



# KPMG Cyber Threat Intelligence Platform

Cyber Threat Notification | Mustang Panda Victimized Businesses in Asia, Africa, Europe and Middle East



**Tracker ID:** TN2355 **Date:** April 10, 2023

**Category:** Campaign

**Industry:** All

**Region:** Asia, Africa, Europe, Middle East

## Background

Since 2022, more than 200 victims have been the focus of cyberespionage operations by 'Mustang Panda' also known as Earth Preta. Several Mustang Panda subgroups used various TTPs to carry out multiple strikes in Asia (51%), Africa (16.8%), Europe (13.3%), and the Middle East (5.6%) regions. Academic institutions, financial services, mining and material refineries, specialist fabrication companies, and energy production and distribution were the main targets of these attacks. By the end of 2022, it moved its focus toward organizations involved in immigration, border security, and the maritime sector.

Mustang Panda is a centralized development unit for the China-based threat group that distributes malware implants and tools to other operating groups. These operational organizations control their own initial access and privilege escalation, exhibiting a high degree of specialization in their assault methodologies. Some operating units focused on government and diplomatic organizations, while some stole intellectual property and confidential corporate information. Several occasions exist where victims were compromised by two groups, suggesting a potential overlap in goals, toolkits, and materials amassed by both groups.

Mustang Panda (also known as Bronze President, HoneyMyte, RedDelta, Red Lich, Earth Preta, PKPLUG, and TA416) is a threat actor based in China. The cyber-attacks have targeted foreign governments, non-governmental organizations, and other organizations deemed opponents of the Chinese communist regime. Previously, attacks have targeted Taiwan, Hong Kong, Myanmar, Mongolia, Vietnam, the Catholic Vatican, and religious minority groups in China. Mustang Panda was discovered in 2017 by threat researchers, however, it has been active since 2012. Mustang Panda coerces engagements through well-crafted spear phishing attacks that imitate government services organizations in the targets' home languages and leverage current international issues such as COVID-19 and the Russian-Ukraine war.

The targeted overlaps have mostly been found between groups 724, 1358, and 5171. Group 724's attack strategy makes use of physical entry points into a target's system, like a USB drive. It then utilizes Adobe CEF Helper and DLL sideloading to get a persistent foothold in the user's home directory. The WSC DLL from Avast is abused by Group 1358's attack strategy to sideload and run malicious malware. The group continues to use PlugX as their malware of choice and employs USB sticks for data exfiltration. Group 5171's attack strategy distinguishes itself by utilizing the moving laptop attack (a laptop with malicious code in transit). It focuses on certain industries and adopts a more opportunistic strategy.

The effects of Earth Preta's cyberespionage operations on global security and intellectual property are influential. There is significant evidence of traditional intelligence gathering techniques and cyber operations operating together points to a well-planned and sophisticated cyberespionage operation. A highly specialized and well-organized cyberespionage operation can be noted by the fact that the researchers were able to identify several distinct operational groups, each with its own TTPs and goals.

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KPMG Assurance and Consulting Services LLP, Lodha Excelus, Apollo Mills Compound, NM Joshi Marg, Mahalaxmi, Mumbai - 400 011 Phone: +91 22 3989 6000, Fax: +91 22 3983 6000.

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## MITRE ATT&CK Tactics

Initial Access, Execution, Persistence and Exfiltration.

## Indicators of Compromise \*

Please refer to the attached sheet for IOCs.

## Recommendations

- Check with your existing AV/EDR vendor to validate the detection scope of identified samples.
- Administrators and organizations are encouraged to keep the systems and devices up-to-date and patched against the identified vulnerabilities and exploits as soon as possible.
- Establish a data recovery strategy and routinely backup your files to a secure offsite place. The ability to rescue your data after a ransomware assault is guaranteed by routine data backups.
- Follow a prioritized patching regime and implement multi-factor authentication on critical systems and accounts.
- Continuously monitor for suspicious or anomalous activities. Collect and review relevant logs, data, and artifacts to identify any threat in the network.
- Ensure endpoints have modern next-gen protection capabilities to guard against downloading malicious files from untrusted sources.
- Follow multilayered defense solutions and active monitoring to detect threats before operators can launch their attacks.

## References

- Trend Micro, Earth Preta's Cyberespionage Campaign Hits Over 200, March 27, 2023, External Link ([www.trendmicro.com](http://www.trendmicro.com)).
- Cyware Alerts - Hacker News, Mustang Panda Cyberespionage Strikes Over 200 Targets, April 03, 2023, External Link ([cyware.com](http://cyware.com)).

In case of a Security Incident, please report to IN-FM KPMG SOC.

For any query or feedback, feel free to reach us at IN-FM KPMG CTI.

KPMG in India Cyber Response Hotline : +91 9176471471

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