

Dependency

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Discussion

A Dependency is an entity, resource, service, condition, or capability that another entity relies on to perform a defined function, complete a process, or satisfy a requirement.

A Dependency may include software, packages, libraries, installation media, repositories, machine images, container images, provider plugins, infrastructure services, tools, credentials, configuration, information, or external operational capabilities.

Dependencies may apply during build, deployment, execution, assessment, maintenance, or recovery. The applicable lifecycle context determines when and why the dependency is required.

Within Crucible, dependency management identifies, captures, records, transfers, and reconstructs the inputs required to build and maintain environments in connected and disconnected operating contexts.

Definition

entity, resource, service, condition, or capability on which another entity relies to perform a defined function, complete a process, or satisfy a requirement

Source

Generalized from systems engineering, software engineering, dependency management, infrastructure automation, and supply-chain usage and specialized for the Crucible architecture and operational model.

Note

A Dependency is not limited to software libraries or packages. It may be technical, informational, operational, organizational, or environmental.

A Dependency may itself rely on other Dependencies, forming a dependency relationship or dependency chain that requires separate identification and control.

Example

A Crucible Image Build depends on a [Red Hat Enterprise Linux \(RHEL\) 9](#) installation medium, package repositories, Packer, Ansible collections, compliance content, and the tools required to create and inspect the resulting Machine Image.

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