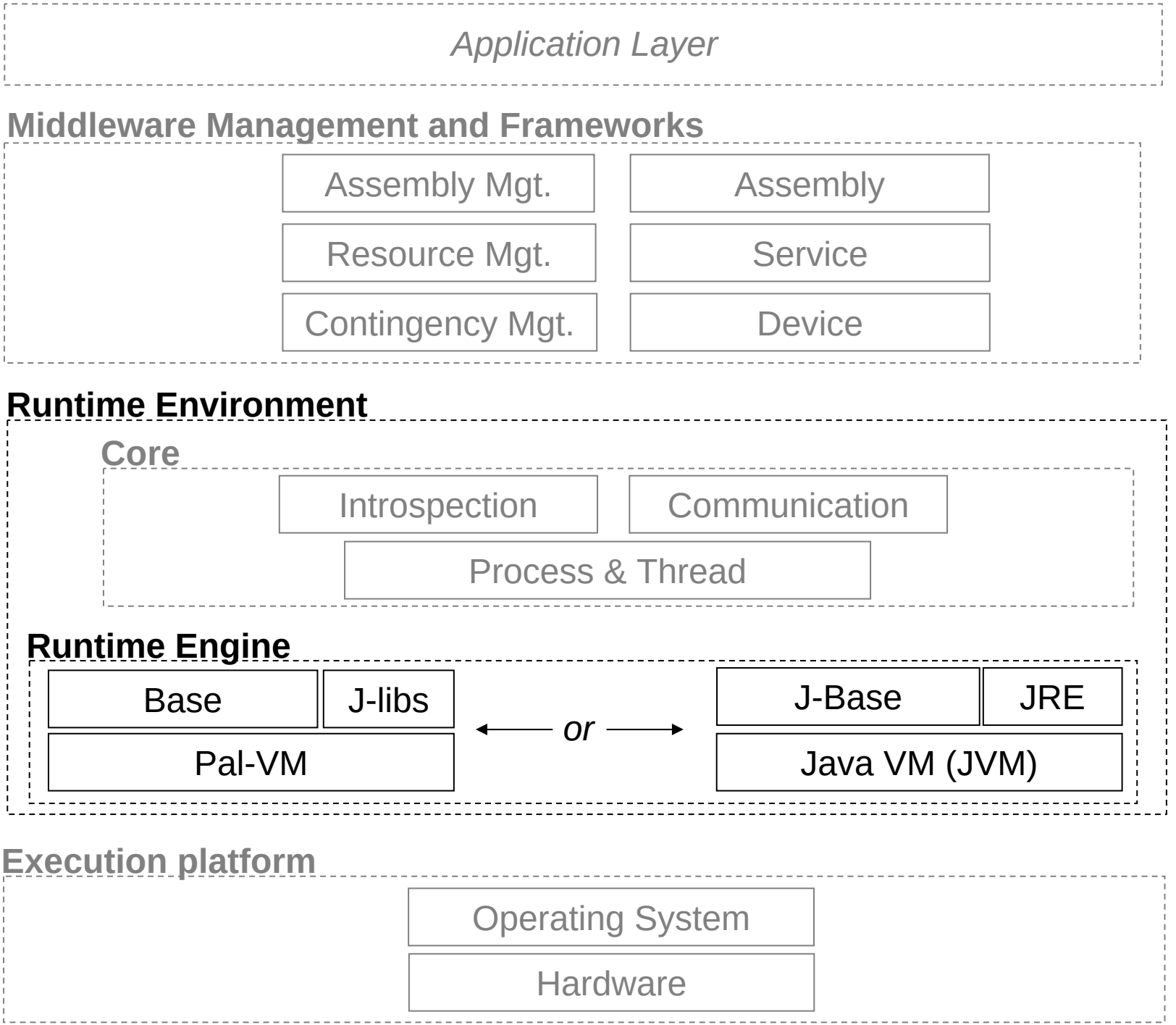

Application Layer
Middleware Management and Frameworks
Assembly Mgt.
Assembly
Resource Mgt.
Service
Contingency Mgt.
Device
Runtime Environment
Core
Introspection
Communication
Process & Thread
Runtime Engine
Base
J-libs
Pal-VM
or
J-Base
JRE
Java VM (JVM)
Execution platform
Operating System
Hardware