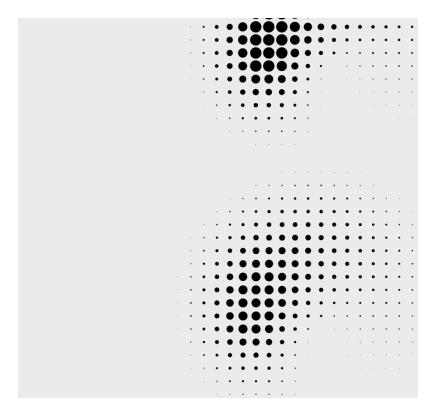


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Going off script: Thwarting

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abuse

Experts from Red Canary, Jamf, and MITRE ATT&CK opine on ways to detect and prevent manipulation of macOS's scripting architecture.

SYDNEY GELB

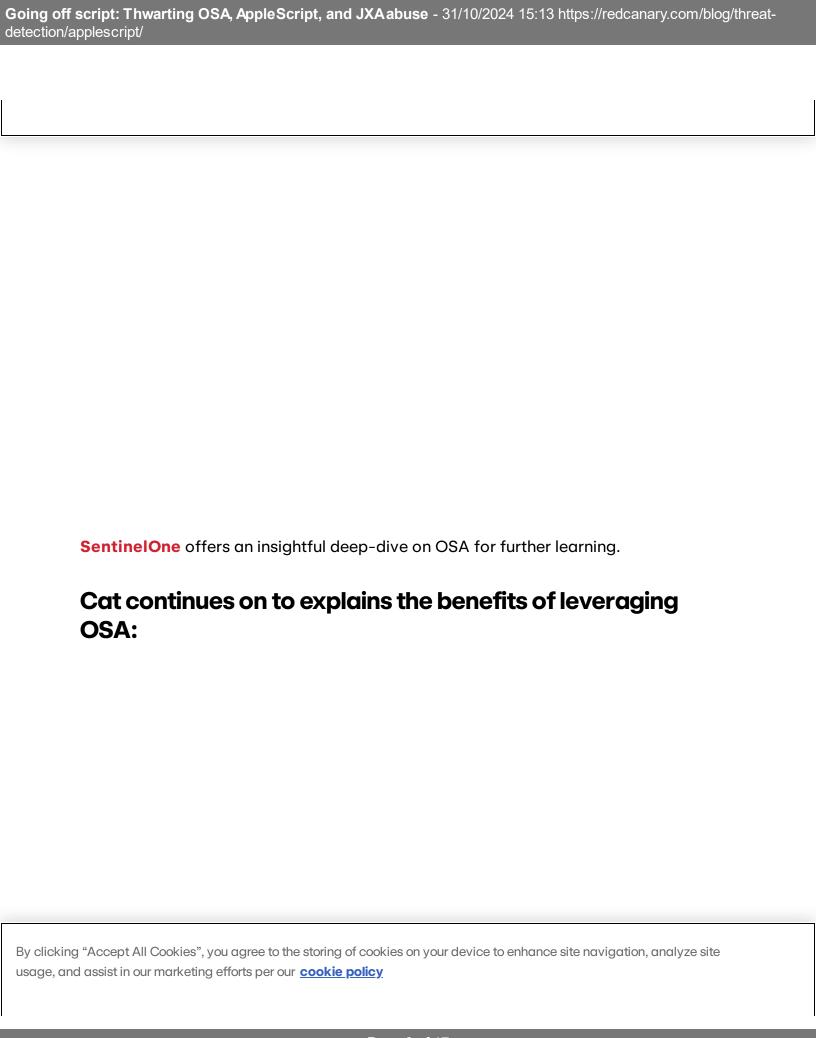
Originally published November 1, 2022. Last modified April 30, 2024.

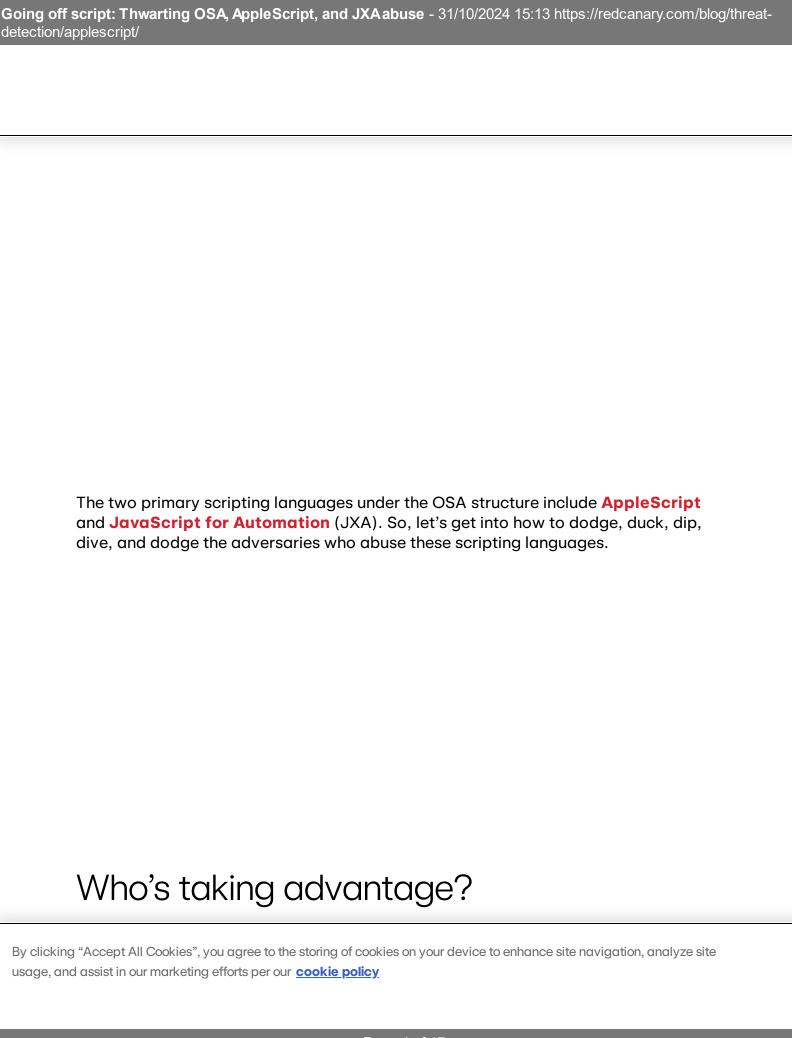
Living off the land has been commonplace on Windows systems for years, so it's no surprise that adversaries frequently leverage native tooling when they seek to compromise macOS systems. For the long-awaited return of our Detection Series webinars, Red Canary's Tony Lambert and Brandon Dalton joined Cat Self from MITRE and Ferdous ("Sal") Saljooki from Jamf to explain why adversaries exploit Apple's native scripting capabilities, and how to ward them off.

So, what are these native capabilities?

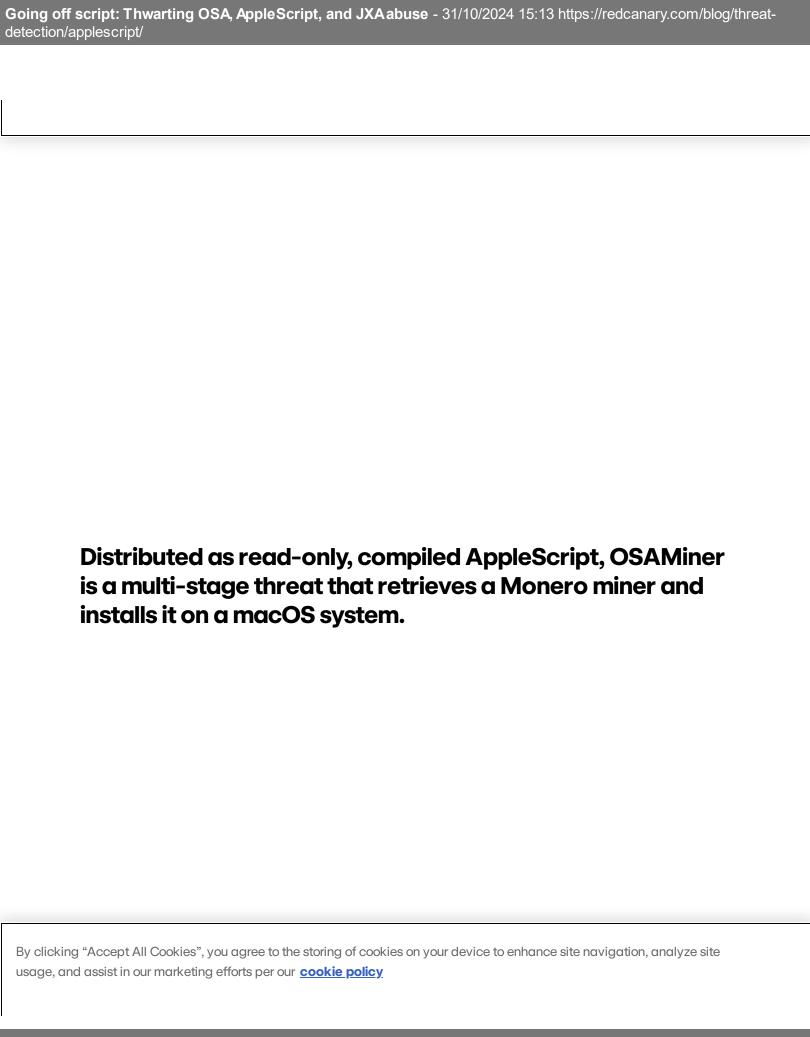
Scripting languages on macOS are beholden to a structure known as Apple's Open Scripting Architecture (OSA). According to **Apple**:

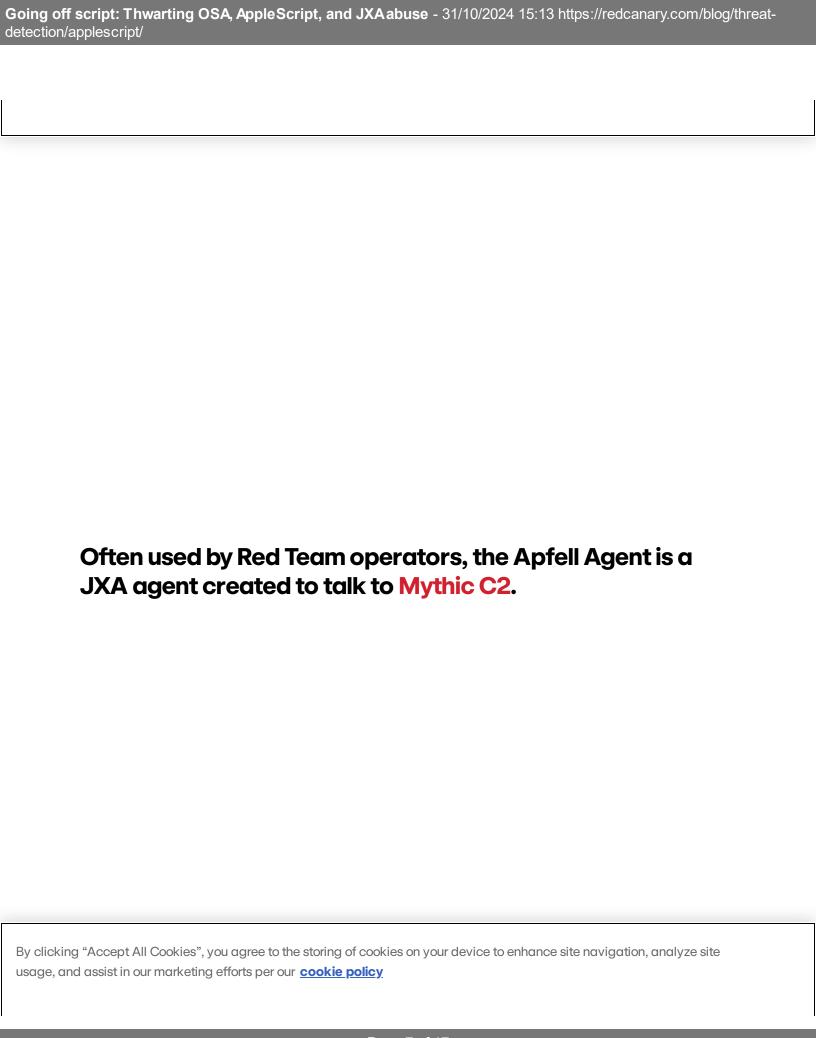
"The Open Scripting Architecture (OSA) provides a standard and extensible mechanism for interapplication communication in OSX."

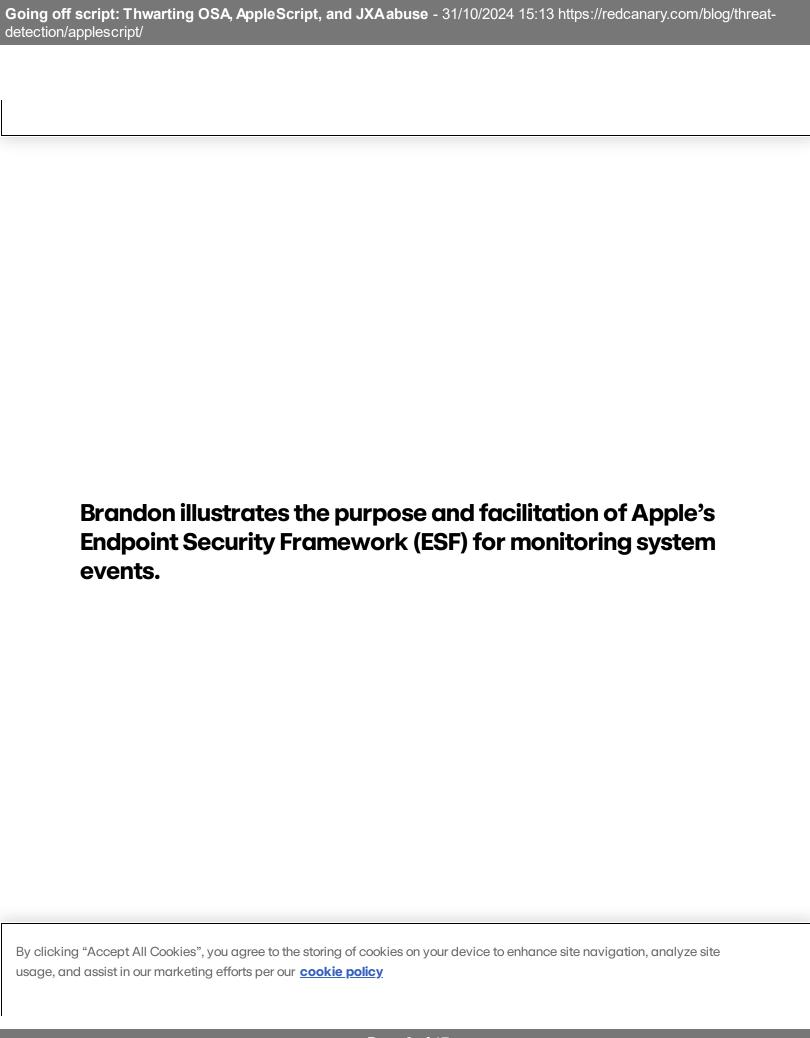


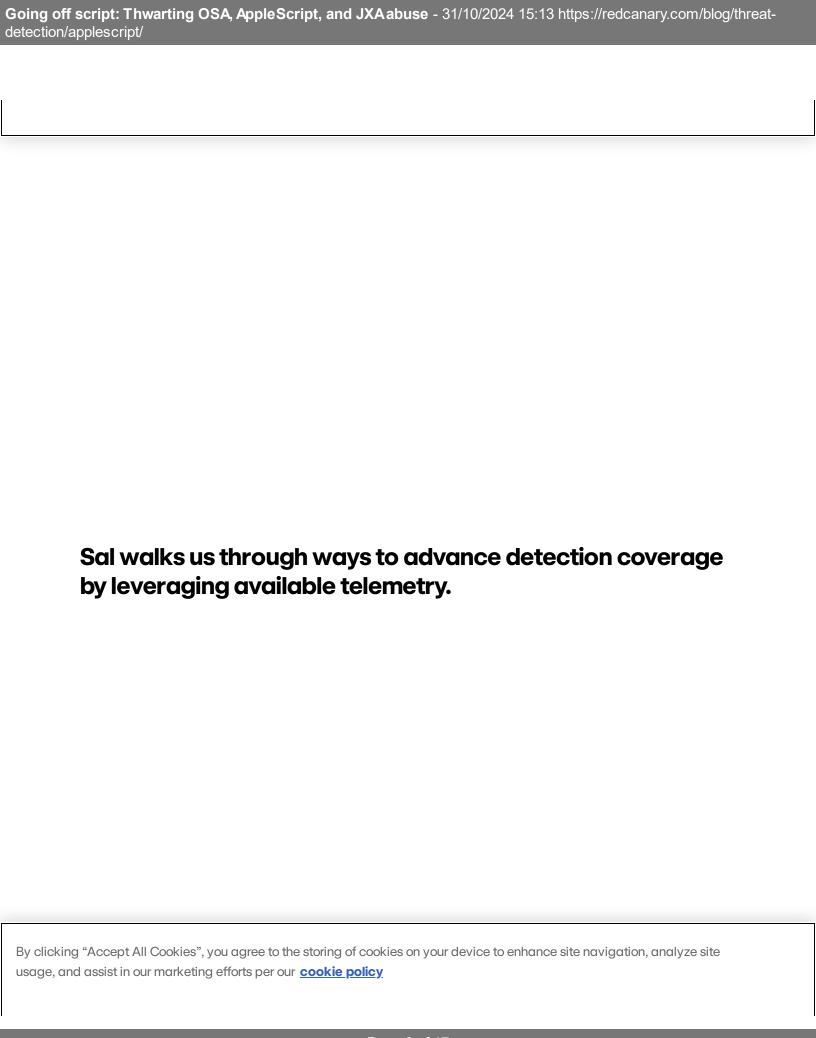


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Can I emulate these behaviors to test detection coverage?

Absolutely! Thus far, the panelists have discussed how and why adversaries abuse AppleScript and JXA, where defenders can find telemetry to observe suspicious activity, and how you can leverage that telemetry to develop or improve detection coverage.

Using our newly released **POSIX AtomicTestHarness** suite you can quickly test for detection coverage gaps. **AtomicTestHarnesses** focus on the art of the possible. If an adversary were to leverage AppleScript / JXA to attack macOS, what different ways could they go about doing that? AtomicTestHarnesses help answer this question.

Brandon discusses how to test your visibility into suspect AppleScript and JXA activity in your environment.



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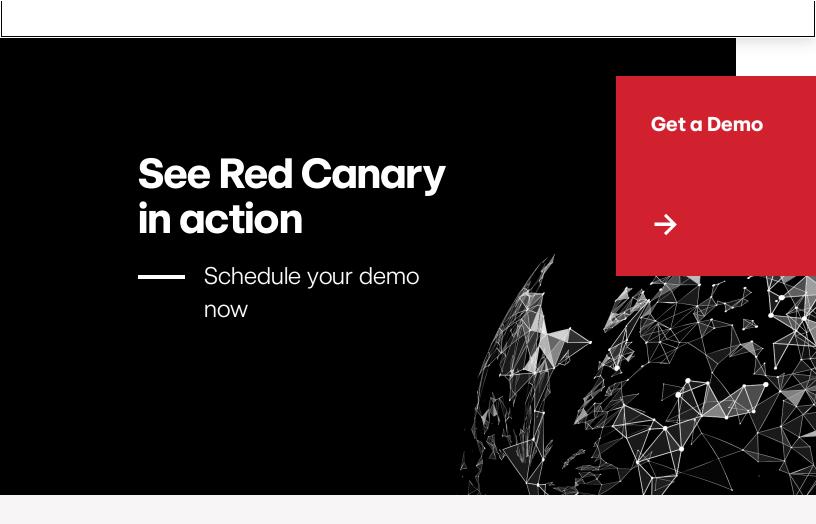
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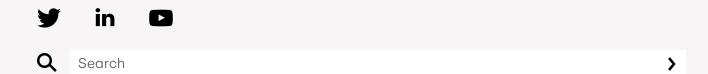
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