

# Deployment

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## Discussion

Deployment is the controlled process of placing, configuring, integrating, verifying, and making a system, service, software artifact, [Machine Image](#), or infrastructure capability available within a [Target Environment](#).

The process may include resource creation, artifact transfer, installation, configuration, service activation, dependency resolution, verification, registration, and operational handover.

Deployment differs from an [Image Build](#). An Image Build produces a Machine Image, while Deployment places or realizes an artifact or capability in a Target Environment.

[Infrastructure Deployment](#) is a specialized Deployment that realizes infrastructure resources from an Infrastructure Definition.

## Definition

*controlled process of placing, configuring, integrating, verifying, and making a system, service, software artifact, machine image, or infrastructure capability available within a target environment*

## Source

Generalized from software engineering, systems engineering, release management, platform engineering, and infrastructure automation usage and specialized for the Crucible architecture and operational model.

## Note

Deployment does not necessarily imply release to production or approval for operational use. A Deployment may target development, test, staging, production, recovery, connected, disconnected, or air-gapped environments.

A successful Deployment does not by itself establish compliance, accreditation, or [Operational Approval](#).

## Example

Crucible uploads a verified Machine Image, creates the required infrastructure, configures [Kubernetes](#) services, verifies node status, and makes the resulting cluster available in the selected Target Environment.

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