

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY



OWASP Security Shepherd

Assignment 1

(IT 13 092948/ A.K Weerasinghe)

Year 4

Semester 1, 2016

Department of Information Technology

Faculty of Computing

Sri Lanka Institute of Information Technology

Field Training

Insecure Direct Object References

The result key to complete this lesson is stored in the administrators profile.

Refresh your Profile

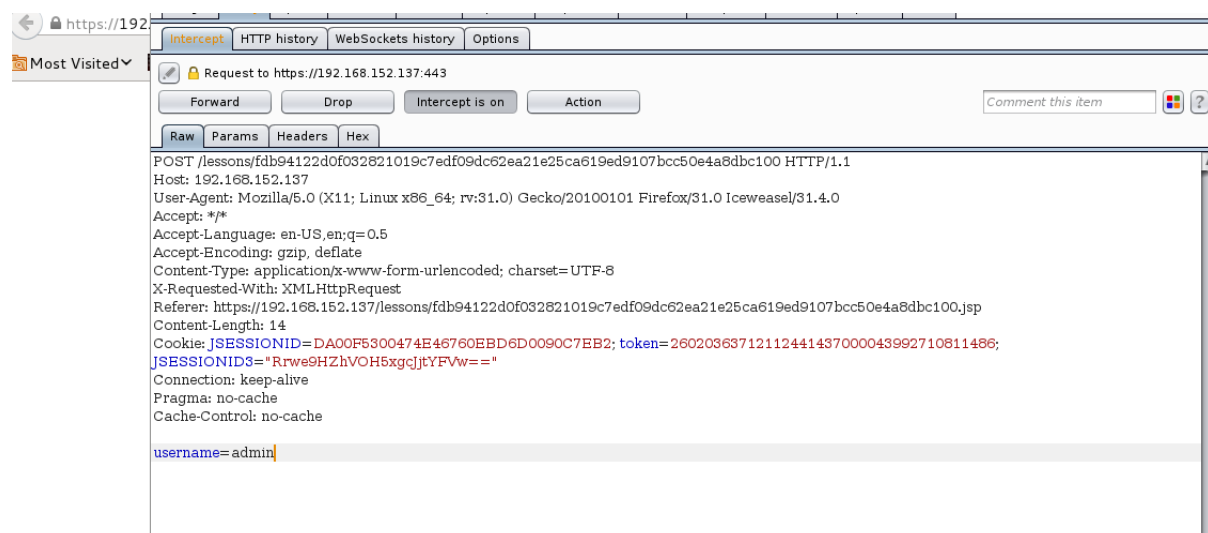
User: Guest

Age: 22

Address: 54 Kevin Street, Dublin

Email: guestAccount@securityShepherd.com

Private Message: No Private Message Set



Refresh your Profile

User: Admin

Age: 43

Address: 12 Bolton Street, Dublin

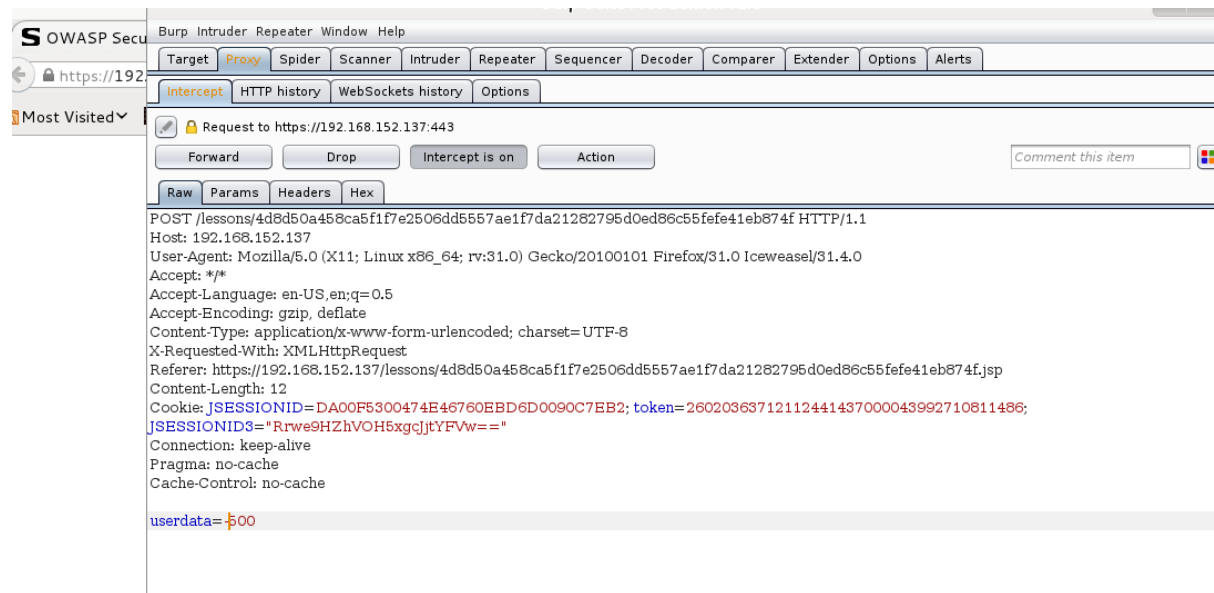
Email: administratorAccount@securityShepherd.com

Result Key:

vIVANFxu8Qzix98zHaFwj6uLSDNFU

Private Message:

Poor Data Validation



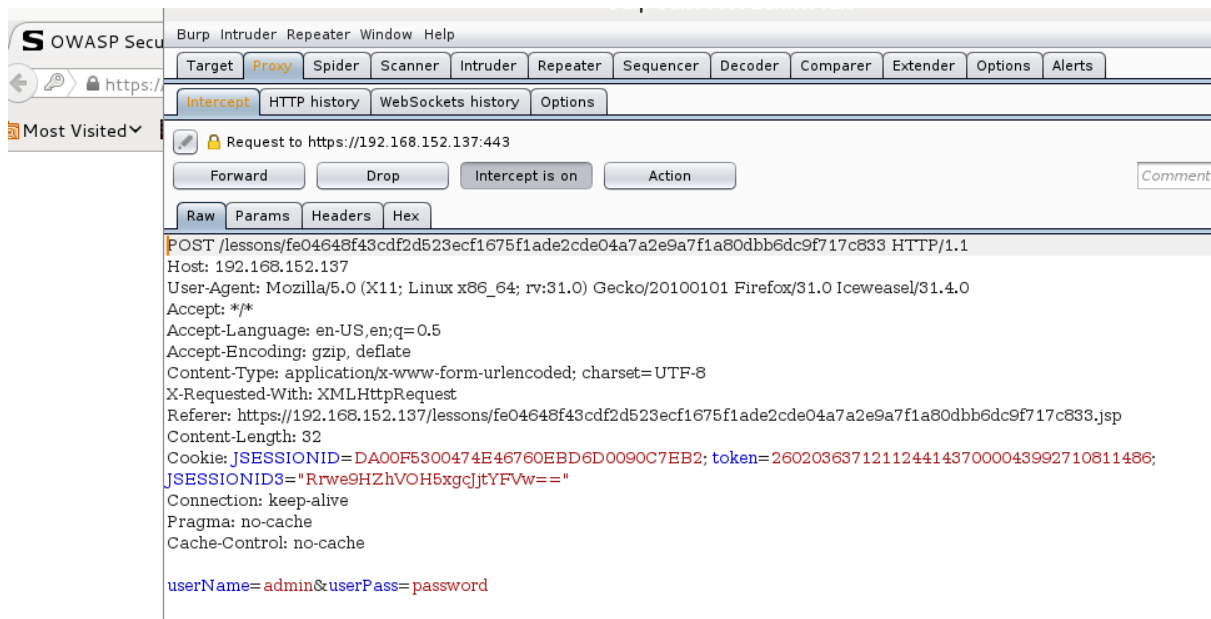
Validation Bypassed

You defeated the lesson validation. Result Key:

2vZknBtFShzhGR2vBD0JcuPo1QIZjtyUy8awlJw1iloksT8doj7iwqkSxkJWk

Copy to clipboard

Security Misconfiguration



User Name

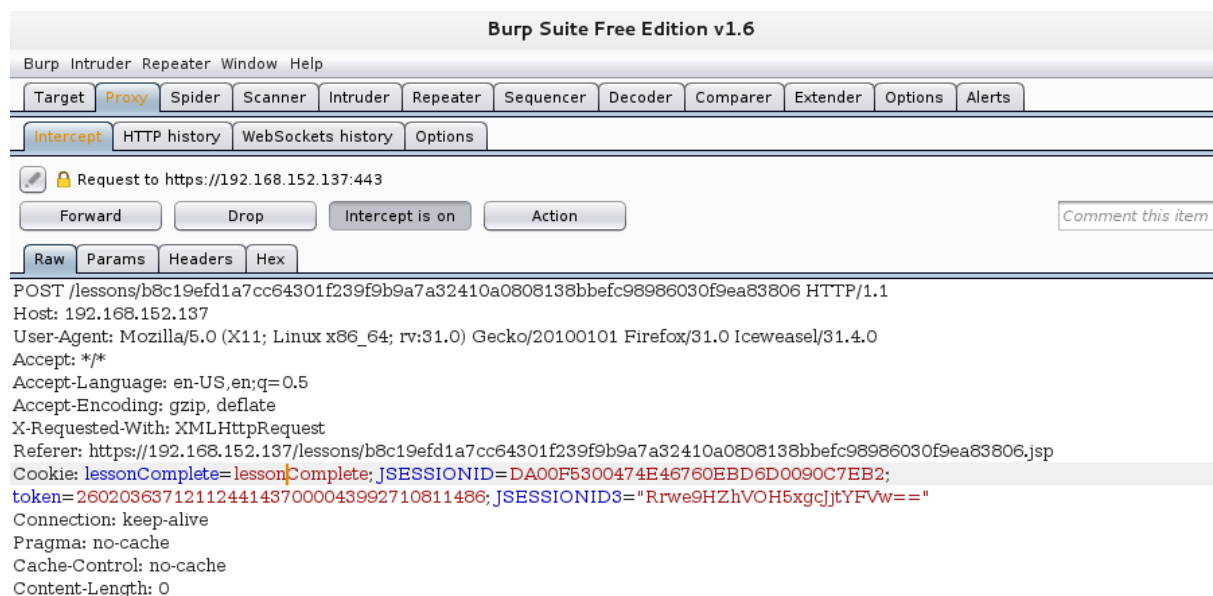
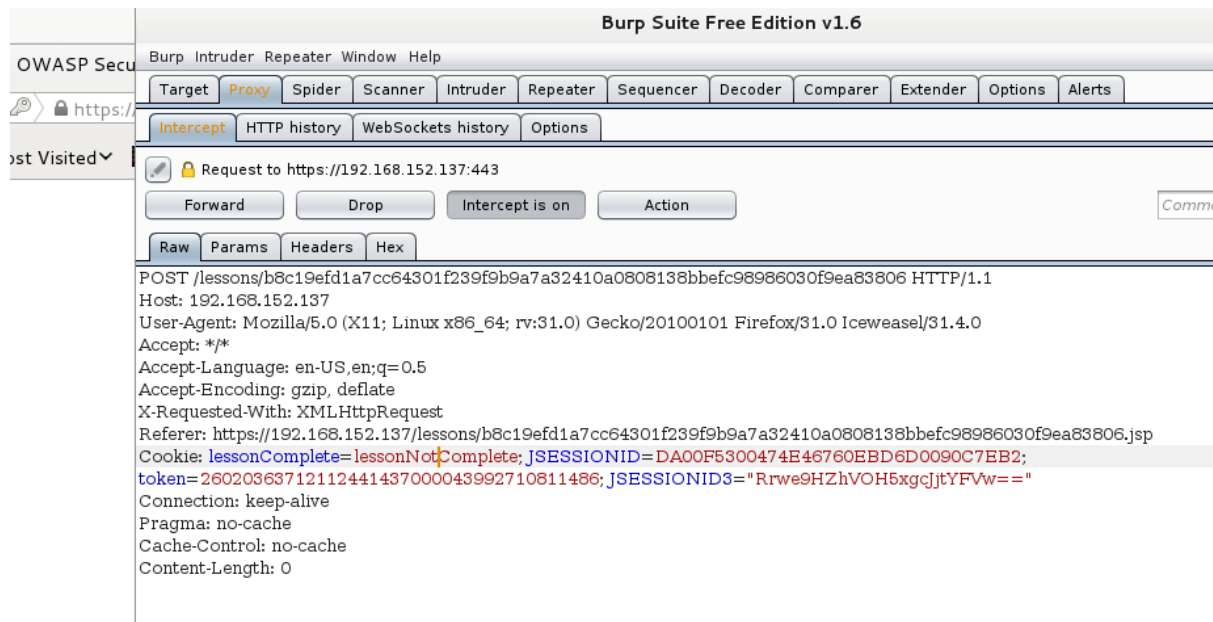
Password

Authentication Successful

You have successfully signed in with the default sign in details for this applicaiton. You should always change default passwords and avoid default administration usernames.

Result Key:

Broken Session Management



Complete This Lesson

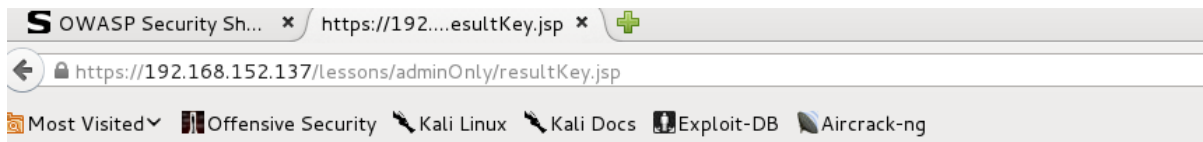
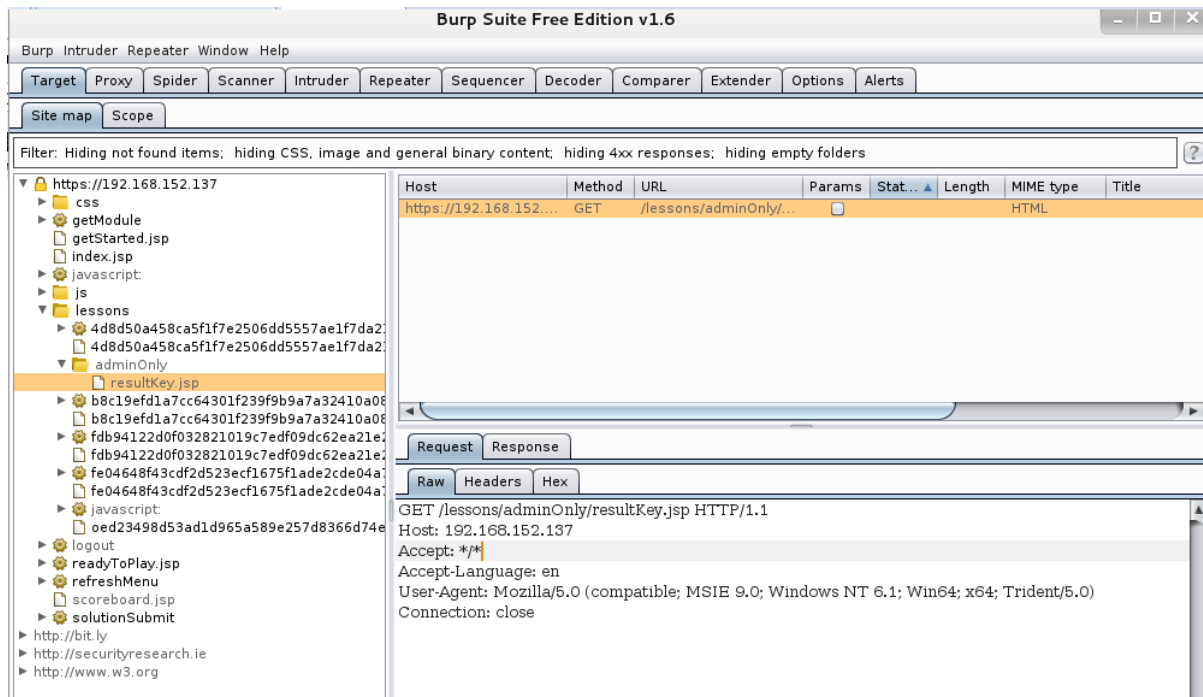
Lesson Complete

Congratulations, you have bypassed this lessons **VERY WEAK** session management. The result key for this lesson is

jVX0TP+JasTq54+ThwclynD9F64WcjxsmGOaQgf3O7LhNYBCs8f5x4VY

Copy to clipboard

Failure to Restrict URL Access



Result Key: uDG5S7f+WjKsNUabZmOPq8Fh/uZJIPIx20LcbYU0aeeALJ5AxIXYhRPeAYmwKgkg/z8PWr8p44KG5L/OF4Lcu/r7czGURF4ZstSiU9IklBcAcXTko22atw

Cross Site Scripting

Please enter the **Search term** that you want to look up

Well Done

You successfully executed the JavaScript alert command!

The result key for this lesson is



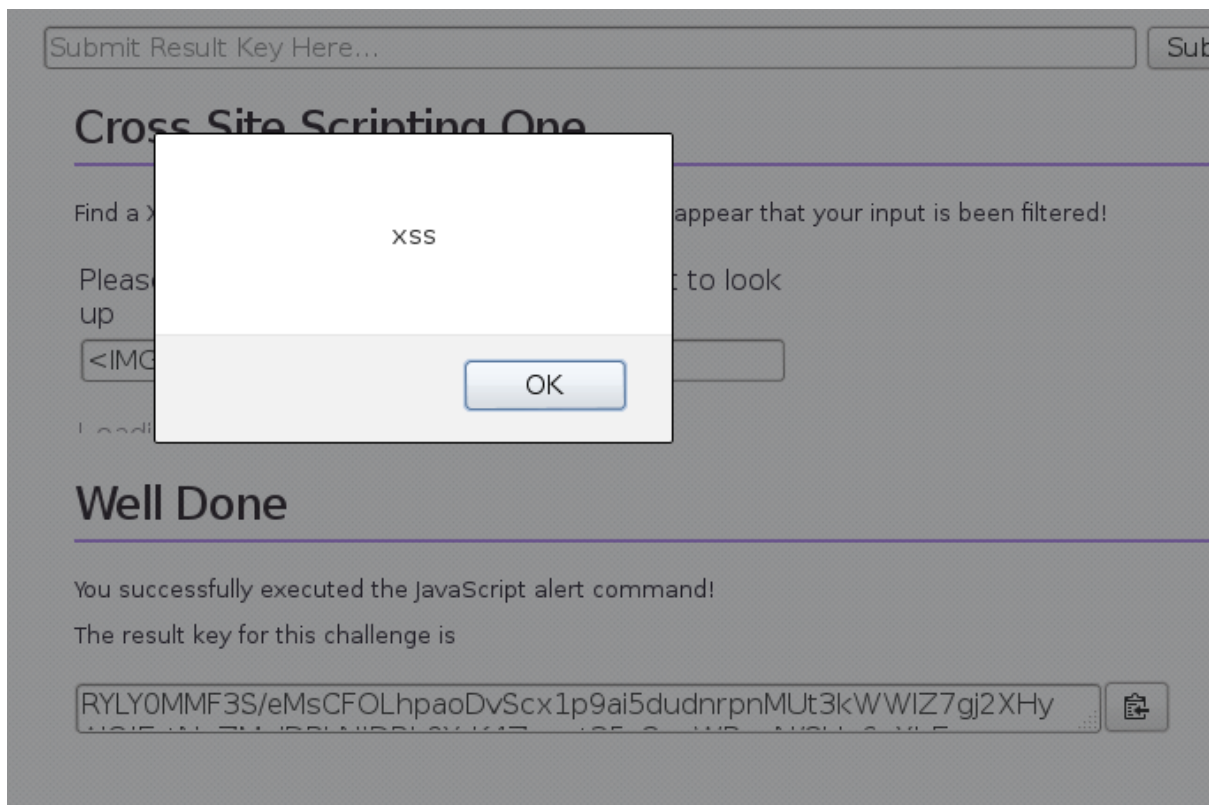
— . — .

Cross Site Scripting 1

Cross Site Scripting One

Find a XSS vulnerability in the following form. It would appear that your input is been filtered!

Please enter the **Search Term** that you want to look up



Private

Insecure Cryptographic Storage

Decode from Base64 format

Simply use the form below

YmFzZTY0aXNOb3RFbmnYeXB0aW9uQmFzZTY0aXNFbmnVZGluZ0Jhc2U2NEhp
ZGVzTm90aGluZ0Zyb21Zb3U=

< DECODE >

UTF-8

(You may also select input charset.)

base64isNotEncryptionBase64isEncodingBase64HidesNothingFromYou

Solution Submission Success

Insecure Cryptographic Storage completed! Congratulations.

SQL Injection

Please enter the **user name** of the user that you want to look up

Search Results

User Id	User Name	Comment
12345	user	Try Adding some SQL Code
12346	OR 1 = 1	Your Close, You need to escape the string with an apostrophe so that your code is interpreted
12543	Fred Mtenzi	A lecturer in DIT Kevin Street
14232	Mark Denihan	This guy wrote this application
61523	Cloud	Has a Big Sword
82642	qw!dshs@ab	Lesson Completed. The result key is 3c17f6bf34080979e0cebda5672e989c07ceec9fa4ee7b7c17c9e3ce26bc63e0

Insecure Cryptographic Storage Challenge 1

rdqtajqdmtwxjwzssnslymwtzlmymjknjqibmjwjfwjdtzltnslnymdt
zwgnlf

Use key: 21 ▼

Encrypt / Decrypt

Output:

mylovelyhorserunningthroughthefieldwhereareyougoingwithyourbiga

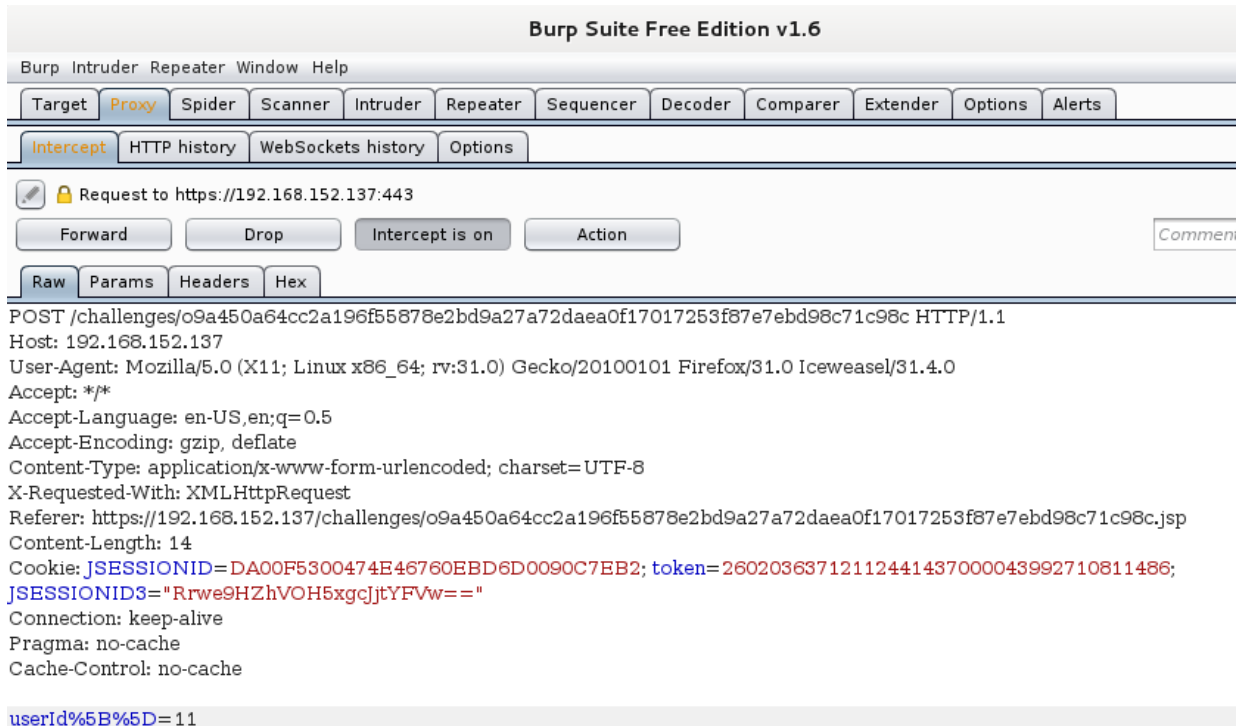
Submit Result Key Here...

Submit

Solution Submission Success

Insecure Cryptographic Storage Challenge 1 completed! Congratulations.

Insecure Direct Object Reference Challenge 1



The screenshot shows the Burp Suite interface with the 'Intercept' tab selected. A request to `https://192.168.152.137:443` is intercepted. The 'Intercept is on' button is highlighted. The request details are shown in the 'Raw' tab, displaying an HTTP POST request to `/challenges/o9a450a64cc2a196f55878e2bd9a27a72daea0f17017253f87e7ebd98c71c98c`. The request headers and body are visible, including the `Cookie` and `Referer` fields.

POST /challenges/o9a450a64cc2a196f55878e2bd9a27a72daea0f17017253f87e7ebd98c71c98c HTTP/1.1
Host: 192.168.152.137
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Firefox/31.0 Iceweasel/31.4.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Referer: https://192.168.152.137/challenges/o9a450a64cc2a196f55878e2bd9a27a72daea0f17017253f87e7ebd98c71c98c.jsp
Content-Length: 14
Cookie: JSESSIONID=DA00F5300474E46760EBD6D0090C7EB2; token=26020363712112441437000043992710811486; JSESSIONID3="Rrwe9HZhVOH5xgcjYtYFVw=="
Connection: keep-alive
Pragma: no-cache
Cache-Control: no-cache

userId%5B%5D=11

Insecure Direct Object References Challenge One

The result key for this challenge is stored in the private message for a user that is not listed below...

Will Bailey
Orla Cleary
Ronan Fitzpatrick
Pat McKenana

Show this Profile

Hidden User's Message

Result Key is `dd6301b38b5ad9c54b85d07c087aebec89df8b8c769d4da084a55663e6186742`

Poor Data Validation

Burp Suite Free Edition v1.6

Target Proxy Spider Scanner Intruder Repeater Sequencer Decoder Comparer Extender Options Alerts

Intercept HTTP history WebSockets history Options

Request to https://192.168.152.137:443


Forward Drop Intercept is on Action


Comment this item


Raw Params Headers Hex


POST /challenges/ca0e89caf3c50dbf9239a0b3c6f6c17869b2a1e2edc3aa6f029fd30925d66c7e HTTP/1.1
Host: 192.168.152.137
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Firefox/31.0 Iceweasel/31.4.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Referer: https://192.168.152.137/challenges/ca0e89caf3c50dbf9239a0b3c6f6c17869b2a1e2edc3aa6f029fd30925d66c7e.jsp
Content-Length: 57
Cookie: JSESSIONID=DA00F5300474E46760EBD6D0090C7EB2; token=26020363712112441437000043992710811486;
JSESSIONID3="Rrwe9HZhVOH5xgcJtYFVw=="
Connection: keep-alive
Pragma: no-cache
Cache-Control: no-cache

megustaAmount=1&trollAmount=1&rageAmount=-100¬BadAmount=1

 \$45

 \$15

 \$3000

 \$30

Please select how many items you would like to buy and click submit

Order Complete

Your order has been made and has been sent to our magic shipping department that knows where you want this to be delivered via brain wave sniffing techniques.

Your order comes to a total of **\$-1455**

Trolls were free, Well Done -

zpYWBgMyTnv+MdlgZ3WoAzzYIP2odcRsJ75B5Llsg2JFLfcG2fHR1GqkV

Submit Result Key Here...

Solution Submission Success

Poor Data Validation 1 completed! Congratulations.

SQL Injection 1

Please enter the **Customer Id** of the user that you want to look up

 sixshooter@deaf.com | | Well Done! The result Key is fd8e9a29dab791197115b58061b215594211e72c1680f1eacc50b0394133a09f |