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2.2		4
2.3		6
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	APT ð	

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APT

“ ”

HawkEye
99.9%

12 23 20

powershell

HawkEye keylogger

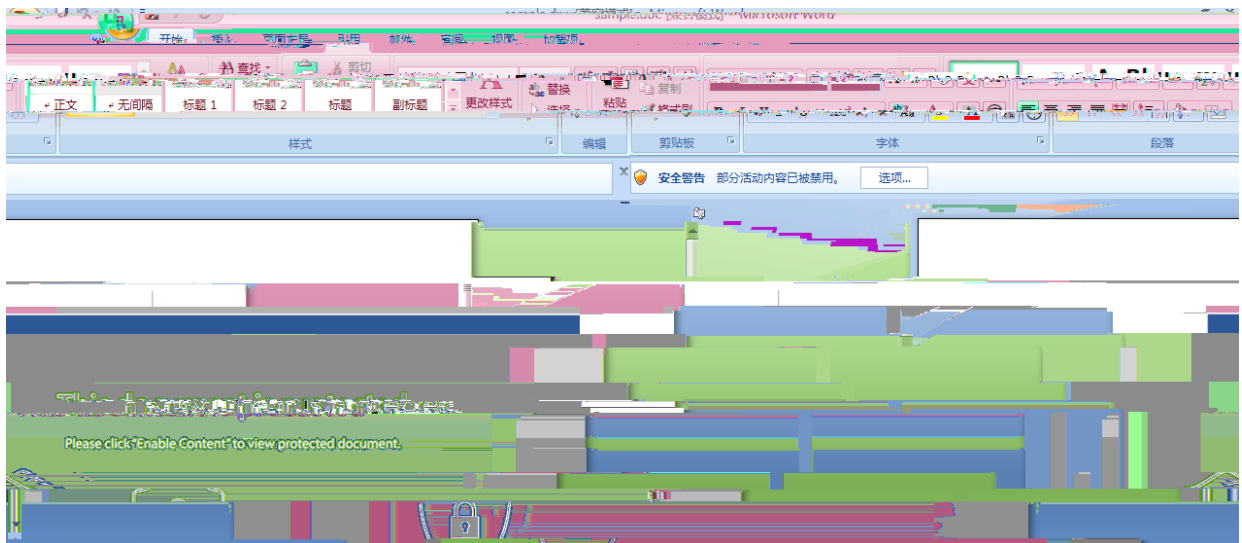
20161031_ “ ”
“ ”

20161108_ “ ”
“ ” “ ”

2.1

2.2

0x01



2.1

0x02

2.4

2.5 like

0x05
shell

powershell



Jbcwgbsk.exe



```
0x03  Jbcwgbask.exe      Srxoeoaonmsiyy.bin
      IE
```

2.9

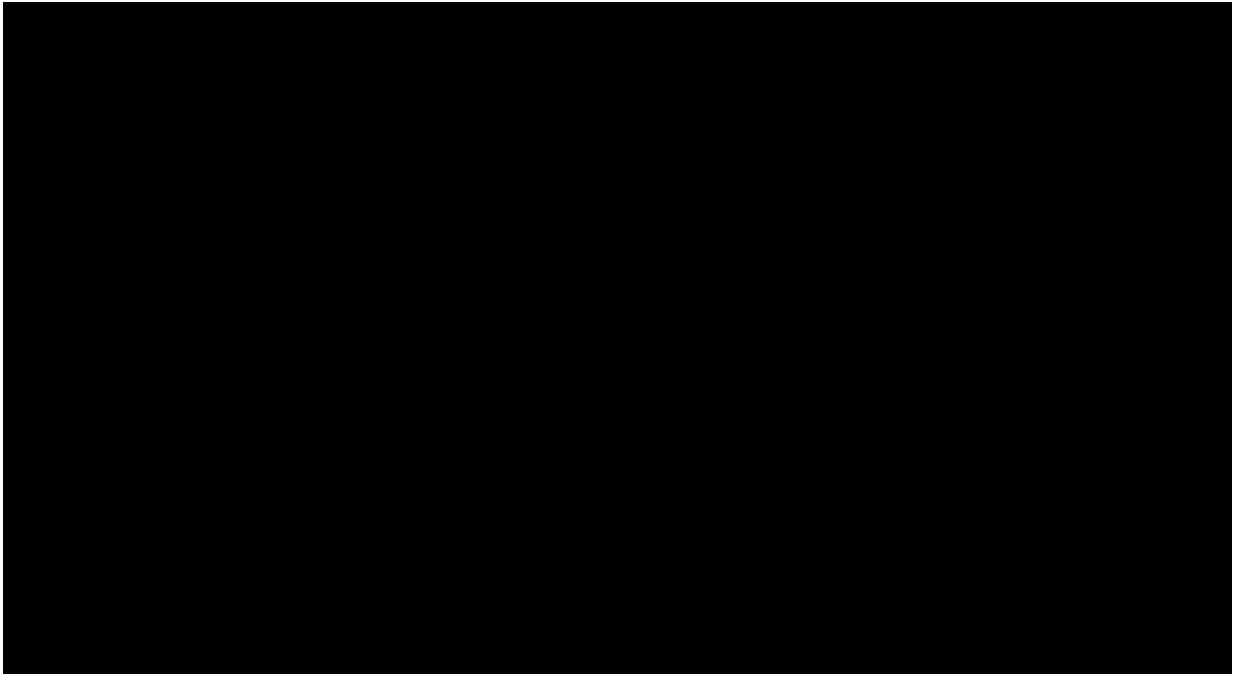
0x04 IE dump



2.11

0x06 HawkEye

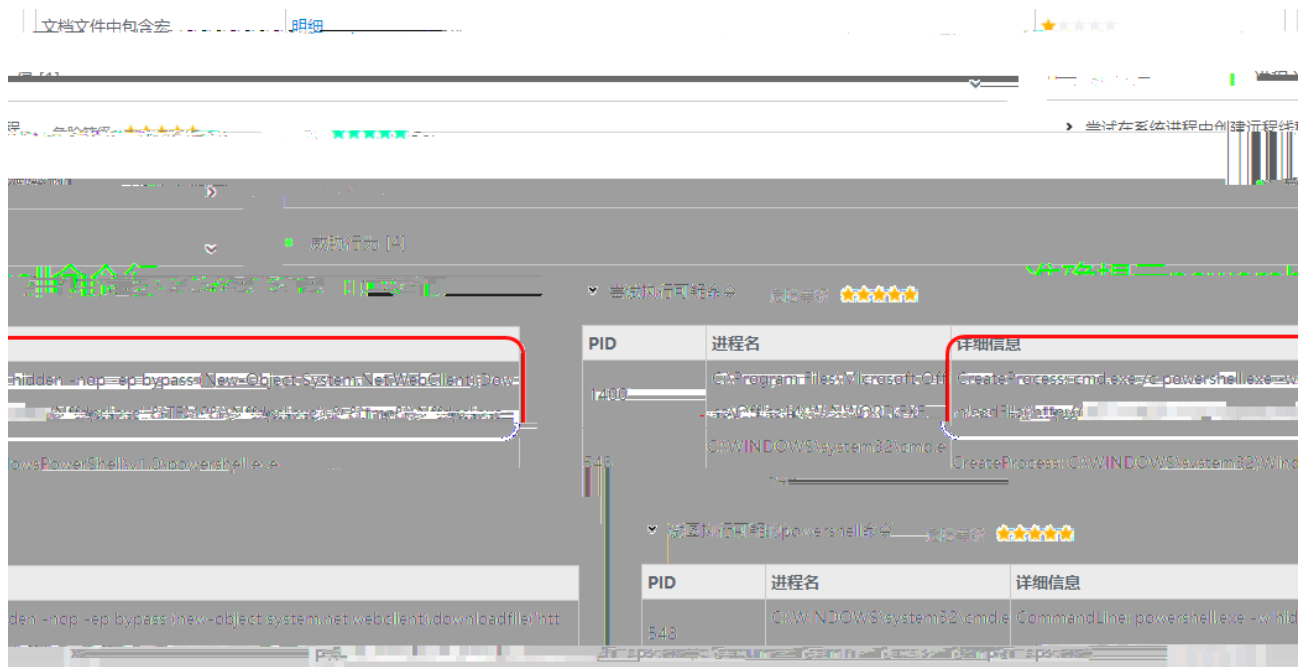
FTP



2.12 HawkEye

0x07

2.13MCID 3>DC B1 0 0 1 240.7BEC B1 0 0 1 286.91 316.35 TmP



3.1



3.2

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APT

APT

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H-worm

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VenusEye

VenusEye

VenusEye
“ ”

Hedwig

18

SandWorm

H-worm
Locky



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1. 2016 12