

Cloud Environment

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Discussion

A Cloud Environment provides computing, storage, networking, platform, or application resources through remotely accessible, service-managed infrastructure.

The environment exposes resources through defined service interfaces, management mechanisms, provider contracts, or automation interfaces. Resources may be provisioned, changed, scaled, monitored, and removed through software-controlled operations.

A Cloud Environment may use public, private, community, sovereign, or other cloud deployment models. The term does not require the use of a public cloud provider.

Within the Crucible architecture, provider abstractions isolate cloud-specific behavior from core orchestration functions. This separation allows the same declarative description to target different Cloud Environments when compatible provider capabilities exist.

Definition

operating environment that provides remotely accessible, service-managed computing, storage, networking, platform, or application resources

Source

Generalized from cloud-computing, infrastructure-service, platform-service, and distributed-systems usage and specialized for the Crucible architecture and operational model.

Note

A Cloud Environment refers to the service-managed resource environment rather than to a specific provider, commercial offering, or deployment model.

A privately operated cloud may also form part of an [On-Premises Environment](#).

Example

A Crucible description targets an Oracle Cloud Infrastructure tenancy. The provider plugin creates

networking, compute, storage, and load-balancing resources within the selected Cloud Environment.

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