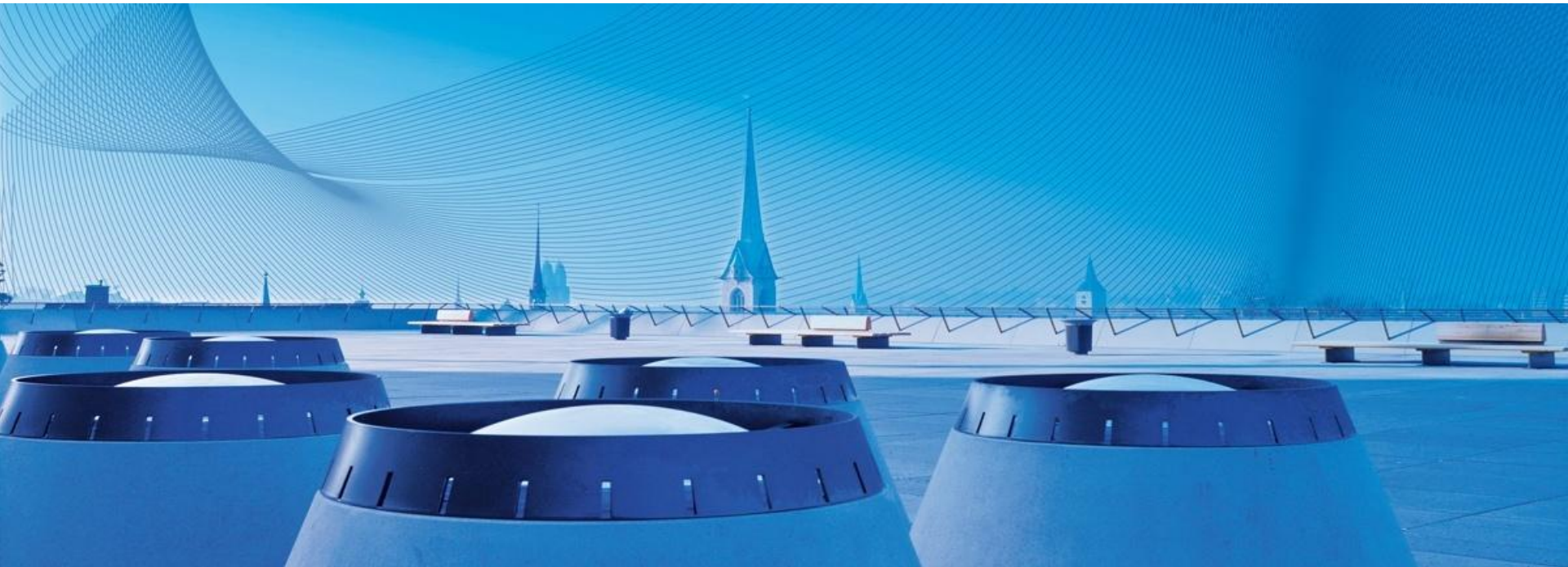
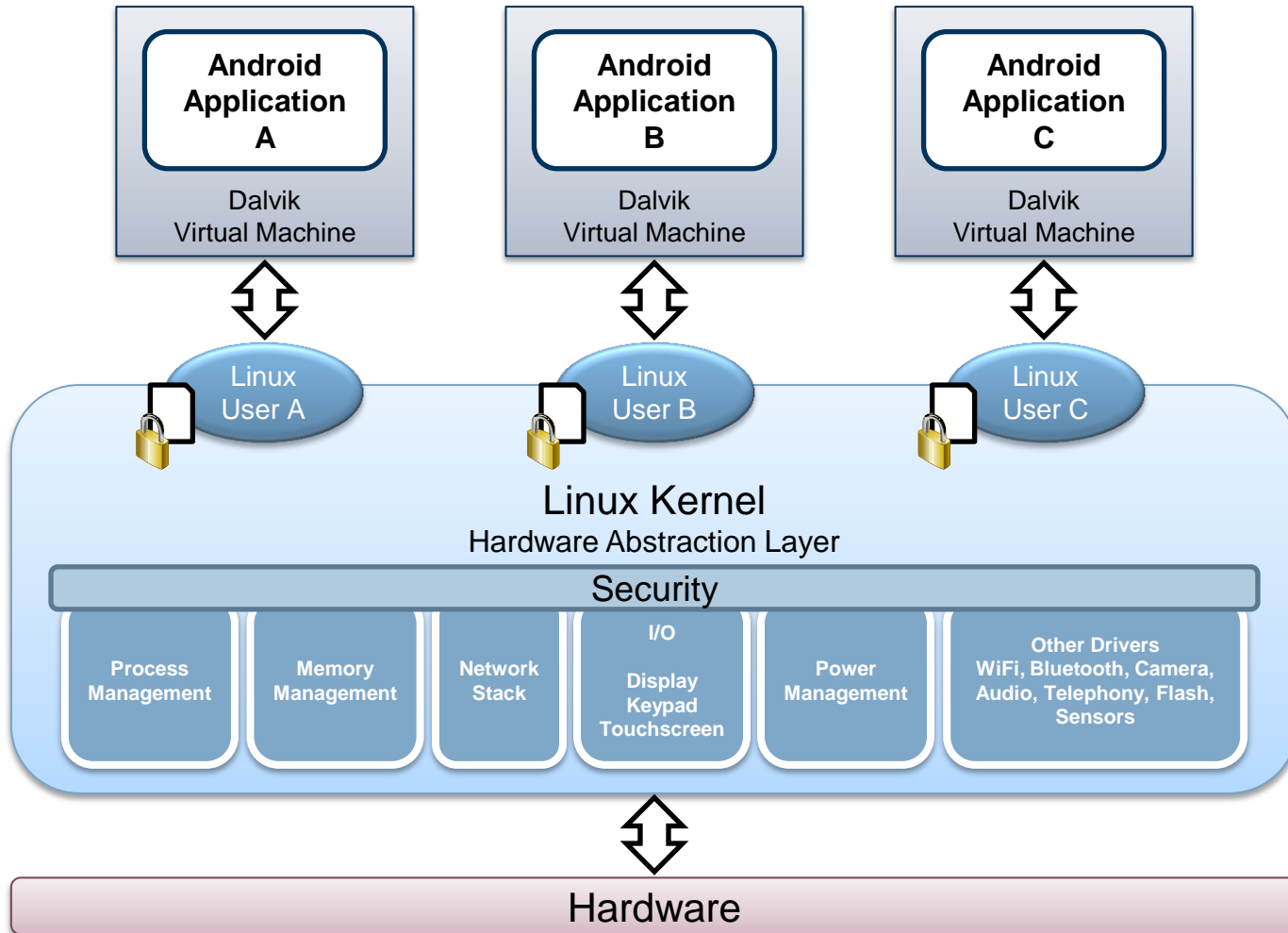


Distributed Systems – Short Tutorial

Matthias Kovatsch



Platform Internals



Android Key Terms

- «Activity»
 - Logical unit of a user activity (cf. window in a computer program)
 - Usually full-screen (cf. Fragments)
- «View»
 - Hierarchical UI element
 - Combined in layouts and extended to Widgets with more functionality
- «Service»
 - Background activity without UI, e.g., music player or FTP server



Android Key Terms

- «Intent»
 - Starts or switches between «Activities»
 - Passive data structure
 - Describes the action
 - An explicit class to activate
 - Or Implicit components that match an «Intent filter»
- «BroadcastReceiver»
 - Listens for global events (Intents)
e.g., «headphones were plugged» sent by system
 - Can delegate to preferred Activity
 - Can inform the user



Activity Lifecycle

- Multi-Tasking
 - OS keeps apps alive as long as possible
 - On memory shortage, processes are killed according to their priority
- States of an Activity
 - Running (Resumed)
 - Paused
 - Stopped
 - Finished/killed

