Pre-Launch Checks on Apps in Sonoma 14.4.1

Version 1.0
Other paths may be possible.
Failure paths not shown.

QuarantineResolver
is the app quarantined?

not quarantined

quarantined

LaunchServices
is the app known?

Yes
record found

No

LaunchServices
bundle untrusted &
launch-disabled

LaunchServices
check CDHashes

not known
copy CDHashes
and register

securityd
has it been moved?

Yes

No
translocate app

Syspolicy
Gatekeeper assessment

Syspolicy
Gatekeeper assessment

Syspolicy
Gatekeeper assessment

Syspolicy
Has code already been evaluated?

Yes
use existing results

No
evaluate code

XProtect
direct malware & dylib scan

XProtect
direct malware & dylib scan

Quarantine Resolver
defer XProtect executable analysis

Syspolicy
look up notarization via CloudKit

Syspolicy
first launch prompt

Syspolicy
code evaluation complete

LaunchServices
launch app through
RunningBoard

Syspolicy
create provenance data

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