

# NETCOP

## Overview

Today, almost all organizations provide E-Mail and Web browsing facilities to the employees. Such facilities are intended for business use, but can sometimes be used for activities detrimental to the organization, e.g. sending corporate secrets by email to outside parties. Netcop is an enterprise security tool that allows an organization to monitor all the incoming/outgoing Internet traffic and send a copy of all “suspicious” messages to designated corporate security personnel for examination. Thus, it helps an organization to keep an eye on the Internet/Email activity and safeguard the interests of the organization.

## How Netcop Works?

- Netcop server application is installed on a server machine that is directly connected to the Internet line, e.g. a Proxy Server.
- Netcop monitoring client is installed on an administrative workstation machine.
- The administrator can set up the parameters for monitoring the traffic, which can be one or more of the following:
  - A list of keywords
  - A list of email addresses
  - A list of IP addresses
- Netcop sniffs all TCP/IP packets passing through the server to the internet either through modems or routers and looks for any SMTP/POP3 packets (email) or HTTP packets (web pages) for any of the parameters set by the administrator in the previous step.
- If any packets with matching parameters are found, then the entire message is reassembled and sent to monitoring client. Even if the listed keyword is found in the attachment of an email rather than the main body, such a message will still be intercepted.
- At the monitoring station, the security person sees a list of all the messages intercepted, the originating machine’s address, the keywords found and the actual message (email or web page). See the figure below.

Untitled - Network Monitor

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ID	Date	Time	Size	Type	Keyword	Client IP:Port	C	P...
1	15/1/2003	14:54:7	347	HTTP	times	61.1.106.200:49...	1...	
2	15/1/2003	14:54:10	352	HTTP	times	61.1.106.200:48...	1...	
3	15/1/2003	14:54:13	352	HTTP	times	61.1.106.200:49...	1...	
4	15/1/2003	14:54:24	402	HTTP	times	61.1.106.200:53...	1...	
5	15/1/2003	14:54:25	64507	HTTP	Media, s...	61.1.106.200:46...	1...	
6	15/1/2003	14:54:29	374	HTTP	times	61.1.106.200:53...	1...	
7	15/1/2003	14:54:29	378	HTTP	times	61.1.106.200:54...	1...	
8	15/1/2003	14:54:31	376	HTTP	times	61.1.106.200:54...	1...	
9	15/1/2003	14:54:36	362	HTTP	times	61.1.106.200:55...	1...	
10	15/1/2003	14:54:40	14688	HTTP	Media	61.1.106.200:55...	1...	
11	15/1/2003	14:55:0	377	HTTP	times	61.1.106.200:60...	1...	
12	15/1/2003	14:55:1	392	HTTP	times	61.1.106.200:59...	1...	
13	15/1/2003	14:55:2	321	HTTP	times	61.1.106.200:50...	1...	
14	15/1/2003	14:55:2	376	HTTP	times	61.1.106.200:60...	1...	
15	15/1/2003	14:55:4	12332	HTTP	times	61.1.106.200:51...	1...	
16	15/1/2003	14:55:15	377	HTTP	times	61.1.106.200:62...	1...	
17	15/1/2003	14:55:45	14688	HTTP	Media	61.1.106.200:63...	1...	
18	15/1/2003	14:56:26	11912	HTTP	times	61.1.106.200:90:30	1...	
19	15/1/2003	14:58:4	13128	HTTP	EBSSOLUTE	61.1.106.200:48...	1...	
20	15/1/2003	14:59:09	388	HTTP	times	61.1.106.200:26...	1...	
21	15/1/2003	14:59:09	377	HTTP	times	61.1.106.200:27...	1...	
22	15/1/2003	14:59:40	2838	HTTP	times	61.1.106.200:27...	1...	
23	15/1/2003	14:59:40	376	HTTP	times	61.1.106.200:27...	1...	
24	15/1/2003	14:59:40	404	HTTP	times	61.1.106.200:28...	1...	
25	15/1/2003	15:0:45	10070	HTTP	Media	61.1.106.200:31...	1...	
26	15/1/2003	15:2:39	2032	SMTP	EBSSOLUTE	61.1.106.200:40...	1...	
27	15/1/2003	15:3:54	23452	HTTP	EBSSOLUTE	61.1.106.200:8242	1...	

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