

# Behavior-chain, platform-aware detection strategy for T1129 Shared Modules, Detection Strategy DET0018

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## AN0052

A process (often LOLBin or user-launched program) loads a DLL from a user-writable/UNC/Temp path or unsigned/invalid signer. Within a short window the DLL is (a) newly written to disk, (b) spawned as follow-on execution (rundll32/regsvr32), or (c) establishes outbound C2.

### Log Sources

### Mutable Elements

Field	Description
TimeWindow	Correlation window between file write → module load → network (e.g., 0–20 minutes).
SuspiciousPathRegex	Regex for user-writable/UNC/temp paths to flag (e.g., %TEMP%, %APPDATA%, \\*\share\).
UnsignedOnly	Alert only when SignatureStatus != Valid to reduce noise.
RareSignerThreshold	Frequency threshold for unseen/rare signers in last N days.
MinFileSizeKB	Ignore tiny DLL stubs to cut noise.

## AN0053

A process loads a shared object (.so) via dlopen/LD\_PRELOAD/open from non-standard or temporary locations (e.g., /tmp, /dev/shm), especially shortly after that .so is written or fetched, or linked via manipulated environment variables (LD\_PRELOAD/LD\_LIBRARY\_PATH).

### Log Sources

### Mutable Elements

Field	Description
SuspiciousDirs	(/tmp, /dev/shm, /var/tmp, user home dirs) – adjust to your environment.
TimeWindow	Correlate write/fetch of .so to its load (e.g., 0–30 minutes).

Field	Description
EnvVarWatchlist	LD_PRELOAD, LD_LIBRARY_PATH, LD_AUDIT.
AllowedSigning/HashList	Known-good signed or hashed shared objects.

## AN0054

A process loads a non-system .dylib/.so via dyld (dlopen/dlsym) from user-writable locations (~/.Library, /tmp) or after the library was recently created/downloaded, often followed by network egress or persistence.

### Log Sources

Data Component	Name	Channel
<a href="#">Module Load (DC0016)</a>	macos:unifiedlog	dyld/unified log entries indicating image load from non-system paths
<a href="#">Process Creation (DC0032)</a>	macos:endpointsecurity	exec: Process execution context for loaders calling dlopen/dlsym
<a href="#">File Access (DC0055)</a>	macos:endpointsecurity	ES_EVENT_TYPE_NOTIFY_OPEN: Open of .dylib/.so in user-writable locations

### Mutable Elements

Field	Description
SuspiciousDirs	~/Library, /tmp, /Users/*/* (hidden dirs) – tune to enterprise layout.
UnsignedOnly	Alert only when code-signing is invalid or absent.
TimeWindow	Correlate write/open to module load within N minutes.

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Source: <https://attack.mitre.org/detectionstrategies/DET0018#AN0052>