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**jsessionid的简单说明**

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1）第一次访问服务器的时候，会在响应头里面看到Set-Cookie信息（只有在首次访问服务器的时候才会在响应头中出现该信息）。



上面的图JSESSIONID=ghco9xdnaco31gmafukxchph;Path=/acr，

浏览器会根据响应头的set-cookie信息设置浏览器的cookie并保存之

注意此cookie由于没有设置cookie有效日期，所以在关闭浏览器的情况下会丢失掉这个cookie。

2）当再次请求的时候（非首次请求），浏览器会在请求头里将cookie发送给服务器(每次请求都是这样)  


（JSESSIONID=ghco9xdnaco31gmafukxchph）

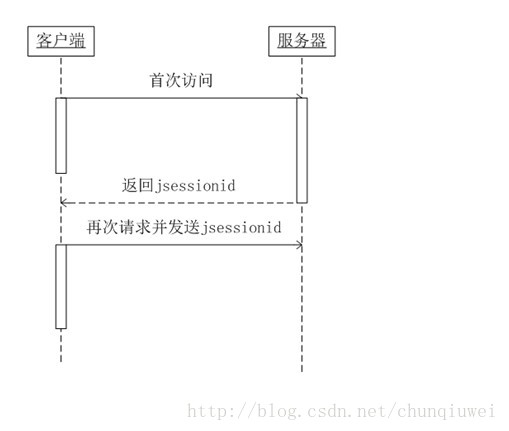
不难发现这个的jsessionid和上面的jsessionid是一样的

3）为什么除了首次请求之外每次请求都会发送这个cookie呢（在这里确切地说是发送这个jsessionid）？

事实上当用户访问服务器的时候会为每一个用户开启一个session，浏览器是怎么判断这个session到底是属于哪个用户呢？jsessionid的作用就体现出来了：jsessionid就是用来判断当前用户对应于哪个session。换句话说服务器识别session的方法是通过jsessionid来告诉服务器该客户端的session在内存的什么地方。

事实上jsessionid ==request.getSession().getId()

4)总结，jsessionid的工作流程可以简单用下面的图表示：



4.补充说明一下，http请求是无状态的，每一次请求都是独立的。

（1）.如果本次请求在服务器端没有任何session相关代码执行到，服务器端返回的response参数中是不会返回Set-cookie属性的，原因很简单，本次请求服务器根本就不关心session，也就是说与session无关的请求，服务器为了性能，智能忽略对该参数的响应。

（2）.如果本次请求服务器端有执行到session相关的代码。则区分是否为第一次执行到，本质上是看根据request传过来的cookie中jseesionId值是否拿到了对应的session对象（如果第一次访问，甚至都是没有cookie的，即没有jsessionId，那么当然也是取不到对应的session对象的）。

如果没拿到，则说明此jsessionId值已经过期（比如是session过期造成的jsessionId过期）或者是伪造的，那么会创建一个新的jsessionId值放入set-cookie中返回给浏览器，这就是上文中所谓的“第一次”会返回Set-cookie属性。

如果拿到了，则说明此jsessionId值对应的session对象在服务器端是存在的，还是有效的，处于服务器端所谓的会话中，就不会再返回新的Set-cookie属性，再返回也是浪费，浏览器自然在后续请求中还会继续沿用这个jsessionId值。

直到cookie过期，或者session过期，或者手动清除cookie，服务器服务关闭，这些情况下，浏览器发送请求到服务器端，一旦服务器端执行到了读取session相关的代码，就会在本次请求返回set-cookie值，这就又回到了刚才说的过程。

System.*out*.println("session:"+request.getSession());

5.源码中连续两次请求的日志：

2018-10-25 14:13:01.216 INFO 183416 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring FrameworkServlet 'dispatcherServlet'

2018-10-25 14:13:01.216 INFO 183416 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started

2018-10-25 14:13:01.260 INFO 183416 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization completed in 44 ms

sessionId:5C86B5219AF38170E94A6C2F68414A91

before.....................................................................

{"className":"com.glitter.spring.boot.web.controller.DemoAction","headerMap":{"host":"172.31.80.23:8080","connection":"keep-alive","cache-control":"max-age=0","upgrade-insecure-requests":"1","user-agent":"Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36","accept":"text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,\*/\*;q=0.8","accept-encoding":"gzip, deflate","accept-language":"zh-CN,zh;q=0.9,zh-TW;q=0.8"},"host":"172.31.80.23","ip":"172.31.80.23","methodName":"getUserInfos2","paramMap":{"name":""},"port":10406,"uri":"/demo/getUserInfos2","url":"http://172.31.80.23:8080/demo/getUserInfos2"}

afterReturning.................................................................

{"headerMap":{"Set-Cookie":"JSESSIONID=5C86B5219AF38170E94A6C2F68414A91; Path=/; HttpOnly"},"host":"172.31.80.23","methodName":"/demo/getUserInfos2","paramMap":{"name":""},"port":10406,"status":200,"uri":"/demo/getUserInfos2","url":"http://172.31.80.23:8080/demo/getUserInfos2"}

sessionId:5C86B5219AF38170E94A6C2F68414A91

before.....................................................................

{"className":"com.glitter.spring.boot.web.controller.DemoAction","headerMap":{"host":"172.31.80.23:8080","connection":"keep-alive","cache-control":"max-age=0","upgrade-insecure-requests":"1","user-agent":"Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36","accept":"text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,\*/\*;q=0.8","accept-encoding":"gzip, deflate","accept-language":"zh-CN,zh;q=0.9,zh-TW;q=0.8","cookie":"JSESSIONID=5C86B5219AF38170E94A6C2F68414A91"},"host":"172.31.80.23","ip":"172.31.80.23","methodName":"getUserInfos2","paramMap":{"name":""},"port":10406,"uri":"/demo/getUserInfos2","url":"http://172.31.80.23:8080/demo/getUserInfos2"}

afterReturning.................................................................

{"headerMap":{},"host":"172.31.80.23","methodName":"/demo/getUserInfos2","paramMap":{"name":""},"port":10406,"status":200,"uri":"/demo/getUserInfos2","url":"http://172.31.80.23:8080/demo/getUserInfos2"}

6.将日志格式化后查看效果如下：

2018-10-25 14:13:01.216 INFO 183416 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring FrameworkServlet 'dispatcherServlet'

2018-10-25 14:13:01.216 INFO 183416 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started

2018-10-25 14:13:01.260 INFO 183416 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization completed in 44 ms

sessionId:5C86B5219AF38170E94A6C2F68414A91

before.....................................................................

{

"className": "com.glitter.spring.boot.web.controller.DemoAction",

"headerMap": {

"host": "172.31.80.23:8080",

"connection": "keep-alive",

"cache-control": "max-age=0",

"upgrade-insecure-requests": "1",

"user-agent": "Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36",

"accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,\*/\*;q=0.8",

"accept-encoding": "gzip, deflate",

"accept-language": "zh-CN,zh;q=0.9,zh-TW;q=0.8"

},

"host": "172.31.80.23",

"ip": "172.31.80.23",

"methodName": "getUserInfos2",

"paramMap": {

"name": ""

},

"port": 10406,

"uri": "/demo/getUserInfos2",

"url": "http://172.31.80.23:8080/demo/getUserInfos2"

}

afterReturning.................................................................

{

"headerMap": {

"Set-Cookie": "JSESSIONID=5C86B5219AF38170E94A6C2F68414A91; Path=/; HttpOnly"

},

"host": "172.31.80.23",

"methodName": "/demo/getUserInfos2",

"paramMap": {

"name": ""

},

"port": 10406,

"status": 200,

"uri": "/demo/getUserInfos2",

"url": "http://172.31.80.23:8080/demo/getUserInfos2"

}sessionId: 5C86B5219AF38170E94A6C2F68414A91

before.....................................................................{

"className": "com.glitter.spring.boot.web.controller.DemoAction",

"headerMap": {

"host": "172.31.80.23:8080",

"connection": "keep-alive",

"cache-control": "max-age=0",

"upgrade-insecure-requests": "1",

"user-agent": "Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36",

"accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,\*/\*;q=0.8",

"accept-encoding": "gzip, deflate",

"accept-language": "zh-CN,zh;q=0.9,zh-TW;q=0.8",

"cookie": "JSESSIONID=5C86B5219AF38170E94A6C2F68414A91"

},

"host": "172.31.80.23",

"ip": "172.31.80.23",

"methodName": "getUserInfos2",

"paramMap": {

"name": ""

},

"port": 10406,

"uri": "/demo/getUserInfos2",

"url": "http://172.31.80.23:8080/demo/getUserInfos2"

}

afterReturning.................................................................

{

"headerMap": {

},

"host": "172.31.80.23",

"methodName": "/demo/getUserInfos2",

"paramMap": {

"name": ""

},

"port": 10406,

"status": 200,

"uri": "/demo/getUserInfos2",

"url": "http://172.31.80.23:8080/demo/getUserInfos2"

}