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Name	Perf Basics II
URL	https://attackdefense.com/challengedetails?cid=1102
Туре	Linux Runtime Analysis: Profiling Tools

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Q1. What is the name of the crypto miner service?

Answer: dcgxvwaenrsorbfsdfvzcasrvxc

Solution:

Command: perf report

Sar	mples: 19K	of event	'cpu-clock', Eve	nt count (approx.): 4968250000	
	hildren	Self	Command	Shared Object	Symbol
+	63.46%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8875e0e
+	63.45%	0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb92015e5
+		2.34%	dcgxvwaenrsorbf	libc-2.23.so	[.] 0x00000000014e156
+	60.19%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8875b40
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8a138cc
+	54.28%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8a13476
+		0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8a3e988
+	32.98%	32.86%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb9191a62
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89dcf2b
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb9200081
+		0.00%	dcgxvwaenrsorbf	[unknown]	[.] 0x0000000000934320
+		0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xfffffffb8803b53
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89dd095
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89dc366
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89eebf1
+	16.38%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89ee88e
+		0.33%	dcgxvwaenrsorbf	libc-2.23.so	[.] 0x00000000000fb730
+	11.35%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89ee571
+		0.34%	dcgxvwaenrsorbf	libpthread-2.23.so	[.] 0x000000000001081d
+	10.48%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8a939c1
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb90382ae
+	9.89%	0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb9036334
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb90360f3

Press 'i' to get the header information.

```
Header information
# captured on: Sat Jun 22 12:44:32 2019
# hostname : ubuntu
# os release : 4.15.0-51-generic
# perf version : 4.15.18
# arch : x86_64
# nrcpus online : 2
# nrcpus avail : 2
# cpudesc : Intel(R) Core(TM) i7-7500U CPU @ 2.70GHz
# cpuid : GenuineIntel,6,142,9
# total memory : 2017284 kB
# cmdline : /usr/lib/linux-hwe-tools-4.15.0-51/perf record -g ./dcgxvwaenrsorbfsdfvzcasrvxc /usr/bin/config.cfg
# event : name = cpu-clock, , type = 1, size = 112, { sample_period, sample_freq } = 4000, sample_type = IP|TID|TIME|
# sibling cores : 0
# sibling cores : 1
```

'cmdline' corresponds to the command executed when the trace was captured.

Q2. The mining service used a configuration file to connect to the pool server. Provide the complete path of the configuration file.

Answer: /usr/bin/config.cfg

Solution:

Command: perf report

Sa	mples: 19K	of event	'cpu-clock'. Eve	nt count (approx.): 4968250000	
	Children	Self	Command	Shared Object	Symbol Symbol
+	63.46%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8875e0e
+	63.45%	0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb92015e5
+		2.34%	dcgxvwaenrsorbf	libc-2.23.so	[.] 0x000000000014e156
+	60.19%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8875b40
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8a138cc
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+		0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8a3e988
+	32.98%		dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb9191a62
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89dcf2b
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb9200081
+		0.00%	dcgxvwaenrsorbf	[unknown]	[.] 0x0000000000934320
+	23.97%	0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8803b53
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89dd095
+	18.05%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89dc366
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89eebf1
+	16.38%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89ee88e
+	11.90%	0.33%	dcgxvwaenrsorbf	libc-2.23.so	[.] 0x00000000000fb730
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb89ee571
+		0.34%	dcgxvwaenrsorbf	libpthread-2.23.so	[.] 0x000000000001081d
+	10.48%	0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb8a939c1
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb90382ae
+	9.89%	0.01%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb9036334
+		0.00%	dcgxvwaenrsorbf	[kernel.kallsyms]	[k] 0xffffffffb90360f3

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# event : name = cpu-clock, , type = 1, size = 112, { sample_period, sample_freq } = 4000, sample_type = IP|TID|TIME|
# sibling cores : 0
# sibling cores : 1
```

'cmdline' corresponds to the command executed when the trace was captured.

Q3. Retrieve the plain-text password used by the service to connect to the pool server.

Answer: n0ts0s3cur3p4ssw0rd

Command: cat /usr/bin/config.cfg

```
root@attackdefense:~# cat /usr/bin/config.cfg

#
# RPC login details
#
host=dqdaicaxcmgs.dev.local
port=5555
#port=8332

#
# base64 encoded the username and password
#
rpcuser=bW9uZXJvLW1pbmVy
rpcpass=bjB0czBzM2N1cjNwNHNzdzByZA==
```

```
# mining details
#
threads=4
# periodic rate for requesting new work, if solution not found
scantime=60
#
# misc.
#
# not really used right now
logdir=/tmp/miner
# set to 1, to enable hashmeter output
hashmeter=0
```

The password is base64 encoded: bjB0czBzM2N1cjNwNHNzdzByZA==

Command: echo bjB0czBzM2N1cjNwNHNzdzByZA== | base64 -d

root@attackdefense:~#

```
root@attackdefense:~# echo bjB0czBzM2N1cjNwNHNzdzByZA== | base64 -d
n0ts0s3cur3p4ssw0rdroot@attackdefense:~#
root@attackdefense:~#
```

References:

1. Perf (https://perf.wiki.kernel.org/index.php/Main Page)