

Jenkinsの環境構築

株式会社ジェイエスピー

前提

- 研究会の時間を有効に活用するため、事前にインストールをしていただきます。
- OS は Windows の PC を使用
- ブラウザは Chrome を使用
- 環境構築の途中でご不明点等がございましたら、以下の連絡先にご連絡をお願いいたします。

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アドレス： kia-technology@jspnet.co.jp

やること(所要時間:約40分)

1. Oracleアカウントの作成
2. JDKのインストール
3. Jenkinsのインストール
4. Jenkinsの初期設定

Oracleアカウント作成

<https://education.oracle.com/ja/>

すでにアカウントがある場合は、この工程は必要なし(p.7へ)

The screenshot shows the Oracle University website interface. At the top, there is a navigation bar with the Oracle University logo, a search bar, and a login link labeled "こんにちは ログイン" (Hello Login) which is circled in red. To the right of the login link are links for "Japan", "日本語", and "お問い合わせ". Below the navigation bar is a dark banner with "研修サービス" (Training Services), "資格" (Certification), and "パートナー" (Partner) links. On the right side of the banner are buttons for "研修に関するリクエスト" (Request for training) and a shopping cart icon showing "0 個の品目 - ¥0". The main content area features a large banner for "Autonomous Database: あなたのビジネスを加速します" (Autonomous Database: Accelerate your business). Below this banner is a green button labeled "詳細を見る →" (View details →). To the right of the banner is a circular diagram with icons representing various Oracle services. Below the banner is a horizontal menu with icons and labels for "IaaS 研修", "PaaS 研修", "OCI 研修", "SaaS 研修", "Database 研修", "Java 研修", "受験チケット", and "購入済みのサブスクリプション". At the bottom of the page, there is a section titled "研修コースを検索" (Search for training courses) with a search bar and a "検索する" (Search) button. Below the search bar is a prompt: "関心のある分野を選択してください" (Please select a field of interest).

アカウント作成①

ORACLE
University

Oracleプロフィールの作成

すでにOracleプロフィールをお持ちの場合 [サインイン](#)

電子メール・アドレス *

パスワード *

パスワードの再入力 *

国 *
日本

姓／名（漢字） *
お名前（姓：漢字）例：山田
お名前（名：漢字）例：太郎

姓／名（ローマ字） *
お名前（姓：ローマ字）例：Yam
お名前（名：ローマ字）例：Taro

部署・役職名 *

勤務先電話番号 *

会社名 *

郵便番号 *

都道府県 *
-選択-

電子メール・アドレスがユーザー名です。

パスワードは大文字と小文字の両方を使用し、数字を少なくとも1つ含み、8文字以上である必要があります。また、電子メール・アドレスと一致したり電子メール・アドレスを含んだりしないようにしてください。

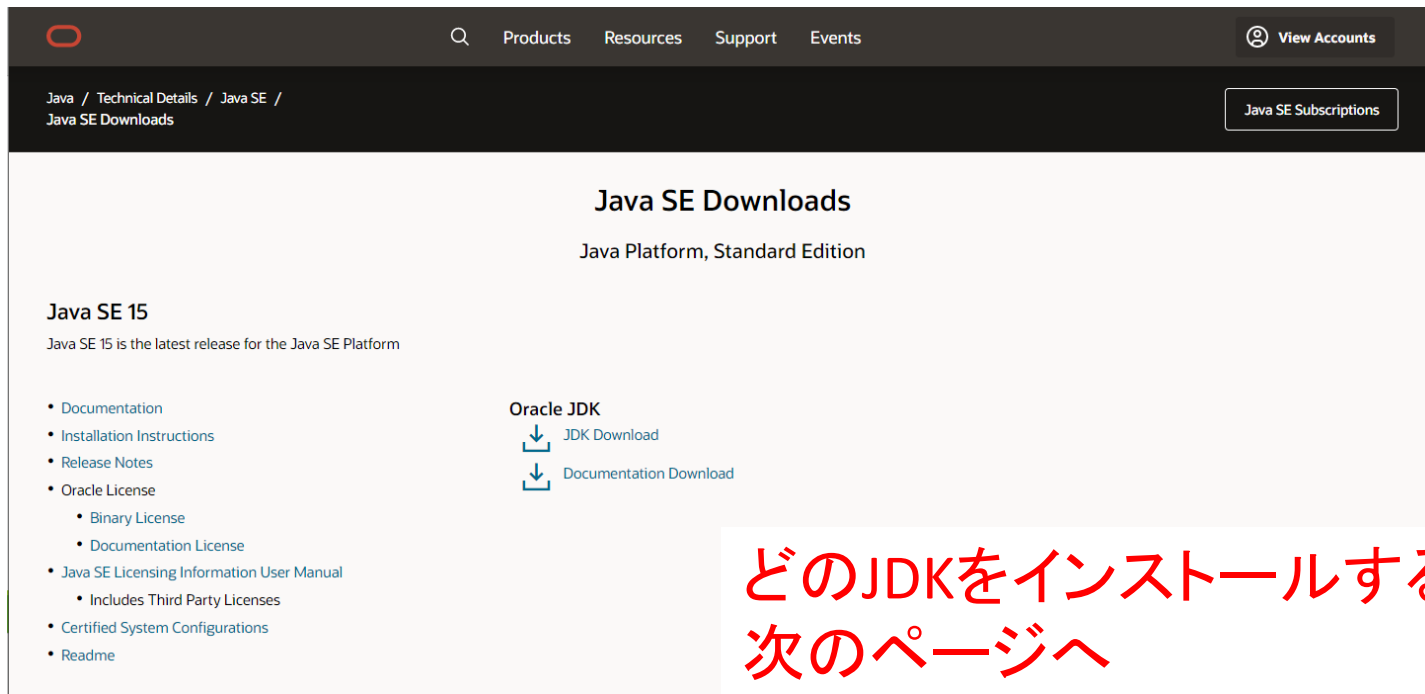
アカウント登録②

- アカウント登録後、入力したメールアドレスに確認メールが届く
※メールはHTML形式で表示すること
- メールの内容通りに、アドレスの認証を行う。
- ブラウザ画面で認証完了すれば、アカウント登録完了。

JDKのインストール

<https://www.oracle.com/java/technologies/javase-downloads.html>

すでにJDKが入っている場合は、この工程は必要なし(p.15へ)



The screenshot shows the Oracle Java SE Downloads page. The header includes the Oracle logo, a search icon, and navigation links for Products, Resources, Support, and Events. A 'View Accounts' button is in the top right. Below the header, the breadcrumb trail reads 'Java / Technical Details / Java SE / Java SE Downloads'. A 'Java SE Subscriptions' button is also visible. The main content area is titled 'Java SE Downloads' with the subtitle 'Java Platform, Standard Edition'. Under 'Java SE 15', it states 'Java SE 15 is the latest release for the Java SE Platform'. A list of links on the left includes Documentation, Installation Instructions, Release Notes, Oracle License (with sub-links for Binary and Documentation License), Java SE Licensing Information User Manual (with a sub-link for Includes Third Party Licenses), Certified System Configurations, and Readme. On the right, under 'Oracle JDK', there are two download links: 'JDK Download' and 'Documentation Download', each with a download icon.

Java SE 15

Java SE 15 is the latest release for the Java SE Platform

- Documentation
- Installation Instructions
- Release Notes
- Oracle License
 - Binary License
 - Documentation License
- Java SE Licensing Information User Manual
 - Includes Third Party Licenses
- Certified System Configurations
- Readme

Oracle JDK

- JDK Download
- Documentation Download

どのJDKをインストールするかは
次のページへ

JDKのダウンロード①

画面をスクロールすると、以下の「Java SE 8」が現れる

Java SE 8

Java SE 8u261 is the latest release for the Java SE 8 Platform.



- Documentation
- Installation Instructions
- Release Notes
- Oracle License
 - Binary License
 - Documentation License
 - BSD License
- Java SE Licensing Information User Manual
 - Includes Third Party Licenses
- Certified System Configurations
- Readme Files
 - JDK ReadMe
 - JRE ReadMe

Oracle JDK

- ↓ JDK Download
- ↓ Server JRE Download
- ↓ JRE Download
- ↓ Documentation Download
- ↓ Demos and Samples Download

ココをクリック！

JDKのダウンロード②

| | | |
|-------------|-----------|--|
| Windows x86 | 154.52 MB |  jdk-8u261-windows-i586.exe |
| Windows x64 | 166.28 MB |  jdk-8u261-windows-x64.exe |

You must accept the [Oracle Technology Network License Agreement for Oracle Java SE](#) to download this software.

Agreement and further provided that you are responsible for their compliance with this Agreement in such use. You will have a written agreement with Your Contractor(s) that strictly limits their right to use the Programs and that otherwise protects Oracle's intellectual property rights to the same extent as this Agreement. You may make copies of the Programs to the extent reasonably necessary to exercise the license rights granted in this Agreement.

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- cause or permit reverse engineering (unless required by law for interoperability), disassembly or decompilation of the Programs; and
- create, modify, or change the behavior of, classes, interfaces, or subpackages that are in any way identified as "java", "javax", "sun", "oracle" or similar convention as specified by Oracle in any naming convention designation.

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☒ I reviewed and accept the Oracle Technology Network License Agreement for Oracle Java SE

You will be redirected to the login screen in order to download the file.

Download [jdk-8u261-windows-x64.exe](#) 

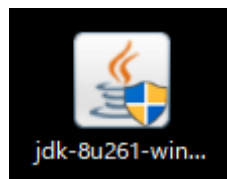


PCに合わせて
32bit版 or 64bit版を選択

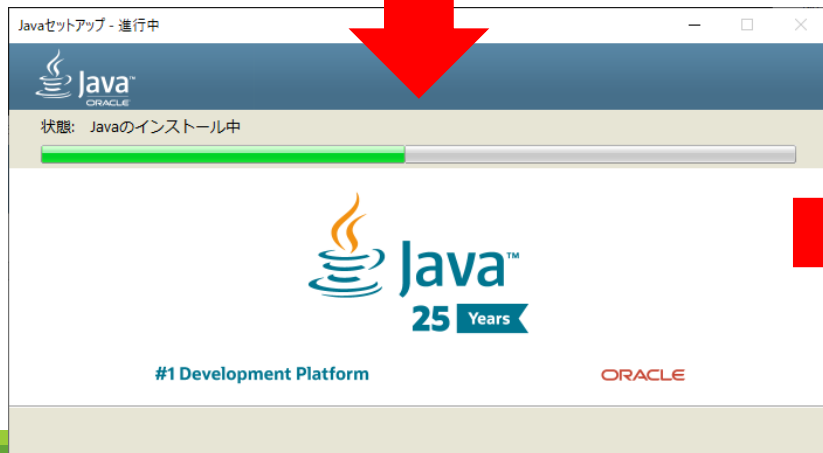
アカウントログイン

A screenshot of a mobile application interface for logging into an Oracle profile. The page has a dark blue header and a light gray background. The main content area is white and contains the title 'Oracleプロフィールへのサインイン'. Below the title are two input fields: 'ユーザー名' (Username) and 'パスワード' (Password). Each field has a green underline and an information icon (i) to its right. Below the password field is a green button labeled 'サインイン' (Sign In). Underneath the button is a link that says '困ったときは' (When you're stuck). At the bottom of the main content area is a white box with the text 'オラクルのアカウントをお持ちでない場合' (If you don't have an Oracle account). Below this text is a white button labeled 'プロフィールの作成' (Create profile). At the very bottom of the page is a small copyright notice: '© Oracle | ウェブサイトのご使用条件 | 個人情報保護方針'.

JDKのインストール①

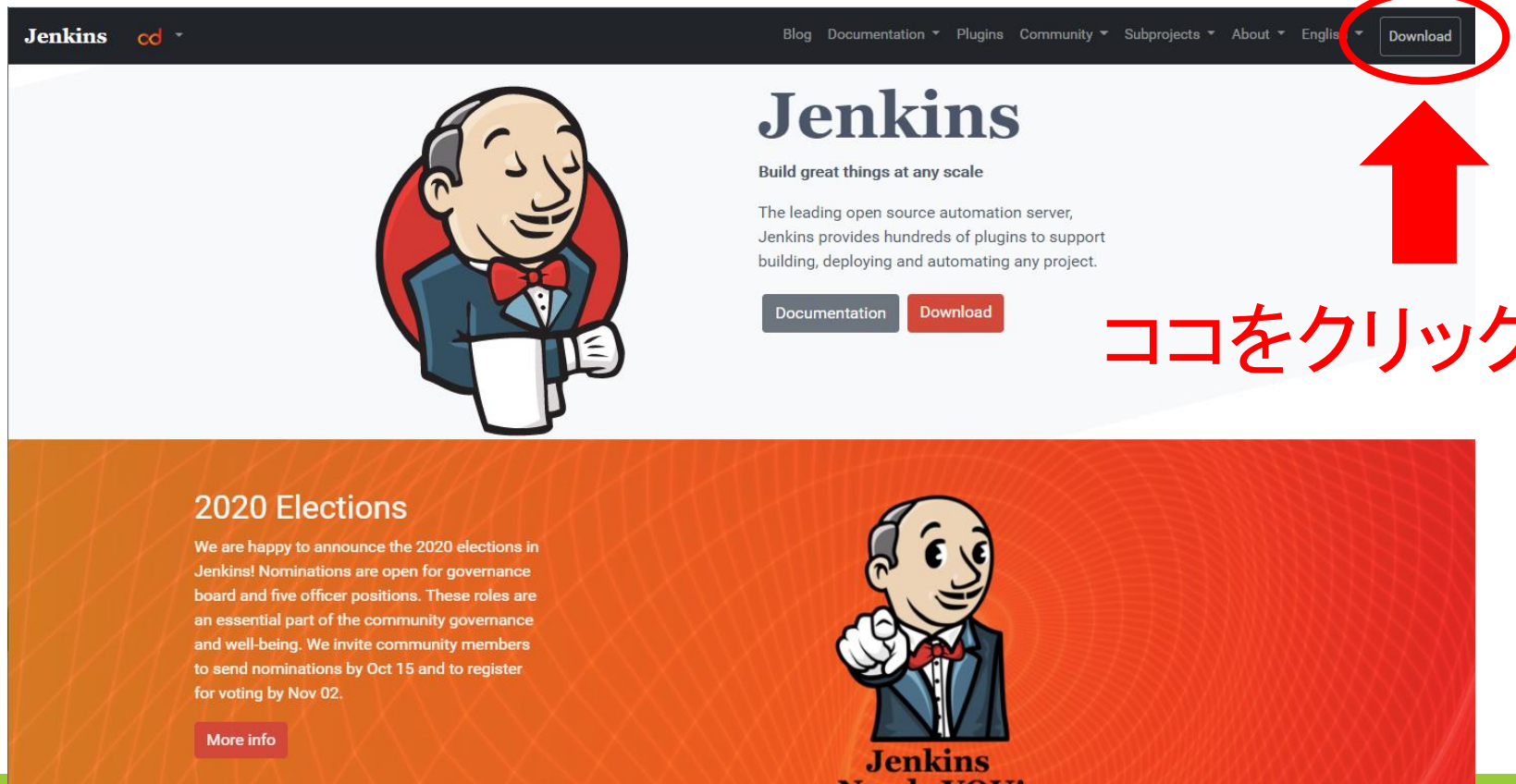


JDKのインストール②



Jenkinsのインストール

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



The screenshot shows the Jenkins website homepage. At the top, a dark navigation bar contains links: Jenkins, cd, Blog, Documentation, Plugins, Community, Subprojects, About, English, and a 'Download' button. The 'Download' button is circled in red, and a large red arrow points to it from the right. Below the navigation bar, the main content area features the Jenkins logo (a cartoon man in a tuxedo) on the left. To the right of the logo, the word 'Jenkins' is displayed in a large, bold, serif font. Below the logo, the text 'Build great things at any scale' is followed by a paragraph: 'The leading open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project.' Below this text are two buttons: 'Documentation' and 'Download'. The 'Download' button is highlighted with a red box. To the right of the 'Download' button, the text 'ココをクリック！' (Click here!) is written in large red characters. At the bottom of the page, there is a red banner with a white grid pattern. On the left side of the banner, the text '2020 Elections' is followed by a paragraph: 'We are happy to announce the 2020 elections in Jenkins! Nominations are open for governance board and five officer positions. These roles are an essential part of the community governance and well-being. We invite community members to send nominations by Oct 15 and to register for voting by Nov 02.' Below this text is a 'More info' button. On the right side of the banner, there is a smaller version of the Jenkins logo pointing towards the viewer.

Jenkins cd Blog Documentation Plugins Community Subprojects About English Download

Jenkins

Build great things at any scale

The leading open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project.

Documentation Download

ココをクリック！


2020 Elections

We are happy to announce the 2020 elections in Jenkins! Nominations are open for governance board and five officer positions. These roles are an essential part of the community governance and well-being. We invite community members to send nominations by Oct 15 and to register for voting by Nov 02.





More info

Jenkins







Jenkinsのダウンロード

Jenkins  [Blog](#) [Documentation](#) [Plugins](#) [Community](#) [Subprojects](#) [About](#) [English](#) [Download](#)


Download Jenkins 2.249.1 LTS for:

| |
|--|
| Generic Java package (.war) SHA-256: a38ca485b3e2bae6ec69a34b6b34b674f4dd4baf04f20f8dce2d838d08ed5bd6 |
| Docker |
| Ubuntu/Debian |
| CentOS/Fedora/Red Hat |
| Windows |
| openSUSE |
| FreeBSD  |
| Gentoo  |
| macOS  |
| OpenBSD  |

Download Jenkins 2.258 for:

| |
|---|
| Generic Java package (.war) SHA-256: 28ba2418affd46f86e8acdf4ee44db7791e79263bd6e0c005ad1a8923e4bf45e |
| Docker |
| Ubuntu/Debian |
| CentOS/Fedora/Red Hat |
| Windows |
| openSUSE |
| Arch Linux  |
| FreeBSD  |
| Gentoo  |
| macOS  |
| OpenBSD  |
| OpenIndiana Hipster  |

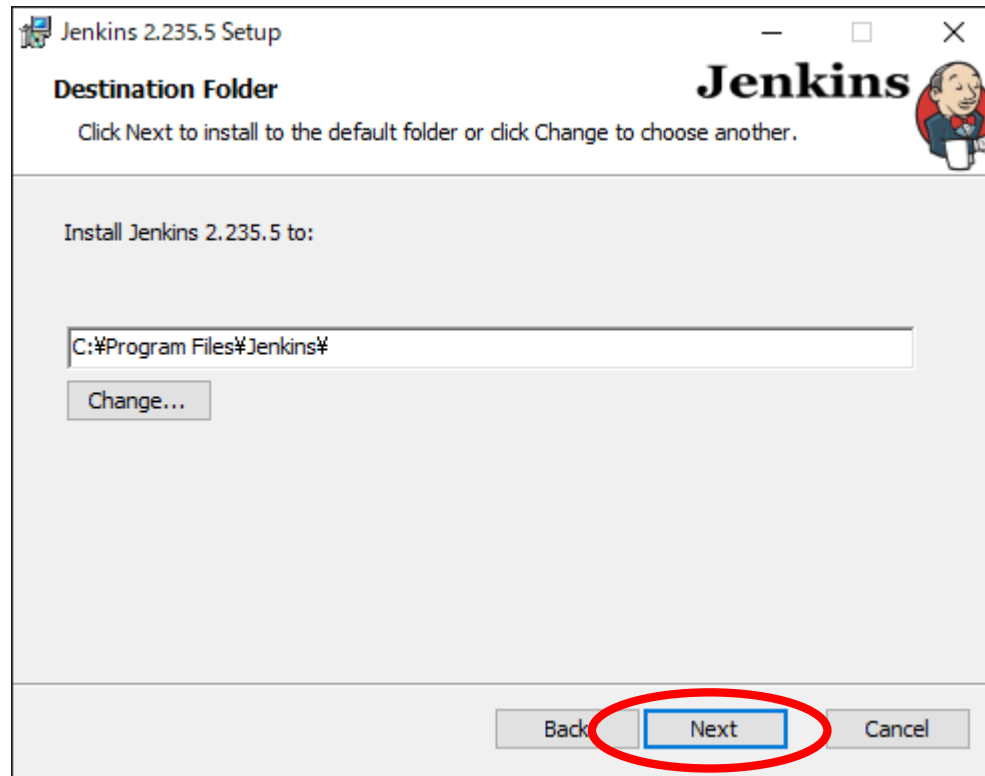
Windows版をダウンロード

NOTE: Packages with the  gear icon are maintained by third parties. Such packages may be not as frequently updated as packages supported by the

Jenkinsのインストール①



Jenkinsのインストール②



Jenkinsのインストール③

Jenkins 2.235.5 Setup

Service Logon Credentials

Enter service credentials for the service.

Jenkins 2.235.5 installs and runs as an independent Windows service. To operate in this manner, you must supply the user account credentials for Jenkins 2.235.5 to run successfully.

Logon Type:

① ☒ Run service as LocalSystem (not recommended)

☐ Run service as local or domain user.

Account:

Password:

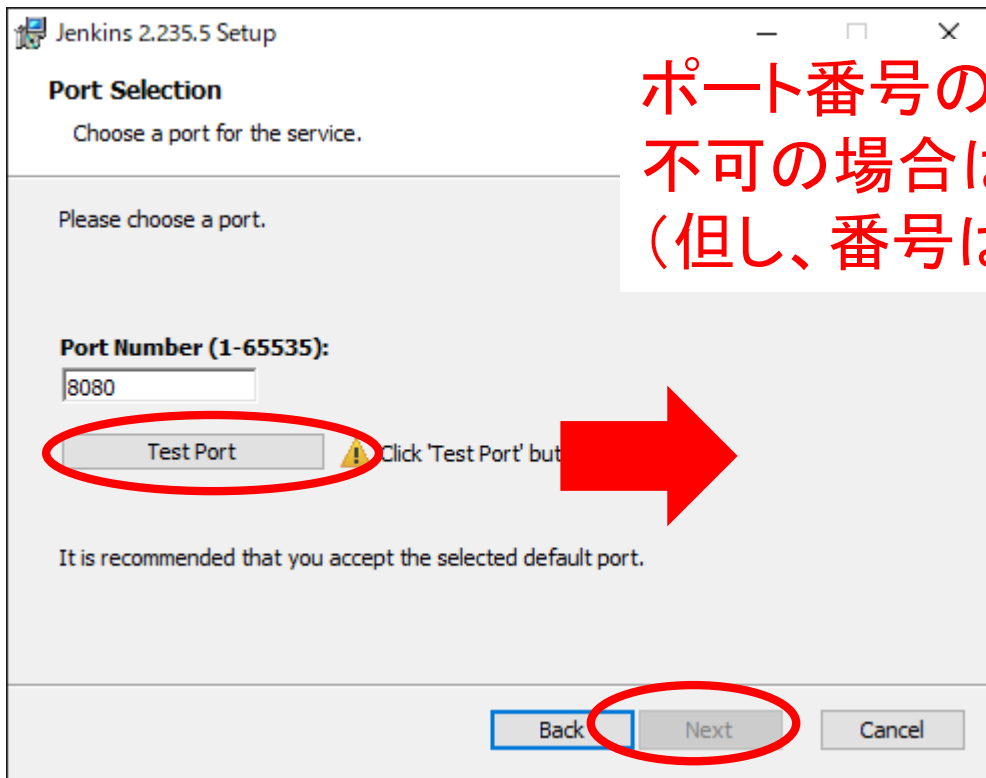
Test Credentials

② Back **Next** Cancel

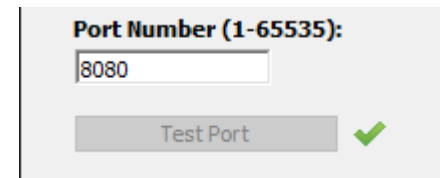
Jenkinsのインストール④

ポート番号の使用可を確認
不可の場合はほかの番号を入力
(但し、番号は覚えておくこと)

①



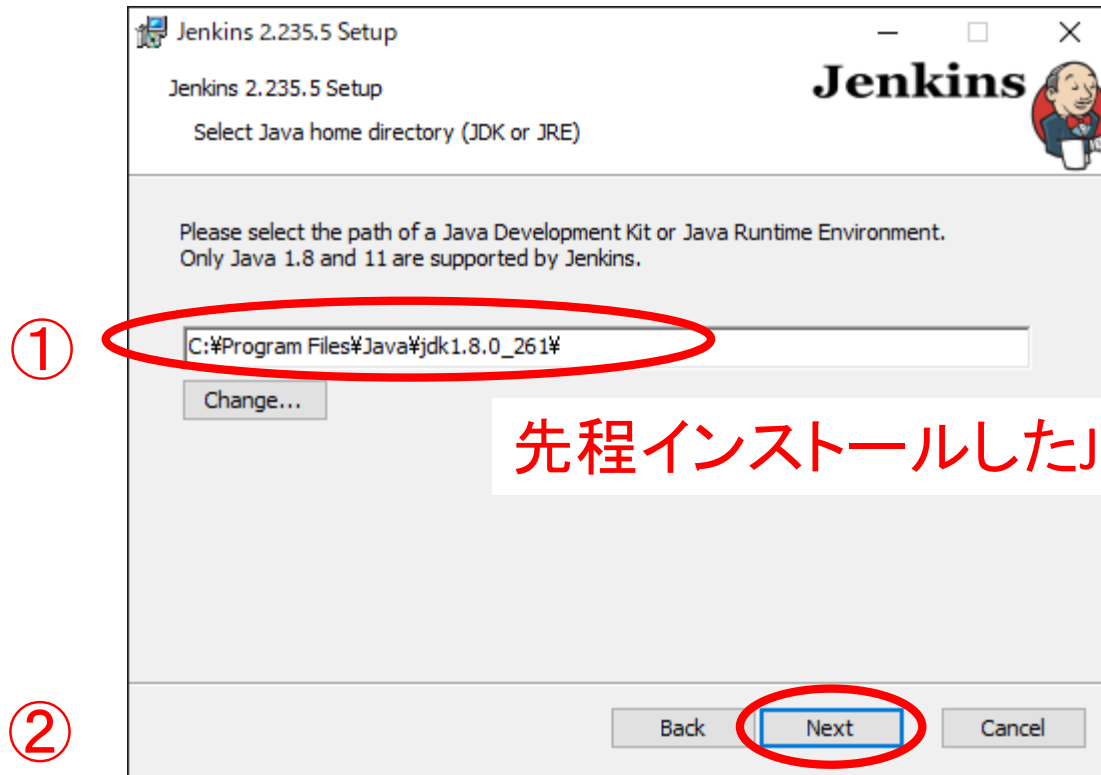
The screenshot shows the 'Port Selection' window of the Jenkins 2.235.5 Setup. The window title is 'Jenkins 2.235.5 Setup'. The main heading is 'Port Selection' with the instruction 'Choose a port for the service.' Below this, it says 'Please choose a port.' and 'Port Number (1-65535):' followed by a text box containing '8080'. A red circle highlights the 'Test Port' button, which has a yellow warning icon next to it. A red arrow points from this button to the right. Below the button, it says 'Click 'Test Port' but...'. At the bottom, there are three buttons: 'Back', 'Next', and 'Cancel'. A red circle highlights the 'Next' button. At the bottom left, there is a red circle with the number '2'.



This is a smaller version of the 'Port Selection' window, showing the 'Test Port' button with a green checkmark next to it, indicating that the port is available.

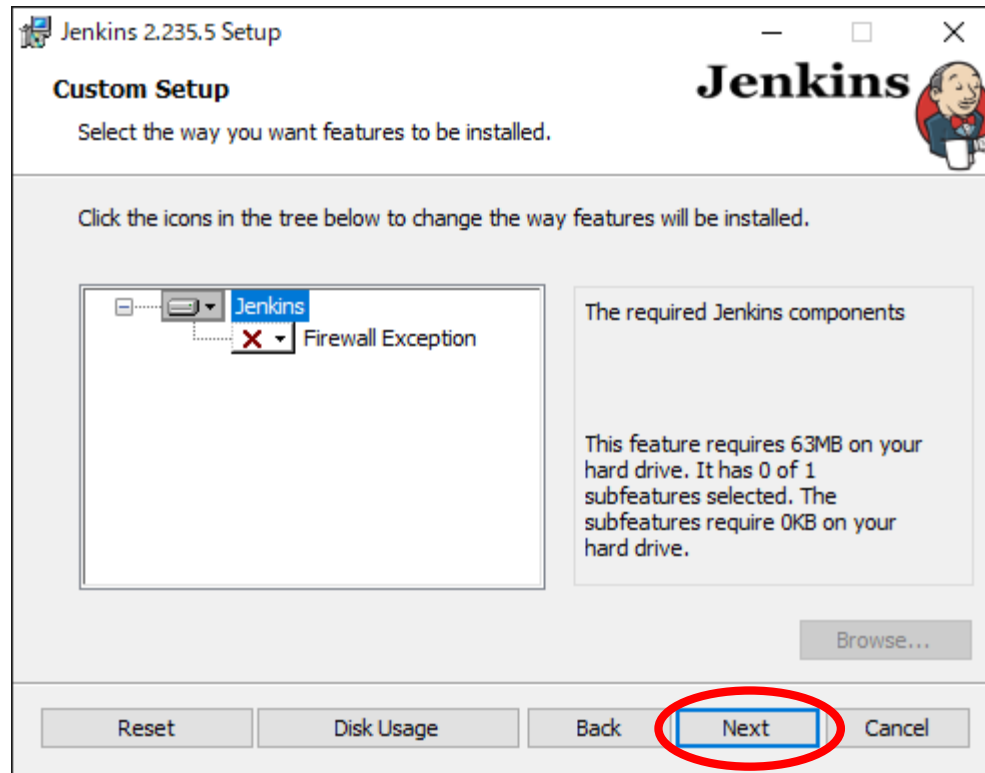
↑
チェックがつけばOK
②を押す

Jenkinsのインストール⑤

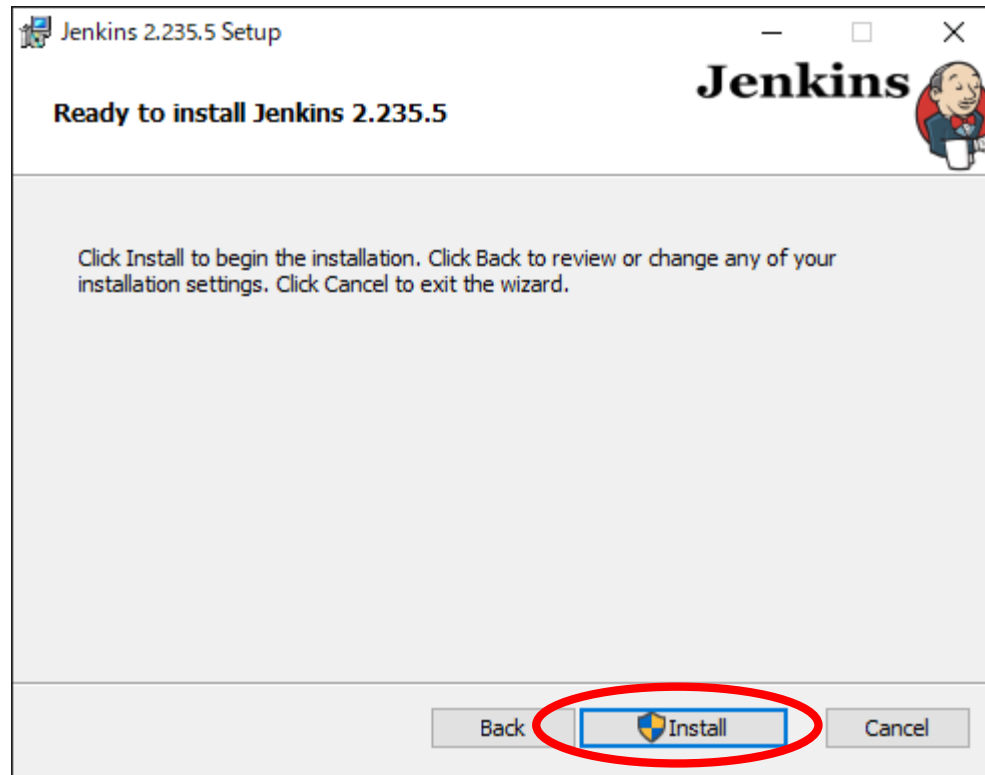


先程インストールしたJDKを選択

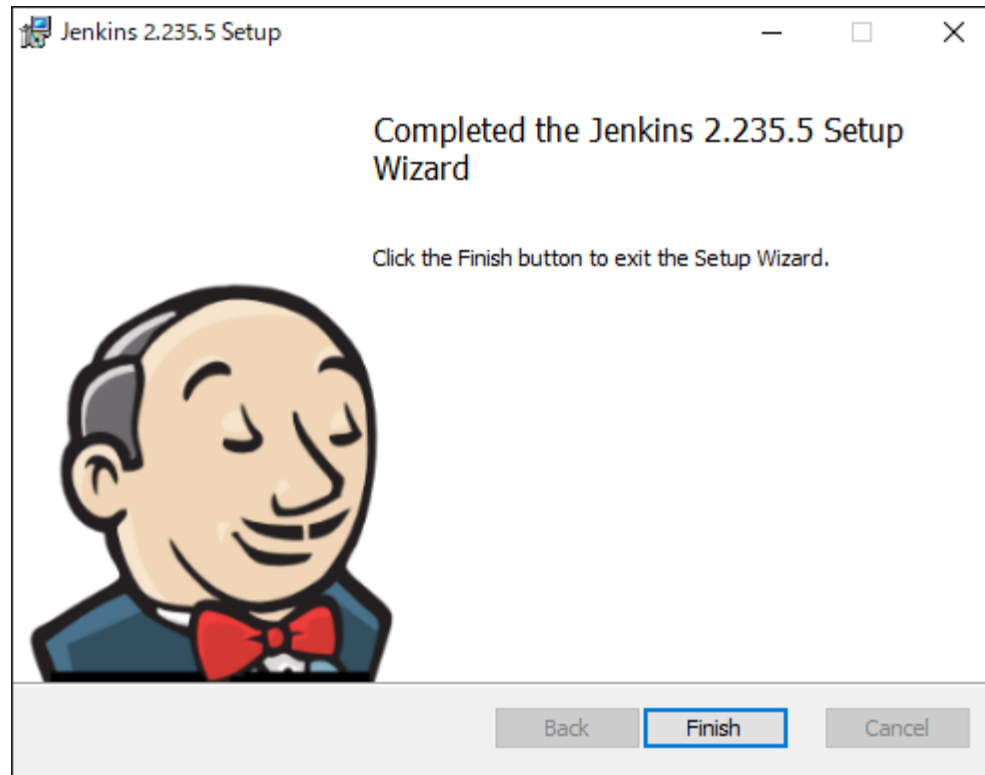
Jenkinsのインストール⑥



Jenkinsのインストール⑦



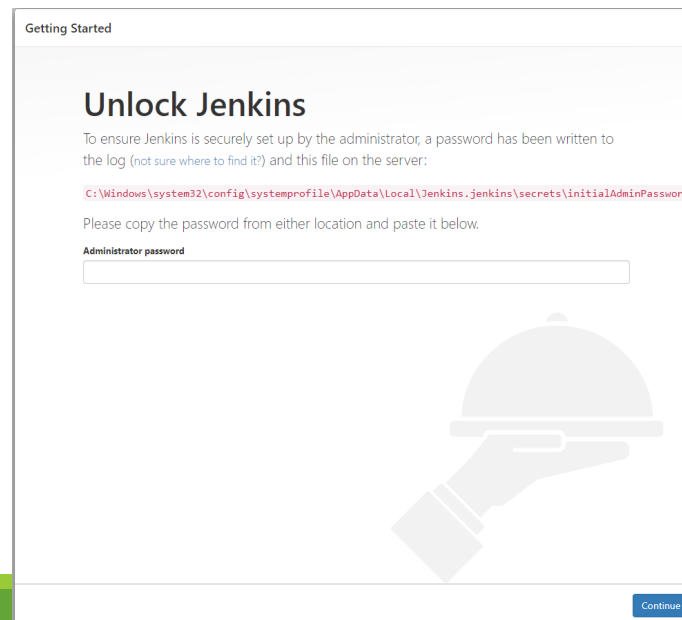
Jenkinsのインストール⑧



Jenkinsの初期設定①

ここからChromeの画面

インストール終了後、勝手に開く。
開かない場合は、Jenkinsのインストール④
で指定したURL (localhost:8080) にアクセス



Jenkinsの初期設定②

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`C:\Windows\system32\config\systemprofile\AppData\Local\Jenkins.jenkins\secrets\initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

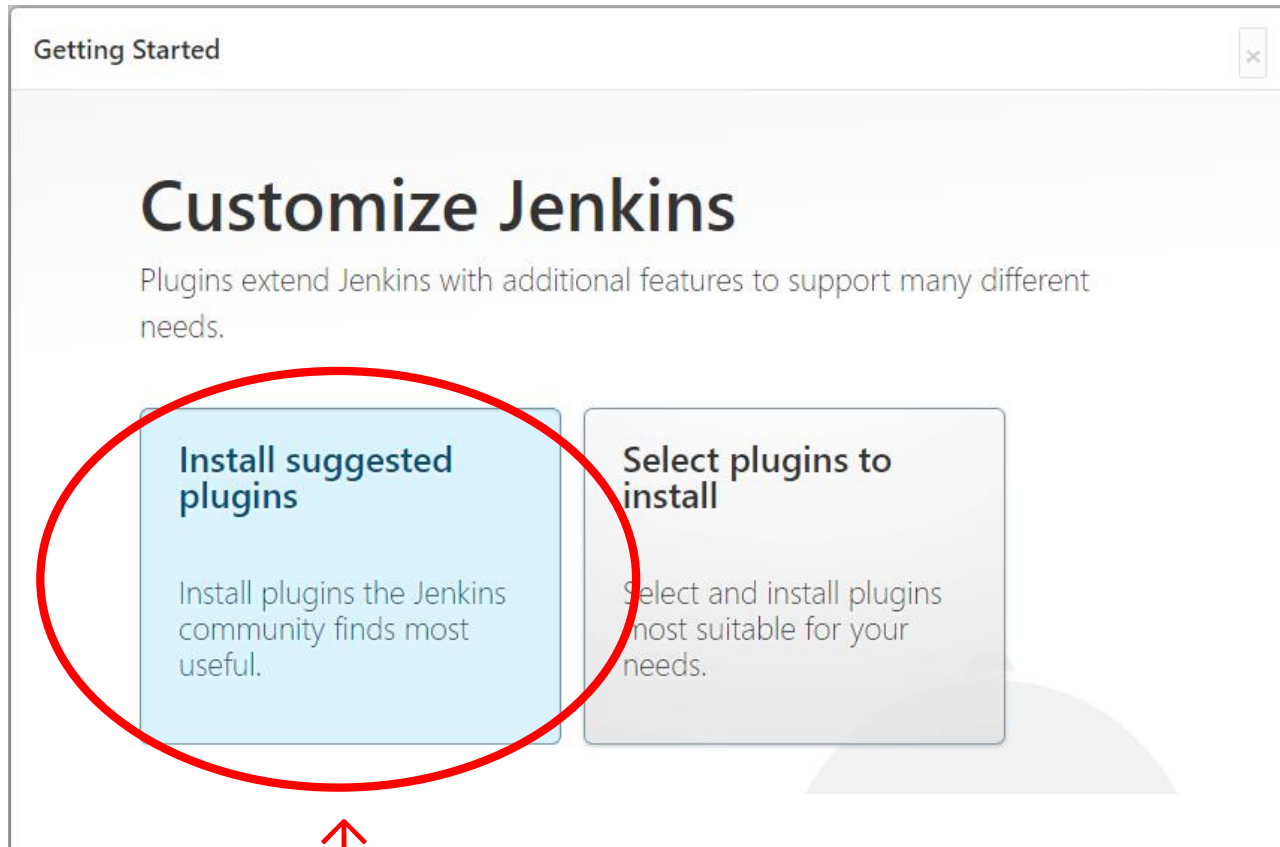
Continue

↑

○のファイルを 必ずメモ帳 で開き、
書かれているコードを入力

※ファイルが開けない場合
PCを再起動し、再インストールしてください。

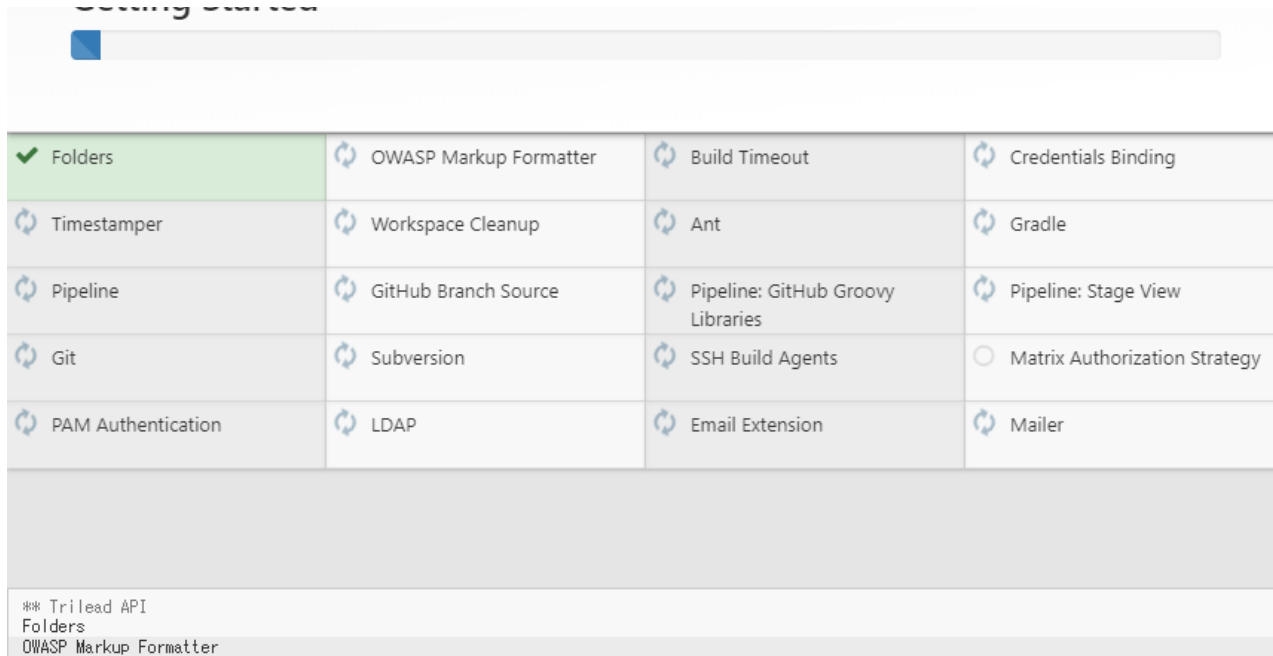
Jenkinsの初期設定③



↑
デフォルトのプラグインをインストールする

Jenkinsの初期設定④

いろいろインストールされる。待つ。
失敗するときがあるが、完了したら次に進みましょう！



| | | | |
|--------------------|------------------------|-----------------------------------|-------------------------------|
| ✓ Folders | OWASP Markup Formatter | Build Timeout | Credentials Binding |
| Timestampers | Workspace Cleanup | Ant | Gradle |
| Pipeline | GitHub Branch Source | Pipeline: GitHub Groovy Libraries | Pipeline: Stage View |
| Git | Subversion | SSH Build Agents | Matrix Authorization Strategy |
| PAM Authentication | LDAP | Email Extension | Mailer |

*** Trilead API
Folders
OWASP Markup Formatter

Jenkinsの初期設定⑤

ユーザ情報の入力

Create First Admin User

ユーザー名:

パスワード:

パスワードの確認:

フルネーム:

メールアドレス:

Jenkinsの初期設定⑥

JenkinsのURLを指定
後で変更が可能。このままでOK。

Instance Configuration

Jenkins URL:

http://localhost:8080/

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.

完了！

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins

ダッシュボード

この画面が出れば完了です！

The screenshot shows the Jenkins dashboard interface. At the top, there's a black header with the Jenkins logo on the left, a search bar with the text '検索' (Search), a help icon, a user icon, and a 'ログアウト' (Logout) button. Below the header is a light gray bar with the text 'Jenkins' and a right arrow. On the left side, there's a sidebar with several links: '新規ジョブ作成' (Create new job), '開発者' (Developer), 'ビルド履歴' (Build history), 'Jenkinsの管理' (Manage Jenkins), 'My Views', 'Lockable Resources', and 'New View'. The main content area has a large heading 'Jenkinsへようこそ！' (Welcome to Jenkins!). Below this heading, there are two light blue boxes. The first box contains the text 'Create an agent or configure a cloud to set up distributed builds. [Learn more.](#)'. The second box contains the text '新しいジョブを作成してください。' (Please create a new job.). On the right side of the main content area, there's a link '説明を記入' (Add description). At the bottom left, there are two expandable sections. The first section is titled 'ビルドキュー' (Build queue) and shows 'ビルド待ち' (Build waiting). The second section is titled 'ビルド実行状態' (Build execution status) and shows a list of two items, both labeled '1 待機中' (1 Waiting) and '2 待機中' (2 Waiting).

Jenkins

検索

ログアウト

Jenkins

新規ジョブ作成

開発者

ビルド履歴

Jenkinsの管理

My Views

Lockable Resources

New View

Jenkinsへようこそ！

Create an agent or configure a cloud to set up distributed builds. [Learn more.](#)

新しいジョブを作成してください。

説明を記入

ビルドキュー

ビルド待ち

ビルド実行状態

1 待機中

2 待機中

インストール終了です！

インストール作業をお疲れ様でした。
研究会でお会いしましょう！