## The eight listeners

Scenario	Listener interface	Event type
You want to know if an attribute in a web app context has been added, removed, or replaced.	javax.servlet. <b>ServletContextAttributeListener</b> attributeAdded attributeRemoved attributeReplaced	ServletContextAttributeEvent
You want to know how many concurrent users there are. In other words, you want to track the active sessions. (We cover sessions in detail in the next chapter).	javax.servlet.http. <b>HttpSessionListener</b> sessionCreated sessionDestroyed	HttpSessionEvent
You want to know each time a request comes in, so that you can log it.	javax.servlet. <b>ServletRequestListener</b> requestInitialized requestDestroyed	ServletRequestEvent
You want to know when a request attribute has been added, removed, or replaced.	javax.servlet.ServletRequestAttributeListener attributeAdded attributeRemoved attributeReplaced	ServletRequestAttributeEvent
You have an attribute class (a class for an object that will be stored as an attribute) and you want objects of this type to be notified when they are bound to or removed from a session.	javax.servlet.http. <b>HttpSessionBindingListener</b> valueBound valueUnbound	HttpSessionBindingEvent
You want to know when a session attribute has been added, removed, or replaced.	javax.servlet.http. <b>HttpSessionAttributeListener</b> attributeAdded attributeRemoved attributeReplaced  Watch out for this for HttpSessionAttributeReplaced	HttpSessionBindingEvent s naming inconsistency! The Event tributeListener is NOT what you tttpSessionAttributeEvent).
You want to know if a context has been created or destroyed.	javax.servlet.ServletContextListener contextInitialized contextDestroyed	ServletContextEvent
You have an attribute class, and you want objects of this type to be notified when the session to which they're bound is migrating to and from another JVM.	javax.servlet.http. <b>HttpSessionActivationListener</b> sessionDidActivate sessionWillPassivate	HttpSessionEvent It's NOT "HttpSessionActivationEvent"