Android Security & Exploitation

Aditya Gupta (@adi1391)

Founder, Attify (http://attify.com)
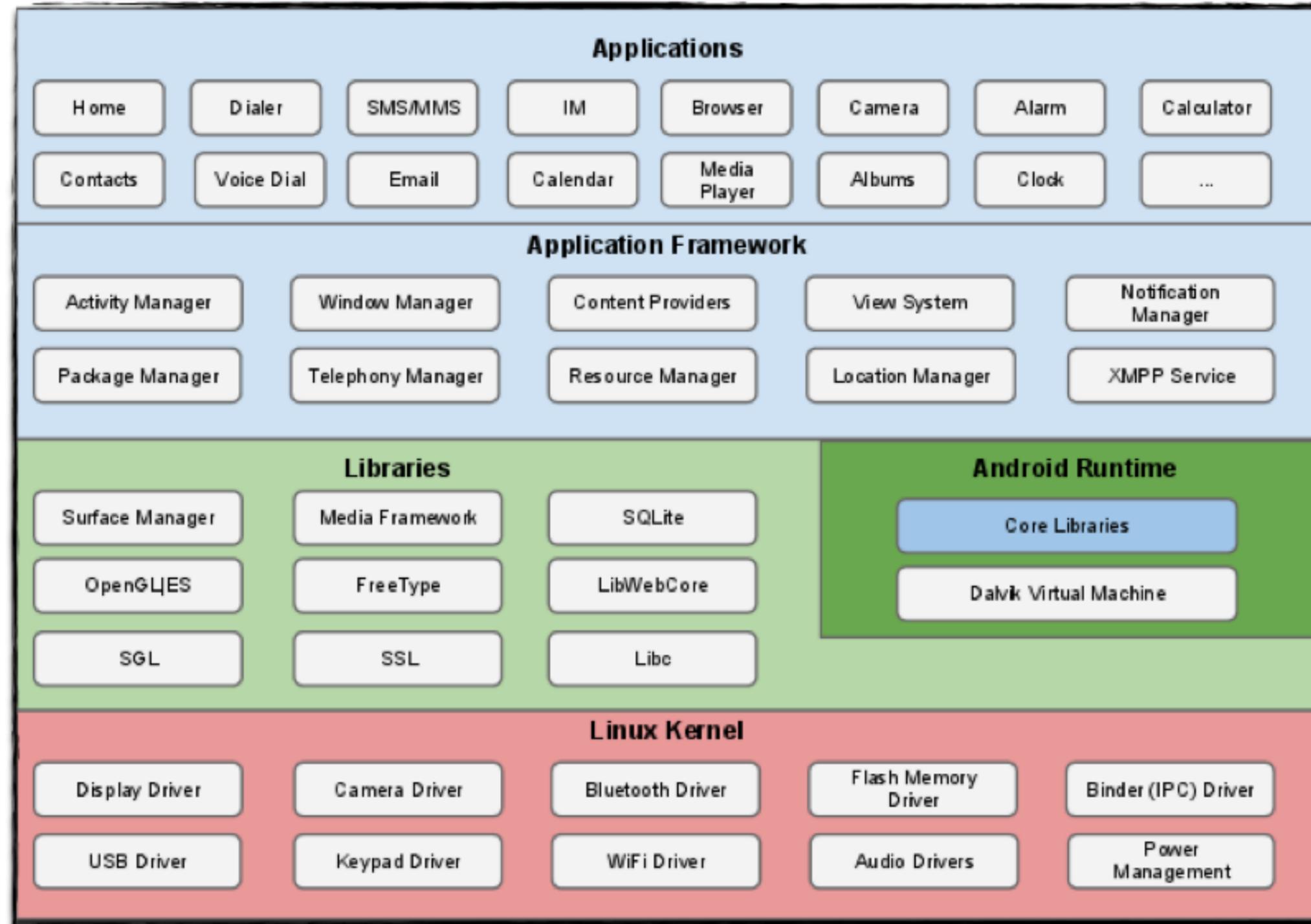
adi@attify.com

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

Video 2 : Android Architecture

Android System Architecture

Security Architecture

- Two tier security model : Linux based and Android based

- Runs in parallel

- Privilege Separation Model (derived from Linux)

- Each app with its own UID and GID

- Linux permission provides secured access to android resources and files

- Permission Model (from Android)

Security Architecture

```
root@android:/data/data/com.dropbox.android # ls -la
drwxrwx--x u0_a77    u0_a77              2014-09-24 09:04 cache
drwxrwx--x u0_a77    u0_a77              2014-09-24 09:04 databases
drwxrwx--x u0_a77    u0_a77              2014-09-24 09:04 files
drwxr-xr-x system    system              2014-09-24 09:04 lib
drwxrwx--x u0_a77    u0_a77              2014-09-24 09:04 shared_prefs
```