

### Practical No.5

**Aim:** Network Traffic Capture and DoS Attack with Wireshark and Nemesy

**1. Network Traffic Capture:**

- Use Wireshark to capture network traffic on a specific network interface.
- Analyze the captured packets to extract relevant information and identify potential security issues.

**2. Denial of Service (DoS) Attack:**

- Use Nemesy to launch a DoS attack against a target system or network.
- Observe the impact of the attack on the target's availability and performance.

The screenshot shows a web browser window for the 'acunetix acuart' test site. The URL is 'http://www.acuart.com/test'. The page title is 'TEST and Demonstration site for Acunetix Web Vulnerability Scanner'. The navigation menu includes 'home', 'categories', 'artists', 'disclaimer', 'your cart', 'guestbook', and 'AJAX Demo'. On the left, there is a sidebar with links like 'search art', 'Browse categories', 'Browse artists', 'Your cart', 'Signup', 'Your profile', 'Our guestbook', and 'AJAX Demo'. Below this is a 'Links' section with 'Security art', 'PHP scanner', 'PHP vuln help', and 'Fractal Explorer'. The main content area is titled 'Signup new user'. It contains instructions: 'Please do not enter real information here. If you press the submit button you will be transferred to a secured connection.' There are input fields for 'Username' (Bhumika), 'Password' (redacted), 'Retype password' (redacted), 'Name' (Bhumika), 'Credit card number' (123456789765), 'E-Mail' (shelarbhumikacs232434@gmail.com), 'Phone number' (9768817033), and 'Address' (Navi Mumbai). A 'signup' button is at the bottom right of the form. The browser status bar at the bottom shows icons for battery, signal, and volume, along with 'ENG IN', '13:20', and the date '26-11-2025'.

## ACUNETIX ART

You have been introduced to our database with the above informations:

- Username: Bhumika
- Password: Bhumika#312464
- Name: Bhumika
- Address: Navi Mumbai
- E-Mail: shelarbhumiakacs232434@gmail.com
- Phone number: 9768817033
- Credit card: 123456789765

Now you can login from [here](#).

The screenshot shows the Acunetix Web Vulnerability Scanner interface. At the top, there's a status bar with icons for signal strength, battery, and time (13:21, 26-11-2025). Below it is a menu bar with File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Wireless, Tools, and Help. A toolbar follows with various icons. The main window has a title bar "http". The table below lists network traffic captures:

No.	Time	Source	Destination	Protocol	Length	Info
15388	170.268050	2405:200:1602::312c...	2405:201:5:889a:5d9...	HTTP	261	HTTP/1.1 200 OK (text/plain)
15390	170.268050	2405:200:1602::312c...	2405:201:5:889a:5d9...	HTTP	261	HTTP/1.1 200 OK (text/plain)
15453	170.317713	192.168.29.213	49.44.50.10	HTTP	201	GET /connecttest.txt HTTP/1
15454	170.317723	192.168.29.213	49.44.50.10	HTTP	201	GET /connecttest.txt HTTP/1
15465	170.328559	49.44.50.10	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
15467	170.328559	49.44.50.10	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
27380	205.707139	2405:201:5:889a:5d9...	2405:200:1602::312c...	HTTP	222	GET /connecttest.txt HTTP/1
27383	205.707554	2405:201:5:889a:5d9...	2405:200:1602::312c...	HTTP	222	GET /connecttest.txt HTTP/1
27386	205.710607	192.168.29.213	49.44.50.19	HTTP	201	GET /connecttest.txt HTTP/1
27389	205.711902	192.168.29.213	49.44.50.19	HTTP	201	GET /connecttest.txt HTTP/1
27391	205.714972	2405:200:1602::312c...	2405:201:5:889a:5d9...	HTTP	261	HTTP/1.1 200 OK (text/plain)
27396	205.715969	2405:200:1602::312c...	2405:201:5:889a:5d9...	HTTP	261	HTTP/1.1 200 OK (text/plain)
27402	205.719389	49.44.50.19	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
27407	205.720399	49.44.50.19	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
47234	268.033083	192.168.29.213	44.228.249.3	HTTP	875	POST /secured/newuser.php H
47301	268.319086	44.228.249.3	192.168.29.213	HTTP	853	HTTP/1.1 200 OK (text/html)
47302	268.335629	192.168.29.213	44.228.249.3	HTTP	415	GET /secured/style.css HTTP

Below the table, there's a hex dump of the selected packet (Frame 47234) and a list of its details:

```
> Frame 47234: Packet, 875 bytes on wire (7000 bits), 8 bytes captured (640 bits), 100% loss.  
> Ethernet II, Src: CloudNetwork_ab:52:37 (50:c2:e8:ab:  
> Internet Protocol Version 4, Src: 192.168.29.213, Dst:  
> Transmission Control Protocol, Src Port: 6656, Dst Po
```

Hex dump:

0000	a8	da	0c	04	cf	52	50	c2	e8	ab	52	37	08	00	45	0
0010	03	5d	e1	87	40	00	80	06	11	ae	c0	a8	1d	d5	2c	e
0020	f9	03	1a	00	00	50	f0	1b	5c	ec	65	74	28	2a	50	1
0030	00	ff	2f	4f	00	00	50	4f	53	54	20	2f	73	65	63	7

# SHETH L.U.J. COLLEGE OF ARTS & SIR M.V. COLLEGE OF SCIENCE & COMMERCE

http

No.	Time	Source	Destination	Protocol	Length	Info
15370	170.247529	2405:201:5:889a:5d9..	2405:200:1602::312c..	HTTP	222	GET /connecttest.txt HTTP/1.1
15388	170.266890	2405:200:1602::312c..	2405:201:5:889a:5d9..	HTTP	261	HTTP/1.1 200 OK (text/plain)
15398	170.266890	2405:200:1602::312c..	2405:201:5:889a:5d9..	HTTP	261	HTTP/1.1 200 OK (text/plain)
15453	170.317713	192.168.29.213	49.44.50.18	HTTP	201	GET /connecttest.txt HTTP/1.1
15454	170.317723	192.168.29.213	49.44.50.18	HTTP	201	GET /connecttest.txt HTTP/1.1
15465	170.328559	49.44.50.18	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
15467	170.328559	49.44.50.18	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
27388	205.707139	2405:201:5:889a:5d9..	2405:200:1602::312c..	HTTP	222	GET /connecttest.txt HTTP/1.1
27383	205.707554	2405:201:5:889a:5d9..	2405:200:1602::312c..	HTTP	222	GET /connecttest.txt HTTP/1.1
27386	205.710607	192.168.29.213	49.44.50.19	HTTP	201	GET /connecttest.txt HTTP/1.1
27389	205.711902	192.168.29.213	49.44.50.19	HTTP	201	GET /connecttest.txt HTTP/1.1
27391	205.714972	2405:200:1602::312c..	2405:201:5:889a:5d9..	HTTP	261	HTTP/1.1 200 OK (text/plain)
27396	205.715969	2405:200:1602::312c..	2405:201:5:889a:5d9..	HTTP	261	HTTP/1.1 200 OK (text/plain)
27402	205.719389	49.44.50.19	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
27407	205.720399	49.44.50.19	192.168.29.213	HTTP	241	HTTP/1.1 200 OK (text/plain)
+ 47234	268.038083	192.168.29.213	44.228.249.3	HTTP	875	POST /secured/newuser.php HTTP/1.1 (application/x-www-form-urlencoded)
+ 47301	268.319886	44.228.249.3	192.168.29.213	HTTP	285	HTTP/1.1 200 OK (text/html)
+ 47302	268.356269	192.168.29.213	44.228.249.3	HTTP	415	GET /secured/style.css HTTP/1.1
+ 47322	268.623162	44.228.249.3	192.168.29.213	HTTP	1156	HTTP/1.1 200 OK (text/css)

Frame 47234: Packet, 875 bytes on wire (7000 bits), 875 bytes captured (7000 bits) on interface \Device\NPF\_{475C16F3-D889-4518-  
Ethernet II, Src: CloudNetwork\_ab51:37 (50:c1:e0:ab:51:37), Dst: ServerComPci\_04:cf:52 (a8:da:0c:04:cf:52)  
> Internet Protocol Version 4, Src: 192.168.29.213, Dst: 44.228.249.3  
> Transmission Control Protocol, Src Port: 6556, Dst Port: 80, Seq: 1, Ack: 1, Len: 821  
> Hypertext Transfer Protocol  
> HTML Form URL Encoded: application/x-www-form-urlencoded

Bytes 688-874: HTML Form URL Encoded (unencoded-form)

Profile: Default

ENG IN 13:27 26-11-2025

Wireshark - Packet 47234 · Wi-Fi

```

Key: uname
Value: Bhumika
Form item: "upass" = "Bhumika#312464"
    Key: upass
    Value: Bhumika#312464
    Form item: "upass2" = "Bhumika#312464"
    Form item: "urname" = "Bhumika"
    Form item: "ucc" = "123456789765"
    Form item: "uemail" = "shelarbhumiakacs232434@gmail.com"
    Form item: "uphone" = "9768817033"
    Form item: "uaddress" = "Navi Mumbai"
        Key: uaddress
        Value: Navi Mumbai
    Form item: "signup" = "signup"

```

0250	74 70 68 70 2e 76 75 6c 6e 77 65 62 2e 63 6f 6d	tphp.vul nweb.com
0260	2f 73 69 67 6e 75 70 2e 70 68 70 0d 0a 41 63 63	/signup. php. Acc
0270	65 70 74 2d 45 6e 63 6f 64 69 6e 67 3a 20 67 7a	ept-Encod ing: gz
0280	69 70 2c 20 64 65 66 6c 61 74 65 0d 0a 41 63 63	ip, defl ate: Acc
0290	65 70 74 2d 4c 61 6e 67 75 61 67 65 3a 20 65 6e	ept-Lang uage: en
02a0	2d 55 53 2c 65 6e 3b 71 3d 30 2e 39 0d 0a 0d 0a	-US,en;q =0.9... .
02b0	75 75 6e 61 6d 65 3d 42 68 75 6d 69 6b 61 26 75	username=B humika&u
02c0	70 61 73 73 3d 42 68 75 6d 69 6b 61 25 32 33 33	pass=Bhu mika%233
02d0	31 32 34 36 34 26 75 70 61 73 73 32 3d 42 68 75	12464&up ass2=Bhu
02e0	6d 69 6b 61 25 32 33 33 31 32 34 36 34 26 75 72	mika%233 12464&ur
02f0	6e 61 6d 65 3d 42 68 75 6d 69 6b 61 26 75 63 63	name=Bhu mika&ucc
0300	3d 31 32 33 34 35 36 37 38 39 37 36 35 26 75 65	=1234567 89765&ue
0310	6d 61 69 6c 3d 73 68 65 6c 61 72 62 68 75 6d 69	mail=she larbhum
0320	6b 61 63 73 32 33 32 34 33 34 25 34 30 67 6d 61	kacs2324 34%40gma
0330	69 6c 2e 63 6f 6d 26 75 70 68 6f 6e 65 3d 39 37	il.com&u phone=97
0340	36 38 38 31 37 30 33 33 26 75 61 64 64 72 65 73	68817033 &uaddres
0350	73 3d 4e 61 76 69 2b 4d 75 6d 62 61 69 26 73 69	s=Navi+M umbai&si
0360	67 6e 75 70 3d 73 69 67 6e 75 70	gnup=sig nup

Profile: Default

ENG IN 13:24 26-11-2025