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CVE Microsoft Windows vs GNU/Linux

This little article try to make a honest comparation between vulnerabilities founded in CVE database about Microsoft Windows and GNU/Linux, is not useful but fun.

I take the stadistics of Windows 7, 8, 8.1 and 10, with Linux I used only the data from 2009 to 2017. Why? because the older record of Windows 7 is from the same year.

Resume

Total of Windows 3051

Total of Linux 1369

Despite GNU/Linux is the winner... is less used than Microsoft Windows =(...

Update 1

I want try to eliminate the factor of utilization...

- Use space data

NETMARKETSHARE affirm that Mac OS X have a 6.25% vs GNU/Linux 2.09% vs Microsoft Windows 91.66%.

I get data about BSD (FreeBSD or OpenBSD), the usage statistics is 0.14%. Who uses BSD to browse the web?

- Commercial usage

To be more objetive, HG Data have data about utilization of this operating systems on enteprises.

146,216 companies affirm that use Windows 7, 8 and 10, 1,627 OpenBSD, 29,930 FreeBSD, 42,028 Mac OS X and 336,651 GNU/Linux. Surprise!!!

OK, the new numbers:

Total of Windows 3051

Total of Linux 1369

Total of Mac OS X 1313

Total FreeBSD 88

Total OpenBSD 57

The winner? If you compare the amount of people that use Windows vs the amount of security issues and related, you want to use Windows, based in the same, you don't want to use Mac OS X =$, but if you want to use an operating system that nobody wants make virus, OpenBSD is the winner.

GNU/Linux have a lot of utilization on companies with less security issues and related compared with Microsoft Windows.

Make you choice!

Details in tables

Year	# of Vulnerabilities	DoS	Code Execution	Overflow	Memory Corruption	Sql Injection	XSS	Directory Traversal	Http Response Splitting	Bypass something	Gain Information	Gain Privileges	CSRF	File Inclusion	# of exploits	Windows 10
2015	53	4	17	3	6					10	4	26				Windows 10
2016	172	6	47	23	7					19	31	82				Windows 10
2017	68	17	13	4	1		1			3	16	15				Windows 10
Total	293	27	77	30	14		1			32	51	123				Windows 10
2013	7	4	4	3	2							1				Windows 8.1
2014	38	8	13	5	4					5	5	12			4	Windows 8.1
2015	151	14	47	11	9			1		30	25	59			1	Windows 8.1
2016	154	5	45	20	7					16	26	75				Windows 8.1
2017	56	13	11	4	1		1			1	16	11				Windows 8.1
Total	406	44	120	43	23		1	1		52	72	158			5	Windows 8.1
2012	5		3	2								2				Windows 8
2013	58	17	18	21	6			1		2	3	25			4	Windows 8
2014	38	8	12	5	3					5	5	12			4	Windows 8
2015	146	12	46	10	9			1		27	24	58			1	Windows 8
2016	7		3	1						1	1	5				Windows 8
2017	1	1														Windows 8
Total	255	38	82	39	18			2		35	33	102			9	Windows 8
2009	15	3	10	2	6										1	Windows 7
2010	64	16	29	15	9		1			2	1	22			4	Windows 7
2011	102	14	18	9	8		2			4	2	65			3	Windows 7
2012	44	4	14	6						2	3	22				Windows 7
2013	99	16	18	24	6			1		3	2	67			4	Windows 7
2014	36	6	12	5	3					6	5	12			4	Windows 7
2015	147	11	52	12	9			1		24	24	60			1	Windows 7
2016	134	4	39	18	6					11	20	71				Windows 7
2017	67	7	15	11	1		1			2	33	10	1			Windows 7
Total	708	81	207	102	48		4	2		54	90	329	1		17	Windows 7
Total Windows	1662															
2009	105	66	2	22	7					8	11	22			4	Linux
2010	124	67	3	16	7					8	30	14			5	Linux
2011	83	62	1	21	10					1	21	9			1	Linux
2012	115	83	4	25	10					6	19	11				Linux
2013	189	101	6	41	13					11	57	26			7	Linux
2014	133	89	8	21	10					11	30	20			10	Linux
2015	86	55	6	15	4					11	10	17				Linux
2016	217	153	5	38	18					12	35	52			1	Linux

2017	317	68	164	25	14					6	67	23				Linux
Total Linux	1369															

Year	# of Vulnerabilities	DoS	Code Execution	Overflow	Memory Corruption	Sql Injection	XSS	Directory Traversal	Http Response Splitting	Bypass something	Gain Information	Gain Privileges	CSRF	File Inclusion	# of exploits	
2009	81	44	43	30	13		3		1	4	5	7			6	Mac OS X
2010	97	56	52	42	15		3	3		9	5	3	1			Mac OS X
2011	74	35	36	29	9		1			8	8	2				Mac OS X
2012	37	21	20	13	4					1	6	2				Mac OS X
2013	72	30	15	13	4					15	15					Mac OS X
2014	151	55	74	43	20					25	24	6			1	Mac OS X
2015	444	225	180	184	146		2	1		53	61	63	1		3	Mac OS X
2016	215	149	109	114	96		1			6	40	21				Mac OS X
2017	142	90	78	57	50		1			6	22	9				Mac OS X
Total Mac OS X	1313															

Year	# of Vulnerabilities	DoS	Code Execution	Overflow	Memory Corruption	Sql Injection	XSS	Directory Traversal	Http Response Splitting	Bypass something	Gain Information	Gain Privileges	CSRF	File Inclusion	# of exploits
2009	11	3	2	3	1					2	1	3			2
2010	8	4	2								1	2			3
2011	10	4	2	3				2		1	1	2			2
2012	10	6	2	6								1			1
2013	13	4	1	2	1					4	5	3			
2014	18	13	2	6							5				
2015	6	4	1	2							1	2			
2016	6	6		4							1	2			
2017	6	1		1						1	1	4			
Total FreeBSD	88														

Year	# of Vulnerabilities	DoS	Code Execution	Overflow	Memory Corruption	Sql Injection	XSS	Directory Traversal	Http Response Splitting	Bypass something	Gain Information	Gain Privileges	CSRF	File Inclusion	# of exploits
2009	6	5	1	2								1			3
2010	1									1					
2011	7	4	1	2											
2012	2	1									1				
2013	2	1								1					
2014	8	4		1	1					2	1				
2015	5	2								1		1			
2016	7	4		2						1	1	1			
2017	19	10	2	3							2	2			
Total OpenBSD	57														

Year	# of Vulnerabilities	DoS	Code Execution	Overflow	Memory Corruption	Sql Injection	XSS	Directory Traversal	Http Response Splitting	Bypass something	Gain Information	Gain Privileges	CSRF	File Inclusion	# of exploits	
2009	78	8	47	15	14					2	2	13			1	Windows Server 2008
2010	91	25	37	16	14		1			5	3	26			5	Windows Server 2008

2011	105	18	17	11	10		4			3	2	66			2	Windows Server 2008
2012	50	5	15	6						3	3	24				Windows Server 2008
2013	103	18	22	24	7			1		2	2	66			5	Windows Server 2008
2014	38	9	12	5	3					7	4	12			4	Windows Server 2008
2015	150	12	54	15	11		1	1		24	23	60			1	Windows Server 2008
2016	133	7	36	17	6					11	19	72				Windows Server 2008
2017	77	10	19	12	2		1			2	35	11	1			Windows Server 2008
2012	5		2	2						1		2				Windows Server 2012
2013	51	12	17	17	3			1		2	2	21			4	Windows Server 2012
2014	38	9	11	5	3					6	5	12			4	Windows Server 2012
2015	155	16	46	11	9			1		31	26	60			1	Windows Server 2012
2016	156	8	42	19	7					16	28	76				Windows Server 2012
2017	62	14	12	6	2		1			2	17	12				Windows Server 2012
2016	39	1	7	12	2					3	6	23				Windows Server 2016
2017	58	17	12	3	2		1			3	13	9				Windows Server 2016
Total Windows Server	1389															

References

- http://www.cvedetails.com/product/47/Linux-Linux-Kernel.html?vendor_id=33
- http://www.cvedetails.com/product/17153/Microsoft-Windows-7.html?vendor_id=26
- http://www.cvedetails.com/product/22318/Microsoft-Windows-8.html?vendor_id=26
- http://www.cvedetails.com/product/26434/Microsoft-Windows-8.1.html?vendor_id=26
- http://www.cvedetails.com/product/32238/Microsoft-Windows-10.html?vendor_id=26
- http://www.cvedetails.com/product/11366/Microsoft-Windows-Server-2008.html?vendor_id=26
- http://www.cvedetails.com/product/23546/Microsoft-Windows-Server-2012.html?vendor_id=26
- http://www.cvedetails.com/product/34965/Microsoft-Windows-Server-2016.html?vendor_id=26
- http://www.cvedetails.com/product/156/Apple-Mac-Os-X.html?vendor_id=49
- https://www.netmarketshare.com/operating-system-market-share.aspx?qprid=8&qpcustomd=0
- https://w3techs.com/technologies/details/os-freebsd/all/all
- http://www.cvedetails.com/vendor/6/Freebsd.html
- https://discovery.hgdata.com/product/windows-7
- https://discovery.hgdata.com/product/windows-8
- https://discovery.hgdata.com/product/windows-10
- https://discovery.hgdata.com/product/openbsd
- https://discovery.hgdata.com/product/freebsd
- https://discovery.hgdata.com/product/mac-os

- https://discovery.hgdata.com/product/linux

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