

# Behavior-chain detection for T1134.003 Make and Impersonate Token (Windows), Detection Strategy DET0498

Archived: 2026-04-05 18:29:48 UTC

## AN1375

A process creates a brand-new logon session/token (*LogonUser/LsaLogonUser*) and then assigns/impersonates it (*SetThreadToken/ImpersonateLoggedOnUser*) to run actions under that freshly created security context. Chain: (1) suspicious command or script block (e.g., *runas /netonly, PowerShell P/Invoke of LogonUser*) → (2) ETW/API evidence of *LogonUser/SetThreadToken* → (3) Security 4624 New Logon (often *LogonType=9 NewCredentials* or 2/3 from a non-interactive parent) with no interactive desktop → (4) *sysmon 1* process(es) executing with the new *LogonId/SID* different from the parent process → (5) optional privileged ops/lateral movement.

### Log Sources

### Mutable Elements

Field	Description
TimeWindow	Correlation window between <i>LogonUser*/SetThreadToken</i> and the first spawned process (default 5–10 minutes).
SuspiciousLogonTypes	Which 4624 <i>LogonTypes</i> to treat as high risk (e.g., 9 <i>NewCredentials</i> , 3 <i>Network</i> when sourced locally).
AllowedImpersonators	Processes/accounts legitimately creating tokens (e.g., <i>winlogon.exe, lsass.exe, IIS worker, trusted service accounts</i> ).
ParentChildUserMismatch	Whether to alert on any <i>SID/LogonId</i> mismatch between parent/child not in allow-list.
IntegrityEscalationDelta	Minimum integrity level jump (e.g., <i>Medium</i> → <i>High/System</i> ) to raise severity.

---

Source: <https://attack.mitre.org/detectionstrategies/DET0498>