation

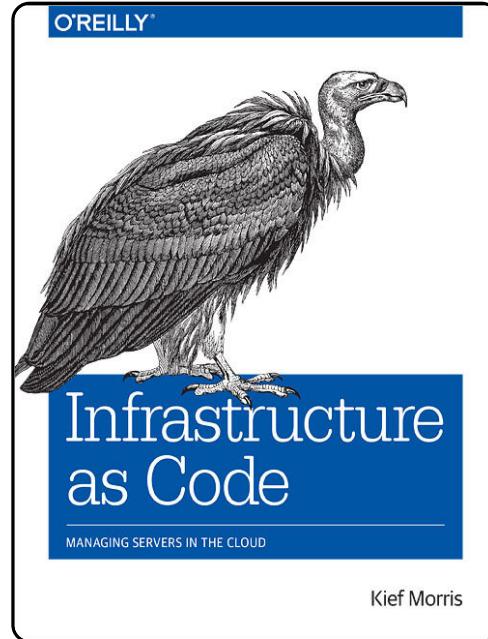
David H. Autor



I saw a Trison, a Giant form appeared, its eys where burning lights evn of Gaffs, and on its learned head it bore a Crown of many towers, Its Body was an Engine yeir of steam, its arms where arm'd and the legs with which it stode like unto proffes that men called printors use, from whence fell ever and awin smell Books that fed the little people of the Earth, It rise and in its hand it took a Broom to sweep the rubish from the face of the land, the Special pleader & their wigs also of the Quack Doctors also and the ghosts of those that wear Horns, & the Crowns of those that set themselfs above the laws & the Delays in Chancery it utterly destroyd, likewise it sweep from the Clergy evry Plorality, Neverthelesse the Lawyours & the Persons of divers others kickt up a great Dust!!!







<https://github.com/zielona-gora-jug/jenkins-iac>
<https://jenkins.io>
<https://hub.docker.com/r/jenkins/jenkins/>
<https://plugins.jenkins.io/>
<https://github.com/jenkinsci/configuration-as-code-plugin>
<https://github.com/jenkinsci/job-dsl-plugin>
<https://github.com/jenkinsci/pipeline-plugin>



Dziękings!