

4.1.4 Ensure events that modify date and time information are collected (Scored)

Profile Applicability

Level 2 - Server
Level 2 - Workstation

Description

Capture events where the system date and/or time has been modified. The parameters in this section are set to determine if the `adjtimex` (tune kernel clock), `settimeofday` (Set time, using `timeval` and `timezone` structures) `stime` (using seconds since 1/1/1970) or `clock_settime` (allows for the setting of several internal clocks and timers) system calls have been executed and always write an audit record to the `/var/log/audit.log` file upon exit, tagging the records with the identifier "time-change"

Rationale

Unexpected changes in system date and/or time could be a sign of malicious activity on the system.

Audit

On a 32 bit system run the following command and verify the output matches:

```
# grep time-change /etc/audit/audit.rules
-a always,exit -F arch=b32 -S adjtimex -S settimeofday -S stime -k time-change
-a always,exit -F arch=b32 -S clock_settime -k time-change
-w /etc/localtime -p wa -k time-change
```

On a 64 bit system run the following command and verify the output matches:

```
# grep time-change /etc/audit/audit.rules
-a always,exit -F arch=b64 -S adjtimex -S settimeofday -k time-change
-a always,exit -F arch=b32 -S adjtimex -S settimeofday -S stime -k time-change
-a always,exit -F arch=b64 -S clock_settime -k time-change
-a always,exit -F arch=b32 -S clock_settime -k time-change
```

```
-w /etc/localtime -p wa -k time-change
```

Remediation

For 32 bit systems add the following lines to the `/etc/audit/audit.rules` file:

```
-a always,exit -F arch=b32 -S adjtimex -S settimeofday -S stime -k time-change  
-a always,exit -F arch=b32 -S clock_settime -k time-change  
-w /etc/localtime -p wa -k time-change
```

For 64 bit systems add the following lines to the `/etc/audit/audit.rules` file:

```
-a always,exit -F arch=b64 -S adjtimex -S settimeofday -k time-change  
-a always,exit -F arch=b32 -S adjtimex -S settimeofday -S stime -k time-change  
-a always,exit -F arch=b64 -S clock_settime -k time-change  
-a always,exit -F arch=b32 -S clock_settime -k time-change  
-w /etc/localtime -p wa -k time-change
```

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