

Image Requirement

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Discussion

An Image Requirement is a machine-processable statement that identifies a characteristic a [Machine Image](#) must possess for a defined build, deployment, workload, or operating context.

An Image Requirement may identify an operating-system family and version, processor architecture, capability, security posture, compliance profile, source revision, integrity value, provider compatibility, lifecycle status, or other selection criterion.

Infrastructure can declare Image Requirements without identifying a specific Machine Image. An image-selection process compares those requirements with the characteristics recorded for available images.

Within Crucible, Image Requirements support separation between an [Infrastructure Baseline](#) and the Machine Images that may satisfy it.

Definition

machine-processable statement that identifies a characteristic a [machine image](#) must possess for a defined build, deployment, workload, or operating context

Source

Generalized from requirements engineering, machine-image management, infrastructure automation, and artifact-selection usage and specialized for the Crucible architecture and operational model.

Note

An Image Requirement identifies a required characteristic rather than a specific image unless the requirement explicitly identifies one.

Several Machine Images may satisfy the same set of Image Requirements. A single Machine Image may satisfy the requirements of several deployments.

Example

An Infrastructure Baseline declares Image Requirements for a [Red Hat Enterprise Linux \(RHEL\) 9](#) AArch64 image with Kubernetes capability, an approved STIG compliance profile, and a verified integrity value.

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