

Crucible

[Go to General Topics](#)

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.

Table of Contents

- [Table of Contents](#)
- [1. Introduction](#)
- [2. Operational Need and Mission](#)
- [3. Operational Environment](#)
- [4. Actors and Responsibilities](#)
- [5. Operational Concept](#)
- [6. Connected Operations](#)
- [7. Disconnected and Air-Gapped Operations](#)
- [8. Compliance Operations](#)
- [9. Crucible Interfaces](#)
- [Annexes](#)

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Table of Contents

- [1 Introduction](#)
 - [1.1 Purpose](#)
 - [1.2 Scope](#)
 - [1.3 Intended Audience](#)
 - [1.4 How to Use This Wiki](#)
 - [1.5 Document Conventions](#)
- [17 Annexes](#)
 - [Annex A Acronyms and Abbreviations](#)

- [Annex B Terms and Definitions](#)
- [Annex C Supported Operating Systems and Architectures](#)
- [Annex D Provider Capability Matrix](#)
- [Annex E Compliance Artifact Matrix](#)
- [Annex F External Toolchain](#)
- [Annex G Requirements Traceability](#)
- [Annex H Architecture Decision Record Index](#)
- [Annex I Example Crucible Description](#)
- [Annex J Example End-to-End Workflow](#)
- [Annex K Repository and Workspace Structure](#)
- [Annex L References](#)

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- [Annexes](#)
-

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