

# Offline Reconstitution

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## Discussion

Offline Reconstitution is the controlled process of recreating the repositories, services, dependencies, configuration, and operational resources required to build, deploy, maintain, or recover systems within a [Disconnected Environment](#).

The process uses transferred content to restore the local capabilities that the environment cannot obtain directly from external systems, services, repositories, or providers.

Offline Reconstitution may create or populate an [Offline Repository](#), [Container Mirror](#), [Provider Mirror](#), source repository, image catalog, compliance-content store, or other local service.

Within Crucible, Offline Reconstitution imports a [Transfer Bundle](#) and uses its artifacts, manifests, integrity information, and supporting records to establish the local resources required for continued operation.

## Definition

*controlled process of recreating the repositories, services, dependencies, configuration, and operational resources required for continued operation within a disconnected environment*

## Source

Generalized from disconnected operations, disaster recovery, repository restoration, software supply-chain management, and infrastructure automation and specialized for the Crucible architecture and operational model.

## Note

Offline Reconstitution differs from copying a Transfer Bundle into an environment. Reconstitution organizes, verifies, imports, registers, and exposes the transferred content through the local mechanisms required by build, deployment, and maintenance processes.

The process should preserve the identities, versions, integrity information, provenance, and relationships recorded for the transferred content.

## Example

An air-gapped enclave imports a Transfer Bundle and uses it to populate a [Red Hat Enterprise Linux \(RHEL\)](#) 9 package repository, Container Mirror, Provider Mirror, infrastructure source repository, and compliance-content store.

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