

Annexe - I

Structure du fichier de Sortie

Trame Numéro : 1

Trame Ethernet

Source Ethernet Address: 00:E0:16:05:B6:87
Destination Ethernet Address: 00:A0:24:0F:29:F5
Encapsulated Protocol: IP

IP Header

Version: 4
Header Length (IHL): 20 bytes
Type of Service: 0x00
Total length: 44 bytes
Identification: 0x05B9
Flags: MF=off, DF=off
Fragment Offset: 0
Time to live (TTL): 58
Encapsulated Protocol: TCP
Header Checksum: 0xE529
Source IP Address: 132.204.24.23
Destination IP Address: 132.203.114.76

TCP Header

Source Port: 1456
Destination Port: 23 (Telnet)
Sequence Number: 0558528000
Acknowledgement Number: 0000000000
Header Length: 24 bytes
Flags: URG =off
ACK =off
PSH =off
RST =off
SYN =on
FIN =off
Window Advertisement: 4096 bytes
Checksum: 0x552B
Urgent Pointer: 0
Options: 0x0204 0x05b4

TCP Data

<Not Data >

Checksum 0x5555

Ethernet Frame Format

	6 octets	6 octets	2 octets	46 à 1500 octets	4 octets
Préambule	Adresse destination	Adresse source	Type	Données LLC	Checksum

Internet Header Format

0	1	2	3
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1			
Version	IHL	Type of Service	Total Length
	Identification	Flags	Fragment Offset
	Time to Live		Header Checksum
	Source Address		
	Destination Address		
	Options		Padding

TCP Header Format

0	1	2	3
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1			
	Source Port		Destination Port
	Sequence Number		
	Acknowledgment Number		
	Data Offset	Reserved	U A P R S F
		R C S S Y I	Window
		G K H T N N	
	Checksum		Urgent Pointer
	Options		Padding
	data		

Annexe - II

Valeur du Champ Version ds IP

Decimal	Keyword	Version
-----	-----	-----
0		Reserved
1-3		Unassigned
4	IP	Internet Protocol
5	ST	ST Datagram Mode
6	IPv6	Internet Protocol version 6
7	TP/IX	TP/IX: The Next Internet
8	PIP	The P Internet Protocol
9	TUBA	TUBA
10-14		Unassigned
15		Reserved

Valeur du champ Protocole dans IP

Dans le protocole Internet, il y a un champ appelé Protocole, pour identifier le protocole de niveau supérieur. C'est un champ de 8 bits.

Voici les numéros de protocole Internet assignés :

Decimal	Keyword	Protocol
0		Reserved
1	ICMP	Internet Control Message
2	IGMP	Internet Group Management
3	GGP	Gateway-to-Gateway
4		Unassigned
5	ST	Stream
6	TCP	Transmission Control
7	UCL	UCL
8	EGP	Exterior Gateway Protocol
9	IGP	any private interior gateway
10	BBN-RCC-MON	BBN RCC Monitoring
11	NVP-II	Network Voice Protocol
12	PUP	PUP
13	ARGUS	ARGUS
14	EMCON	EMCON
15	XNET	Cross Net Debugger
16	CHAOS	Chaos
17	UDP	User Datagram

18	MUX	Multiplexing
19	DCN-MEAS	DCN Measurement Subsystems
20	HMP	Host Monitoring
21	PRM	Packet Radio Measurement
22	XNS-IDP	XEROX NS IDP
23	TRUNK-1	Trunk-1
24	TRUNK-2	Trunk-2
25	LEAF-1	Leaf-1
26	LEAF-2	Leaf-2
27	RDP	Reliable Data Protocol
28	IRTP	Internet Reliable Transaction
29	ISO-TP4	ISO Transport Protocol Class 4
30	NETBLT	Bulk Data Transfer Protocol
31	MFE-NSP	MFE Network Services Protocol
32	MERIT-INP	MERIT Internodal Protocol
33	SEP	Sequential Exchange Protocol
34	3PC	Third Party Connect Protocol
35-60		Unassigned
61		any host internal protocol
62	CFTP	CFTP
63		any local network
64	SAT-EXPAK	SATNET and Backroom EXPAK
65		Unassigned
66	RVD	MIT Remote Virtual Disk Protocol
67	IPPC	Internet Pluribus Packet Core
68		any distributed file system
69	SAT-MON	SATNET Monitoring
70	VISA	VISA Protocol
71	IPCV	Internet Packet Core Utility
72-75		Unassigned
76	BR-SAT-MON	Backroom SATNET Monitoring
77	SUN-ND	SUN ND PROTOCOL-Temporary
78	WB-MON	WIDEBAND Monitoring
79	WB-EXPAK	WIDEBAND EXPAK
80	ISO-IP	ISO Internet Protocol
81	VMTP	VMTP
82	SECURE-VMTP	SECURE-VMTP
83	VINES	VINES
84	TTP	TTP
85	NSFNET-IGP	NSFNET-IGP
86	DGP	Dissimilar Gateway Protocol
87	TCF	TCF
88	IGRP	IGRP
89	OSPFIGP	OSPFIGP
90	Sprite-RPC	Sprite RPC Protocol
91	LARP	Locus Address Resolution Protocol

92-254
255

Unassigned
Reserved

Numéros de ports TCP et UDP

Les ports sont utilisés dans TCP pour nommer les extrémités des connexions logiques transportant des conversations. Pour pouvoir assurer ce service à des appelant inconnus, un service de contact par port est défini. Cette liste spécifie les ports utilisés par le processus serveur comme port de contact. Les mêmes numéros de ports sont utilisés par UDP. Les ports assignés utilisent une infime portion des possibilités

Decimal	Keyword	Description
0		Reserved
1	TCPMUX	TCP Port Service Multiplexer
2-4		Unassigned
5	RJE	Remote Job Entry
7	ECHO	Echo
9	DISCARD	Discard
11	USERS	Active Users
13	DAYTIME	Daytime
15		Unassigned
17	QUOTE	Quote of the Day
19	CHARGEN	Character Generator
20	FTP-DATA	File Transfer [Default Data]
21	FTP	File Transfer [Control]
23	TELNET	Telnet
25	SMTP	Simple Mail Transfer
27	NSW-FE	NSW User System FE
29	MSG-ICP	MSG ICP
31	MSG-AUTH	MSG Authentication
33	DSP	Display Support Protocol
35		any private printer server
37	TIME	Time
39	RLP	Resource Location Protocol
41	GRAPHICS	Graphics
42	NAMESERVER	Host Name Server
43	NICNAME	Who Is
44	MPM-FLAGS	MPM FLAGS Protocol
45	MPM	Message Processing Module [recv]
46	MPM-SND	MPM [default send]
47	NI-FTP	NI FTP
49	LOGIN	Login Host Protocol
51	LA-MAINT	IMP Logical Address Maintenance
53	DOMAIN	Domain Name Server
55	ISI-GL	ISI Graphics Language
57		any private terminal access
59		any private file service

61	NI-MAIL	NI MAIL
63	VIA-FTP	VIA Systems - FTP
65	TACACS-DS	TACACS-Database Service
67	BOOTPS	Bootstrap Protocol Server
68	BOOTPC	Bootstrap Protocol Client
69	TFTP	Trivial File Transfer
71	NETRJS-1	Remote Job Service
72	NETRJS-2	Remote Job Service
73	NETRJS-3	Remote Job Service
74	NETRJS-4	Remote Job Service
75		any private dial out service
77		any private RJE service
79	FINGER	Finger
80	Http	Web
81	HOSTS2-NS	HOSTS2 Name Server
83	MIT-ML-DEV	MIT ML Device
85	MIT-ML-DEV	MIT ML Device
87		any private terminal link
89	SU-MIT-TG	SU/MIT Telnet Gateway
91	MIT-DOV	MIT Dover Spooler
93	DCP	Device Control Protocol
95	SUPDUP	SUPDUP
97	SWIFT-RVF	Swift Remote Vitural File Protocol
98	TACNEWS	TAC News
99	METAGRAM	Metagram Relay
101	HOSTNAME	NIC Host Name Server
102	ISO-TSAP	ISO-TSAP
103	X400	X400
104	X400-SND	X400-SND
105	CSNET-NS	Mailbox Name Nameserver
107	RTELNET	Remote Telnet Service
109	POP2	Post Office Protocol - Version 2
110	POP3	Post Office Protocol - Version 3
111	SUNRPC	SUN Remote Procedure Call
113	AUTH	Authentication Service
115	SFTP	Simple File Transfer Protocol
117	UUCP-PATH	UUCP Path Service
119	NNTP	Network News Transfer Protocol
121	ERPC	Encore Expedited Remote Proc.Call
123	NTP	Network Time Protocol
125	LOCUS-MAP	Locus PC-Interface Net Map Server
127	LOCUS-CON	Locus PC-Interface Conn Server
129	PWDGEN	Password Generator Protocol
130	CISCO-FNA	CISCO FNATIVE
131	CISCO-TNA	CISCO TNATIVE
132	CISCO-SYS	CISCO SYSMANT

133	STATSRV	Statistics Service
134	INGRES-NET	INGRES-NET Service
135	LOC-SRV	Location Service
136	PROFILE	PROFILE Naming System
137	NETBIOS-NS	NETBIOS Name Service
138	NETBIOS-DGM	NETBIOS Datagram Service
139	NETBIOS-SSN	NETBIOS Session Service
140	EMFIS-DATA	EMFIS Data Service
141	EMFIS-CNTL	EMFIS Control Service
142	BL-IDM	Britton-Lee IDM
143	IMAP2	Interim Mail Access Protocol v2
144	NEWS	News
145	UAAC	UAAC Protocol
146	ISO-TP0	ISO-IP0
147	ISO-IP	ISO-IP
148	CRONUS	CRONUS-SUPPORT
149	AED-512	AED 512 Emulation Service
150	SQL-NET	SQL-NET
151	HEMS	HEMS
152	BFTP	Background File Transfer Program
153	SGMP	SGMP
154	NETSC-PROD	NETSC
155	NETSC-DEV	NETSC
156	SQLSRV	SQL Service
157	KNET-CMP	KNET/VM Command/Message Protocol
158	PCMail-SRV	PCMail Server
159	NSS-Routing	NSS-Routing
160	SGMP-TRAPS	SGMP-TRAPS
161	SNMP	SNMP
162	SNMPTRAP	SNMPTRAP
163	CMIP-Manage	CMIP/TCP Manager
164	CMIP-Agent	CMIP/TCP Agent
165	XNS-Courier	Xerox
166	S-Net	Sirius Systems
167	NAMP	NAMP
168	RSVD	RSVD
169	SEND	SEND
170	Print-SRV	Network PostScript
171	Multiplex	Network Innovations Multiplex
172	CL/1	Network Innovations CL/1
173	Xyplex-MUX	Xyplex
174	MAILQ	MAILQ
175	VMNET	VMNET
176	GENRAD-MUX	GENRAD-MUX
177	XDMCP	X Display Manager Control Protocol
178	NextStep	NextStep Window Server

179	BGP	Border Gateway Protocol
180	RIS	Intergraph
181	Unify	Unify
182	Unisys-Cam	Unisys-Cam
183	OCBinder	OCBinder
184	OCServer	OCServer
185	Remote-KIS	Remote-KIS
186	KIS	KIS Protocol
187	ACI	Application Communication Interface
188	MUMPS	MUMPS
189	QFT	Queued File Transport
190	GACP	Gateway Access Control Protocol
191	Prospero	Prospero
192	OSU-NMS	OSU Network Monitoring System
193	SRMP	Spider Remote Monitoring Protocol
194	IRC	Internet Relay Chat Protocol
195	DN6-NLM-AUD	DNSIX Network Level Module Audit
196	DN6-SMM-RED	DNSIX Session Mgt Module Audit Redirect
197	DLS	Directory Location Service
198	DLS-Mon	Directory Location Service Monitor
198-200		Unassigned
201	AT-RMTP	AppleTalk Routing Maintenance
202	AT-NBP	AppleTalk Name Binding
203	AT-3	AppleTalk Unused
204	AT-ECHO	AppleTalk Echo
205	AT-5	AppleTalk Unused
206	AT-ZIS	AppleTalk Zone Information
207	AT-7	AppleTalk Unused
208	AT-8	AppleTalk Unused
209-223		Unassigned
224-241		Reserved
243	SUR-MEAS	Survey Measurement
245	LINK	LINK
246	DSP3270	Display Systems Protocol
247-255		Reserved