

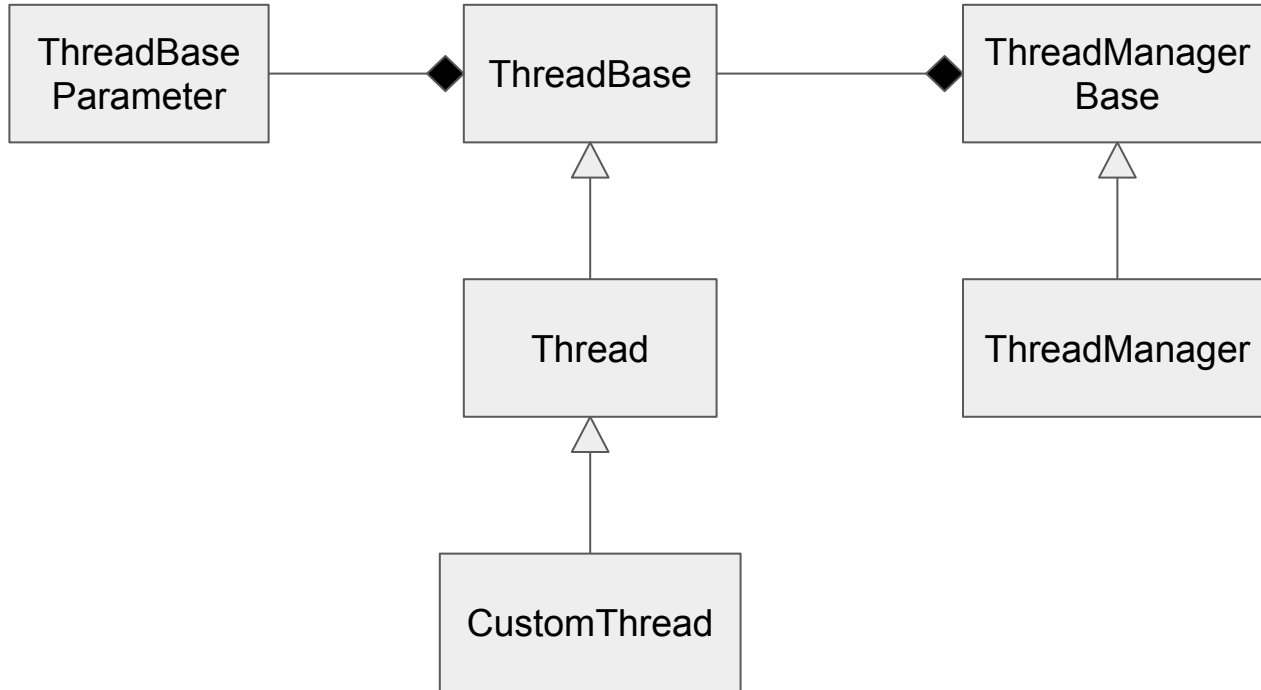
ACS Threads

ACS Workshop

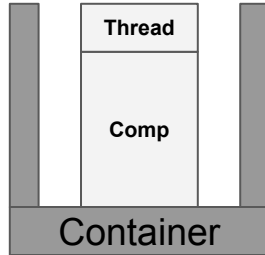
Introduction

- Threading Applications
 - Performance
 - Collaboration
 - Polling
 - Asynchronous Calls
- ACS works well with threading
 - Forking has some limitations and complications
- ACS Threads were designed before standard C++ threads
 - Abstract from system/complex APIs
 - Portability
 - Lifecycle Management / Resources Deallocation

Design



How it works



- Container Initializes
 - Component Initializes
 - Component Requests ContainerServices (CS)
 - Component Requests ThreadManager (TM) to CS
 - Component Requests Thread Creation to TM
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- The thread gets released
 - Direct request to TM
 - Component gets released
 - Container is stopped