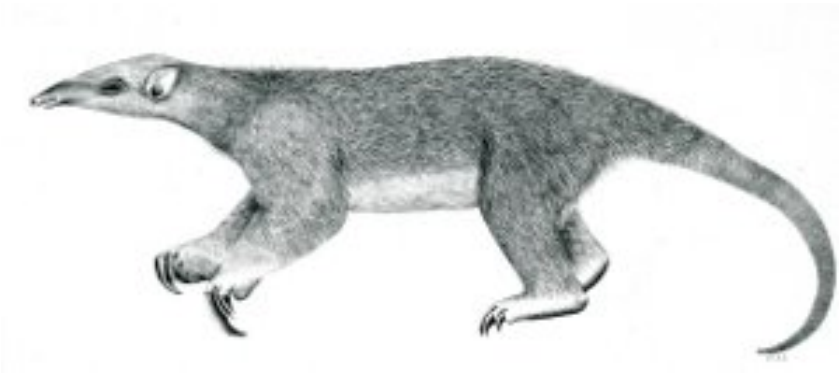
Tranalyzer2

ftpDecode

File Transfer Protocol (FTP)



Tranalyzer Development Team

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1 ftpDecode

1.1 Description

The ftpDecode plugin analyses FTP traffic. User defined compiler switches are in *ftpDecode.h*.

1.2 Configuration Flags

The following flags can be used to control the output of the plugin:

Name	Default	Description
FTP_SAVE	0	Save content to FTP_F_PATH
BITFIELD	0	Bitfield coding of FTP commands
FTP_MXNMUN	10	maximal USER name length
FTP_MXNMPN	10	maximal PW length
FTP_MXNMLN	50	maximal name length
FTP_MAXCPFI	10	Maximal number of parent findex
MAXUNM	5	maximal number of users
MAXPNM	5	maximal number of passwords
MAXCNM	20	maximal number of parameters
FTP_F_PATH	"/tmp/FTPFILES/"	Path for extracted content

The plugin identifies the client ftp flows automatically and links them via the ftpCDFindex, identifiying the findex of the associated flows.

1.3 Flow File Output

The ftpDecode plugin outputs the following columns:

Column	Type	Description	Flags
ftpStat	H8	Status bit field	
ftpCBF	H64	Command bit field	BITFIELD=1
ftpCDFindex	RU64	Command/data findex link	
ftpCC	RSC	FTP Command Codes	
ftpRC	RU16	FTP Response Codes	
ftpUsrNum	U8	number of FTP users	
ftpPwNum	U8	number of FTP passwords	
ftpCNum	U8	number of FTP parameters	
ftpUsr	RS	FTP users	
ftpPw	RS	FTP passwords	
ftpC	RS	FTP content	

1.3.1 ftpStat

The ftpStat column describes the errors encountered during the flow lifetime:

ftpStat	Name	Description
2^0 (=0x01)	FTP control port found	
2^1 (=0x02)	FTP passive parent flow	
2^2 (=0x04)	FTP passive parent flow write finished	
2^3 (=0x08)	FTP active parent flow	
2^4 (=0x10)	FTP hash map full	
2^5 (=0x20)	File error	
2^6 (=0x40)	Data flow not detected	
2^7 (=0x80)	Array overflow	

1.3.2 ftpCBF

The `ftpCBF` column is to be interpreted as follows:

ftpCBF	Description
2^0 (=0x0000.0000.0000.0001)	ABOR
2^1 (=0x0000.0000.0000.0002)	ACCT
2^2 (=0x0000.0000.0000.0004)	ADAT
2^3 (=0x0000.0000.0000.0008)	ALLO
2^4 (=0x0000.0000.0000.0010)	APPE
2^5 (=0x0000.0000.0000.0020)	AUTH
2^6 (=0x0000.0000.0000.0040)	CCC
2^7 (=0x0000.0000.0000.0080)	CDUP
2^8 (=0x0000.0000.0000.0100)	CONF
2^9 (=0x0000.0000.0000.0200)	CWD
2^{10} (=0x0000.0000.0000.0400)	DELE
2^{11} (=0x0000.0000.0000.0800)	ENC
2^{12} (=0x0000.0000.0000.1000)	EPRT
2^{13} (=0x0000.0000.0000.2000)	EPSV
2^{14} (=0x0000.0000.0000.4000)	FEAT
2^{15} (=0x0000.0000.0000.8000)	HELP
2^{16} (=0x0000.0000.0001.0000)	LANG
2^{17} (=0x0000.0000.0002.0000)	LIST
2^{18} (=0x0000.0000.0004.0000)	LPRT
2^{19} (=0x0000.0000.0008.0000)	LPSV
2^{20} (=0x0000.0000.0010.0000)	MDTM
2^{21} (=0x0000.0000.0020.0000)	MIC
2^{22} (=0x0000.0000.0040.0000)	MKD
2^{23} (=0x0000.0000.0080.0000)	MLSD
2^{24} (=0x0000.0000.0100.0000)	MLST
2^{25} (=0x0000.0000.0200.0000)	MODE
2^{26} (=0x0000.0000.0400.0000)	NLST
2^{27} (=0x0000.0000.0800.0000)	NOOP
2^{28} (=0x0000.0000.1000.0000)	OPTS
2^{29} (=0x0000.0000.2000.0000)	PASS
2^{30} (=0x0000.0000.4000.0000)	PASV

ftpCBF	Description
2^{31} (=0x0000.0000.8000.0000)	PBSZ
2^{32} (=0x0000.0001.0000.0000)	PORT
2^{33} (=0x0000.0002.0000.0000)	PROT
2^{34} (=0x0000.0004.0000.0000)	PWD
2^{35} (=0x0000.0008.0000.0000)	QUIT
2^{36} (=0x0000.0010.0000.0000)	REIN
2^{37} (=0x0000.0020.0000.0000)	REST
2^{38} (=0x0000.0040.0000.0000)	RETR
2^{39} (=0x0000.0080.0000.0000)	RMD
2^{40} (=0x0000.0100.0000.0000)	RNFR
2^{41} (=0x0000.0200.0000.0000)	RNTO
2^{42} (=0x0000.0400.0000.0000)	SITE
2^{43} (=0x0000.0800.0000.0000)	SIZE
2^{44} (=0x0000.1000.0000.0000)	SMNT
2^{45} (=0x0000.2000.0000.0000)	STAT
2^{46} (=0x0000.4000.0000.0000)	STOR
2^{47} (=0x0000.8000.0000.0000)	STOU
2^{48} (=0x0001.0000.0000.0000)	STRU
2^{49} (=0x0002.0000.0000.0000)	SYST
2^{50} (=0x0004.0000.0000.0000)	TYPE
2^{51} (=0x0008.0000.0000.0000)	USER
2^{52} (=0x0010.0000.0000.0000)	XCUP
2^{53} (=0x0020.0000.0000.0000)	XMKD
2^{54} (=0x0040.0000.0000.0000)	XPWD
2^{55} (=0x0080.0000.0000.0000)	XRCP
2^{56} (=0x0100.0000.0000.0000)	XRMD
2^{57} (=0x0200.0000.0000.0000)	XRSQ
2^{58} (=0x0400.0000.0000.0000)	XSEM
2^{59} (=0x0800.0000.0000.0000)	XSEN
2^{60} (=0x1000.0000.0000.0000)	CLNT