

Build User Manual



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| Project Name |  |

●Revision history

| See. | Changes, reasons, and contents | Publication date | Approver  Date of approval | Verifier  Confirmation date | author  Date of creation |
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# At first

## purpose

## Scope of application

Applies to CI pipelines that:

* run on GitHub Actions,
* use JFrog CLI with OIDC
* publish build-info for traceability

## acronym

abbreviations and content used in the manual.

|  |  |
| --- | --- |
| acronym | substance |
| OIDC | OpenID Connect |
| CLI | Command-Line Interface |
| Command-Line Interface | Access Control List |

# Build Work Process Overview

The build work process is outlined below.

1. Plan: define artifact naming, versioning, repository layout, retention, and promotion strategy.

2. Build: compile/package artifacts and generate metadata (test reports, SBOM if applicable).

3. Scan: optional security/SCA scan (Xray) and policy gate.

4. Publish: upload artifacts via file-spec; publish build-info with env and VCS data.

5. Verify: validate upload targets, properties, and build-info integrity.

6. Promote: move/copy build by build-info to QA/Release repos; avoid path rewrites when possible.

7. Retain & Govern: apply immutability, retention policies, and access controls.

8. Consume: downstream jobs fetch artifacts by build-info, version or properties.

# Preparation

The following is a detailed description of the preliminary preparations required to implement the build (requirements, pre-settings, and pre-work).

## Necessary items

The following information about the requirements for the implementation of the build.

* GitHub repository access to configure Actions and Variables.
* JFrog Artifactory URL (e.g., https://.jfrog.io) and project/repository keys.
* Established GitHub↔JFrog OIDC integration (provider name and audience).

Table ‑

|  |  |  |
| --- | --- | --- |
| Name of Necessary Items | purpose | remarks |
|  |  |  |
|  |  |  |
|  |  |  |

## Preset

The pre-configuration required to perform the build is shown below.

## Preliminary work

The preliminary work required to implement the build is shown below.

# Build Settings

The build configuration details are listed below.

## Build Setup Instructions

The following describes how to configure the compiler, link options, flags, executable file names, source files, object files, and build rule settings.

# Build Execution

Details about running a build are shown below.

## Build execution procedure

The build steps are shown below.

## Instructions for using build scripts

The following are the steps to use the build script:

# Check build results, output steps

The following is a detailed description of the build results and output procedures.

## Check build results, output steps

The following is how to check the build results and output procedures.

# Build environment directory configuration

The following is a detailed description of the directory configuration of the build environment.

## Build Environment Directory Configuration Description

The directory configuration of the build environment is shown below.

\*Regarding directory composition,

Table ‑

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Folder hierarchy | | | | | explanation |
| Tier 1 | Tier 2 | 3 tiers | 4th floor | 5 floors |
| AAAA |  |  |  |  |  |
|  | BBBB |  |  |  |  |
|  |  | CCCC |  |  |  |
|  |  |  | DDDD |  |  |
|  |  |  |  | 1111.xx |  |
|  |  |  |  | 2222.xx |  |
|  |  |  |  |  |  |

(Legend)

|  |
| --- |
| Directory name |
| File name |

# Issues and precautions

Regarding the series of work of the build, the issues and precautions are described below.

Table ‑

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Assignment/Notes Title | Issues/Precautions Details | Necessary measures | remarks |
|  |  |  |  |  |

# References

## related document

|  |  |  |
| --- | --- | --- |
| No. | Document Name | substance |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |