

Crucible

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The Objective of Crucible

Crucible provides a controlled, reproducible, and portable approach for constructing, hardening, assessing, transferring, deploying, and maintaining software and infrastructure environments. Crucible uses [Declarative Descriptions](#), composable baselines, [Machine Images](#), [Infrastructure as Code \(IaC\)](#), dependency capture, and [Compliance Evidence](#) to support [Accredited Software Factory](#) objectives across [Connected](#), [Disconnected](#), and [Air-Gapped Environments](#). The architecture separates provider-independent intent from provider-specific implementation, preserves [Traceability](#) and provenance across lifecycle stages, and supports [Reproducibility](#) and [Portability](#) without depending on a single cloud provider, infrastructure platform, or assessment tool.

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