

JOeSandbox Cloud BASIC



ID: 651260

Sample Name: loligang.x86

Cookbook:

defaultlinuxfilecookbook.jbs

Time: 17:59:27

Date: 23/06/2022

Version: 35.0.0 Citrine

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Linux Analysis Report

loligang.x86

Overview

General Information

Sample Name:	loligang.x86
Analysis ID:	651260
MD5:	626c4dc99eea6d..
SHA1:	51079f90726093..
SHA256:	68cb74c5325f29...
Infos:	

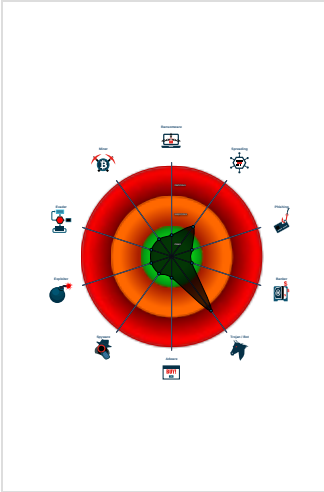
Detection

MALICIOUS SUSPICIOUS CLEAN UNKNOWN Mirai	
Score:	68
Range:	0 - 100
Whitelisted:	false

Signatures

Malicious sample detected (through...
Multi AV Scanner detection for subm...
Yara detected Mirai
Machine Learning detection for sam...
Enumerates processes within the "p...
Yara signature match
Sample tries to kill a process (SIGK...
Sample has stripped symbol table

Classification



General Information	
Joe Sandbox Version:	35.0.0 Citrine
Analysis ID:	651260
Start date and time: 23/06/202217:59:27	2022-06-23 17:59:27 +02:00
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 5m 26s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	loligang.x86
Cookbook file name:	defaultlinuxfilecookbook.jbs
Analysis system description:	Ubuntu Linux 20.04 x64 (Kernel 5.4.0-72, Firefox 91.0, Evince Document Viewer 3.36.10, LibreOffice 6.4.7.2, OpenJDK 11.0.11)
Analysis Mode:	default
Detection:	MAL
Classification:	mal68.troj.linX86@0/0@0/0

Runtime Messages	
Command:	/tmp/loligang.x86
PID:	6222
Exit Code:	0
Exit Code Info:	
Killed:	False
Standard Output:	lzrd cock fest"/proc"/exe
Standard Error:	

Process Tree	
- system is Inxubuntu20 - loligang.x86 (PID: 6222, Parent: 6123, MD5: 626c4dc99eea6d5e4df179086edc8a98) Arguments: /tmp/loligang.x86 - loligang.x86 New Fork (PID: 6223, Parent: 6222)	

- [loligang.x86](#) New Fork (PID: 6224, Parent: 6222)
- [loligang.x86](#) New Fork (PID: 6225, Parent: 6222)
 - [loligang.x86](#) New Fork (PID: 6226, Parent: 6225)
 - [loligang.x86](#) New Fork (PID: 6227, Parent: 6225)
 - [loligang.x86](#) New Fork (PID: 6228, Parent: 6225)
 - [loligang.x86](#) New Fork (PID: 6243, Parent: 6225)
 - [loligang.x86](#) New Fork (PID: 6244, Parent: 6243)
- **cleanup**

Yara Signatures

Initial Sample

Source	Rule	Description	Author	Strings
loligang.x86	SUSP_XORed_Mozilla	Detects suspicious single byte XORed keyword '\Mozilla/5.0\' - it uses yara's XOR modifier and therefore cannot print the XOR key. You can use the CyberChef recipe linked in the reference field to brute force the used key.	Florian Roth	• 0xefc4:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf034:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf0a4:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf114:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf184:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf3f4:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf448:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf49c:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf4f0:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xf544:\$xo1: oMXKNNC\x0D\x17\x0C\x12
loligang.x86	Mirai_Botnet_Malware	Detects Mirai Botnet Malware	Florian Roth	• 0xe9e0:\$x1: POST /cdn-cgi/ • 0xee2b:\$s1: LCOGQGPTGP
loligang.x86	JoeSecurity_Mirai_9	Yara detected Mirai	Joe Security	

Memory Dumps

Source	Rule	Description	Author	Strings
6226.1.00000000622d5c71.00000000a6a40188.rw-.sdmp	SUSP_XORed_Mozilla	Detects suspicious single byte XORed keyword '\Mozilla/5.0\' - it uses yara's XOR modifier and therefore cannot print the XOR key. You can use the CyberChef recipe linked in the reference field to brute force the used key.	Florian Roth	• 0x598:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x610:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x688:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x700:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x778:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xa08:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xa60:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xab8:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xb10:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xb68:\$xo1: oMXKNNC\x0D\x17\x0C\x12
6227.1.00000000622d5c71.00000000a6a40188.rw-.sdmp	SUSP_XORed_Mozilla	Detects suspicious single byte XORed keyword '\Mozilla/5.0\' - it uses yara's XOR modifier and therefore cannot print the XOR key. You can use the CyberChef recipe linked in the reference field to brute force the used key.	Florian Roth	• 0x598:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x610:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x688:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x700:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x778:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xa08:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xa60:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xab8:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xb10:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xb68:\$xo1: oMXKNNC\x0D\x17\x0C\x12
6244.1.00000000622d5c71.00000000a6a40188.rw-.sdmp	SUSP_XORed_Mozilla	Detects suspicious single byte XORed keyword '\Mozilla/5.0\' - it uses yara's XOR modifier and therefore cannot print the XOR key. You can use the CyberChef recipe linked in the reference field to brute force the used key.	Florian Roth	• 0x598:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x610:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x688:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x700:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0x778:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xa08:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xa60:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xab8:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xb10:\$xo1: oMXKNNC\x0D\x17\x0C\x12 • 0xb68:\$xo1: oMXKNNC\x0D\x17\x0C\x12

Source	Rule	Description	Author	Strings
6222.1.00000000622d5c71.00000000a6a40188.rw-.sdmp	SUSP_XORed_Mozilla	Detects suspicious single byte XORed keyword '\Mozilla/5.0' - it uses yara's XOR modifier and therefore cannot print the XOR key. You can use the CyberChef recipe linked in the reference field to brute force the used key.	Florian Roth	0x598:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x610:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x688:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x700:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x778:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xa08:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xa60:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xab8:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xb10:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xb68:\$x01: oMXKNNC\x0D\x17\x0C\x12
6243.1.00000000622d5c71.00000000a6a40188.rw-.sdmp	SUSP_XORed_Mozilla	Detects suspicious single byte XORed keyword '\Mozilla/5.0' - it uses yara's XOR modifier and therefore cannot print the XOR key. You can use the CyberChef recipe linked in the reference field to brute force the used key.	Florian Roth	0x598:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x610:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x688:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x700:\$x01: oMXKNNC\x0D\x17\x0C\x12 0x778:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xa08:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xa60:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xab8:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xb10:\$x01: oMXKNNC\x0D\x17\x0C\x12 0xb68:\$x01: oMXKNNC\x0D\x17\x0C\x12
Click to see the 19 entries				

Snort Signatures

No Snort rule has matched

Joe Sandbox Signatures

AV Detection

Multi AV Scanner detection for submitted file

Machine Learning detection for sample

System Summary

Malicious sample detected (through community Yara rule)

Stealing of Sensitive Information

Yara detected Mirai

Remote Access Functionality

Yara detected Mirai

Mitre Att&ck Matrix													
Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	Remote Service Effects	Impact

 No Antivirus matches

Domains



 No Antivirus matches

URLs



 No Antivirus matches

Domains and IPs



Contacted Domains



 No contacted domains info

World Map of Contacted IPs



 No contacted IP infos

Joe Sandbox View / Context



IPs



 No context

Domains



 No context

ASNs



 No context

JA3 Fingerprints



 No context

Dropped Files



 No context

Created / dropped Files



 No created / dropped files found

Static File Info



General



File type:	ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically linked, stripped
Entropy (8bit):	6.408338044451668

TrID:	- ELF Executable and Linkable format (Linux) (4029/14) 50.16% - ELF Executable and Linkable format (generic) (4004/1) 49.84%
File name:	loligang.x86
File size:	66136
MD5:	626c4dc99eea6d5e4df179086edc8a98
SHA1:	51079f907260930c3b991286ad11abb61d76b91d
SHA256:	68cb74c5325f29a74eae212973ea710b3a885a3866853e21b3bdaf9e262b0c23
SHA512:	bc203a473c19b41ea9f0a2e0487abd1fa853fd89b7bb7ec612014fd1f0e0787786416e31699244e5d22b3edd659bade57022b9433029689605bb6a740b46b676
SSDEEP:	1536:loRC9170vwHbQXZ5+qXDEuXi90dSW7V/DjObeFt6PuQ4ZH:PC917iwHbQXZ5+qXA594SWZ/XOb6G7
TLSH:	AB5329C8A593F8F5DC140978307ABB66AEB3F13B7135E99BC3D82927A841702D10669D
File Content Preview:	.ELF.....d...4.....4. ...(.....Q.td.....U.S.....w....h.....[]..\$......U.....=.....t.5...\$.....\$.....u.....t...h{.....

Static ELF Info	
ELF header	
Class:	ELF32
Data:	2's complement, little endian
Version:	1 (current)
Machine:	Intel 80386
Version Number:	0x1
Type:	EXEC (Executable file)
OS/ABI:	UNIX - System V
ABI Version:	0
Entry Point Address:	0x8048164
Flags:	0x0
ELF Header Size:	52
Program Header Offset:	52
Program Header Size:	32
Number of Program Headers:	3
Section Header Offset:	65736
Section Header Size:	40
Number of Section Headers:	10
Header String Table Index:	9

Sections										
Name	Type	Address	Offset	Size	EntSize	Flags	Flags Description	Link	Info	Align
	NULL	0x0	0x0	0x0	0x0	0x0		0	0	0
.init	PROGBITS	0x8048094	0x94	0x1c	0x0	0x6	AX	0	0	1
.text	PROGBITS	0x80480b0	0xb0	0xe906	0x0	0x6	AX	0	0	16
.fini	PROGBITS	0x80569b6	0xe9b6	0x17	0x0	0x6	AX	0	0	1
.rodata	PROGBITS	0x80569e0	0xe9e0	0x1140	0x0	0x2	A	0	0	32
.ctors	PROGBITS	0x8058000	0x10000	0x8	0x0	0x3	WA	0	0	4
.dtors	PROGBITS	0x8058008	0x10008	0x8	0x0	0x3	WA	0	0	4
.data	PROGBITS	0x8058020	0x10020	0x68	0x0	0x3	WA	0	0	4
.bss	NOBITS	0x80580a0	0x10088	0x860	0x0	0x3	WA	0	0	32
.shstrtab	STRTAB	0x0	0x10088	0x3e	0x0	0x0		0	0	1

Program Segments											
Type	Offset	Virtual Address	Physical Address	File Size	Memory Size	Entropy	Flags	Flags Description	Align	Prog Interpreter	Section Mappings
LOAD	0x0	0x8048000	0x8048000	0xfb20	0xfb20	6.5000	0x5	R E	0x1000		.init .text .fini .rodata
LOAD	0x10000	0x8058000	0x8058000	0x88	0x900	1.7570	0x6	RW	0x1000		.ctors .dtors .data .bss
GNU_STACK	0x0	0x0	0x0	0x0	0x0	0.0000	0x6	RW	0x4		

Network Behavior

System Behavior

Analysis Process: loligang.x86 PID: 6222, Parent PID: 6123	
General	
Start time:	18:00:14
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	/tmp/loligang.x86
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

Analysis Process: loligang.x86 PID: 6223, Parent PID: 6222	
General	
Start time:	18:00:14
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

File Activities	
File Read	
Directory Enumerated	

Analysis Process: loligang.x86 PID: 6224, Parent PID: 6222	
General	
Start time:	18:00:14
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

Analysis Process: loligang.x86 PID: 6225, Parent PID: 6222	
General	
Start time:	18:00:14
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

Analysis Process: loligang.x86 PID: 6226, Parent PID: 6225	
General	
Start time:	18:00:14
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

File Activities	—
File Read	▼
Directory Enumerated	▼

Analysis Process: loligang.x86 PID: 6227, Parent PID: 6225 —

General	—
Start time:	18:00:14
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

Analysis Process: loligang.x86 PID: 6228, Parent PID: 6225 —

General	—
Start time:	18:00:14
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

Analysis Process: loligang.x86 PID: 6243, Parent PID: 6225 —

General	—
Start time:	18:00:42
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98

Analysis Process: loligang.x86 PID: 6244, Parent PID: 6243 —

General	—
Start time:	18:00:42
Start date:	23/06/2022
Path:	/tmp/loligang.x86
Arguments:	n/a
File size:	66136 bytes
MD5 hash:	626c4dc99eea6d5e4df179086edc8a98