Android Odayz hunting





Why rooting?

- For fun!
- For profit!
 - "Jailbreak"
 - Forensics acquisition
 - Bad evil malware



Targets

- Low hanging fruits!
- Rump 2012: command injection in netd (Net daemon running as root)
- Other 90's vulns in core?



Of course!

- Android 4.4.3 pushed to AOSP
- Changelog:
 - Project: platform/system/vold
 - 0de7c61 : Validate asec names



ASEC

- "id" user controlled
- What about a nice cup of "../" ?



Exploitation

- Id ← "../../../data/local/tmp/xxx"
 - ASEC file created in /data/local/tmp/xxx.asec
 - Mounted in /data/local/tmp/xxx

- If /data/local/tmp/xxx exists AND is a symlink?
 - Symlink followed, container can be mounted in any directory ("/system/bin", "/sbin", ...)
 - Container's content is of course user controlled

Requirements

- "shell" user (via adb)
- Application with ASEC_* permissions
 - Not so common



Old vuln?

- Introduced in 2010 with ASEC support
- Patched in Android 4.3.3 (2014)
- Known by at least one mobile forensics editor
 - For at least 2 years!





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More details on the vulnerability:

http://blog.cassidiancybersecurity.com