Web security is becoming increasingly difficult in the information technology realm that we know today. Cyber security spending is set to exceed $1 trillion by the year 2021. The amount of malicious content has been steadily increasing and ransomware attacks are becoming more prevalent. Part of the problem lies within the fact the businesses and their employees do not know basic security measures for setting up websites.

Before a web site can be built a domain name must be chosen. Once the domain name is chosen it will need to be registered. The article, *What is web security and why is it important for your website*, states that it is important for the business owner to register their domain name under their own name. To save money in the long run and will keep you in control (Ismail, 2018). Web hosting companies may offer to pay for the registration fees associated with the domain name, however, it takes the ownership rights and gives it to the hosting company(Ismail, 2018). They can then in turn sell your own domain name for a massive fee later. If a web hosting company is used make sure that the owner or business is listed as the administrative contact, technical contact, and the owner (Ismail, 2018). This will allow for the transference of the domain name at a later time, allowing a switch to be made to a more secure host (Ismail, 2018).

Another aspect with domain names is that of remembering to set to automatically renew the domain name when you register. If a specific time line is not set or annual renewal is not selected, the web site can go down when it expires. This would bring chaos and havoc but also may allow competitors to buy the domain (Ismail, 2018). They could then sell it back to you for an extortionate price. This would be an embarrassing and possibly costly mistake.

An overall basic and pretty well-known security fact is that of avoiding to use the same password for many or all accounts. Also, to use more complex passwords even though they may be harder to remember. Simply using a password that has a minimum of eight character, including at least one uppercase letter and one number, will increase the password strength (Ismail, 2018). Although it is still highly recommended that even more complex passwords be used with the amount of password hacking tools are available. It is also recommended that you check the lists of most common passwords used and make sure that the password you are using is on one of those lists.

It is also exceedingly important that passwords get changed regularly, in order to keep accounts and websites as secure as possible. It is recommended that passwords be changed every 3 months (Ismail, 2018). Another solution it to use two-factor authentication to increase security. This involves users having two pieces of information to be able to access an account or web site. These include things such as password, key fob, or card reader which generate a random code to grant access to the website(Ismail, 2018). However, this is costly as everyone who would be granted access would each need to have one.

Another way to boost the security of a website is to switch from a standard HTTP (Hypertext Transfer Protocol) to HTTPS (HTTP Secured). HTTPS adds an additional layer of security and encryption(Ismail, 2018). This works through an SSL Certificate (Secure Socket Layer) which protects the data and any sensitive information that is passed between server and browser(Ismail, 2018). This makes your clients information more secure and in turn makes it more difficult for a third party to get the information (Ismail, 2018).

Through following these tactics and tips a website can be made more secure. With the increase in malicious activity it is important to protect your website the best that is possible. Remoting back to the basics of web site security is important for all businesses alike.

Work Cited

Ismail, Nick. “What Is Web Security and Why Is It Important for Your Website.”

*Information Age*, 12 Jan. 2018, [www.information-age.com/web-security-important-website-123470340/](http://www.information-age.com/web-security-important-website-123470340/).