

Deployment Target

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Discussion

A Deployment Target identifies a specific configured destination to which a [Deployment](#) can deliver an [Infrastructure Environment](#).

A Deployment Target represents a concrete destination rather than a general technology, vendor, infrastructure category, or [Deployment Platform](#).

For example:

- [Amazon Web Services \(AWS\)](#) identifies a Deployment Platform
- An identified AWS account, region, virtual private cloud, subnet set, resource boundary, and authorization context can constitute a Deployment Target
- [Microsoft Azure](#) identifies a Deployment Platform
- An identified Azure tenant, subscription, region, resource group, network boundary, and authorization context can constitute a Deployment Target
- [Google Cloud Platform](#) identifies a Deployment Platform
- An identified Google Cloud organization, project, region, network boundary, resource boundary, and authorization context can constitute a Deployment Target
- [VMware vSphere](#) identifies a Deployment Platform
- An identified vCenter instance, data center, cluster, resource pool, datastore set, network set, and authorization context can constitute a Deployment Target
- [Red Hat OpenShift Container Platform](#) identifies a Deployment Platform
- An identified OpenShift cluster, project or namespace boundary, resource quota, network boundary, and authorization context can constitute a Deployment Target
- [Bare-Metal Infrastructure](#) identifies an infrastructure category that can provide a Deployment Platform
- An identified set of physical servers, networks, storage resources, management interfaces, and authorization boundaries can constitute a Deployment Target

A Deployment Target forms part of a [Target Environment](#).

The Target Environment identifies the broader organizational, operational, security, compliance, connectivity, and physical context. The Deployment Target identifies the specific configured destination within that context to which the Deployment applies.

A Deployment Target can exist within a:

- [Connected Environment](#)
- [Disconnected Environment](#)
- [Air-Gapped Environment](#)

A Deployment Target record can identify:

- A unique Deployment Target identifier

- A human-readable name
- A description
- The [Deployment Platform](#)
- The platform, cloud, or infrastructure operator
- The Provider Implementation
- The account, tenant, subscription, project, cluster, site, or organizational boundary
- The geographic region, availability zone, facility, or physical location
- The network boundary
- The compute-resource boundary
- The storage-resource boundary
- The operational environment
- The connectivity classification
- The security classification
- The compliance profile
- The supported processor architectures
- The supported operating systems
- The supported [Machine Images](#)
- The supported [Infrastructure Baselines](#)
- The supported [Deployment Operations](#)
- The supported [Deployment Validation](#) capabilities
- The supported [Deployment Rollback](#) capabilities
- The authorized [Dependency Stores](#)
- The authorized Artifact repositories
- The authorized external resources
- The credential or authorization reference
- The responsible owner or authority
- The approval status
- The availability status
- The lifecycle status
- The effective date
- The review or expiration date
- The associated [Provenance](#)
- The associated [Traceability](#)

A [Deployment Description](#) identifies the requirements of a proposed Deployment. A Deployment Target identifies the destination whose recorded capabilities, constraints, authorization, and status can be evaluated against those requirements.

A [Deployment Target Catalog](#) records the Deployment Targets available for discovery, evaluation, and selection.

Definition

specific configured destination, identified by its Deployment Platform, resource boundaries, operating conditions, and authorization context, to which a Deployment can deliver an Infrastructure Environment

Source

- Dido Solutions, Crucible architecture and requirements terminology
- [Deployment](#)
- [Deployment Description](#)
- [Deployment Platform](#)
- [Target Environment](#)

Note

A Deployment Platform identifies a platform type or technology. A Deployment Target identifies a specific configured destination that uses that Deployment Platform.

Multiple Deployment Targets can use the same Deployment Platform.

A Deployment Target can use more than one platform layer. For example, an OpenShift Deployment Target can use Amazon Web Services, Microsoft Azure, Google Cloud Platform, VMware vSphere, or Bare-Metal Infrastructure as its underlying platform.

A Deployment Target does not identify the [Infrastructure Environment](#) deployed to it:

- The Deployment Target identifies the destination
- The Deployment Description identifies the Deployment requirements
- The Deployment creates or changes the Infrastructure Environment

The presence of a Deployment Target in a Deployment Target Catalog does not by itself authorize its use. The Deployment Target record identifies its approval, availability, lifecycle, security, and compliance status.

A Deployment Target should reference an authorized credential-management mechanism rather than contain reusable credentials, private keys, passwords, or access tokens directly.

Example

An AWS Deployment Target identifies:

- A Deployment Target identifier
- [Amazon Web Services \(AWS\)](#) as the Deployment Platform
- An AWS account
- An AWS region
- A virtual private cloud
- The permitted subnets
- The permitted availability zones
- The compute- and storage-resource boundaries
- The identity role used for Deployment
- The authorized [Dependency Stores](#)
- The authorized Artifact repositories
- The supported Machine Images

- The supported Infrastructure Baselines
- The security and compliance constraints
- The Provider Implementation
- The approval and availability status
- The responsible authority

Crucible compares a Deployment Description with the recorded capabilities and constraints of the Deployment Target before performing the Deployment.

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