

Deployment Target

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Discussion

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

A Deployment Target represents a concrete deployment destination rather than a general technology, vendor, or platform category.

For example:

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

A Deployment Target can operate within a:

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

A Deployment Target can identify:

- The Deployment Platform
- The Cloud Provider or infrastructure operator
- The account, tenant, subscription, project, or organizational boundary
- The geographic region, site, facility, or zone
- The network boundary
- The compute-resource boundary
- The storage-resource boundary

- The security classification
- The compliance profile
- The operational environment
- The Provider Implementation
- The credentials or authorization mechanism
- The authorized repositories and external resources
- The Deployment Target status

Definition

specific destination, identified by its platform and deployment boundaries, to which Crucible can deploy an Infrastructure Environment

Source

- Dido Solutions, Crucible architecture and requirements terminology

Note

A Deployment Platform identifies the technology or platform type used for deployment. 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 does not identify the Infrastructure Environment deployed to it. The Deployment Target identifies the destination. The Infrastructure Environment identifies the deployed and managed realization.

A Deployment Target can expose only the resources and capabilities authorized for its operational environment.

Example

An AWS Deployment Target identifies:

- The AWS account
- The AWS region
- The virtual private cloud
- The permitted subnets
- The permitted availability zones
- The identity role used by Crucible
- The authorized Artifact repositories
- The security and compliance constraints
- The Provider Implementation used for deployment

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https://wiki.didosolutions.com/dido/99_annexes/annex-b-terms-and-definitions/d/deployment_target?rev=1784750554

Last update: **2026/07/22 13:02**

