# Android Security & Exploitation

## Android Security Introduction

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Certifications : http://securitytube-training.com
Pentester Academy : http://PentesterAcademy.com

# Video 1 : Introduction to Android

# Course Structure - Module I & II

- Android Internals

- Permission Model

- Setting up an Android Pentesting Lab

- Reverse Engineering apps

- Smali Labs

- Dex Internals

# Introduction to Android

- Most popular smartphone platform in the market

- Hugely popular among both developers and consumers

- Open Source - http://source.android.com

- Built on top of Linux

- Can be customized and modified to build own ROMs

# Android Versions

| Version | API Level | Nickname |
|---|---|---|
| Android 1.0 | 1 | Android |
| Android 1.1 | 2 | Android |
| Android 1.5 | 3 | Cupcake |
| Android 1.6 | 4 | Donut |
| Android 2.0 | 5 | Eclair |
| Android 2.01 | 6 | Eclair |
| Android 2.1 | 7 | Eclair |
| Android 2.2 | 8 | Froyo |
| Android 2.3 | 9 | Gingerbread |
| Android 2.3.3 | 10 | Gingerbread |
| Android 3.x | 11,12,13 | HoneyComb |
| Android 4.0 | 14 | Ice Cream Sandwich |
| Android 4.1 | 15 | Jelly Bean |

# AOSP

- AOSP led by Google

- Source code could be downloaded and modified

- Custom ROMs

- Security Issues in Custom ROMs

- http://forum.xda-developers.com/android