

SESSION HIJACKING AT SHOPFAST E-COMMERCE PLATFORM

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What exactly this session hijacking means when a legitimate user login to a website it generally creates and entry with the data base and gives session id or cookie.

These are unique identifiers for logging session and they are randomly generated.

There are many methods for Session hijacking
Commonly

- Session sniffing
- Man in the browser
- Session side jacking
- Session fixation.....

I used session sniffing for implementing this attack

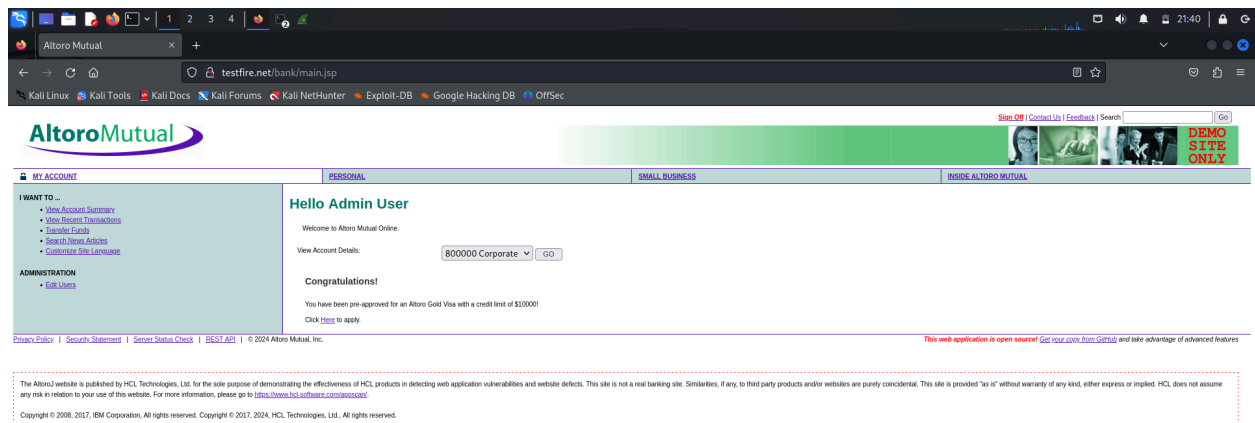
Tools commonly used are

- Wireshark
- Ettercap
- Burpsuite
- ZAP proxy..

I have done this with Wireshark and Ettercap

USING WIRESHARK

This is the demo website testfire.net



Wireshark interface showing a packet capture on interface eth0. The packet list pane displays several HTTP GET requests to a web application. The selected packet (No. 611) is an HTTP GET request for /style.css. The packet details pane shows the structure of the HTTP request, including the GET method, the URL, and the User-Agent header. The packet bytes pane displays the raw data of the packet in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
611	12.031695547	192.168.100.5	65.61.137.117	HTTP	389	GET /style.css HTTP/1.1
614	12.090865008	192.168.100.5	65.61.137.117	HTTP	399	GET /images/logo.gif HTTP/1.1
615	12.091124292	192.168.100.5	65.61.137.117	HTTP	400	GET /images/home3.jpg HTTP/1.1
634	12.140795911	192.168.100.5	65.61.137.117	HTTP	400	GET /images/home2.jpg HTTP/1.1
635	12.140832973	192.168.100.5	65.61.137.117	HTTP	402	GET /images/pf_lock.gif HTTP/1.1
636	12.140928330	192.168.100.5	65.61.137.117	HTTP	405	GET /images/header_pic.jpg HTTP/1.1
646	12.150915860	192.168.100.5	65.61.137.117	HTTP	403	GET /images/gradient.jpg HTTP/1.1
647	12.151081125	192.168.100.5	65.61.137.117	HTTP	400	GET /images/home1.jpg HTTP/1.1
701	12.267076572	192.168.100.5	65.61.137.117	HTTP	395	GET /favicon.ico HTTP/1.1
711	15.444238353	192.168.100.5	65.61.137.117	HTTP	483	GET /login.jsp HTTP/1.1
743	25.960993867	192.168.100.5	65.61.137.117	HTTP	626	POST /doLogin HTTP/1.1 (application/x-www-form-urlencoded)
747	26.063214307	192.168.100.5	65.61.137.117	HTTP	605	GET /bank/main.jsp HTTP/1.1

Frame 611: 386 bytes on wire (3088 bits), 386 bytes captured (3088 bits) on interface eth0, id 0
Ethernet II, Src: PCSystematic-bae1:32 (08:00:27:b8:e1:32), Dst: 92:54:00:12:35:00 (52:54:00:12:35:00)
Internet Protocol Version 4, Src: 192.168.100.5, Dst: 65.61.137.117
Transmission Control Protocol, Src Port: 46338, Dst Port: 80, Seq: 1, Ack: 1, Len: 332
Hypertext Transfer Protocol

Cookie: Character string

Packets: 1184 - Displayed: 12 (1.0%)

Profile: Default

Wireshark interface showing a packet capture on interface eth0. The packet list pane displays several HTTP GET requests to a web application. The selected packet (No. 743) is an HTTP POST request for /doLogin. The packet details pane shows the structure of the HTTP request, including the POST method, the URL, and the User-Agent header. The packet bytes pane displays the raw data of the packet in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
611	12.031695547	192.168.100.5	65.61.137.117	HTTP	389	GET /style.css HTTP/1.1
614	12.090865008	192.168.100.5	65.61.137.117	HTTP	399	GET /images/logo.gif HTTP/1.1
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636	12.140928330	192.168.100.5	65.61.137.117	HTTP	405	GET /images/header_pic.jpg HTTP/1.1
646	12.150915860	192.168.100.5	65.61.137.117	HTTP	403	GET /images/gradient.jpg HTTP/1.1
647	12.151081125	192.168.100.5	65.61.137.117	HTTP	400	GET /images/home1.jpg HTTP/1.1
701	12.267076572	192.168.100.5	65.61.137.117	HTTP	395	GET /favicon.ico HTTP/1.1
711	15.444238353	192.168.100.5	65.61.137.117	HTTP	483	GET /login.jsp HTTP/1.1
743	25.960993867	192.168.100.5	65.61.137.117	HTTP	626	POST /doLogin HTTP/1.1 (application/x-www-form-urlencoded)
747	26.063214307	192.168.100.5	65.61.137.117	HTTP	605	GET /bank/main.jsp HTTP/1.1

Frame 743: 626 bytes on wire (5008 bits), 626 bytes captured (5008 bits) on interface eth0, id 0
Ethernet II, Src: PCSystematic-bae1:32 (08:00:27:b8:e1:32), Dst: 92:54:00:12:35:00 (52:54:00:12:35:00)
Internet Protocol Version 4, Src: 192.168.100.5, Dst: 65.61.137.117
Transmission Control Protocol, Src Port: 46352, Dst Port: 80, Seq: 1122, Ack: 31952, Len: 572
Hypertext Transfer Protocol

Content-Type: application/x-www-form-urlencoded

Form item: "uid" = "admin"
Form item: "passw" = "admin"
Form item: "btnSubmit" = "Login"

Cookie: Character string

Packets: 1200 - Displayed: 12 (1.0%)

Profile: Default

Firefox ESR

http.cookie

No.	Time	Source	Destination	Protocol	Length	Info
611	12.931695547	192.168.100.5	65.61.137.117	HTTP	350	GET /style.css HTTP/1.1
614	12.098605008	192.168.100.5	65.61.137.117	HTTP	399	GET /images/logo.gif HTTP/1.1
615	12.091124292	192.168.100.5	65.61.137.117	HTTP	400	GET /images/home3.jpg HTTP/1.1
634	12.140785911	192.168.100.5	65.61.137.117	HTTP	400	GET /images/home2.jpg HTTP/1.1
635	12.149832973	192.168.100.5	65.61.137.117	HTTP	402	GET /images/pf_lock.gif HTTP/1.1
636	12.149928330	192.168.100.5	65.61.137.117	HTTP	405	GET /images/header_pic.jpg HTTP/1.1
646	12.150915060	192.168.100.5	65.61.137.117	HTTP	403	GET /images/gradient.jpg HTTP/1.1
647	12.151081125	192.168.100.5	65.61.137.117	HTTP	400	GET /images/home1.jpg HTTP/1.1
701	12.267076572	192.168.100.5	65.61.137.117	HTTP	395	GET /favicon.ico HTTP/1.1
711	15.444230353	192.168.100.5	65.61.137.117	HTTP	483	GET /login.jsp HTTP/1.1
743	25.366093387	192.168.100.5	65.61.137.117	HTTP	620	POST /doLogin HTTP/1.1 (application/x-www-form-urlencoded)
747	26.063214307	192.168.100.5	65.61.137.117	HTTP	605	GET /bank/main.jsp HTTP/1.1

Hypertext Transfer Protocol

POST /doLogin HTTP/1.1\r\n

Host: testfire.net\r\n

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8\r\n

Accept-Language: en-US,en;q=0.5\r\n

Accept-Encoding: gzip, deflate\r\n

Content-Type: application/x-www-form-urlencoded\r\n

Content-Length: 37\r\n

Origin: http://testfire.net\r\n

Connection: keep-alive\r\n

Referer: http://testfire.net/login.jsp\r\n

Cookie: JSESSIONID=C2472F190F6ED7250CA787ED41C5F\r\n

Upgrade-Insecure-Requests: 1\r\n

\r\n

[Full request URI: http://testfire.net/doLogin]

[HTTP request 4/5]

[Prev request in frame: 711]

[Response in frame: 745]

[Next request in frame: 747]

File Data: 37 bytes

HTML Form URL Encoded: application/x-www-form-urlencoded

Form item: "uid" = "admin"

Form item: "pass" = "admin"

Form item: "btnSubmit" = "Login"

Cookie: Character string

Packets: 1317 - Displayed: 12 (0.9%)

Profile: Default

Aug 28 17:38

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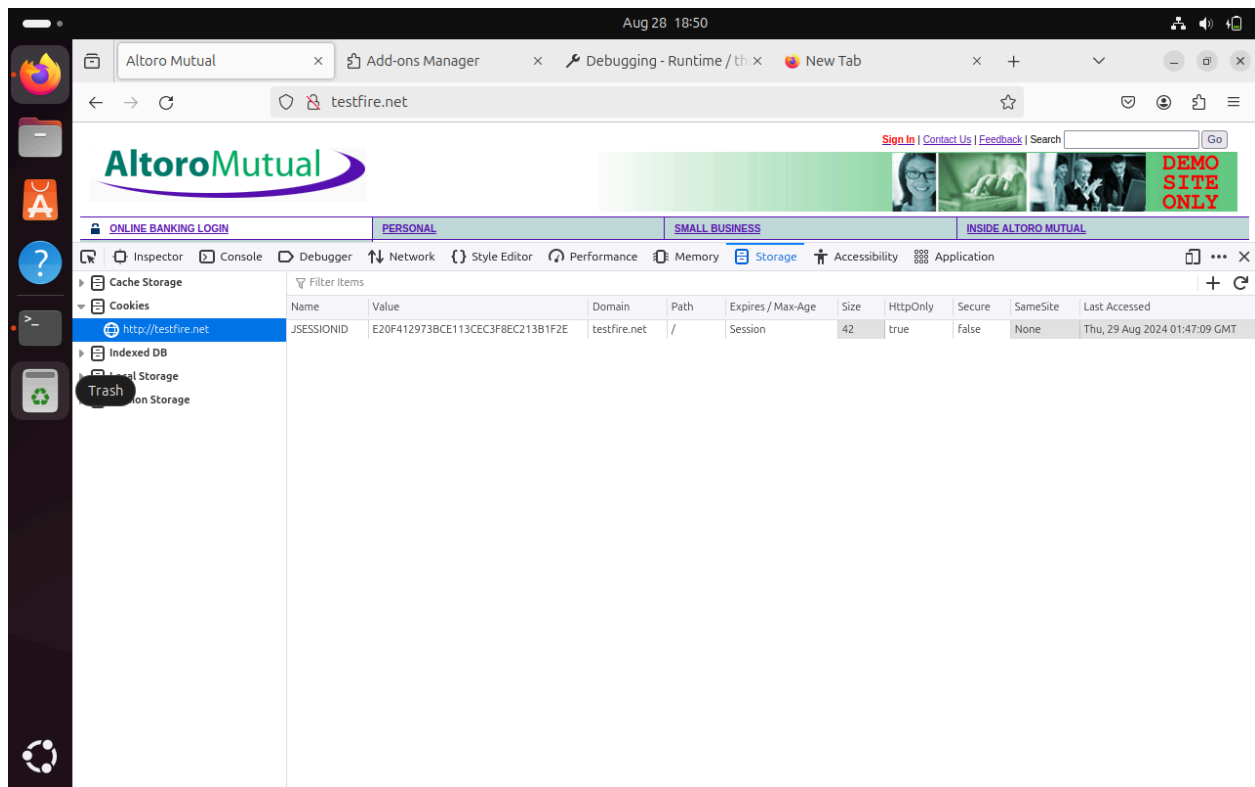
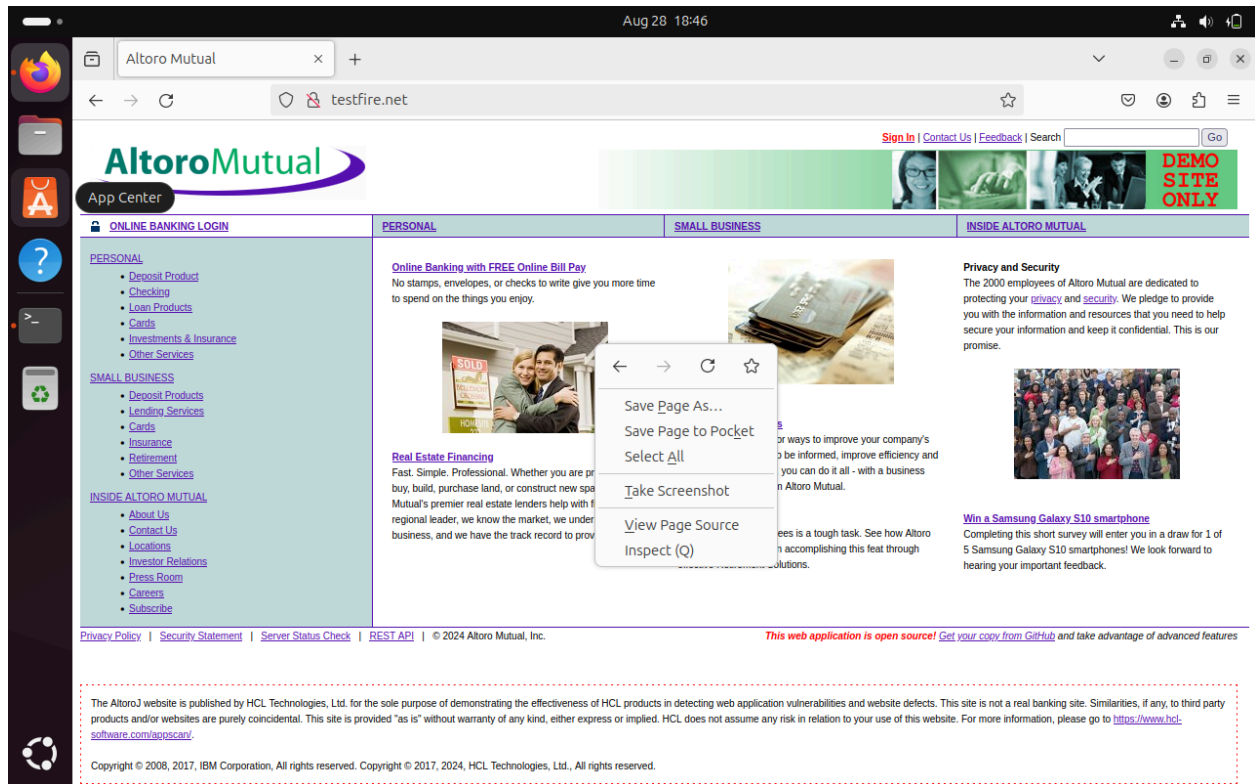
Completing this short survey will enter you in a draw for 1 of 5 Samsung Galaxy S10 smartphones! We look forward to hearing your important feedback.

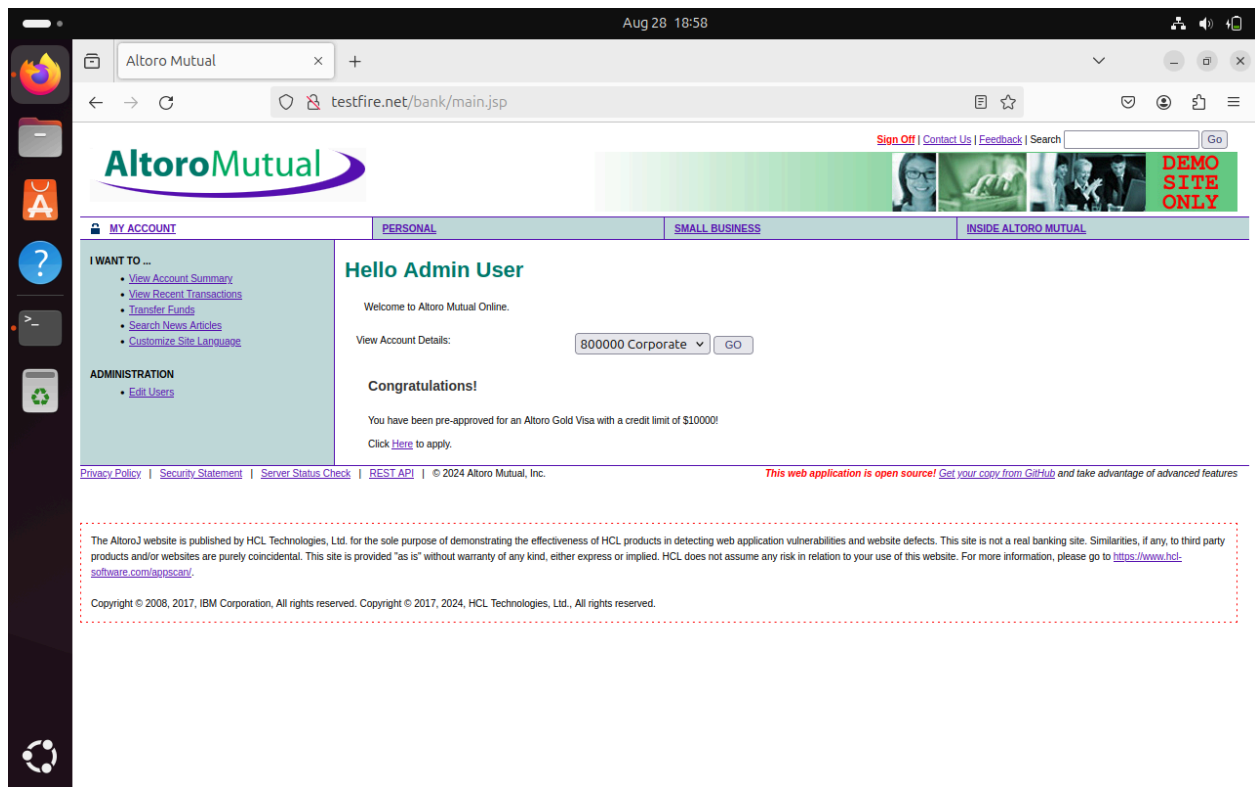
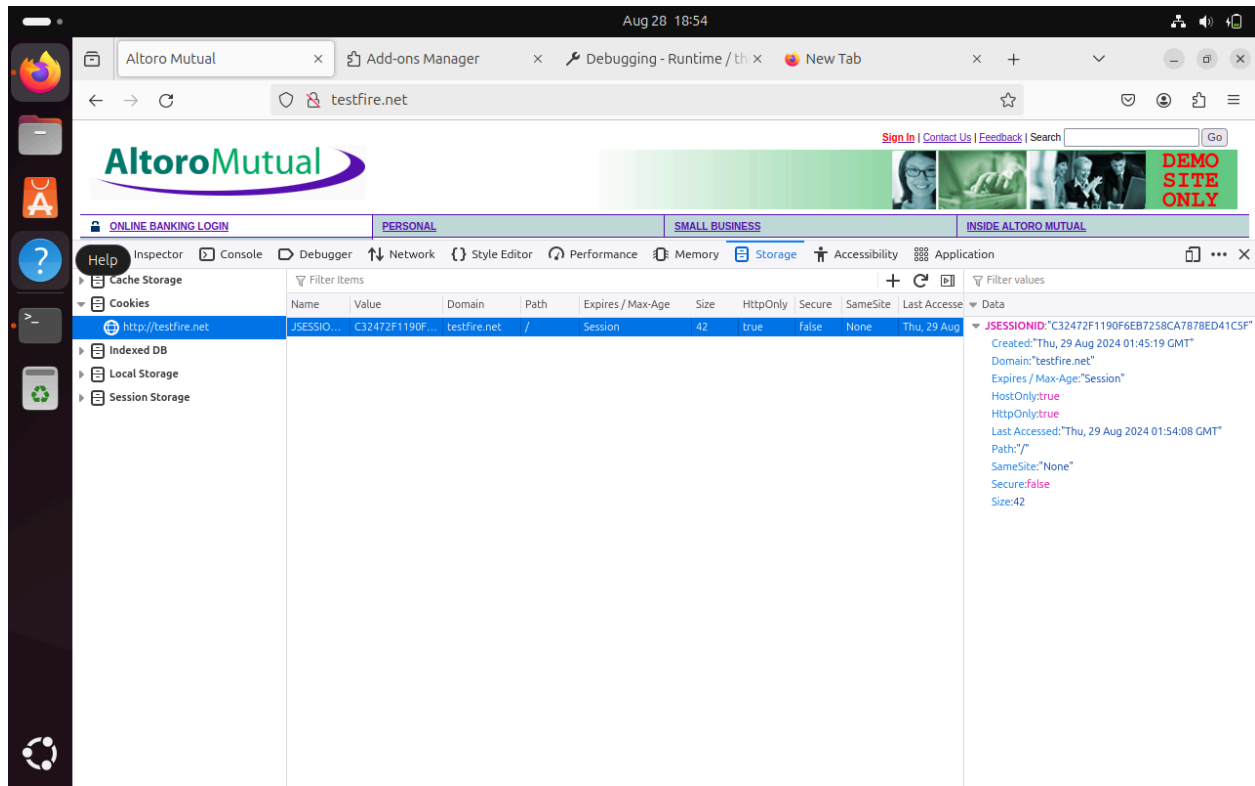
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