

Deployment Description

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Discussion

A Deployment Description is a machine-processable specification of the artifacts, resources, relationships, constraints, configuration, and lifecycle operations required for a [Deployment](#).

The description may identify the [Target Environment](#), [Deployment Platform](#), [Machine Images](#), infrastructure requirements, providers, dependencies, compliance expectations, provisioning content, verification activities, and teardown behavior.

A Deployment Description states the intended deployment configuration and relationships without necessarily prescribing every provider-specific command used to realize them.

Within Crucible, a [Crucible Description](#) may include or reference the information required to form a Deployment Description.

Definition

machine-processable specification of the artifacts, resources, relationships, constraints, configuration, and lifecycle operations required for a [deployment](#)

Source

Generalized from deployment automation, Infrastructure as Code, platform engineering, and configuration-management usage and specialized for the Crucible architecture and operational model.

Note

A Deployment Description differs from deployed state. The description specifies the intended deployment, while the deployed state records or represents the realized resources and configuration.

A Deployment Description may remain provider-independent when provider-specific details are supplied through a [Provider Plugin](#) or controlled profile.

Example

A Deployment Description identifies a verified [Red Hat Enterprise Linux \(RHEL\) 9](#) [Kubernetes](#) image,

three compute nodes, network requirements, storage, security controls, an Oracle Cloud Infrastructure provider, and post-deployment verification steps.

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