

Maintaining Credible IIS Log Files

By Mark Burnett

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: blksaint@wowhacker.org (wowcode at wowhacker team)

: 2003-08-09

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IIS

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(closed)

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(accuracy),

(authenticity:

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IIS

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Log File Accuracy

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Log Everything -

IIS가

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IIS

가 C:\WINNT

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Keeping Time -

IIS

(Windows Time Service)

(time source)

Key: HKLM \ SYSTEM \ CurrentControlSet \ Services \ W32Time \ Parameters \

Setting: Type

Type: REG_SZ

Value: NTP

Key: HKLM \ SYSTEM \ CurrentControlSet \ Services \ W32Time \ Parameters \

Setting: NtpServer

Type: REG_SZ

Value: tock.usno.navy.mil (public NTP

<http://tycho.usno.navy.mil/ntp.html>

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Key: HKLM \ SYSTEM \ CurrentControlSet \ Services \ W32Time \ Parameters \

Setting: Period

Type: REG_SZ

Value: 24 (. 24 24 .)

IIS UTC

UTC

가

. UTC

** UTC Universal Time Coordinated (時)

** URL : <http://www.kriss.re.kr/>

IIS가

가 UTC -0600

18:00(00:00 - 06:00 =

18:00)

UTC daylight saving(Daylight Saving Time:

)

, UTC -6:00

-5:00

Use Multiple Sensors -

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, IDS

TCPDump

IP

가

. IIS

Snort

<http://www.iisecurity.net/4361.htm>

Avoid Missing Logs - IIS

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가 24

가

(

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가

가

(schedule).

Graburl

<http://www.kiraly.com/software/utilities/graburl/>

localhost

Graburl.exe www.example.com

localhost

가

가

1:00AM

1:00AM

가 24

EventLog 가

Log File Authenticity

가

. IIS

가

IIS

가

Move the Logs -

, IIS

가

, CD

WORM

offline

Signatures, Encryption & Checksums -

PGP

[Fsum](#)

MD5

[Fdir](#)

Work With Copies -

가

가

(Federal Rules of Evidence)

([Federal Rules of Evidence 1001\(3\)](#)).

Ensure System Integrity -

hotfix

WINNT

가

Have a Process -

가

(IP

utility

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가

(anticipation

of litigation)

가 가

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sniffer

가

Access Control

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가

NTFS

가

Restrict File Access -

IIS가

, NTFS

Chain of Custody -

offline

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IIS

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IIS

References

[Federal Rules of Evidence](#)

[Searching and Seizing Computers and Obtaining Electronic Evidence in Criminal Investigations](#)

[Computer Records and the Federal Rules of Evidence](#)