



KPMG Cyber Threat Intelligence Platform

Cyber Threat Notification | Researchers Disclosed
Chinese APT Earth Preta's Stealthy Strategies



Tracker ID: TN2352 **Date:** March 29, 2023 **Category:** Campaign **Industry:** All **Region:** All

Background

A recent campaign launched by “Earth Preta” suggests the involvement of a nation-state threat group linked with China that has grown adept and skilled at evading security systems. The threat actor is active since 2012 and is tracked by the cybersecurity community under the moniker Bronze President, HoneyMyte, Mustang Panda, RedDelta, and Red Lich. Attack chains mounted by the group commence with a spear-phishing email to deploy a wide range of tools for backdoor access, command-and-control (C2), and data exfiltration. Similar infection network groups that distribute Cobalt Strike have previously been seen operating with Google Drive links.

Earth Preta conceals malicious payloads in fake files that are disseminated as legitimate ones to avoid investigation. This entry point method, which was first identified towards the end of last year, has since undergone a minor modification in which the download link for the archive is embedded within a separate bogus document and the file is password-protected to circumvent email gateway defenses. The document's password can then be used to retrieve the data from the inside.

The email messages usually contain malicious lures for archive files that are distributed through Dropbox or Google Drive links containing LNK shortcut files, fake file extensions, and DLL side-loading as initial vectors to gain a foothold and drop backdoors like TONEINS, TONESHELL, PUBLOAD, and MQsTTang. Additionally, the threat actor has also been seen using malware like "USB Driver.exe" (HIUPAN or MISTCLOAK) and "rzlog4cpp.dll" (ACNSHELL or BLUEHAZE) to set up shop on portable devices and building a reverse shell to move laterally across the network. A backdoor called "CLEXEC" can execute instructions and delete event records, whereas implants called "COOLCLIENT" and "TROCLIENT" can access and write files as well as monitor keystrokes.

Threat actor also developed highly customized tools used for exfiltration, such as NUPAKAGE and ZPAKAGE, which collect sensitive Microsoft Office files. Chinese cyber espionage actors are diversifying their technological arsenal and accelerating their operations to avoid detection. Earth Preta is competent, continually enhancing its TTPs, development abilities and compiling a variety of tools and malwares to infiltrate networks. We advise businesses to organize phishing awareness training for their partners and employees to emphasize the value of employing care when reading emails, particularly those coming from unknown senders or with obscure topics.

MITRE ATT&CK Tactics

Resource Development, Initial Access, Execution, Persistence, Privilege Escalation, Defense Evasion, Lateral Movement, Command and Control and Exfiltration.

The information contained herein is of a general nature and is not intended to address the circumstances of any particular individual or entity. Although we endeavour to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

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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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.
- Implement email restrictions on downloading Google or Dropbox files, files with fake file extensions, LNK files, shortcut files, or other similar/suspicious files from unknown sources.
- We advise businesses to organize phishing awareness training for their partners and employees to emphasize the value of employing care when reading emails, particularly those coming from unknown senders or with obscure topics.
- Check the URL the one is visiting to ensure the site is legitimate before clicking on it or downloading software. The intended URL may be like a legitimate domain name, but it may have errors like a misplaced letter.
- Verify the sender's email and content before downloading attachments or selecting embedded links from emails. Hover the pointer above embedded links to show the link's target.
- Check the sender's identity. Unfamiliar email addresses, mismatched email and sender names, and spoofed company emails are some of the signs that the sender has malicious intent.
- Block users from connecting to dangerous domains, IP addresses, and URLs, regardless of whether they are on or off the business network.
- In order to prevent malware or TAs from stealing data, keep an eye on the beacon at the network level.
- Follow multilayered defense solutions and active monitoring to detect threats before operators can launch their attacks.

References

- Vickie Su, Nick Dai, Sunny Lu, Pack it Secretly: Earth Preta's Updated Stealthy Strategies, Trend Micro, March 23, 2023, External Link ([trendmicro.com](https://www.trendmicro.com)).
- Ravie Lakshmanan, Researchers Uncover Chinese Nation State Hackers' Deceptive Attack Strategies, Hackers News, March 24, 2023, External Link ([thehackernews.com](https://www.thehackernews.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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	SHA256 Hash	IP	Domain
*	3fd8cd848e89e792d3915bfc0b485de80d7615a1422047c589ac0b34f4c9e7b0	23.106.122.81	closed.theworkpc.com
	10d37878e595e76513156a538c34d23b1533b84f984609b405b84e74a26a7381	38.54.33.228	applcloud.appmdb.com
	0a43705f5c10aad9317c49c81d9f12db4aee5e2557a39020973d25019955d345	212.114.52.210	
	7cc2a21bcb3d58c2c82cee3e6b97c34aff1892d52658ecb5d10659c266c53b16	158.255.2.63	
	8b98e8669d1ba49b66c07199638ae6012adf7d5d93c1ca3bf31d6329506da58a	188.127.237.27	
	87f6adcd16f8a65096f4c192d52107fff98f411b1e166ded69cf3800d8a2933d		
	a8b31d491f4e7f41e7a7c3aeb35030ba3363dfb34ae74c84b02c25df125db23d		
	1f7d961d9c15aa8f4b9b5a2e17de277aaded55f11aefed34b3ebd0af545f5448		
	e4189bd43996250dfb525f64844525343a80bf9dc2039d46cb8ccc430a24a0ce		
	2a61fc95c432328d2600615a5bbbe8f0ee75fad2035417879a742cc58306e071		
	e79aef1efd60d55274d42d2da0a8158f131dcd56234cfc1b77d1600ceed7977e		
	3d18ef92a3d5f97d9be130fd9da90d49dbcd661f3d2b992c3c539789df5ff379c		
	7e2e4943099652a5367ff2c3ee7fc664791cf17a405505514f3660c8dedd6fb0		
	946b09e543ea9f1fe37d9958a03ee061f00d711a04b5810e31e8bf9849e7f90		
	ef6a278bb6e09a67622de7b1c3403c4a5cb80ab2c0038654431b84feadb8fd79		
	5d5d5dbd752da8a96414d067b352501a67067abbb6b18b623c5a3ae68f969a6		
	ae9824355384c7ea34035ebc7e8832b6fb17e227a79efa72e4501cb9ddd2dd0a		
	e8357cacdcdb4670f6ae427a781f36a9c4b268907f83c1ce3502a0fd9ce2606		
	cfe1447e7515ad831fcfedb9a5c1a721885b0542b775e4028a277a27e724ec73		
	4bdc913cef96b0abd0c1a8231a7961ac901fc9c28f87bba3b8c59e6928c0cda4		
	12216b083ce2461c338bf571411ab53cd28fc0e3361add69a0b1c6d22b57e9c1		
	28a992ea7b9df22a7b7bcc04ecb3f3b89e5ea022f03b765bf1f12edd61df779f		
	634977a24e8fb2e3e82a0cddfe8d007375d387415eb131c74ca03e0e93565f		
	c8355771ddf66a957dd0f92599f45cb67e7f3ea4e073a98df962fc3d9a3fbe0		
	2937580b16e70f82e27fbc3524c2661340b8814794cc15cb0d534f5312db0e0		
	c2f5a12ebaeb39d4861e4c3b35253e68e6d5dc78f8598d74bc85db21aeb504e8		
	711c0e83f4e626a7b54e3948b281a71915a056c5341c8f509ecba535bc199bee		
	869e2a35107f7469cc0a8eef44d2eaf311ce8c6fff7acd3e429b11167c6bcd57		
	9635bc2009415b05c3fb3fa1c5f40042916891d7e289502572f5d20043dc0e2a8		
	12a04989fdbcf7fa2f70a708521968e609b0d247acf842fe8c0e5f5bac3a09db		
	6f924de3f160984740fbac66cf9546125330fc00f4f5d2dbf05601d9d930b7d9		
	6b703611c93f20513fee6080ff9fdd23f3c73db5b21a63324ef9e36e4d728b22		
	055fa35e8153242417d39c75e10e0de0758c05a9f31409926744c3f5ceeab4100		
	c07bc0b020f1250c69ee6ab804dd08095d42fe1fb80f591d2bb198a4409f2300		
	a61ed84f72ac995156a1845086444edc20ae7859fb4fa667b14a61416841659		
	c3bbf0600f3833f3eaddb2e8c65d68e2a858644cf22b67851fff3e379cfbf08c		
	fb5edfcb99e2df2b7f6f40e8615f5cb247803180464e584161c7c91405aae4a		
	c47590218e7a933350e09d3fe7e01cdf5e3cfff1130557380ad96c2106ac15ab1		
	9182bb02d99a62357918ad459ccdbb8edb21d1e61a225d350db94e22525f273f		
	4c79bb9fbac4b189898095f81d4ee1ba7877cfbd16c6a10f933ca564ced737d2		
	950bcbf83029f47e85f615494b4922cd0cdc04ca2c3d9699a0fb5d1fd2076dc5		
	26f7ed0b66fd464caab9d648127ad17e8cd46d50fee94704627308a377dd821b		
	19001883ecd29ae6c8e54d4219631d1b0098e1fd246234a171a67509e87b621		
	2139e3df912887b34b4d59fca098a8d511ea10530d7168b280acca844513ffd		
	77e9dd17c26f4755bf0844991ea92363a9031fbf094f904c2c3953e97575fe99		
	4936b873cfe066ec5efce01ef8fb1605f8bc29a98408a13bc8fe4462b2f09c5a		
	5231a0e725a70ee9b56cb461a3884755f2dbde58264040151b5224c2795f85f7		
	1f9c3a12631b13f4fd128f93a8d14e63fb8e9e8529e55da1bfc0f2274b819671		

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