

Build Operation

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Discussion

A Build Operation transforms identified inputs according to an identified set of build instructions and produces one or more output [Artifacts](#) or a recorded failure result.

Build inputs can include:

- Source content
- An identified [Git](#) repository state
- [Declarative Configuration](#)
- Dependencies
- Build parameters
- Build instructions
- Tool definitions
- Environment definitions

Build outputs can include:

- Executable software
- Libraries
- Packages
- Container Images
- Machine Images
- Configuration Artifacts
- Deployment Artifacts
- Build metadata
- Build logs
- Build status

A Build Operation identifies the inputs, instructions, execution result, and resulting Artifacts sufficiently to distinguish one build execution from another.

Within Crucible documentation, a Build Operation can execute manually or as part of an automated [Workflow](#) or [CI/CD Pipeline](#).

Definition

operation that transforms identified inputs according to identified build instructions and produces one or more output Artifacts or a recorded failure result

Source

DIDO-controlled term adapted from established software build, configuration-management, and CI/CD practices.

Note

A Build Operation is an execution, not merely a build definition.

A build definition specifies how a Build Operation is performed. A Build Operation applies that definition to identified inputs.

A Build Operation does not necessarily compile source code. It can assemble, package, transform, generate, or otherwise produce an Artifact.

A successful Build Operation produces the required output Artifacts. An unsuccessful Build Operation produces an identifiable failure result.

Example

Crucible executes a Build Operation using an identified Git commit, build instructions, dependency set, and build environment. The operation produces a Container Image, build metadata, and an observable completion status.

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