



reverse

INTERNAL
TRAINING
PROGRAMME

Cyber Threat -NHS

The NSA discovered the **weakness** that they used to “hack” and use Spyware. This in turn, was then stolen by a hacking group known as Shadow Brokers, thought to be linked to the Russian government.

What was the Weakness? The largest companies, governments and government bodies still fail to patch publicly disclosed flaws for months. Microsoft even went out of its way to issue a free fix for Windows XP, a version of its operating system which has not been sold for more than eight years. This is madness as even those trusts that still run the dated Windows XP operating system are largely paying high fees for “custom support”, which means they should have had access to the vulnerability fix in time.

NHS Digital, the health service’s centralised body for IT, issued a notice on 25 April telling staff to update systems, six weeks after Microsoft initially issued a patch. But NHS trusts and bodies are ultimately free to decide whether or not to follow such advice, and updates are not always simple to administer.

High-profile patch fiascos have made IT departments wary of automatic patch installations. Organisations often run testing, to double check that applying the patch does not knock over their IT systems.

An NHS Example.

The NHS has life saving, expensive, specialist equipment that may not work with newer operating systems, or require whole new software to be written to enable compatibility.

Upgrading a home computer to the latest version of Windows is tricky enough, and most Microsoft customers do not have to make a 15-year-old MRI machine work alongside it like the NHS does.

Was it just them?

NO, Telefonica, FedEx or Deutsche Bahn and others but does not make a good news story like the NHS does.

Windows O/S

Client operating systems	Latest update or service pack	End of mainstream support	End of extended support
Windows XP	Service Pack 3	April 14, 2009	April 8, 2014
Windows Vista	Service Pack 2	April 10, 2012	April 11, 2017
Windows 7	Service Pack 1	January 13, 2015	January 14, 2020
Windows 8	Windows 8.1	January 9, 2018	January 10, 2023
Windows 10, released in July 2015	N/A	October 13, 2020	October 14, 2025

Windows Server

	General Availability	Mainstream Support	Extended Support
Windows NT 4.0 Server	29.07.1996	31.12.2002	31.12.2004
Windows 2000 Server	31.03.2000	30.06.2005	13.07.2010
Windows Server 2003	28.05.2003	13.07.2010	14.07.2015
Windows Server 2003 R2	05.03.2006	13.07.2010	14.07.2015
Windows Server 2008	06.05.2008	09.07.2013	10.07.2018
Windows Server 2008 R2	22.10.2009	09.07.2013	10.07.2018

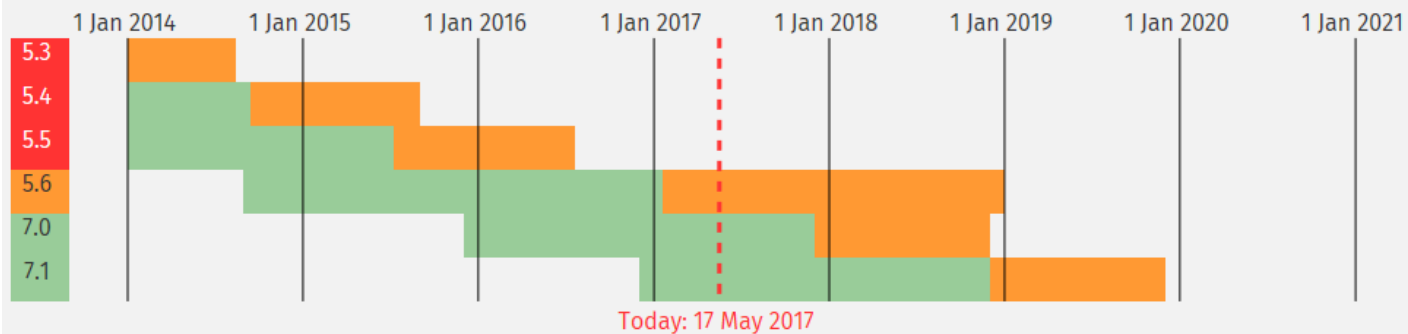
Yes, this was raised as recently as our recent Cyber Essentials Plus Audit

Myzen who host a cloud based server that runs our website use PHP 5.4.45 that is obsolete and was end of life in 2015.

Currently Supported Versions

Branch	Initial Release		Active Support Until		Security Support Until	
5.6 *	28 Aug 2014	<i>2 years, 8 months ago</i>	19 Jan 2017	<i>3 months ago</i>	31 Dec 2018	<i>in 1 year, 7 months</i>
7.0	3 Dec 2015	<i>1 year, 5 months ago</i>	3 Dec 2017	<i>in 6 months</i>	3 Dec 2018	<i>in 1 year, 6 months</i>
7.1	1 Dec 2016	<i>5 months ago</i>	1 Dec 2018	<i>in 1 year, 6 months</i>	1 Dec 2019	<i>in 2 years, 6 months</i>

Or, visualised as a calendar:



Malware is a common term for Malicious Software:

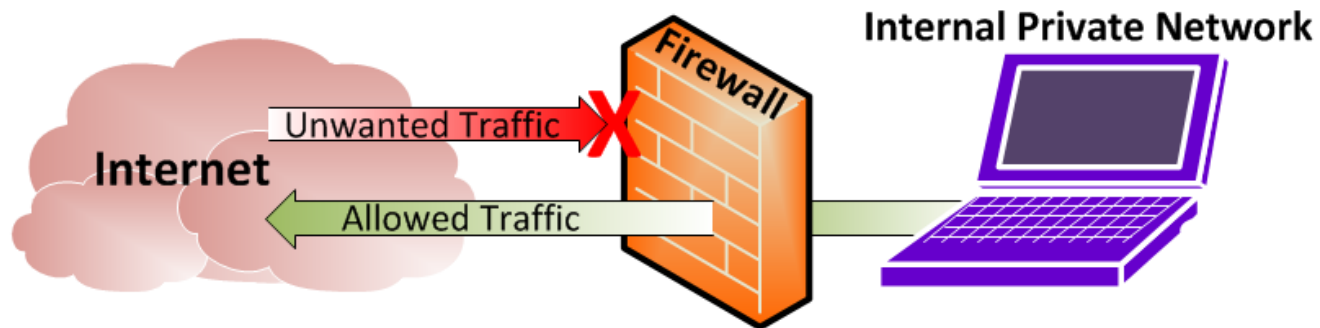
- Computer viruses
- Worms
- Trojan (horses)
- Ransomware
- Spyware
- Adware
- Scareware
- Other malicious programs.



- Antivirus (AV)
- Fire Wall
- Encryption
- Key management
- Monitor
- Block File Paths (Group Policy)



NOD32
antivirus system



Thank you

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