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Finding malicious activity and malware in the network.



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Thursday, January 22, 2015

User-agent Strings

A user-agent string is a value used by an application that identifies itself to the server. There are many sites that go into this a bit deeper, so I won't harp on it here. The purpose here is to identify malware that uses unique user-agent string values, which makes it terribly easy to find malicious traffic being generated by certain malware.

The best place to find these values are proxy logs, so you will need to know the field name that your proxy server uses to identify the user-agent string: I believe the field in BlueCoat proxy logs is *cs(User-Agent)* but yours may be different. Below is a list of user-agent strings that I have seen in our logs and have confirmed that they have been used by malware; there are many other out there, but I will not include those. I have also included a line that you can use to dig through old logs in order to locate past infections.

Malware: Houdini / Iniduoh / njRAT

This one should pop right out in your logs. It uses the below characters as a field separator, so there will be several of these in the user-agent field.

- User-agent contains: <|>
- Regex: <|>
- Regex: ((\w+)(\W+))((<|>)(\|))((\w+)(\W+))((<|>)(\|))((\w+)(\W+))((<|>)(\|))[^\|]+((<|>)(\|))((\w+)(\W+))([^\|]+((<|>)(\|)) [^\|]+((\w+)(\W+))((\w+)(\W+))+
  - I did not write the above regex for this one and I cannot remember where I found it, so I am unable to give credit. If it's yours then please let me know.

Malware: Zero Access

- User-agent: nsis\_inetc (mozilla)
- Regex: nsis\_inetc\s(mozilla)

Malware: Generic Trojan

- User-agent: Mozilla/5.0 WinInet
- Regex: Mozilla/5\.\0\sWinInet

Malware: Dyre / Upatre

The following string was found on a Windows machine.

- User-agent: Wget/1.9+cvs-stable (Red Hat modified)
- Regex: Wget/V1\.\9\+cvs-stable\s\(\Red\sHat\smodified\)

Malware: Generic password stealing Trojan

- User-agent: RookIE/1.0
- Regex: RookIEV1\.\0

The following two user-agent strings will require the use of Log Parser. Attempting to do a regex search with these will return a large amount of results.

Malware: Tupym

Although Autolt is legitimate, finding this user-agent may be malicious. Make sure you investigate this a bit further if you find it in your log files.

- User-agent: Autolt
- SQL: SELECT [user-agent column name] FROM [file path] WHERE [user-agent column name] = 'Autolt'

Malware: HkMain

Yes, this was actually found in proxy logs.

- User-agent: M

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- User-agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
- Regex: Mozilla/4\.\0\s\(\compatible;\sMSIE\s8\.\0;\sWindows\sNT\s5\.\1;\sTrident/4\.\0\)

#### Malware: Botnet / Adware

This was found in a known botnet as well as some adware.

- User-agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1)
- Regex: Mozilla/4\.\0\s\(\compatible;\sMSIE\s6\.\0;\sWindows\sNT\s5\.\1;\sSV1\)

#### Malware: Yakes

Notice the lack of spacing within the parantheses.

- User-agent: Mozilla/4.0 (compatible;MSIE 7.0;Windows NT 6.0)
- Regex: Mozilla/4\.\0\s\(\compatible;MSIE\s7\.\0;Windows\sNT\s6\.\0\)

That is it for now. I will add a separate page for these in the future as I continue to find more malicious user-agent strings.

Further reading:

- [Deepend Security](#) - great repository of malicious traffic values.
- [Malware Traffic Patterns](#) - more indicators and analysis than you can handle.
- [2013 User-agent Blacklist](#) - old but it still contains useful data.

Posted by [Justin](#) at [09:31](#)



Labels: [indicators](#), [malware](#), [user-agent](#)

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