

C.3.3 Deployment Orchestration

[Go to Crucible Functional Requirements](#)

The Deployment Orchestration [requirements](#) define how [Crucible](#) deploys infrastructure resources, virtual machines, Kubernetes clusters, containerized workloads, and platform services and performs deployment rollback and [Deployment Validation](#).

Together, these requirements establish coordinated [Infrastructure Deployment](#) and [Platform Deployment](#) behavior that contributes to repeatable deployment results, operational recovery, and [Traceability](#).

Contents

- [FR-DEP-001 — Deploy Infrastructure Resources](#)
- [FR-DEP-002 — Deploy Virtual Machines](#)
- [FR-DEP-003 — Deploy Kubernetes Clusters](#)
- [FR-DEP-004 — Deploy Containerized Workloads](#)
- [FR-DEP-005 — Deploy Platform Services](#)
- [FR-DEP-006 — Deployment Rollback](#)
- [FR-DEP-007 — Deployment Validation](#)

Notes for Editors

The individual requirement pages should retain the stable identifiers FR-DEP-001 through FR-DEP-007.

Individual requirement pages are leaf nodes and should not include a trailing `:start` in their namespaces.

The Source Statement on each requirement page should preserve the original wording from the controlling System Requirements Specification.

Normalized Statements should use direct, testable behavior and should identify the applicable deployment subject, [Controlled Inputs](#), operation, and required result.

Verification criteria should test only the behavior stated in the normalized Statement and should not introduce additional normative obligations.

Incoming [Traceability](#) should use the wiki Backlinks function rather than a manually maintained list.

To reference a requirement Statement from another wiki page, insert:

```
{{section><namespace>#Statement&noheader&nofooter&noeditbtn}}
```

Replace `<namespace>` with the namespace of the requirement leaf page.

The section name following # SHALL match the section heading verbatim on the requirement page.

Do not rename a requirement page after an external citation unless a redirect or move plan is in place.

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