## 

### **OSINT Investigation**

Investigation of IOCs from an Open Source Intelligence publication Scenario:

Your CEO has forwarded you an article from Kaspersky. https://securelist.com/apt-phantomlance/96772/#infrastructure.

The CEO wanted you to review the publication and see if your organization has anything to worry about, and if your organization has been affected by this attack.

Goal: Read the article and then investigate the Command and Control domains and IP address and see what you can find out.

Important Note: During your investigation you have informed your team not to directly visit the website in order to prevent any potential malware from entering the organization.

Objective 1: What are the aspects of the attacks? Objective 2: Is it still active? Objective 3: Does your organization need to worry about this attack? Objective 4: Have you seen any traffic to the IOCs? In this exercise I will highlight the differences in RiskIQ PassiveTotal account types and integrations.

Free Community Account PassiveTotal Enterprise with the CrowdStrike integration enabled. **Initial Searches** 

From the article you have decided to review one IP and the OceanLotus Windows backdoor domains

Article: <a href="https://securelist.com/apt-phantomlance/96772/-infrastructure">https://securelist.com/apt-phantomlance/96772/-infrastructure</a>

88[.]150[.]138.77 https://community.riskiq.com/search/88.150.138.77/resolutions

ps[.]andreagahuvrauvin[.]com https://community.riskiq.com/search/ps.andreagahuvrauvin.com

paste[.]christienollmache[.]xyz https://community.riskiq.com/search/paste.christienollmache.xyz/resolutions

att[.]illagedrivestralia[.]xyz https://community.riskiq.com/search/att.illagedrivestralia.xyz

#### Step 1: OSINT Publication Review

https://securelist.com/apt-phantomlance/96772/ - infrastructure kaspersky



# Hiding in plain sight: PhantomLance walks into a market

By Alexey Firsh, Lev Pikman on April 28, 2020. 3:00 pm

In July 2019, Dr. Web reported about a backdoor trojan in Google Play, which appeared to be sophisticated and unlike common malware often uploaded for stealing victims' money or displaying ads. So, we conducted an inquiry of our own, discovering a long-term campaign, which we dubbed "PhantomLance", its earliest registered domain dating back to December 2015. We found dozens of related samples that had been appearing in the wild since 2016 and had been deployed in various application marketplaces including Google Play. One of the latest samples was published on the official Android market on November 6, 2019. We informed Google of the malware, and it was removed from the market shortly after.







#### Summary of overlaps

Another notable attribution token that applies to most of OceanLotus malware across platforms is usage of three redundant, different C2 servers by each sample, mostly subdomains. Below is an example of this from the samples examined above and OceanLotus Windows malware described in our private report.

MD5	C2 servers	Description
0d5c03da348dce513bf575545493f3e3	mine.remaariegarcia[.]com egg.stralisemariegar[.]com api.anaehler[.]com	PhantomLance Android
	sadma.knrowz[.]com	
d1eb52ef6c2445c848157beaba54044f	ckoen.dmkatti[.]com	OceanLotus Android campaign 2014-2017
	itpk.mostmkru[.]com	
	ssl.arkouthrie[.]com	
306d3ed0a7c899b5ef9d0e3c91f05193	s3.hiahornber[.]com	OceanLotus MacOS backdoor
	widget.shoreoa[.]com	
	ps.andreagahuvrauvin[.]com	
51f9a7d4263b3a565dec7083ca00340f	paste.christienollmache[.]xyz	OceanLotus Windows backdoor
	att.illagedrivestralia[.]xyz	

From the article you have decided to review one of the IP address and the OceanLotus Windows backdoor domains.



Step 2: Using Free Community Account

Open your browser and go to <u>https://community.riskiq.com/home</u>. Search for the IP address 88[.]150[.]138[.]77.

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https://community.riskiq.com/search/88.150.138.77/resolutions

This IP address has 10 active domains associated with IP address. Some of the domains have been around since 2017. The numbers in the heatmap show that there have been between 10 and 9 domains active each day.



#### Step 3: Click on the Whois tab

https://community.riskiq.com/search/88.150.138.77/whois

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WHOIS RECORDS				
CHANGE HISTORY	RECORD UPDATED 2003			
Date Changes	Checked by RiskIQ   Expirat	ion N/A   Created 3 years ago   Hide Diff   Hide Raw Record		
2003-12-04 🖂 🗒	Attribute	Value % IANA WHOIS server		
	WHOIS Server	whois.ripe.net % for more information on IANA, visit http://www.iana.org		
	Registrar	RIPE NCC refer: whois ripe.net		
	Email	abuse@redstation.com (admin, tech) inetnum: 88.0.0.0 - 88.255.255		
	Name	Dedicated Server Hosting (registrant) status: ALLOCATED		
	Organization	RSDEDI-PANNPJFE (registrant) whois: whois:rips.net Redstation Admin Role (admin, tech) chanced: 2004.04		
	Street	Redstation Limited (admin, tech)		
	City	2 Frater Gate Business Park (admin, tech) % This is the RIPE Database query service. % The objects are in RPSL format.		
	State	% • % The RIPE Database is subject to Terms and Conditions.		
	Postal Code	Aerodrome Road (admin, tech) % See http://www.ripe.net/db/support/db-terms-conditions.pdf		
	Country	Gosport (admin, tech)         % Information related to \$8.150,138,64 - 88.150,138,127           GB (registrant)         % Abuse contact for \$8.150,138,64 - 88.150,138,127 is 'abuse@redstation.cc	om'	0
	Phone	. inetrum: 88.150.138.64 - 88.150.138.127 netrame: RSDEDI-PANNPJFE		V

The IP address is located in Great Britian. There is not Whois history available in the free community version of PassiveTotal.







The IP address 172[.]93[.]188[.]145 has been active since November 2019 and is based out of Hong Kong. You can see this next to the listed IP address, first, last, and location country.



Step 5: Pivot search on the IP address 172[.]93[.]188[.]145.

Right click on the IP address and open it in a new tab

•	<ul> <li>1 - 4 of -</li> </ul>	4 🔹 🕞 Sort : Last Seen Descendir
	Resolve	Location Network
	172.93.188.1	Open Link in New Tab
	54.72.130.67	Download Linked File
	151.80.74.17	Download Linked File As Add Link to Bookmarks
	185.158.113.	Add Link to Reading List
4	1 - 4 of 4 🔻	Share



https://community.riskiq.com/search/172.93.188.145

We can see 217 IP addresses most have recent activity on the domains going back to a few months ago.



Go back to the domain ps.andreagahuvrauvin.com

https://community.riskiq.com/search/ps.andreagahuvrauvin.com/resolutions

#### Step 6: Click on the Subdomains tab.

https://community.riskiq.com/search/ps.andreagahuvrauvin.com/subdomains

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First Seen 2019-02-05 Registra Last Seen 2020-05-05 Registra	ar Internet ant Whois P	t Domain Ser rivacy Corp. Categorize		
DATA		4 8 0 25 0 1 0 10 4 0 0		
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▼ HOSTNAME (25 / 25)	•	<ul> <li>1 - 25 of 25 • &gt; Sort: Hostname Ascending • 25 / Page •</li> </ul>		Download Copy
✓ ※ Ops.andreagah 1		Hostname		Tags
✓ 🗶 151.80.74.171\0 1		0ps.andreagahuvrauvin.com		
✓ X andreagahuvra 1		151.80.74.171\032ps.andreagahuvrauvin.com		
<ul> <li>✓ × ijmlajio.andrea 1</li> </ul>		andreagahuvrauvin.com		
Show More		hostmaster.andreagahuvrauvin.com		
▶ TAG		ijmlajio.andreagahuvrauvin.com		
SYSTEM TAG		miggmiggnhggigggniggjpggigggidggngggmigg ijmlajil.andreagahuvrauvin.com		
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		ns1.ns2.andreagahuvrauvin.com		
		ns1.ps.andreagahuvrauvin.com		
		ns2.andreagahuvrauvin.com		
		ns2.moggmhggngggnlggmiggnnggnjggidggngggmjgg.ijmlajoo.andreagahuvrauvin.com		
		ns2.niggniggniggniggidggngggmjgg.ijmiajoo.andreagahuvrauvin.com		
		ns2.ns2.andreagahuvrauvin.com		

We can see 25 subdomains associated with this domain. All of the subdomains can be associated with completely different infrastructure and should be investigate individually to fully understand the for extent of this attack. But, for this exercise we will just focus on the Windows backdoor domains.



### **Step 7:** Search on the next domain from the article paste[.]christienollmache[.]xyz



#### https://community.riskiq.com/search/paste.christienollmache.xyz/resolutions

Here we see 3 fairly recent IP addresses and the latest one is hosted in Hong Kong. Previous ones were hosted in Italy and Russia.



#### Step 8: Click on Components

#### https://community.riskiq.com/search/paste.christienollmache.xyz/components



We can see that this domain is running Apache v2.4.9 and PHP.





**Step 9:** Search the last domain att[.]illagedrivestralia[.]xyz https://community.riskiq.com/search/att.illagedrivestralia.xyz

We see the same hosting locations HK, IT, RU. The IP addresses are actually the same as the previous domains.



#### Step 10: Click on the OSINT Tab

https://community.riskiq.com/search/att.illagedrivestralia.xyz/osint



The OSINT tab list a special google search for matches on searched IOC related to security blogs and organizations. Listed here are seven different links with information related to att[.]illagedrivestralia[.]xyz.

#### **Community User Conclusion:**

At this point we can conclude that the hosting was in Great Britain, Hong Kong, Italy, and Russia. We do not have information about the threat actor or whether it is related to known bad infrastructure or bad domains.

Objective 1: What are the aspects of the attacks? Android, MacOS, Windows attack vectors according to the publication.

Objective 2: Is it still active? Inconclusive, needs further investigation

Objective 3: Does your organization need to worry about this attack? Inconclusive, needs further investigation



Objective 4: Have you seen any traffic to the IOCs? Inconclusive, needs further investigation

Now I will look at the same tabs using an Enterprise PassiveTotal Account with the CrowdStrike Integration enabled.

Step 11: Using Enterprise PassiveTotal Account

Open your browser and go to <u>https://community.riskiq.com/home</u>. Search for the IP address 88[.]150[.]138[.]77.

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https://community.riskiq.com/search/88.150.138.77

Immediately we see some differences. I will explain what is different in the display and the additional information you gain with RiskIQ PassiveTotal Enterprise paid account.



At the top of the screen you can immediately see where the IP is located and it has a flag of the country so you can visually recognize the country.



The next area you will see is Analyst Insights. We worked with our professional cyber investigators and polled them to find out the question they needed to answer during an investigation to determine if something was suspicious, malicious, benign.

The Black colored insights are due to the CrowdStrike Integration. These insights are pulled when you perform a search in PassiveTotal. This ensures that you have the latest intelligence from CrowdStrike during your investigation.

From the results here we see that this is a known bad site that was blacklisted by a third-party. It has open ports just five days ago and the infrastructure (IP address) was routable and was hosting a webserver.

CrowdStrike Intelligence informs the analyst that this is part of a targeted attack. This IP is malicious with a high confidence. The IP address is controlled by the threat actor and it is a command and control server IP address.

That is a lot of information in a very condensed area. This allows for smart, and faster incident response.

Step 12: Click on the CrowdStrike tab. https://community.riskiq.com/search/88.150.138.77/crowdstrike



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Query Results																															
* ANALYST INSIGHTS																															
Blacklisted by Third Party	Not a Tor	Exit Node	е Ор	en Port	Last Det	ected 5 (	days ago	Not	t a Proxy	Hos	t Last Ol	bserved	a year a	go	Infrastru	cture Ro	utable	Hosts	a Web S	Server	*	ThreatT	ype/Targ	eted	🦐 M	alicious	Confide	nce/High			
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CrowdStrike is protecting the organizations endpoint. Falcon sees everything inside the organization and RiskIQ see everything outside the firewall on the internet.

This tab informs the analyst what devices have communicated with the IOC you searched in PassiveTotal. The analyst can immediately know that a single desktop has communicated 3 time on April 28<sup>th</sup> to this known command and control IP address.

Now the analyst knows that he needs to work with the use to make sure the organization is safe from this attacker.



#### Step 13: Click on the Service Tab

https://community.riskiq.com/search/88.150.138.77/services

	88.150.138.77 0	Tours	Enterprise	01
First Seen 2017-09-12 Last Seen 2020-05-06	ASN IOMART CLOUD SER N/2 GB I IOMART-CLOUD-SERVICES-LIMITED Routable C Categorize			
	2019-10-26 to 2020-05-05			
DATA	10 1 0 0 0 0 3 8 0 0 1 2 Resolutions Whois Certificates Trackers Components Host Pairs OSINT Hashes Projects Cookles CrowdStrike Services			
SERVICE TYPES	SERVICES (2)			
All (2)	Ports 80, 443 Components			
Remote Access (0) Data Store (0) Server (0)	Other Service			
Email Server (0)	Response	Seen 20 Times   20	918-10-18 → 202	θ-θ4-29
Network Device (0) Building Control System (0)	SYN / ACK MANDSHANE ONLY			
Other Services (2) Filtered Ports (0)	Other Service			
	Response	Seen 299 Times   20	919-01-06 → 202	0-04-30

The Services tab is a feature is only available to PassiveTotal Enterprise users and is not available to free community users.

Analyst can now know if the services (Ports) are open, closed, filtered and see the actual response during the scan.

From here we can see that the IP address is no longer active at this particular time.





	com 💿	Tours	Enterprise ? 👤
First Seen         2019-02-05         Registrar         Internet Domain Ser           Last Seen         2020-05-05         Registrant         Whois Privacy Corp.	• Windows Backdoor • Categorize		
Query Results			
▼ ANALYST INSIGHTS			
Not Blacklisted Resolving IP Blacklisted Registered 2 years a	igo Updated 19 days ago 100 IPs for subdomains New subdomain a month ago Register	ed Resolves to IP Not Alexa 100K 1 domains share whois record 1635 doma	ins share nameserver
Crawled By RisklQ 2 months ago Not an International Domain	KillChain/C2 💦 MaliciousConfidence/High 💦 Actor/OCEANBUFFALO		
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From the Analyst Insights RiskIQ informs the analyst that the domain is resolving to known blacklisted IP address, the IP address changed 19 days ago. A new subdomain was seen a month ago.

CrowdStrike informs the analyst that this attack is malicious, and the threat actor is Ocean Buffalo. It is part of the command and control in the kill chain.



#### Step 15: Click on the CrowdStrike Tab.

https://community.riskiq.com/search/ps.andreagahuvrauvin.com/crowdstrike



We see that the same device that reached out to the known bad IP address reached out to this particular domain twice on April 30<sup>th</sup>.



## **Step 16:** Search on the next domain from the article paste[.]christienollmache[.]xyz

#### https://community.riskiq.com/search/paste.christienollmache.xyz/resolutions

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RiskIQ informs the analyst that the domain was registered 2 years ago, it is connected to a resolving blacklisted IP address.

CrowdStrike informs the analyst that it is part of a targeted attack, it is malicious, part of the command and control section of the kill chain. The threat actor is Ocean Buffalo.



#### **Step 17:** Click on the CrowdStrike Tab

https://community.riskiq.com/search/paste.christienollmache.xyz/crowdstrike



CrowdStrike informs the analyst protect asset Desktop-82mvjs reached out to this malicious domain on April 30<sup>th</sup>.



**Step 18:** Search the last domain att[.]illagedrivestralia[.]xyz https://community.riskiq.com/search/att.illagedrivestralia.xyz



RiskIQ informs that analyst that the domain's IP address is blacklisted. New subdomain was added 17 days ago.

CrowdStrike informs the analyst that this is a targeted attack, part of the command and control section of the kill chain. The domain is malicious and is associated with the threat actor Ocean Buffalo.



#### Conclusion:

Objective 1: What are the aspects of the attacks? Android, MacOS, Windows attack vectors according to the publication.

Objective 2: Is it still active? The IP address is not currently active at this time.

Objective 3: Does your organization need to worry about this attack? Yes, a single device DESKTOP-82MVVJS reached out the C2 IP address and all three windows backdoor domains.

Objective 4: Have you seen any traffic to the IOCs? Yes, a single device DESKTOP-82MVVJS reached out the C2 IP address and all three windows backdoor domains.

