

Detection Strategy for Debugger Evasion (T1622), Detection Strategy DET0371

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AN1045

Monitor for suspicious use of Windows API calls such as `IsDebuggerPresent()` and `NtQueryInformationProcess()`, or processes manually checking the `BeingDebugged` flag in the Process Environment Block (PEB). Detect sequences of `OutputDebugStringW()` calls in short intervals that may indicate debugger flooding attempts.

Log Sources

Mutable Elements

Field	Description
<code>ApiCallFrequencyThreshold</code>	Number of repeated debug-related API calls allowed before raising an alert
<code>ProcessAllowList</code>	Legitimate debuggers or developer tools that may trigger similar behaviors

AN1046

Monitor access to `/proc/self/status` where `TracerPID` field is queried, as this is a common technique for debugger detection. Detect processes that attempt to trigger exceptions intentionally and monitor whether exception handling indicates presence of a debugger.

Log Sources

Data Component	Name	Channel
File Access (DC0055)	<code>auditd:SYSCALL</code>	open/read: Access to <code>/proc/self/status</code> with focus on <code>TracerPID</code> field

Mutable Elements

Field	Description
<code>MonitoredPaths</code>	Set of <code>/proc</code> paths to monitor for suspicious access
<code>SyscallThreshold</code>	Rate of syscalls (open/read) used to detect repeated probing for debug artifacts

AN1047

Detect suspicious calls to sysctl or ptrace API used to determine if a process is being debugged. Monitor for processes that flood OutputDebugString equivalents or generate abnormal exceptions to evade analysis.

Log Sources

Data Component	Name	Channel
OS API Execution (DC0021)	macos:unifiedlog	ptrace: Processes invoking ptrace with PTRACE_TRACEME flag

Mutable Elements

Field	Description
PtraceInvocationThreshold	Number of ptrace calls in a time window that should raise suspicion
DevToolExclusionList	Exclude known developer tools and monitoring agents

Source: <https://attack.mitre.org/detectionstrategies/DET0371#AN1046>