

# Security: Updates, Microsoft TCO and Red Hat Enterprise Linux 8

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Created *11/06/2019 - 8:14pm*

Submitted by Roy Schestowitz on Tuesday 11th of June 2019 08:14:40 PM Filed under [Security](#) [1]

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- [Hack Brief: \[Attackers\] \[Copied\] a Border Agency Database of Traveler Photos](#)[3] [iophk: "Microsoft TCO"]

In its rush to gather biometric data from travelers in the US, Customs and Border Protection has apparently neglected basic safeguards to protect it. One of its subcontractors was recently breached, leaving photos of travelers and license plates in the hands of [attackers].

The Washington Post first reported the incident, whose full scope remains unclear. But the [attack] has raised sharp questions about the agency's already controversial push for biometrics. Facial recognition scans have become more routine at airports; CBP wants it in the top 20 US airports by 2021.

- [Consistent PKCS #11 support in Red Hat Enterprise Linux 8](#) [4]

In recent years, there have been a number of security issues taking advantage of flaws in applications and even computer processors. These opened new attack vectors or made some others more viable and exploitable than before. We can talk about timing differences, cache access patterns and other side-channel attacks that can be exploited either locally, from the same machine or even over the network to read or reconstruct our secrets.

Keeping secret information storage isolated from other unrelated applications on a single

system is a long-standing data protection technique. Storage isolation is usually implemented in software by isolating processes, applications, containers or virtual machines running on the same physical machine. Hardware tokens are taking this principle to another level, providing the physical isolation of the secret information, which has the potential to improve security significantly. Working with external hardware for storing secrets in an operating system historically has been difficult for system administrators and end users, and this is what we are improving in Red Hat Enterprise Linux 8.

## [Security](#)

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[3] <https://www.wired.com/story/hackers-stole-traveler-photos-border-agency-database/>

[4] <https://www.redhat.com/en/blog/consistent-pkcs-11-support-red-hat-enterprise-linux-8>