

Capability Image

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Discussion

A Capability Image is a [Machine Image](#) that extends another image by adding a defined operational, platform, service, or workload capability.

The added capability may include software packages, runtime services, configuration, policies, agents, orchestration components, monitoring tools, or workload-specific dependencies.

A Capability Image preserves the inherited foundation of its source image while adding the elements needed for a particular role.

Within Crucible, a Capability Image may build on a [Hardened Image](#) so that workload-specific functionality does not replace the shared operating-system and security foundation.

Definition

[machine image](#) that extends another image by adding a defined operational, platform, service, or workload capability

Source

Generalized from layered-image, golden-image, virtual-appliance, platform-engineering, and machine-image usage and specialized for the Crucible architecture and operational model.

Note

A Capability Image identifies a realized image artefact. A [Capability Layer](#) identifies the controlled set of changes used to add the capability.

A Capability Image may provide one capability or a compatible combination of capabilities.

Example

Crucible adds Kubernetes packages, container-runtime services, node configuration, and cluster-management components to a Hardened Image. The resulting Capability Image supports deployment as a Kubernetes control-plane or worker node.

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