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Analysis of Smartphone Traffic

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Analysis of Smartphone Traffic

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Abstract

Smartphones have become the central communication and computing devices in our daily life because of their nearly ubiquitous Internet access through various communication capabilities such as WiFi, 3G, or even 4G networks, their user-friendly interfaces supporting touch and gesture based input, and their numerous applications and games. Operating system (OS) detection, the first step to launch security attacks on a target smartphone, enables an adversary to tailor attacks by exploiting the known vulnerabilities of the target system. We investigate OS identification against smartphones that use encrypted traffic. We evaluate the identification algorithms against collected smartphone traffic. The experiments results show that the algorithms can identify a smartphones OS accurately.