

Provider Plugin

[Go up to Terms and Definitions](#)

Discussion

A Provider Plugin is a software component that implements a [Provider Contract](#) for a particular [Provider](#) or class of Providers.

The plugin translates provider-independent requests into provider-specific interfaces, commands, data structures, authentication mechanisms, and lifecycle operations.

A Provider Plugin isolates provider-specific behavior from the core software. This separation allows the core to use a [Provider Abstraction](#) without importing or depending directly on provider-specific software development kits.

Within the Crucible architecture, Provider Plugins may support image conversion, upload, signing, verification, promotion, description, infrastructure initialization, deployment, and teardown operations.

Definition

software component that implements a [provider contract](#) for a particular [provider](#) or class of providers

Source

Generalized from plugin architecture, adapter, driver, provider-integration, and software-extension usage and specialized for the Crucible architecture and operational model.

Note

A Provider Plugin is not the Provider itself. The plugin represents and invokes Provider capabilities through the applicable Provider Contract.

A Provider Plugin may support only the capabilities available from its associated Provider. Unsupported capabilities remain explicit rather than being simulated within the core.

Example

An Oracle Cloud Infrastructure Provider Plugin translates Crucible image-upload and deployment

requests into the interfaces and command-line operations required by Oracle Cloud Infrastructure.

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Last update: **2026/07/13 11:11**

