The Executor (thread pool)

执行器（线程池）：用来处理具体的请求

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Introduction

表示一个线程池，可以在Tomcat的组件之间共享。

The **Executor** represents a thread pool that can be shared between components in Tomcat. Historically there has been a thread pool per connector created but this allows you to share a thread pool, between (primarly) connector but also other components when those get configured to support executors 历史原因，每个连接器都会创建一个线程池。但这个元素允许你共享一个线程池

The executor has to implement the `org.apache.catalina.Executor` interface.

The executor is a nested element to the Service element. And in order for it to be picked up by the connectors, the Executor element has to appear prior to the Connector element in server.xml

Attributes

Common Attributes

All implementations of **Executor** support the following attributes:

Attribute	Description
`className`	The class of the implementation. The implementation has to implement the `org.apache.catalina.Executor` interface. This interface ensures that the object can be referenced through its `name` attribute and that implements Lifecycle, so that it can be started and stopped with the container. The default value for the className is `org.apache.catalina.core.StandardThreadExecutor`
name	The name used to reference this pool in other places in server.xml. The name is required and must be unique.

线程池名称

Standard Implementation

The default implementation supports the following attributes:

Attribute	Description
`threadPriority`	(int) The thread priority for threads in the executor, the default is `5` (the value of the `Thread.NORM_PRIORITY` constant)
`daemon`	(boolean) Whether the threads should be daemon threads or not, the default is `true`
`namePrefix`	(String) The name prefix for each thread created by the executor. The thread name for an individual thread will be `namePrefix+threadNumber`
`maxThreads` 最大的活跃线程数	(int) The max number of active threads in this pool, default is `200`
`minSpareThreads` 最小的存活线程数	(int) The minimum number of threads always kept alive, default is `25`
`maxIdleTime` 一个空闲线程关闭前等待的毫秒数	(int) The number of milliseconds before an idle thread shutsdown, unless the number of active threads are less or equal to minSpareThreads. Default value is `60000`(1 minute)
`maxQueueSize` 最大的可运行任务数	(int) The maximum number of runnable tasks that can queue up awaiting execution before we reject them. Default value is `Integer.MAX_VALUE`
`prestartminSpareThreads`	(boolean) Whether minSpareThreads should be started when starting the Executor or not, the default is `false`
`threadRenewalDelay`	(long) If a ThreadLocalLeakPreventionListener is configured, it will notify this executor about stopped contexts. After a context is stopped, threads in the pool are renewed. To avoid renewing all threads at the same time, this option sets a delay between renewal of any 2 threads. The value is in ms, default value is `1000` ms. If value is negative, threads are not renewed.