Threat stats

Introduction

Previously, you gained some insight into what a threat landscape is. You should now be familiar with the possible entry points into a system, the approaches used by potential attackers, and the tools they use in an attack.

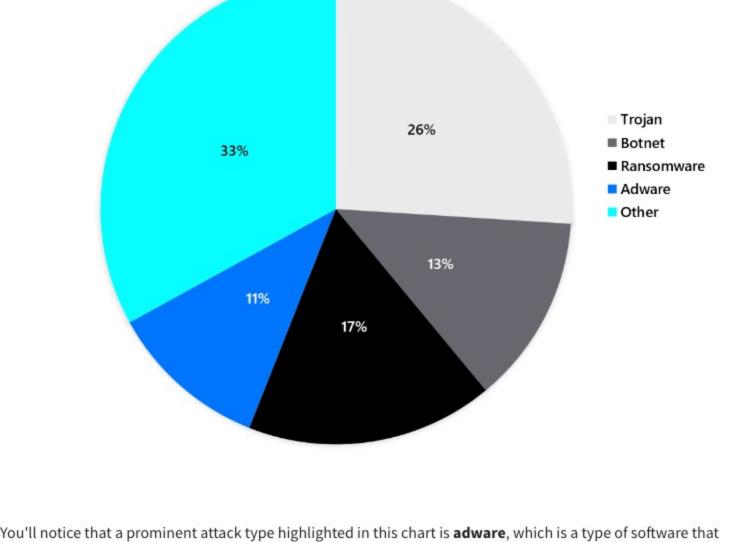
how they are propagated, as well as tips for safeguarding against them.

In this reading, you'll analyze some real-life examples to better understand the most prevalent types of attacks and

For an example of an organization that faces constant threats, let's examine Cisco's Umbrella Cloud Architecture

Breaking Down Modern Cybercrime

defense, which is a global cloud defense system that deals with billions of online transactions daily. An analysis of their usage in November of 2021 provides a snapshot of the type of crime that is currently being engaged with. Below you'll find a chart that breaks down the types of attacks across one month.



permission, usually to direct the user toward a particular website. However, this reading will focus on the three most common types of attacks that are capable of doing extensive harm to a user's computer or a system; these are Trojan, ransomware, and botnet attacks. Trojan Attacks

The most frequent attack indicated in the chart is a **Trojan** attack. The name is a historical reference to the battle of

frequently shows ads to a user and is typically installed through deceit or without consent. The **other** category consists of various, less common attacks, such as a browser hijacker. This is software that alters a user's web browser without

Troy, when the Greeks were said to sidestep the defenses of the Trojans by tricking them into wheeling a wooden horse full of enemy soldiers into their own city. This is an umbrella term that covers several attack types, including the

following:

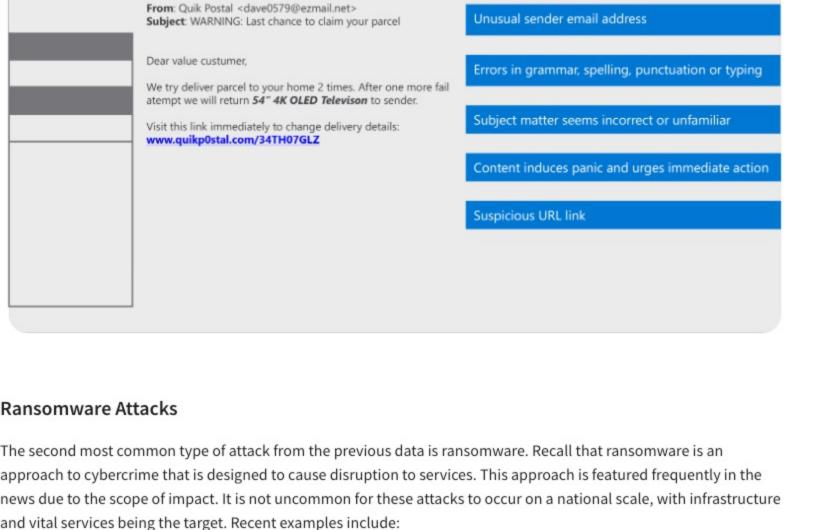
Exploit Trojans Downloader Trojans

- Ransom Trojans
- Backdoor Trojans
- While Trojans will behave differently depending on the type, the common trait of this approach is that a user inadvertently introduces malicious code into the organization and triggers it behind the defensive walls. The best

Be particularly vigilant with misspellings, such as zeroes that have been replaced with O's, a trick used to lure an unwary user into bringing the horse behind the gate. Below you'll find an example of a potentially malicious email, along with a list of general warning signs to be aware of. Warning Signs of a Potentially Malicious Email

unsolicited email with unexpected attachments, and always examine domain names and links before clicking on them.

defense against trojan attacks is to practice vigilant internet usage. Some guidelines are to never click on an



Critical Ukraine infrastructure in 2022. Costa Rica, which declared a state of emergency when 30 institutions of government were held to ransom.

Botnet Attacks

Bot

Ireland's Health Service's Executive (HSE) in 2021.

Keep your system up-to-date with the latest security patches.

Ensure that only people with authorization for a system can use its system.

characters, numbers, and symbols.

gain access to your system. Best practices for achieving this include the following: Use strong passwords. A strong password is one that is difficult to guess and typically would include a mix of

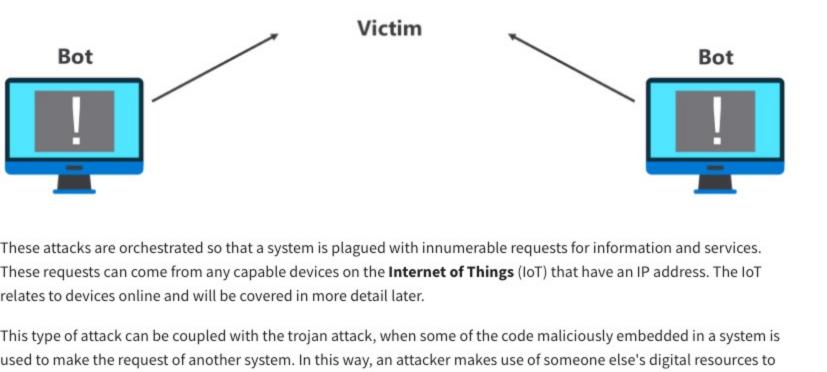
The methodology behind these types of attacks is to gain access to a system and lock out the legitimate owner until a demand has been met. One approach to best mitigate against this type of attack is to ensure that no external actors

online software program that performs automated and repetitive tasks. They are a means of creating a Denial of

Next is Botnet attacks, which represent 13% of the documented attacks in the chart above. A bot can be defined as an

Service to an organization. If a Trojan attack is a subtle attempt to circumnavigate an application's defenses, a bot attack could be described as a full scaling of the walls, as depicted below.

Bot



Like

Go to next item

Dislike

Conclusion

As you may have concluded, cybercrime is a broad field that encompasses a variety of means of extorting money from an organization. This ranges from stalling business activities to removing items of value, such as user information.

negate the resources of a targeted victim. One defensive approach to mitigate against these types of attacks is to

the operations of a system, then this address can be blocked. However, more sophisticated approaches must be

monitor network traffic for suspicious activity. If a particular source is identified as making repeated calls that impact

In this reading, you became familiar with the most common cyberattack approaches that affect real organizations and how they can be implemented. You were also made aware of some actions that can be taken to mitigate the risk of such attacks occurring.



Completed

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employed when a variety of compromised systems are used.