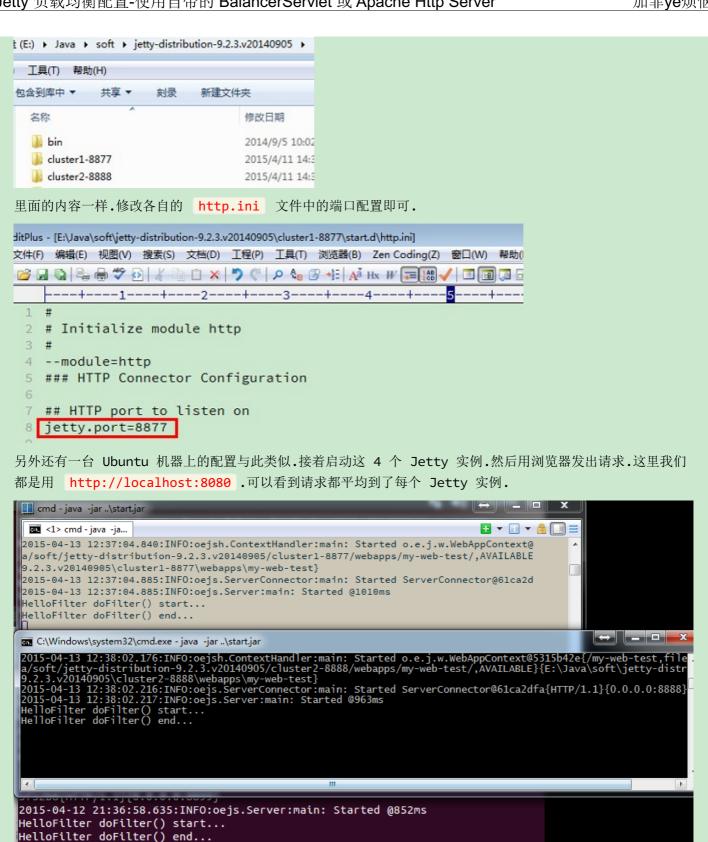
## 使用自带的 BalancerServlet

同一台机器上的一个 Jetty 实例做负载均衡器,另外两个 Jetty 实例做为 slave(s),还有另一台机器上的 Jetty 做 slave.

首先创建 Balancer, 创建一个 Java 应用程序即可,最主要的就是设置以 balancerMember. 开头的初始 参数.它的作用就是将请求转发到其它的 Jetty 实例.

```
public class BalancerServer {
 2.
         private boolean stickySessions;
          private Server balancer;
         private static final String CONTEXT_PATH = "/*";
 4.
         private static final String SERVLET PATH = "";
          public static void main(String[] args) throws Exception {
8.
              BalancerServer server = new BalancerServer();
              server.startBalancer();
         }
          private void startBalancer() throws Exception {
              ServletHolder balancerServletHolder = new ServletHolder(BalancerServlet.class);
              //balancerServletHolder.setInitParameter("stickySessions", String.valueOf(stickySes
      sions));
              //balancerServletHolder.setInitParameter("proxyPassReverse", "true");
17.
              balancerServletHolder.setInitParameter("balancerMember." + "cluster1" + ".proxyTo",
       "http://localhost:8877");
              balancerServletHolder.setInitParameter("balancerMember." + "cluster2" + ".proxyTo",
       "http://localhost:8888");
              balancerServletHolder.setInitParameter("balancerMember." + "cluster3" + ".proxyTo",
       "http://192.168.119.134:8899");
              balancer = createServer(balancerServletHolder, 8080);
              balancer.start();
24.
              balancer.join();
          private Server createServer(ServletHolder servletHolder, int port) {
              Server server = new Server(port);
              ServerConnector connector = new ServerConnector(server);
             server.addConnector(connector);
              ServletContextHandler context = new ServletContextHandler(server, CONTEXT_PATH, Ser
      vletContextHandler.SESSIONS);
              context.addServlet(servletHolder, SERVLET_PATH + "/*");
             return server;
         }
```

从上面的代码中可以看到我们配置了两个 slave 节点.创建两个目录,如下:



## **Hello World!**

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localhost:8080/my-web-test/index.jsp

更具体的信息可以参考 org.eclipse.jetty.proxy.BalancerServletTest 或阅读 org.eclipse.jetty.proxy.BalancerServlet 类相关的源码.

☐ http://localh...est/login.jsp × / ☐ http://localh...st/index.jsp × │ ☐ http://localh.../getHost.jsp × │ ☐ http://localh...gxtHost.jsp ×

如果说其中的一台(slave1)挂了,那么当一个请求正好落到 slave1 的时候,是不会主动切换到其他的 slave

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上去的,这点是不如 Apache Http Server 的. GET login.jsp 502 Bad Gateway localhost:8080 0 B [::1]:8080 头信息 响应 缀存 Cookies ■ 响应头信息 原始头信息 Connection close Date Fri, 15 May 2015 03:02:48 GMT Server Jetty (9. 3. z-SNAPSHOT) ■ 请求头信息 原始头信息 Accept text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8 Accept-Encoding gzip, deflate Accept-Language zh-CN, zh; q=0. 8, en-US; q=0. 5, en; q=0. 3 Connection keep-alive Cookie JSESSIONID=104ato3rhsixq1d4fzevg6k6ns Host localhost:8080 User-Agent Mozilla/5.0 (Windows NT 6.1; WOW64; rv:37.0) Gecko/20100101 Firefox/37.0

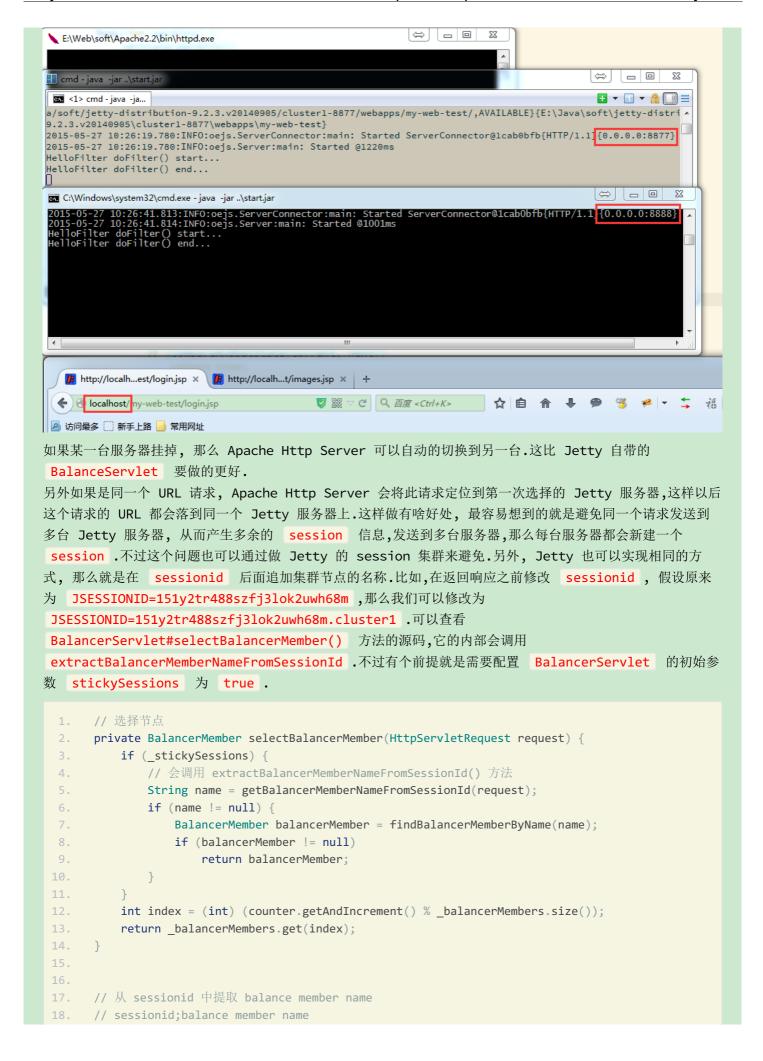
# 使用 Apache Http Server 做负载均衡器

Apache Http Server 与 Tomcat 集成,大家都很熟悉了,google 一下可以搜索出很多相关信息.如果换成 Apache 与 Jetty,貌似搜索不出啥信息.其实也很简单,也就是修改下 Apache Http Server 的配置,如下:

### httpd.conf

```
# 负载均衡配置
     LoadModule proxy_module modules/mod_proxy.so
      #LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
      LoadModule proxy_balancer_module modules/mod_proxy_balancer.so
 4.
      LoadModule proxy_connect_module modules/mod_proxy_connect.so
      #LoadModule proxy_ftp_module modules/mod_proxy_ftp.so
      LoadModule proxy_http_module modules/mod_proxy_http.so
 7.
 8.
     ServerName localhost:80
     <VirtualHost *:80>
        ServerAdmin admin@china1168.com
         ServerName localhost
         ServerAlias localhost
         opening
             # 主要修改这里的配置
             BalancerMember http://localhost:8877 loadfactor=1 route=jetty-8877
             BalancerMember http://localhost:8888 loadfactor=1 route=jetty-8888
18.
         </proxy>
         ProxyRequests Off
         ProxyPass /server-status !
         ProxyPass /balancer-manager !
         ProxyPass / balancer://testcluster/ stickysession=JSESSIONID
         ProxyPassReverse / balancer://testcluster/
     </VirtualHost>
24.
```

#### 看下运行结果:



```
private String extractBalancerMemberNameFromSessionId(String sessionId) {
         int idx = sessionId.lastIndexOf(".");
         if (idx > 0) {
             String sessionIdSuffix = sessionId.substring(idx + 1);
             return sessionIdSuffix.length() > 0 ? sessionIdSuffix : null;
24.
      return null;
26. }
```

到底选择哪种方式好,这个根据自个的需求来即可.