





launchctl

Created by Josh Carullo

Description

launchetl can be used to load, start, stop, and unload macOS services. It is a command-line frontend to launchd.

| Created | Tactics | Tags |
|------------|------------------------------|-------------------|
| 2023-05-27 | Execution Persistence | bash zsh oneliner |

Paths

• /bin/launchctl

Use Cases

Use launchetl to execute an application

A oneliner that will load a plist as a LaunchAgent or LaunchDaemon, achieving persistence on a target machine. This command requires root privileges.

sudo launchctl load /Library/LaunchAgent/com.apple.installer

Persistent launch agent

Creation of a persistent launch agent called with \$HOME/Library/LaunchAgents/com.apple.updates.plist

launchctl load -w ~/Library/LaunchAgents/com.apple.updates.plist

Detections

- LaunchAgents and LaunchDaemons must have a plist file on disk in the root, system, or user
 Library directory. Monitoring for plist's with executables located in /tmp or /Shared could identify suspicious applications.
- Jamf Protect: Detect launched activity that unloads or bootsout specific service

Resources

- 20 Common Tools & Techniques used by macOS threat Actors & Malware
- Mitre Attack Technique: launchetl T1569
- MITRE ATT&CK T1543.001 Create or Modify System Process: Launch Agent
- Komplex OS X Trojan (Sofacy)