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In this report we introduce additional context into the biggest stories dominating the year thus far and we can look no further than recent ransomware attacks. While the topic itself is not new, there is no question that the threat is now truly mainstream.

LETTER FROM OUR CHIEF SCIENTIST

What a 2021 we have had thus far. In this report we introduce additional context into the biggest stories dominating the year thus far and we can look no further than recent ransomware attacks. While the topic itself is not new, there is no question that the threat is now truly mainstream.

This Threats Report provides a deep dive into ransomware, in particular DarkSide, which has resulted in an agenda item in talks between U.S. President Biden and Russian President Putin. While we have no intention of detailing the political landscape, we certainly do have to acknowledge that this is a threat disrupting our critical services. Furthermore, adversaries are supported within an environment that make digital investigations challenging with legal barriers that make the gathering of digital evidence almost impossible from certain geographies.

That being said, we can assure the reader that all of the recent campaigns are incorporated into our products, and of course can be tracked within our <u>MVISION Insights</u> preview dashboard.

This dashboard shows that—beyond the headlines—many more countries have experienced such attacks. What it will not show is that victims are paying the ransoms, and criminals are introducing more Ransomware-as-a-Service (RaaS) schemes as a result. With the five-year anniversary of the launch of the <u>No More Ransom</u> initiative now upon us it's fair to say that we need more global initiatives to help combat this threat.

We hope you enjoy this Threats Report, please stay safe.

—Raj Samani McAfee Fellow, Chief Scientist

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WRITING AND RESEARCH

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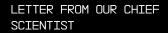
RANSOMWARE: FROM BABUK TO DARKSIDE AND BEYOND

While the DarkSide Ransomware-as-a-Service (RaaS) <u>attack</u> on Colonial Pipeline held recent headlines hostage in Q2 2021, the ransomware activity story actually went deeper in the first quarter of the year.

<u>Babuk, Conti, Ryuk</u>, and <u>REvil</u>, preceded <u>DarkSide</u> in establishing 2021 ransomware trends.

We observed that "smaller" ransomware campaigns decreased in Q1 while the Ransomware-as-a-Service campaigns targeted and breached larger organizations and companies. The number of Q1 samples dropped as more attackers shifted from mass-spread campaigns, toward fewer, but more lucrative targets. Most of these larger, targeted victims received a custom created variant of the ransomware family at a low volume.

Here's a breakdown of McAfee Labs Ransomware research and findings from Q1 of 2021:



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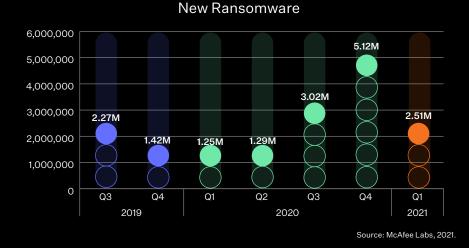
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Q1 2021 NEW RANSOMWARE CHART

FIGURE 1. WHILE UNIQUE RANSOMWARE DETECTED IN Q1 2021 DECREASED 50% COMPARED TO Q4 2020 DETECTIONS-IN PART FOLLOWING A DROP IN CRYPTODEFENSE-RANSOMWARE REMAINED A MOST SERIOUS THREAT AGAINST LARGER ORGANIZATIONS AND BUSINESSES IN Q1 AND Q2 2021.

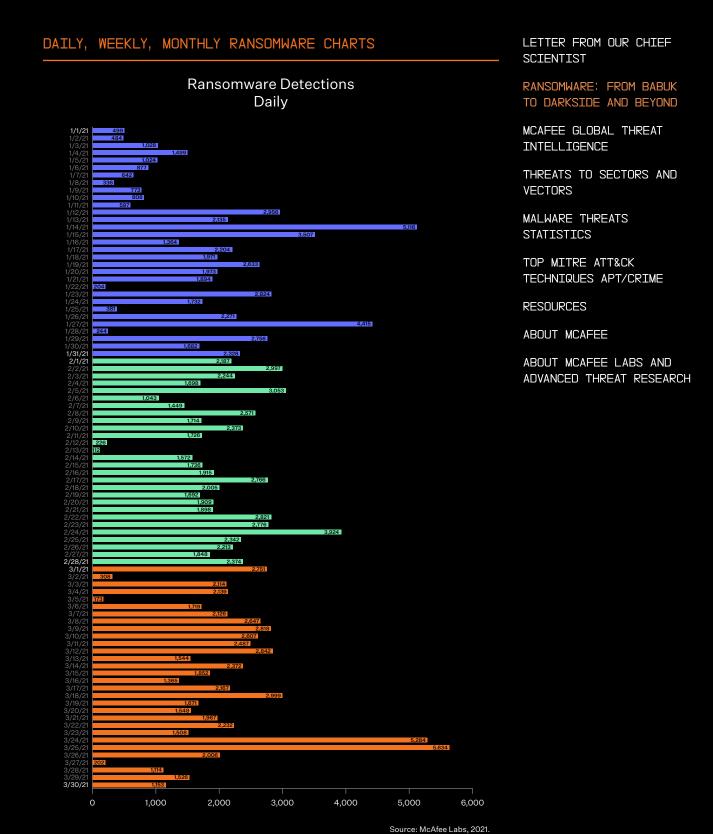
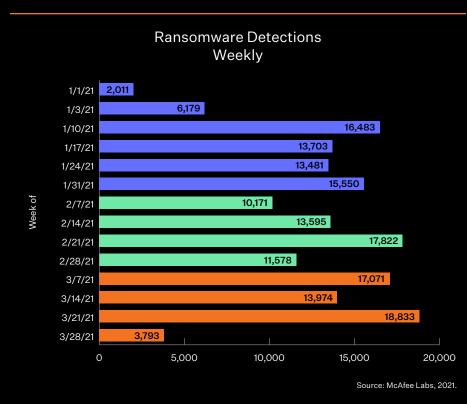


FIGURE 2. A SNAPSHOT OF RANSOMWARE DETECTED AMONG MCAFEE CLIENTS IN Q1 2021 INCLUDES A DAILY HIGH OF 5,634 DETECTIONS ON MARCH 25 AND AN AVERAGE OF 2,417 DETECTIONS PER DAY DURING THE LAST WEEK OF MARCH.



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FIGURE 3. THE MOST RANSOMWARE DETECTIONS (18,833) IN Q1 2021 WERE RECORDED IN THE WEEK OF 3/21-3/27.

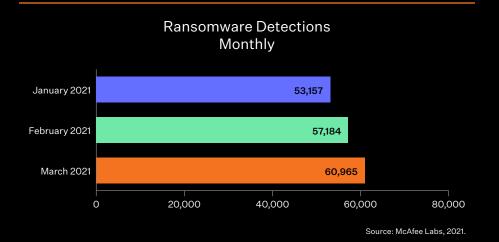


FIGURE 4. THE GREATEST NUMBER OF Q1 RANSOMWARE DETECTIONS WERE RECORDED IN MARCH.

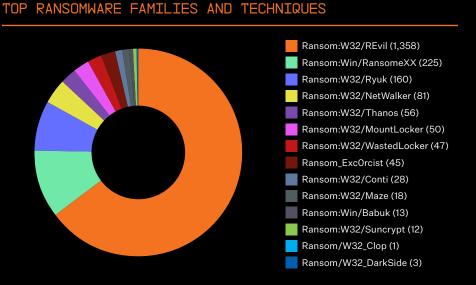


FIGURE 5. RANSOMWARE-RELATED MALWARE FAMILIES DETECTED IN Q1 OF 2021 REVEALS THE PREVALENCE OF REVIL, RANSOMEXX, AND RYUK PRIOR TO DARKSIDE'S HEADLINE-GRABBING HACK OF COLONIAL PIPELINE'S SYSTEMS IN MAY OF Q2.

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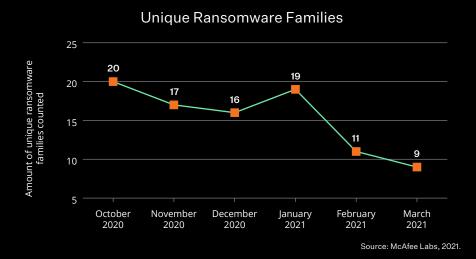
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UNIQUE RANSOMWARE FAMILIES

FIGURE 6. THE AMOUNT OF UNIQUE RANSOMWARE FAMILIES DECREASED FROM 19 IN JANUARY 2021 TO 9 IN MARCH 2021, FOLLOWING THE Q1 TREND OF FEWER CAMPAIGNS TARGETING LARGER ORGANIZATIONS AND BUSINESSES WITH POTENTIALLY MORE LUCRATIVE RANSOMS.

RANSOMWARE COVERAGE AND PROTECTION

When it comes to the actual ransomware binary, we strongly advise updating and upgrading your endpoint protection, as well as enabling options like tamper protection and rollback. Please read our <u>blog</u> on how to best configure ENS 10.7 to protect against ransomware for more details.

McAfee is a proud partner of the <u>Ransomware Task Force</u>, which released a details on how ransomware attacks are occurring and countermeasures that should be taken. As many of us have published, presented on, and released research upon, it is time to act. LETTER FROM OUR CHIEF SCIENTIST

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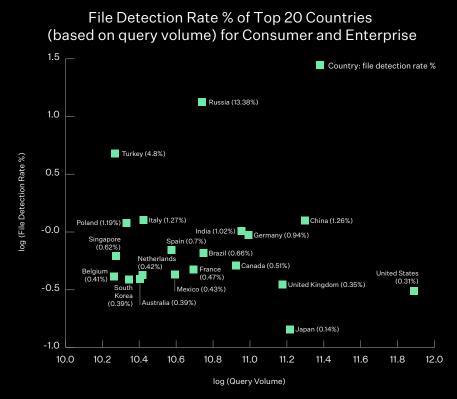
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MCAFEE GLOBAL THREAT INTELLIGENCE

Based on activity from millions of sensors world-wide and an extensive research team, McAfee Labs publishes timely, relevant threat activity via McAfee Global Threat Intelligence (GTI). This always-on, cloudbased threat intelligence service enables accurate protection against known and fast-emerging threats by providing threat determination and contextual reputation metrics. McAfee GTI integrates directly with our security products, protecting against emerging threats to reduce operational efforts and time between detection and containment.

Here are notable statistics from Q1 2021.

FILE BY COUNTRY CHARTS



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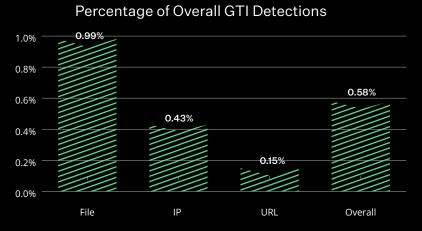
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Source: McAfee Labs, 2021.

FIGURE 7. IN Q1 2021, THE UNITED STATES HAD THE HIGHEST QUERY VOLUME OF 775 BILLION QUERIES WITH A LOW DETECTION RATE OF 0.31%. OF THE 55 BILLION GTI QUERIES IN RUSSIA, MALWARE WAS DETECTED 13.38% OF THE TIME, RESULTING IN RUSSIAN CUSTOMERS EXPERIENCING THE HIGHEST DETECTION RATE OF MALWARE AMONG THE TOP 20 COUNTRIES. TURKEY HAD THE BIGGEST CHANGE FROM THE PREVIOUS QUARTER WITH A REDUCTION IN DETECTION RATE FROM 9.76% TO 4.8% AND A QUERY VOLUME OF 19 BILLION. JAPAN HAD THE LOWEST DETECTION RATE OF THE COUNTRIES IN THE TOP 20 WHICH WAS 0.14% AND A HIGH NUMBER OF QUERIES WITH 165 BILLION. CHINA HAD A DETECTION RATE OF 1.26% AND THE SECOND HIGHEST QUERY VOLUME OF 199 BILLION.

QUERIES AND DETECTIONS



Source: McAfee Labs, 2021.

FIGURE 8. IN Q1 2021, THE DAILY AVERAGE OF FILE DETECTIONS WAS 252 MILLION (0.99% DETECTION RATE) WHICH INCREASED FROM 243 MILLION (1.03%) IN Q4 2020. IN Q1, THE DAILY AVERAGE OF URL DETECTIONS WAS 26 MILLION DETECTIONS (0.15% DETECTION RATE) WHICH DECREASED FROM 35 MILLION (0.21%) IN Q4. THE DAILY AVERAGE OF IP DETECTIONS, IN Q1, WAS 79 MILLION DETECTIONS (0.43% DETECTION RATE) WHICH INCREASED FROM 63 MILLION (0.34%) IN Q4.

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The volume of malware threats observed by McAfee Labs averaged 688 threats per minute, an increase of 40 threats per minute (3%) in the first quarter of 2021.

Notable Sector increases and decreases from Q4 2020 to Q1 2021 include:

- Technology 54%
- Education 46%
- Finance/Insurance 41%
- Wholesale & Retail -76%
- Public Administration -39%

PUBLICLY DISCLOSED SECURITY INCIDENTS BY CONTINENT

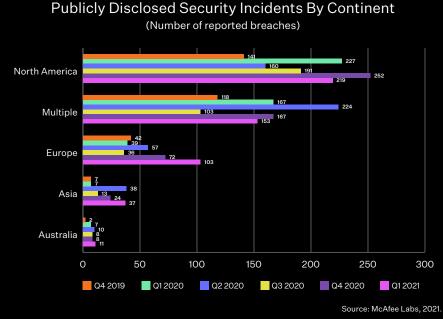


FIGURE 9. PUBLICLY DISCLOSED INCIDENTS SURGED 54% IN ASIA FROM Q4 2020 TO Q1 2021. INCIDENTS INCREASED IN ASIA (54%) AND EUROPE (43%) WHILE DECREASING 13% IN NORTH AMERICA.

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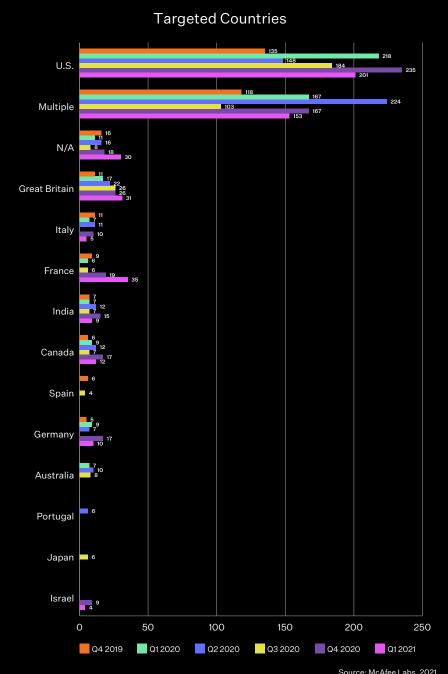
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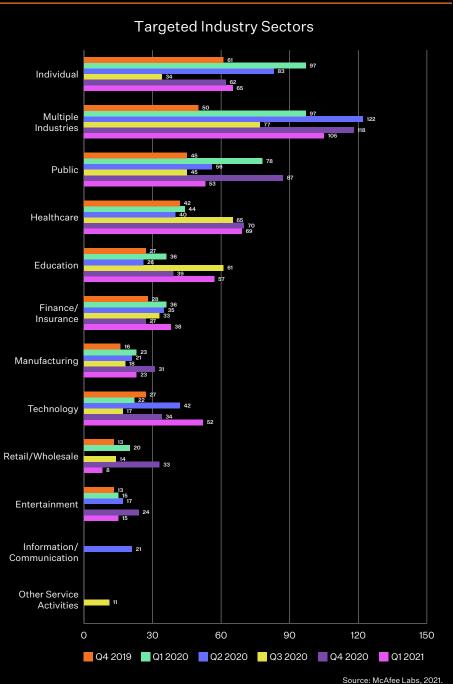
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Source: McAfee Labs, 2021.

FIGURE 10. NOTABLE INCREASES FROM Q4 2020 TO Q1 2021 INCLUDE FRANCE (84%) AND GREAT BRITAIN (19%). INCIDENTS IN THE UNITED STATES DECREASED 14%. INCIDENTS IN THE U.S. COMPRISED 40% OF INCIDENTS OBSERVED IN THE TOP 10 COUNTRIES.



PUBLICLY DISCLOSED SECURITY INCIDENTS BY INDUSTRY

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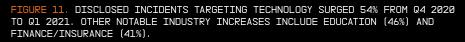
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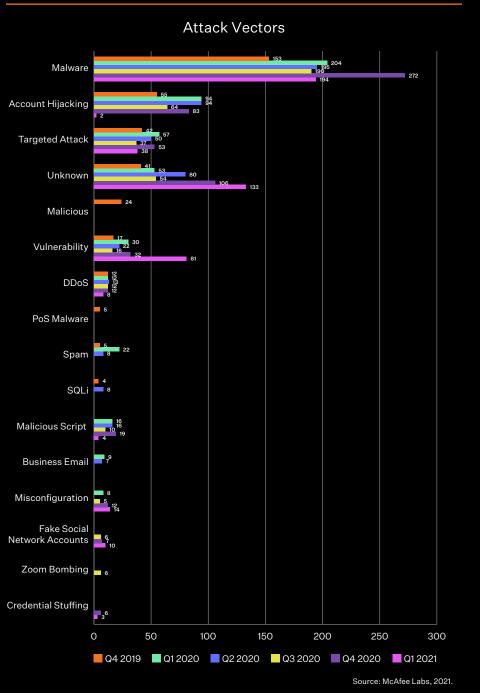
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Source: McAfee Labs, 2021.





PUBLICLY DISCLOSED SECURITY INCIDENTS BY VECTORS

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FIGURE 12. NEW FAKE SOCIAL NETWORK ACCOUNT VECTORS INCREASED 43% FROM Q4 2020 TO Q1 2021. TARGETED ATTACKS ROSE 28%. NOTABLE VECTOR DECREASES INCLUDE VULNERABILITES (-153%), ACCOUNT HIJACKING (-98%), AND MALICIOUS SCRIPT (-79%).

MALWARE THREATS STATISTICS

The first quarter of 2021 saw notable increases in several threat categories:

- Coin Miner malware increased 117% primarily due to growth in 64-bit coin miner applications
- Internet of Things (IoT) surged 55% due to Mirai
- Linux rose 38% along with the increase in Mirai

The first quarter of 2021 also was notable for decreases in several threat categories:

- New PowerShell was down 89% due to the drop in Donoff
- New Office malware decreased 87% also due to the drop in Donoff
- MacOS decreased 70% due to the drop in EvilQuest
- Ransomware fell 50% due to the drop in Cryptodefense

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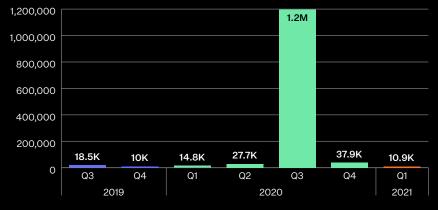
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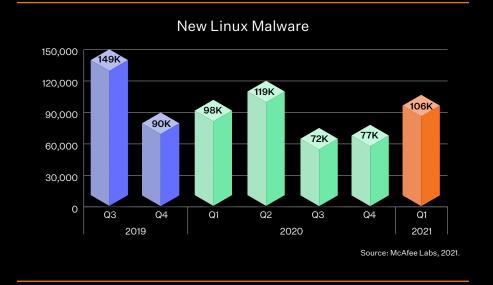


New Mac OS Malware



Source: McAfee Labs, 2021.

New Malicious Signed Binaries



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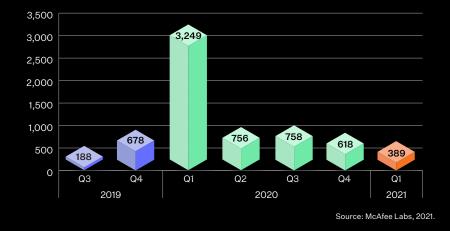
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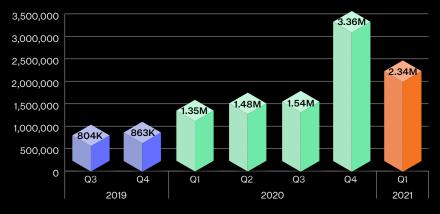
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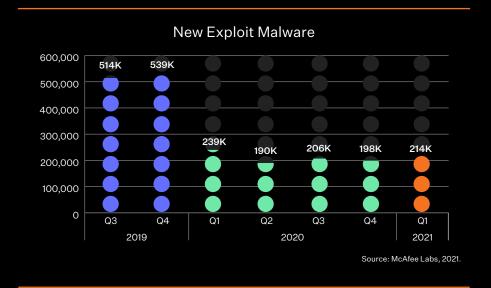


New iOS Malware

New Mobile Malware



Source: McAfee Labs, 2021



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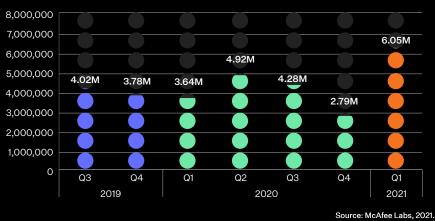
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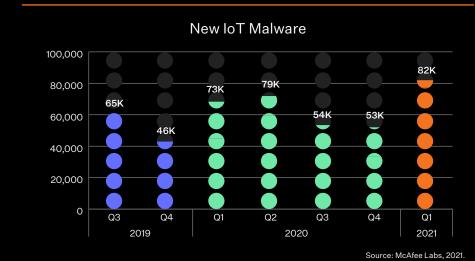
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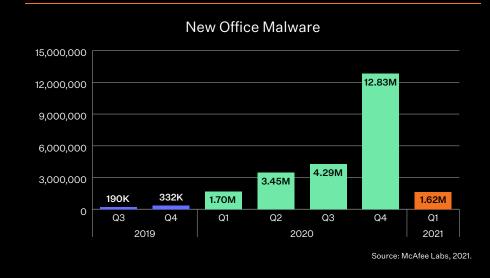
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New Coin Miner Malware



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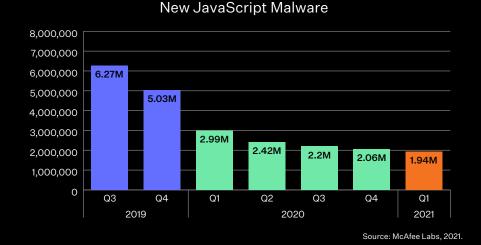
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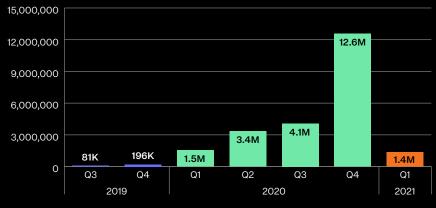
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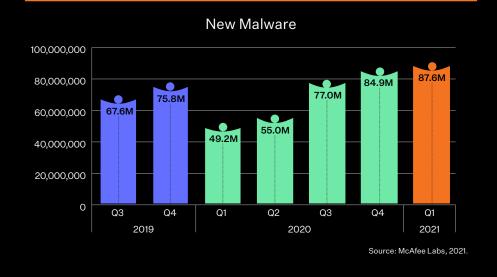
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New PowerShell Malware



Source: McAfee Labs, 2021.



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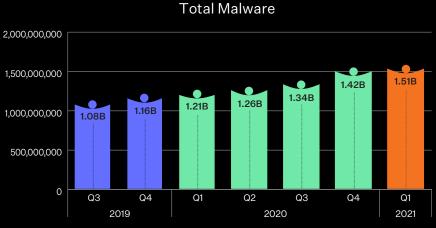
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Source: McAfee Labs, 2021.

TOP MITRE ATT&CK TECHNIQUES APT/CRIME

Testics	Techniques (Ten Ener Testie)	Commente
Tactics Initial Access	(Top 5 per Tactic) Spearphishing Link	Comments Spear Phishing (Link and Attachment) moved back to the top 5 used Techniques closely followed by Exploiting Public facing Application.
		Exploiting Public facing Application. Exploiting Public facing Application reamained in the top 3 Initial Access techniques due to the major Microsoft Exchange Vulnerabilities being released which affected thousands of organizations worldwide.
	Spearphishing Attachment	
	Exploit public facing application	
	Phishing	
Execution	Windows Command Shell	Commandline and scripting interpreter usage, such as Windows Command shell and PowerShell, were the top used techniques by adversaries to execute their payloads. Command line scritps are often incorporated into Pentesting frameworks like Cobalts Strike for additional ease of excecution.
	Malicious File	
	Powershell	
	User execution	An adversary may rely upon specific actions by a user in order to gain execution of a malicious binary. This technique is often linked the the Initial Access technique (Spear) Phishing.
	Visual Basic	
Persistence	Windows Service	
	Registry Run Keys / Startup Folder	
	Scheduled Task	
	Web Shell	
	DLL Side-Loading	
Privilege Escalation	Windows Service	
	Process Injection	Process injection remains to be one of the top Privilege Escalation techniques.
	Registry Run Keys / Startup Folder	
	Scheduled Task	
	Process Hollowing	
Defense Evasion	Deobfuscate/Decode Files or Information	
	Obfuscated Files or information	
	Software Packing	
	Process Injection	
	File Deletion	
	Modify Registry	

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	Techniques	
Tactics	(Top 5 per Tactic)	Comments
Credential Access	Keylogging	
	Credentials from Web Browsers	Common opensource pentest tools like Lazange, Grabff and most RAT tools have an ability to extract credentials from web browsers. The usage of Lazange and Grabff have been obeserved in various Ransomware attacks in Q1 2021.
	Brute Force	
	OS Credential Dumping	
	Credentials from Password Stores	
Discovery	System Information Discovery	
	File and Directory Discovery	
	Process Discovery	
	System Network Configuration Discovery	
	System Owner/User Discovery	
Lateral Movement	Remote File Copy	
	Remote Desktop Protocol	
	SMB/Windows Admin Shares	
	Exploitation of Remote Services	
	SSH	
Collection	Data from Local System	
	Screen Capture	
	Keylogging	
	Archive Collected Data	
	Clipboard data	
Command and Control	Web protocols	
	Ingress Tool transfer	
	Standard Encoding	
	Symmetric Cryptography	
	Application Layer Protocl	

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Exfiltration	Exfiltration Over Command and Control Channel	
	Exfiltration Over Alternative Protocol	
	Automated Exfiltration	
	Exfiltration over unencrypted/obfuscation Non-C2 Protocol	
	Exfiltration to Cloud Storage	Tools like MEGAsync and Rclone are commonly used by adversaries to exfiltrate sensitive data from a victim's network to a cloud storage. Both tools were utilized by multiple ransomware groups like REvil, Conti, DarkSide.
Impact	Data Encrypted for impact	
	Resource Hijacking	
	Service Stop	
	System Shutdown/ Reboot	
	Direct Network Flood	

TABLE 1. NOTES FROM THE TOP MITRE ATT&CK TECHNIQUES APT/CRIME FROM Q1 2021: SPEAR PHISHING MOVED BACK INTO THE TOP 5-USED TECHNIQUES. IT WAS CLOSELY FOLLOWED BY EXPLOITING PUBLIC-FACING APPLICATION, WHICH REMAINED IN THE TOP 3 OF INITIAL ACCESS TECHNIQUES DUE TO THE RELEASE OF MAJOR MICROSOFT EXCHANGE VULNERABILITIES AND THOUSANDS OF AFFECTED ORGANIZATIONS WORLDWIDE. COMMAND LINE AND SCRIPTING INTERPRETER USAGE, SUCH AS WINDOWS COMMAND SHELL AND POWERSHELL, WERE THE MOST FREQUENTLY USED TECHNIQUES BY ADVERSARIES TO EXECUTE THEIR PAYLOADS. COMMAND LINE SCRIPTS ARE OFTEN INCORPORATED INTO PENTESTING FRAMEWORKS SUCH AS COBALTS STRIKE FOR ADDITIONAL EASE OF EXECUTION. AN ADVERSARY MAY RELY UPON SPECIFIC ACTIONS BY A USER TO GAIN EXECUTION OF A MALICIOUS BINARY. THIS TECHNIQUES INJECTION REMAINS ONE OF THE TOP PRIVILEGE ESCALATION TECHNIQUES. COMMON OPEN SOURCE PENTEST TOOLS SUCH AS LAZANGE, GRABFF AND MOST RAT TOOLS HAVE AN ABILITY TO EXTRACT CREDENTIALS FROM WEB BROWSERS. THE USAGE OF LAZANGE AND GRABF HAVE BEEN OBSERVED IN VARIOUS RANSOMWARE ATTACKS IN Q1 2021. TOOLS SUCH AS MEGASYNC AND RCLONE ARE COMMONLY USED BY ADVERSARIES TO EXFLITRATE SENSITIVE DATA FROM A VICTIM'S NETWORK TO A CLOUD STORAGE. BOTH TOOLS WERE UTILIZED BY MULTIPLE RANSOMWARE GROUPS LIKE REVIL, CONTI AND DARKSIDE. DATA ENCRYPTED FOR IMPACT TECHNIQUE CAN ALMOST SOLELY BE ATTRIBUTED TO RANSOMWARE, ONE OF THE TOP CYBER THEATS OF Q1 2021. LETTER FROM OUR CHIEF SCIENTIST

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To keep track of the latest threats and research, see these McAfee resources:

<u>McAfee COVID-19 Dashboard</u>—Updated COVID-19 related malicious file detections including countries, verticals, and threat types.

<u>MVISION Insights Preview Dashboard</u>—Explore a preview of the only proactive solution to stay ahead of emerging threats.

<u>McAfee Threat Center</u>—Today's most impactful threats have been identified by our threat research team.

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