

M-TRENDS 2022

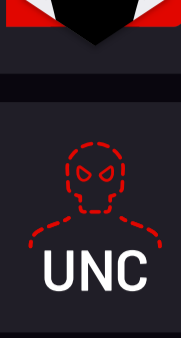
INFOGRAPHIC

Today's cyber security trends revealed through Mandiant incident response investigations and threat intelligence findings from October 1, 2020 to December 31, 2021.

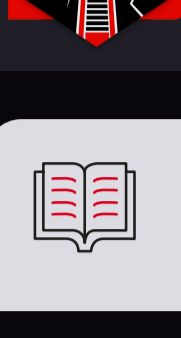
WHO ATTACKERS ARE

Mandiant experts currently track 2,800+ threat groups, which include 1,141 UNC groups, 13 FIN groups and 40 APT groups from this reporting period.

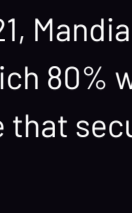
> Threat Group Spotlights



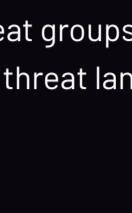
FIN12 is a financially motivated group behind prolific RYUK ransomware attacks. Relies heavily on partners to obtain initial access into victim environments. Graduated from UNC1878.



FIN13 is a financially motivated group that conducts fraudulent transfers from POS systems and ATMs—currently targeting Mexico. Graduated from UNC886.

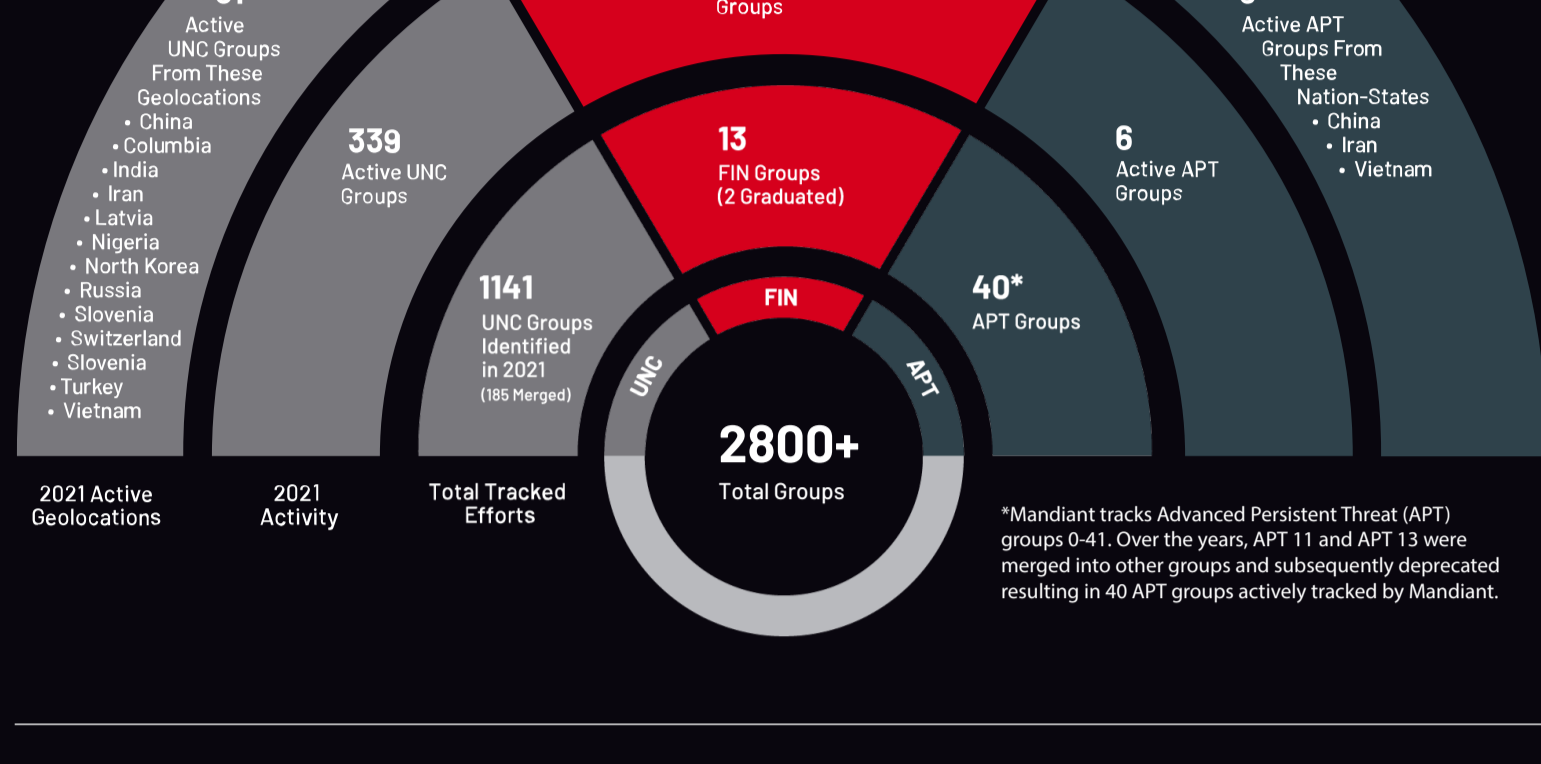


UNC2891 targets Linux and Unix environments, with a strong focus on Oracle Solaris-based systems.



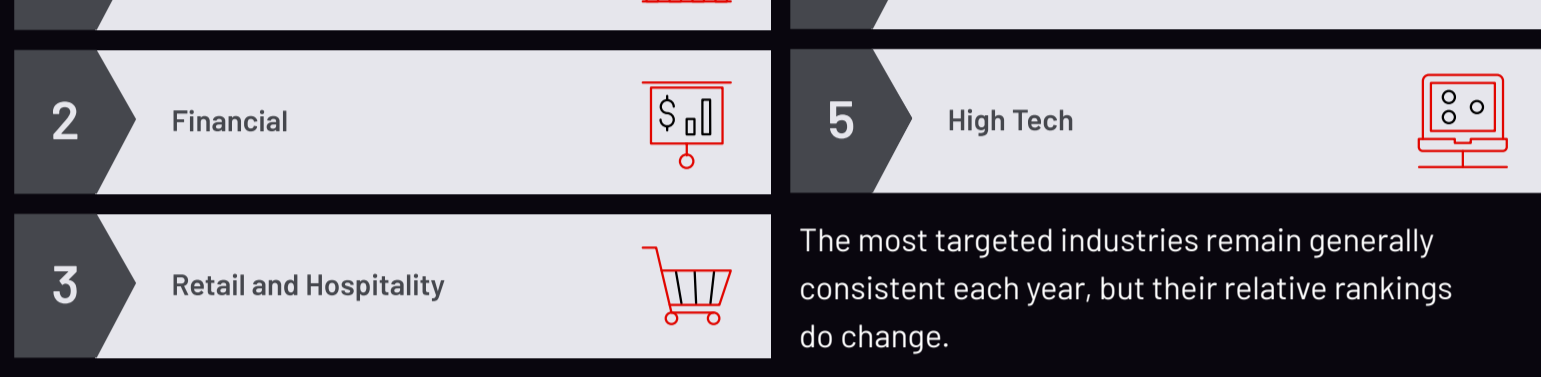
UNC: uncategorized threat actor
FIN: financially motivated threat actor
APT: advanced persistent threat group

In 2021, Mandiant saw intrusions that involved 351 distinct threat groups, of which 80% were newly tracked. This speaks to the evolving threat landscape that security teams are up against.



WHAT DO THEY TARGET

> Top Industries Under Attack



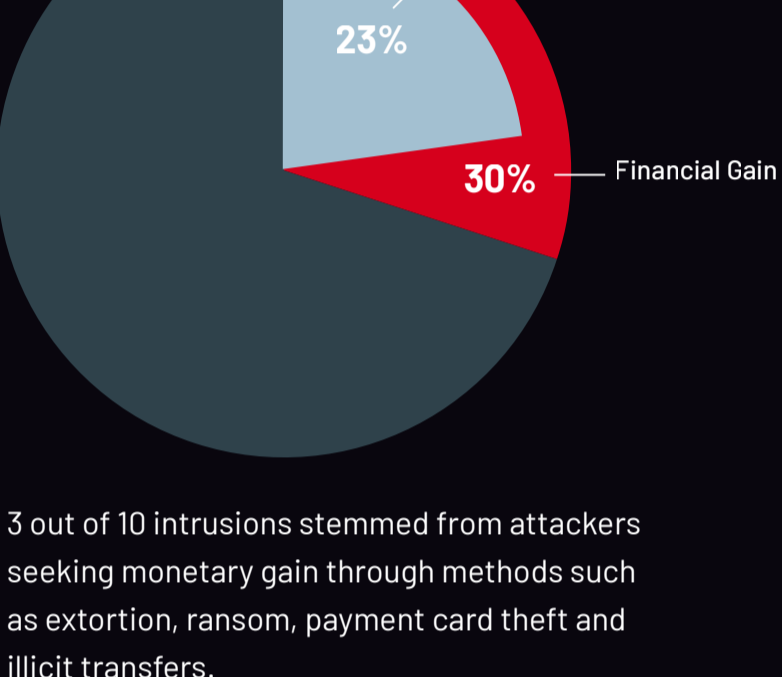
The most targeted industries remain generally consistent each year, but their relative rankings do change.



In this reporting period, Mandiant observed a high volume of compromises attributed to vulnerabilities and misconfigurations in on-premises Active Directory and cloud-based infrastructures.

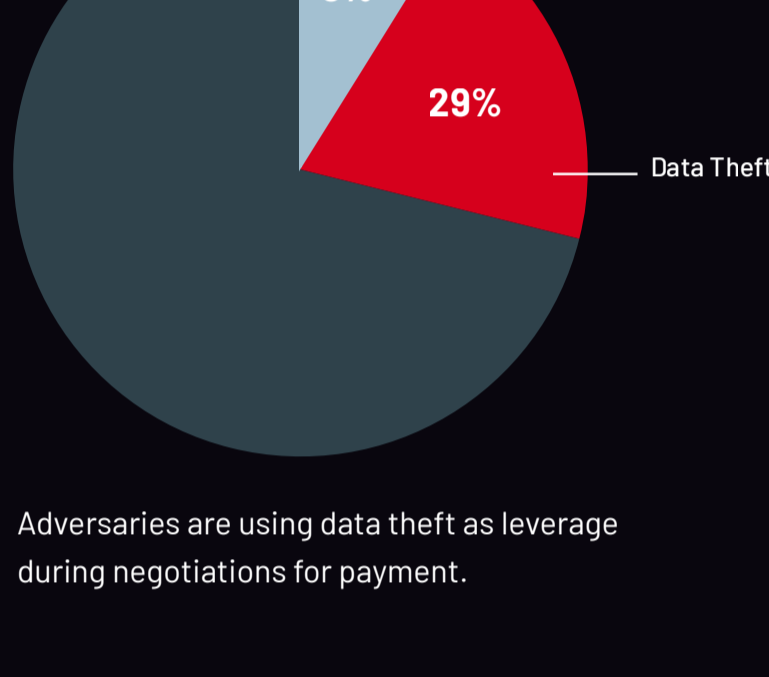
> What Do They Want

Objective: Financial Gain



3 out of 10 intrusions stemmed from attackers seeking monetary gain through methods such as extortion, ransom, payment card theft and illicit transfers.

Objective: Data Theft

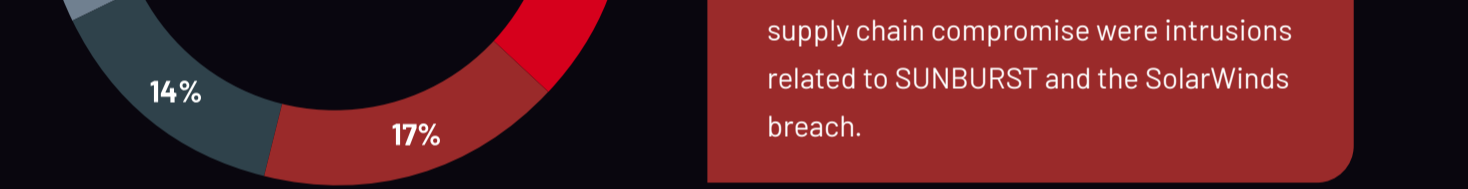


Adversaries are using data theft as leverage during negotiations for payment.

WHERE DO THEY ATTACK

> Targeted Attacks

Initial Infection Vector, 2021 (When Identified)

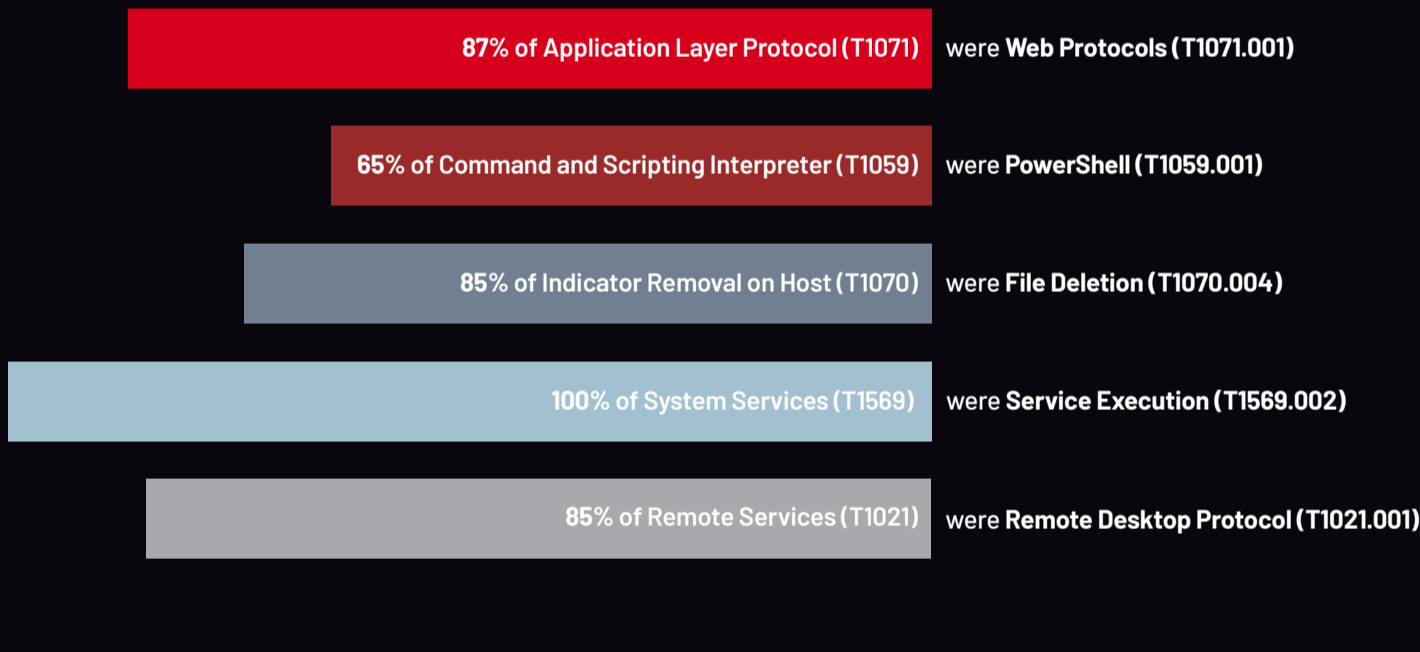


Supply Chain Compromise

Most of the incidents categorized under supply chain compromise were intrusions related to SUNBURST and the SolarWinds breach.

51% of intrusions saw adversaries use obfuscation (encryption or encoding) to make detection and subsequent analysis more difficult for security teams.

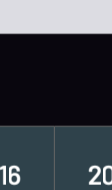
> Frequently Targeted Technologies



WHEN ARE ATTACKERS FOUND

> Global Median Dwell Time

24 → **21**
 DAYS IN 2020 → DAYS IN 2021



Dwell time is calculated as the number of days an attacker is present in a victim environment before they are detected. The median represents a value at the midpoint of a data set sorted by magnitude.

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Days	416	243	229	205	146	99	101	78	56	24	21

> Global Ransomware Median Dwell Time

Change in Investigations Involving Ransomware

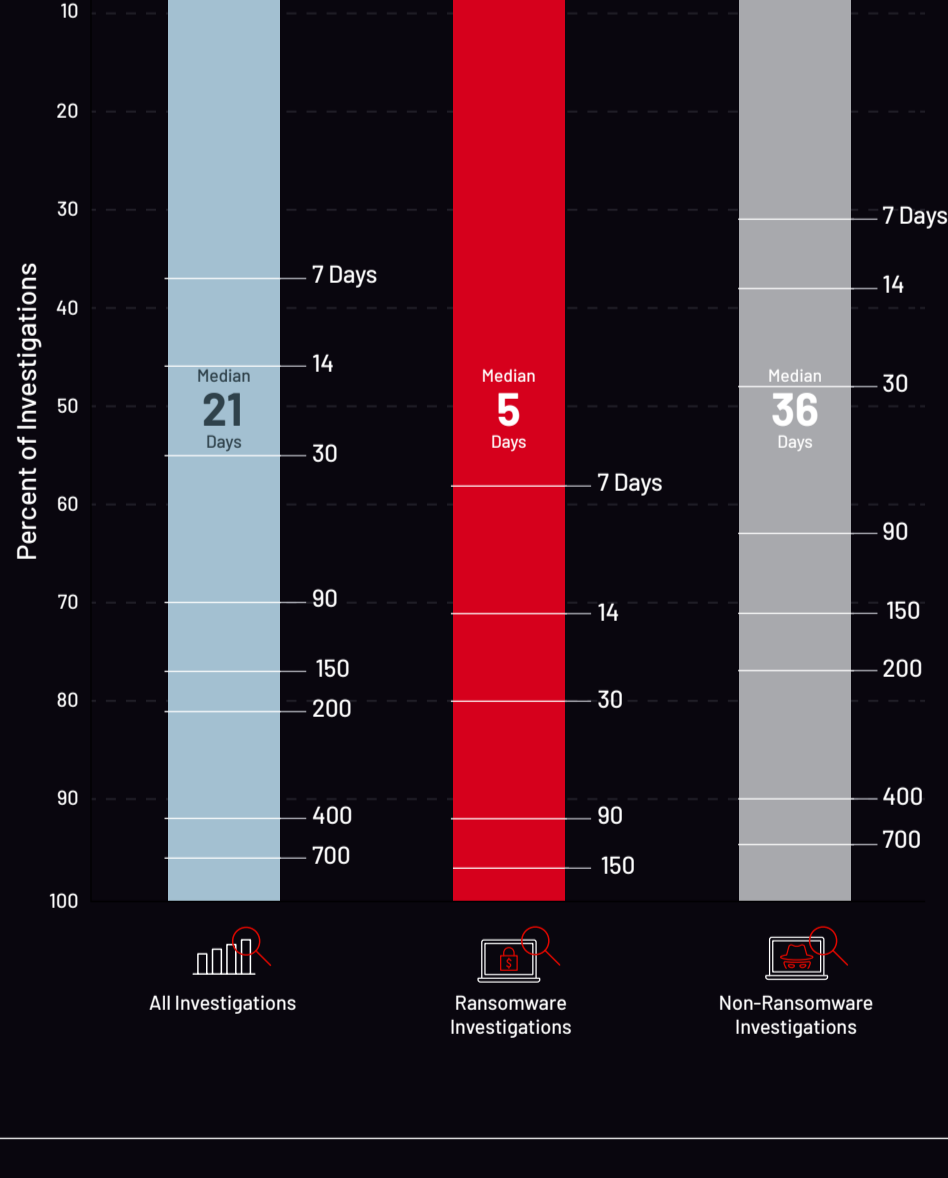
25% → **23%**
 IN 2020 → IN 2021

No Change in Global Median Dwell Time: Ransomware

5 DAYS → **5 DAYS**
 IN 2020 → IN 2021

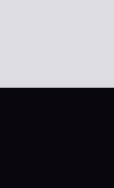
Change in Global Median Dwell Time: Non-ransomware

45 → **36**
 DAYS IN 2020 → DAYS IN 2021



HOW ARE ATTACKERS FOUND

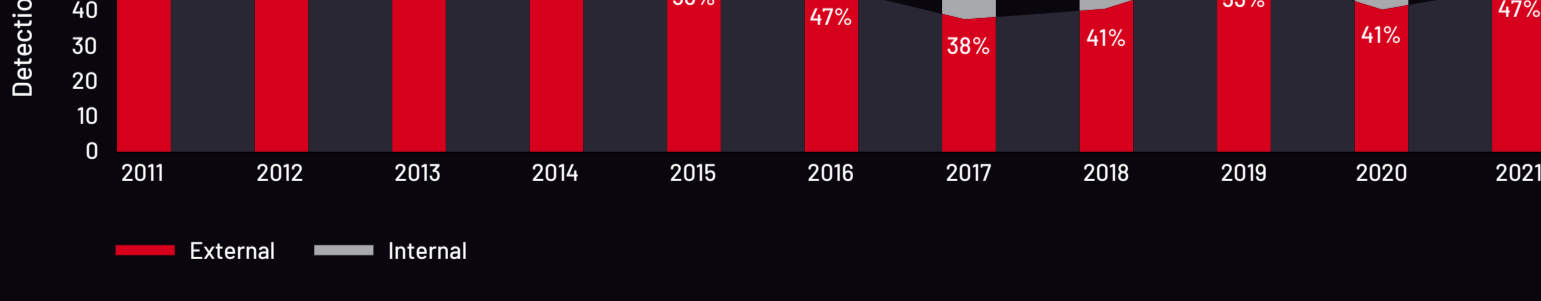
> Detection by Source



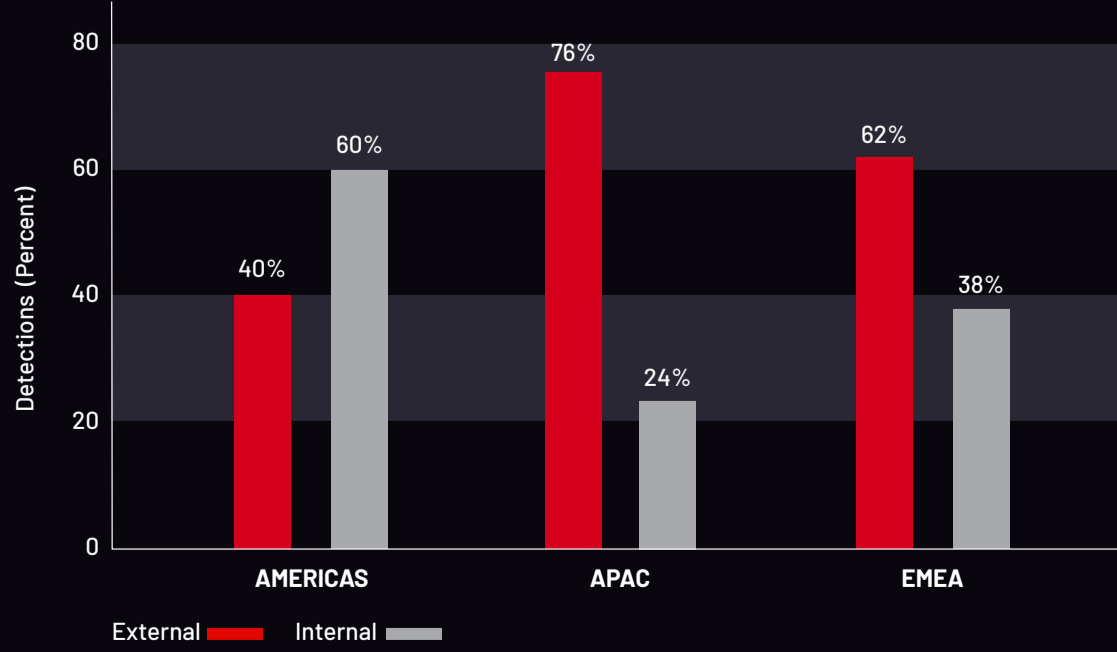
Internal detection is when an organization independently discovers it has been compromised.

External notification is when an outside entity informs an organization it has been compromised.

Global Detection by Source, 2011-2021



Regional Detection by Source, 2021



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