Combating CyberCrime on a SMB Budget
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Keeping Small Businesses Safe

What Happens on Main Street Stays on Main Street

When hackers breach the security of corporations it makes headlines, yet there is rarely a mention when cybercrime hits small to medium sized businesses (SMBs). Very few people are even aware that today’s cybercriminals are targeting SMBs, not just supersized global businesses.

According to the Ponemon Institute’s 2017 State of Cybersecurity in Small and Medium-Sized Businesses report, 61% of businesses experienced a cyber attack in 2017, up 6% from the prior year.

Everyone is a Victim when it comes to Cybercrime

The loss and exposure of confidential data from a cyber attack is costly to both the people victimized and the businesses whose data was compromised.
For the victim, hackers typically retrieve personal information, bank account, credit card and social security numbers, resulting in identity fraud. The stress and time involved to reclaim their identity and get their financial house back in order is beyond measure.

For businesses, there are 48 state-specific DBN (Data Breach Notification) laws in effect in the United States. Adding to the complexity and costs of this process is the fact that laws and compliance obligations vary from state to state.

A breach of customer data in Pennsylvania will have different breach notification and follow-up requirements than a breach involving a customer in Massachusetts. This means firms servicing customers and clients from more than one state are responsible for these duplicative legal, regulatory, and compliance burdens.

61% of SMBs experienced a cyber attack last year

Nearly 2/3 of SMBs close within 6 months of a significant cyber attack
Cybercrime Comes at a High Price for SMBs

According to research compiled by the Ponemon Institute in their Annual Cost of Cyber Crime Study, the average cost per breached record in the U.S. is approximately $141. This cost is down from last year’s $156, but the report notes that companies are having larger breaches, which means total costs continue to increase.

This cost per breached record factors in the costs of the investigation and notification process, fixing the issue that led to the breach, possible liability and litigation costs, lost business, and the time and effort that go into damage control. In many cases, a damaged reputation may prove to be irreparable.

Nearly two-thirds of victimized companies are out of business within six months of a significant cyber attack, making cybercrime the death knell for many SMBs. This is because the consequences of cybercrime extend well beyond the actual incident and have long-lasting implications.

Small businesses obviously don’t have the same financial footing to rebound and carry on with business as usual in the way organizations like Target, Amazon, Apple, or Citibank can.

Average cost per breached healthcare record: $380.
Symantec’s research found that customers affected by security breaches are generally less forgiving of smaller businesses—especially smaller online retailers—than larger companies. SMBs are contending not only with lost revenue and expenses, but also the possibility of never regaining the trust of customers, clients, and business partners.

43% attacked in 2016 up from 18% in 2011

Symantec’s latest State of Information Survey found that nearly half of all SMBs admitted to a data breach damaging their reputation and driving customers away.

The trend of cybercriminals preying on smaller businesses doesn’t seem to be waning. According to Symantec, the number of cybercrime attacks targeting firms with fewer than 250 employees jumped from 18 percent of all attacks in 2011 to 43 percent in 2016.

Why Cybercriminals are Zeroing in on Small Businesses

Large corporations have the resources to invest heavily in the most sophisticated security strategies and successfully stop most cybercrime attempts. A typical large enterprise may have over twenty in-house IT dedicated employees ensuring that every device connecting to their network is adequately protected.
In comparison, SMBs have neither the money nor the manpower of large enterprises and can’t afford the same level of security. Very few SMBs have full-time IT dedicated personnel on hand to run routine security checks. Even those who do have in-house IT support often find that their internal resources are too bogged down with other tasks to properly address security upkeep.

A recent report from Experian further confirms how lax many businesses are when it comes to protecting their data, citing 70% of companies experiencing multiple data breaches last year. Despite this, 66% had not scheduled time to review and/or update their data breach plan.

Not only have SMBs become easy prey for cybercriminals, but their sheer abundance also makes them an alluring target. There are roughly 29 million SMBs in the United States alone. Half of that figure is comprised of home-based businesses. Even in a struggling economy, it’s projected that there are still an estimated 500,000 startups launching every month with only a handful of employees.

51% of SMBs believe they are too small to be the target of a ransomware attack

SMBs are Not “Too Small to Matter”

Since most cybercrimes affecting smaller businesses go unreported by the media, there is no sense of urgency by SMBs to prepare for cyber attacks. Too many SMBs mistakenly view their operations
and data as trivial to hackers. They feel that large online retailers, global banks, and government entities are much more attractive targets for hackers.

The goals and methods of cyber attackers are evolving and will continue to evolve. The era of one “big heist” for hackers is over. Cybercriminals today often prefer to infiltrate the data of many small businesses at once, stealing from victims in tiny increments over time so as to not set off an immediate alarm. This method takes advantage of those SMBs who are especially lax with their security processes and may not even realize there has been a security breach for days or sometimes even weeks.

SMBs must end the “It will never happen to us” mindset. For instance, political “hactivists” have been responsible for a number of high-profile Denial-of-Service (DDoS) attacks in recent years. The goal of a hactivist is to disrupt the status quo and wreak havoc on the technology infrastructure of larger corporations and government entities. It’s a form of cyber anarchy—a “stick it to the man” philosophy spearheaded by groups like Anonymous, LulzSec, and DCLeaks.

An owner or Chief Information Office (CIO) at a SMB may read of these high publicized attacks in the press and not think anything of it. They aren’t Sony, Apple, or the Department of Defense, so
why would a hactivist target their data? But according to Arbor’s latest Annual Worldwide Infrastructure Security Report, there are on average more than 15 DDoS attacks per minute throughout the world, with the US as the #1 country being targeted. That means any size company can be at risk.

85% of data breaches can be traced back to user error

SMBs - The Access Ramp to Bigger and Better Data

One reason small businesses are more vulnerable is they’re often the inroad to larger better-protected entities. They are often subcontracted as a vendor, supplier, or service provider to a larger organization. This makes SMBs an attractive entry point for raiding the data of a larger company. Since larger enterprises have more sophisticated security processes in place to thwart cyber attacks, SMBs often unknowingly become a Trojan horse used by hackers to gain backdoor access to a bigger company’s data.

There is malware specifically designed to use a SMB’s website as a means to crack the database of a larger business partner. For this reason, many potential clients or business partners may ask for specifics on how their data will be safeguarded before they sign an agreement. Some may require an independent security audit be conducted. They may also ask SMBs to fill out a legally binding questionnaire pertaining to their security practices.
Moving forward, a SMB that is unable to prove they’re on top of their infrastructure’s security will likely lose out on potentially significant deals and business relationships. More large enterprises are being careful to vet any business partners they’re entrusting their data to.

**To Stay Secure, A Good Offense is the Best Defense**

SMBs must understand that the time has come to get serious with their security. Sadly, many small businesses have a false sense of security. In a recent Ponemon survey of over 1,000 SMBs, 51% reported believing they were too small to be the target of ransomware and 48% were confident in the security of their current antivirus software despite 81% reporting instances when malware evaded that protection.

1 in 14 cannot recognize a phishing email

Cybercrime is only one cause of compromised data. The primary cause of breached security at businesses according to that same Ponemon report is negligent employee or contractor (54%). Only 40% attributed the root cause to external hackers and/or malicious insiders.

Data breaches aren’t always about bad people doing bad things. Many are the result of good employees making mistakes or of technology failure. SMBs don’t necessarily need a large budget or dozens of employees to adequately protect sensitive data. A
secure environment is possible even on a SMB’s budget. Here are a few steps to improving data and network security.

**Step 1 - Know All Devices Connecting to Your Network**

Keep a frequently updated list of every device that connects to your network. This inventory is especially important given today’s BYOD (Bring-Your-Own-Device) workplace where employees can access your network through several different devices. Knowing what these devices are and ensuring they’re all configured properly will optimize network security.

All it takes is a regularly scheduled review to add or remove any devices and affirm that every endpoint is secure. Much of this process can be inexpensively automated through a Mobile Device Monitoring (MDM) tool. A MDM tool will approve or quarantine any new device accessing the network, enforce encryption settings if sensitive information is stored on such a device, and remotely locate, lock, and wipe company data from lost or stolen devices.

**Step 2 - Educate and Train Employees**

Every employee should participate in regular general awareness security training. This will not only reduce security breaches directly tied to employee error or negligence but also train employees to be on the defense against cybercrime.

Employees are critical to your security success and the prevention of data breaches. Hackers commonly break into networks by taking advantage of unknowing employees. Phishing attacks—legitimate-looking emails specifically crafted to mislead recipients into clicking a malicious link where they’re asked to provide their username and password—are still successfully used by hackers to capture login credentials.

If a large company makes the news for a data breach tied to an infected email, be sure to share that news with employees with a warning. Come up with fun ways to teach employees how to identify
spearphishing email attempts and better secure their systems and devices.

It is also important to have a security policy written for employees that clearly identifies the best practices for internal and remote workers. For example, password security is critical, and passwords should be frequently updated to a combination of numbers, lower and upper case letters, and special characters that cannot be easily guessed. Security policy training should be integrated into any new employee orientation. This policy should be updated periodically. More important than anything, this security policy must be enforced to be effective.

**Step 3 - Perform an Audit of Sensitive Business Information**

If you want to keep your most sensitive business information secure, it is important to know exactly where it’s stored. A detailed quarterly audit is recommended.

Additional helpful resources, including a step-by-step guide to performing your own Security Risk Assessment and how to protect all the access points through proper IT Defense, are available on our website.

**Step 4 - Use Cloud and Managed Service Providers**

Overall, the cloud is likely a more secure data solution for small business. Any conception that the cloud isn’t safe is outdated. With so many security breaches the result of lost or stolen devices, printed documents falling into the wrong hands, and employee errors leading to unintended disclosures, it’s fair to speculate that many of these breaches wouldn’t have occurred had this information been stored in the cloud rather than computers, laptops, and vulnerable servers.

SMBs with limited budgets are actually enhancing their security by moving to the cloud. Since there is no way a SMB can match a large enterprise’s internal services, moving services like email, backups,
and collaborative file sharing to the cloud not only reduces total-cost-of-ownership but shifts those programs to top-level security that can better defend against internal and external threats.

Meanwhile, a Managed Services Provider (MSP) can assume responsibility for security measures like the administration of complex security devices and technical controls like firewalls, patching, antivirus software updates, intrusion-detection, and log analysis systems.

MSPs are also capable of generating a branded risk report for any potential client or business partner reviewing your security measures. This third-party manual assessment of your network security can instill confidence in prospective business partners by proving to them that any possible security risks or vulnerabilities will be properly managed and addressed.

Contact your local team at Infinity, Inc. for help determining your business’s security strengths and weaknesses. You’ve got a company to run, and its protection is too important to be put off until after you get breached. We can help.