

Orchestration

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Discussion

Orchestration is the coordinated control of multiple tools, services, processes, resources, or lifecycle activities to produce a defined result.

An orchestration process determines the sequence, dependencies, inputs, outputs, conditions, error handling, and handoffs among participating components.

Orchestration differs from executing a single tool or command. It coordinates several specialized mechanisms while preserving the relationships and controls required by the overall process.

Within Crucible, the Forge command-line utility orchestrates source retrieval, image building, compliance assessment, image upload, platform initialization, infrastructure deployment, provisioning, verification, evidence generation, and teardown.

Definition

coordinated control of multiple tools, services, processes, resources, or lifecycle activities to produce a defined result

Source

Generalized from distributed systems, workflow automation, cloud computing, platform engineering, and software-delivery usage and specialized for the Crucible architecture and operational model.

Note

Orchestration does not require a long-running central service. A command-line utility, pipeline engine, workflow system, or other controller may perform orchestration.

Orchestration coordinates participating mechanisms but does not replace their specialized functions or responsibilities.

Example

Crucible orchestrates Packer, QEMU, Ansible, OpenSCAP, OpenTofu, and provider tools to build, scan,

upload, deploy, verify, and remove a compliant platform.

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