

# Take a look at the most significant threats from the security world in 2019

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2019 continues to be a turbulent year of the global security world. Many new and modern security methods are introduced, but along with it is the continuous progress from malicious agents. Botnets, trojans, RATS or ransomware all contributed to a volatile but memorable 2019. Let's take a look at the most significant threats from the security world in the past year to learn from future experiences.



## RDP vulnerability

The flaw of the BlueKeep Remote desktop protocol (RDP), and later DejaBlue, became a nightmare in 2019. They allowed remote attackers to fully exploit and control endpoint devices. Targeting. The obsession with a second WannaCry forced Microsoft to immediately release security patches for older systems such as Windows XP and Windows 2000.

## Zero-day

Zero-day is one of the indispensable components when it comes to the overall security picture in 2019. For example, in the case of Urgent / 11, this zero-day vulnerability affects 11 execution vulnerabilities. Real-time telemetry code in VxWorks OS - an operating system used in many critical infrastructure devices by government organizations around the world.

## CPU gap

After Meltdown and Specter of 2018, CPU-related side-channel vulnerabilities continue to bloom in 2019 with big names like ZombieLoad, Bound Check Bypass Store, Netspectre and NetCAT. experts, the situation in 2020 will certainly remain very difficult, even more serious variants will be recorded.

## Ransomware

### 1. What is ransomware?

Undoubtedly, 2019 has been the ransomware's most powerful year since ransomware was first discovered in 2017. Instead of mass targeting, in the past year ransomware strains in general, they have turned their attacks to those who can help them earn more ransom, including schools, hospitals, public services and especially businesses, causing damage of billions of dollars. Some of the prominent ransomware strains to mention in the past year include MegaCortex, Ryuk, LockerGoga, REvil, and PureLocker.

## Botnet

Botnets continue to be an important tool in cyber attacks that have occurred throughout the past year. We have seen the return of the infamous Emotet botnet, and especially Echobot, an IoT botnet, that has created a vast mining network with a scale of millions of devices. Botnets will undoubtedly remain a problem in the security world for many years to come.

## Attacks on mobile devices

Not as prominent as ransomware or botnets, but attacks on mobile devices have also been a major threat in the past year. Among them are trojans that infect users' smartphones and tablets in order to steal personal information such as Anubis or Gustuff Android . affecting millions of people worldwide.

2020 is forecast to be a difficult year for cybersecurity. Above all, individual users as well as businesses should update their knowledge, stay alert to ensure their own safety.

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