

URGENT WARNING FOR BUSINESSES RUNNING

*A dangerous security threat to your organization that must be addressed in
the next 7 months!*



**It's important to take action
NOW, before it's too late.**

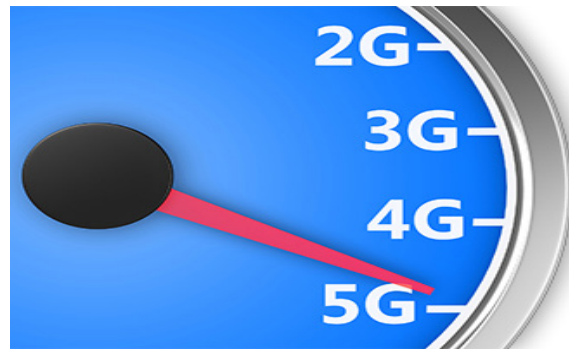
All good things must come to an end, even Windows 7. Microsoft has officially announced that it will retire support on the Windows 7 operating system and Windows Server 2008 R2 on January 14th, 2020. That means any computer or server with these operating systems installed will be completely exposed to serious hacker attacks aimed at taking control of your network, stealing data, crashing your system and conflicting a host of other business-crippling problems you do NOT want to have to deal with. Once you reach January 14th, 2020, your systems will no longer receive the critical updates and security patches that help protect against hackers, virus, malware and many other malicious attempts on your network.

This is such a serious threat that all companies housing financial and medical information are being required by law to upgrade any and all computer systems running Windows 7 or Windows Server 2008 R2 because firewalls and anti-virus software will NOT be sufficient to completely protect them (or you). Because Microsoft has deemed these operating systems end of life, eventually new versions of applications and new peripherals such as printers and scanners will no longer work.

Unless you don't care about cyber criminals running rampant in your company's server, you MUST upgrade any servers or workstations running these operating systems. And while January 14th, 2020 may seem like a ways off today, updating an IT infrastructure is a large task that takes considerable time. It's important you take action NOW, before it's too late.

If you are uncertain as to whether or not you have computers and servers with the Windows 7 operating system or Windows Server 2008 R2 installed, give us a call. Don't let your network become susceptible to malicious cyber criminals, contact us TODAY to schedule a free network assessment.

5G Then, Now, and Tomorrow



The first generation of mobile network was 2G. It was developed in the late 90's and early 2000's when mobile data started to take off. Next was 3G, it was created when it became apparent that 2G could not meet the demands after the success of the iPhone. After 3G came 4G LTE. 4G LTE was when mobile data started to really make impacts in the business and commercial world. We now have 4G LTE Advanced and Pro to provide accessibility to streaming media in HD.

The future will need a bigger and better mobile network. The future is 5G and it is already in the works. Advantages of 5G are:

- Peak speeds of 20GB
- <1ms of latency
- Tower hopping is seamless making it reliable
- Antenna's are very small, making it very easy to deploy discreetly
- Much larger spectrum available, including licensed and unlicensed
- Uses low mid and high bands (<1Ghz 1-6Ghz Millimeter-wave)
- 100X the capacity for devices than 4G

Several carriers will be rolling out the first iterations of 5G before July 2019. 5G technology standards are expected to broaden and change significantly through 2030. IoT (Internet of Things) will be a huge factor in driving the 5G revolution.

5G will use higher frequencies and technologies like MIMO, Beamforming, Higher-order Carrier Aggregation and 256QAM (Quadrature amplitude modulation). MIMO or Multiple Input Multiple

Output, allows frequency layering from the antenna, which drives capacity. Beamforming allows the focusing of a signal to the intended recipient while minimizing noise. This will improve coverage significantly. 256QAM embeds data to be transmitted over radio frequencies. Think of this as being able to add more data into a standard packet. Carrier Aggregation combines multiple data streams to improve throughput.

The major players in the 5G future are the United States, South Korea, China, and Japan. We are living in the 4th industrial revolution. 5G will supplement rather than replace today's 4G networks. 5G means carriers will have to open up unlimited data. It also means delivering highspeed data easily to places that aren't easily accessible. 5G NR (New Radio) is in the vetting phase which will standardize how the new 5G radios will operate and bring all the enhancements to the carriers.

The real excitement over 5G comes with the new uses that simply aren't possible with today's networks. Many of these involve the revolution in sensors, low-cost transmitters and cloud-based software known as IoT, or "connected", or "smart" devices. In the future, we will be using 5G to be connected to smart clothing, prosthetic devices and even ingestible health monitors. It will also have a huge impact with industrial automation robotics, smart houses, and smart cities. It is hard to fathom what will not be impacted by 5G.

Written By: Matt Carpenter

BEFORE THE BREACH

HACKERS ARE HERE!

NEW SKILLS FOR A NEW FIGHT

- 1 in 5 businesses will suffer a cyber breach this year
- 81% of all breaches happen to small/medium sized businesses
- 66% of companies do NOT test their backups
- 60% of companies that lose their data will go out of business within 6 months
- 92% of malware is delivered via email
- 97% of breaches could have been prevented with today's technology

Want to learn more about how to protect your business?

Sign up today for our Cyber Security Roadshow in June!

www.preferreditgroup.com/beforethebreach



talk nerdy to me

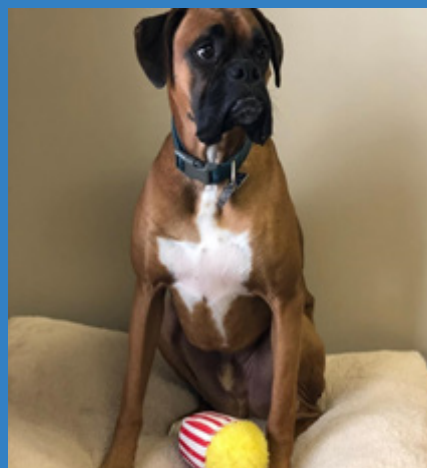
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|---------------|-----------------|----------|----------------|
| cybercriminal | email | fraud | identity theft |
| internet | online shopping | pharming | phishing |
| safety | Social Security | | |

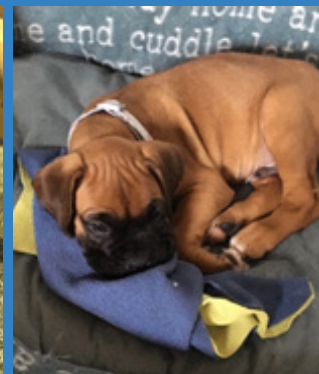
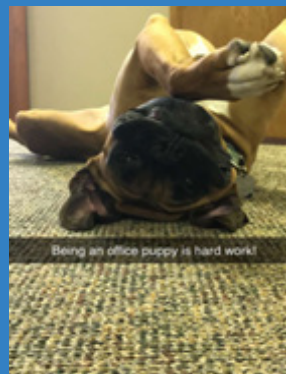
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May 2019

PREFERRED IT EMPLOYEE SPOTLIGHT



Sully has been with Preferred IT since August 2017. He is not your typical Preferred IT employee. He isn't very good with tech support, or answering the phones, but we keep him around anyways! Most of his day he prefers to watch over his boys working hard helping customers. However, he does like to distract them by trying to jump in their laps, give them toys to play with, or snore at their feet. He takes turns deciding who he wants to sleep by. When he wants to be really comfortable and the action is slow out in the cubicles, he decides to come into his Mom's office and sleep on his bed. The biggest excitement in his day is riding to and from work and greeting the mail man at the door! He loves all of his Preferred IT family and is glad to come to work everyday to help everyone smile. Sully thinks that Preferred IT is a great place to work and he feels that every company should have an office puppy; he says it is great for the moral! Keep up the good work Sully, our days would be boring without you!



5th Annual Great American Clean Up



Our mission is to build lasting relationships within our community and one way we like to give back is by participating in the Great American Clean Up in Fort Wayne. Each year as a team, we work together to pick up trash and to help make our local community that much nicer!

MAY BIRTHDAYS

A good chunk of our office was born in the month of May, so we decided to throw a little pizza party in their honor!

Happy Birthday Jordan, Trevor, Scott, and Matt!!



preferred **group** IT

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