



Snap Creator Agent 概述

Snap Creator Framework

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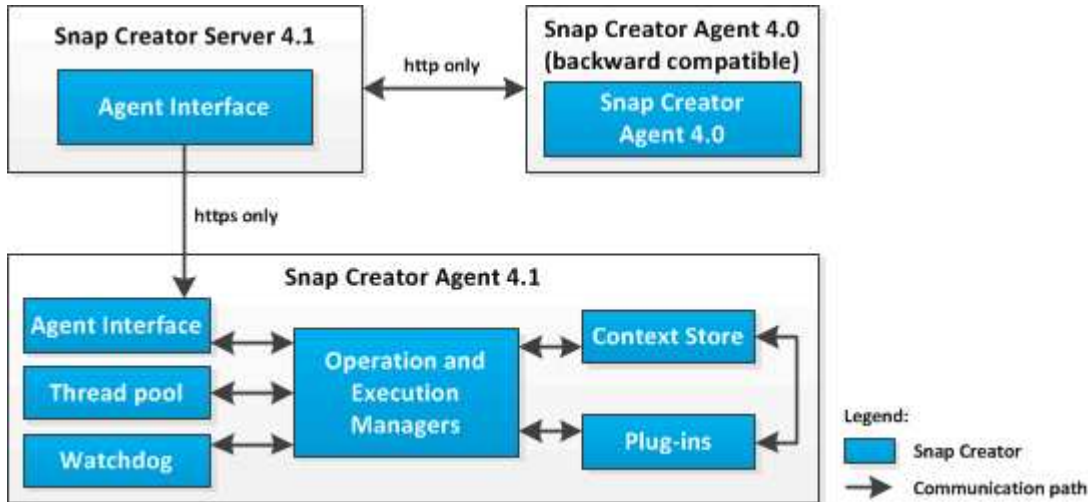
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Snap Creator 代理通常安装在安装应用程序或数据的同一主机上，用于管理从 Snap Creator 服务器到指定应用程序的静默和取消静默命令，并且是文件所在位置。有时，在 Snap Creator 中，Agent 会缩写为 scAgent。

Snap Creator 代理通过代理 RESTful 接口和 HTTPS 从 Snap Creator 服务器的代理接口接收通信。这意味着安全加密的通信，这是多租户和云环境中的一个非常重要的功能。自命名空间允许将生成的命名空间与 Snap Creator 代理组合使用。此外，Snap Creator 代理通过可配置的用户和密码组合进行保护，某些用户和密码组合存储在磁盘中。

下图展示了 Snap Creator 代理的架构：



Snap Creator Agent（有时在 Snap Creator 本身中缩写为 scAgent）组件包括以下部分：

- * 操作和执行管理器 *

Operation Manager 管理输入、输出和已完成的操作。执行管理器执行某些操作。

- * 线程池 *

线程池由辅助线程组成，用于执行多个任务。

将指定任意数量的并行操作数。执行管理器执行任务，并在线程池中的一个线程中执行任务。如果线程池包含八个线程，可以同时并行八个任务操作。新的输入操作将排队，直到线程重新可用为止。

- * 看门狗程序 *

在执行管理器某些操作触发的操作（通常是暂停）中，如果需要，此 watchdog 会在指定时间后回到执行管理器以停止操作，并进行相应的撤消操作。例如，看门狗程序暂停功能将应用程序置于暂停模式。watchdog 将开始监听。如果未在指定的时间窗口内执行静默，看门狗将取消应用程序的静默状态，使其恢复到正常操作模式。这是为了确保数据不会停留在暂停模式下。

- * 上下文存储 *

上下文存储可保存工作流生命周期内所需的所有信息，并根据需要为任务提供上下文对象，如果工作流失败或未完成，上下文对象将在一段时间后删除。

于未完成或在未定状态下的工作流，在 `install_path/etc/agent.properties`:
`context_lifec_in_msec=1800000`（默认为 30 分钟）中指定了最长上下文。如果增加此值，Snap Creator 代理将占用更多内存。

- * 组件工厂 *

组件出厂时会创建此组件，并确保其在隔离的空环境中运行。组件工厂会与上下文存储进行通信，以存储的信息。此外，可以使用组件集成引擎从 Snap Creator 运行基于 Perl 的组件和原生组件。

Snap Creator 代理可以使用以 Java 以外的语言写的组件。

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