Ten security controls for effective cybersecurity

1

Keeping an inventory of authorized and unauthorized software

Having visibility over the software in your network can help you identify and remove prohibited software as well as the risk of unknown software exploitations.

2

Keeping an inventory of authorized and unauthorized hardware

Maintaining and securing remote network devices—whether they're laptops or mobile devices—can be challenging but should never be neglected, as each device is another opportunity for an attacker to sneak in. Encryption and endpoint management can help.

*2016 brought us the **Mirai botnet**.*

*2017 brought us **Brickerbot malware** and the **CloudPet breach**.*

*2019 will bring us more focused and **aggressive attacks** than before.*

3

*Do remember there are **230,000 new malware** identified every day*

Securing hardware and software configurations

Customized configurations for hardware and software can help mitigate both hardware and software-specific attacks.

4

Continuously assessing and remediating vulnerabilities

WannaCry, Petya, Bad Rabbit, Meltdown, and Spectre all had a vaccine, and it was patching. Vulnerabilities are everywhere—are all your devices patched and secured?

*A cyber attack happens every **39 seconds**, victimizing **1 in 3 Americans**.*

*Through 2020, **99%** of exploits will continue to be ones known by security and IT professionals for at least one year.*

5

*Average cost of a data breach will exceed **$150 million** by 2020.*

*Since 2013 there are **3,809,448** records stolen from breaches every day , **158,727** per hour, **2,645** per minute and **44** every second.*

Ensuring access control and administrative privileges are accurate and in constant use

With the GDPR and DPB (data protection laws) already in effect this year, comprehensive data security is no longer just good business sense, it's also mandatory.

6

*Cryptojacking is set take down enterprise devices for mining in **2019**, as the **cryptocurrency buzz escalates**.*

64% *of companies experienced web-based attacks.*

62% *companies have faced phishing & social engineering attacks.*

93% *of phishing emails are now ransomware.*

Protecting browsers

With malware increasingly focused on cryptocurrencies, the probability that your browsers will be infected with cryptominers is higher than ever.

7

***Eternalblue** - a port vulnerability that affected more than **300,000** computers worldwide.*

Controlling network ports

WannaCry and Petya exploited network ports to spread internally within networks. Be your network's gatekeeper by monitoring and controlling active ports along with all the traffic moving through them.

8

Protecting data

There's a huge amount of information that flows into an enterprise every day, but only some of that information is used while the rest is left as stale data without a retention policy. If data protection and user privacy is not properly maintained as per the data protection laws, organizations may end up spending millions on fines.

***Personal data leak** of any EU data subjects, can cause you **2.5 times the price of Mercedes Maybach Exelero**.*

In 2019, cybercriminals will target and exploit more security software

9

***65%** of companies have over **1000 stale user** accounts.*

***65%** companies have over **500 users** with passwords that never expire*

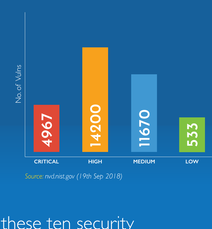
Monitoring and controlling accounts

Often, expired user accounts are not removed from directories, meaning they leave a gap in a company's security. Likewise, passwords that never expire increase that account's vulnerability over time. Stay on top of security gaps by monitoring account activity and controlling password policies.

10

Securing applications

With an increasing number of remote code executions exploiting zero-day vulnerabilities, application security has become a vital item on security checklists for many businesses. Especially with the cost of fines reaching millions of dollars should businesses fail to comply.



Source: nvd.nist.gov (19th Sep 2018)

Achieve and sustain these ten security controls using **UEM Central.**

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