

Edge Deployment

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Discussion

An Edge Deployment is an [Infrastructure Deployment](#) that deploys one or more identified deployment subjects to an [Edge Environment](#).

Deployment subjects may include:

- [Infrastructure Resources](#)
- [Virtual Machines](#)
- [Kubernetes Clusters](#)
- [Containerized Workloads](#)
- [Platform Services](#)
- Configuration
- Security controls
- Monitoring capabilities
- Operational data

An Edge Deployment may need to account for:

- Limited network bandwidth
- Intermittent connectivity
- Restricted external connectivity
- Limited computing capacity
- Limited storage capacity
- Local security controls
- Physical access constraints
- Local operational authority
- Dependency availability
- Local update and rollback procedures

An Edge Deployment differs from a cloud deployment:

- An Edge Deployment targets an Edge Environment
- A cloud deployment targets an Infrastructure Environment supplied through cloud capabilities

An Edge Deployment may also form part of a Hybrid-Cloud Deployment when related deployment subjects operate across cloud and Edge Environments.

An Edge Deployment does not necessarily imply disconnected or air-gapped operation.

Definition

[infrastructure deployment](#) that deploys one or more identified deployment subjects to an [Edge](#)

Environment

Source

Dido Solutions, Inc. and Jackrabbit Consulting, Inc.

Note

The applicable deployment specification should identify:

- The target Edge Environment
- The deployment subjects
- The applicable environment constraints
- Required dependencies
- Required configuration
- Applicable [Acceptance Criteria](#)
- Required deployment validation
- Required rollback behavior

The term does not prescribe a device class, edge platform, orchestration technology, provider, network architecture, or connectivity model.

Example

Crucible performs an Edge Deployment by deploying a Containerized Workload, its configuration, and required Platform Services to an Edge Environment located within a remote industrial facility.

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