

Deployment Rollback

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Discussion

Deployment Rollback is a [Rollback](#) that reverses the effects of an identified deployment by restoring the affected deployment subject to its identified predeployment state.

A Deployment Rollback may apply to:

- [Infrastructure Resources](#)
- [Virtual Machines](#)
- [Kubernetes Clusters](#)
- [Containerized Workloads](#)
- [Platform Services](#)
- Relationships among deployed subjects
- A resulting [Infrastructure Environment](#)

The predeployment state may be identified through:

- A deployment record
- A prior [Baseline](#)
- A prior [Revision](#)
- A prior [Infrastructure Configuration](#)
- A prior [Image](#)
- A checkpoint
- Another recorded valid state

Deployment Rollback differs from deployment cancellation:

- Deployment cancellation stops a deployment before completion
- Deployment Rollback reverses the effects already produced by a deployment

Deployment Rollback differs from deployment retry:

- Deployment Rollback restores the predeployment state
- Deployment retry performs the deployment operation again

Deployment Rollback may precede a corrected deployment or another recovery operation.

Definition

[rollback](#) that reverses the effects of an identified deployment by restoring the affected deployment subject to its identified predeployment state

Source

Dido Solutions, Inc. and Jackrabbit Consulting, Inc.

Note

Deployment Rollback does not imply that every deployment effect can be reversed.

Applicable requirements should identify:

- The deployment subject
- The deployment is being reversed
- The predeployment state
- The rollback initiation condition
- The effects included in the rollback
- Effects excluded from the rollback
- The required rollback result
- The generated [Evidence](#)

A Deployment Rollback may require separate handling for:

- Persistent data
- External services
- Credentials
- Messages
- Transactions
- Provider-managed resources
- Changes performed outside the deployment boundary

Example

A deployment replaces a Containerized Workload with an unacceptable Revision. Crucible performs Deployment Rollback by removing the new workload Revision and restoring the workload configuration and Image used immediately before the deployment.

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https://wiki.didosolutions.com/dido/99_annexes/annex-b-terms-and-definitions/d/deployment_rollback

Last update: **2026/07/17 10:08**



