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THREATS & DEFENSES

Iranian PupyRAT Bites Middle Eastern Organizations

Customized phishing lures distribute PupyRAT malware

WEDNESDAY, FEBRUARY 15, 2017

BY: COUNTER THREAT UNIT RESEARCH TEAM

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SecureWorks® Counter Threat Unit™ (CTU) researchers analyzed a phishing campaign that targeted a Middle Eastern organization in early January 2017. Some of messages were sent from legitimate email addresses belonging to several Middle Eastern organizations.

Campaign details

The threat actor used shortened URLs in the body of the phishing emails that redirected to several spoofed domains (See Table 1).

Spoofed domain	Legitimate domain	Associated organization
ntg-sa . com	ntg . com . sa	National Technology Group, a
		Saudi Arabian
		telecommunications company
itworx . com-ho . me	itworx . com	ITWorx, an Egyptian
		information technology
		services firm
mci . com-ho . me	mci . gov . sa	Saudi Ministry of Commerce
moh . com-ho . me	moh . gov . sa	Saudi Ministry of Health

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Figure 1. Job offer lure (MD5: 43fad2d62bc23ffdc6d301571135222c). (Source: SecureWorks)

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Figure 2. Ministry of Health lure (MD5: 1b5e33e5a244d2d67d7a09c4ccf16e56). (Source: SecureWorks)

The downloaded document attempts to run a macro that then runs a PowerShell command. This command downloads two additional PowerShell scripts that install PupyRAT, an open-source remote access trojan (RAT). According to the developer, PupyRAT is a "multi-platform (Windows, Linux, OSX, Android), multi-function RAT and post-exploitation tool mainly written in Python." CTU™ analysis confirms that PupyRAT can give the threat actor full access to the victim's system.

Conclusion

CTU analysis suggests this activity is related to Iranian threat actors closely aligned with or acting on behalf of the COBALT GYPSY threat group (formerly labeled Threat Group-2889). CTU researchers assess with high confidence that COBALT GYPSY is associated with Iranian government-directed cyber operations, and it has used tactics similar to this campaign:

- targeting Saudi financial, oil, and technology organizations
- using job-themed lures to infect systems
- registering spoofed domains
- spearphishing new victims using legitimate email addresses

This campaign highlights the need for organizations to educate users about the risks of spearphishing and shortened links. CTU researchers recommend that organizations disable macros in Microsoft Office products to prevent attacks that leverage this functionality.

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domains may contain malicious content, so consider the risks before opening them in a browser.

Indicator	Type	Context
ntg-sa . com	Domain	Attacker-controlled spoofed
	name	website
itworx . com-ho . me	Domain	Attacker-controlled spoofed
	name	website
mci . com-ho . me	Domain	Attacker-controlled spoofed
	name	website
moh . com-ho . me	Domain	Attacker-controlled spoofed
	name	website
mol . com-ho . me	Domain	Attacker-controlled spoofed
	name	website
45 . 32 . 186 . 33	IP	Hosting spoofed domains used in
	address	PupyRAT phishing campaign
139 . 59 . 46 . 154	IP	Hosting PowerShell stages of
	Address	PupyRAT download
89 . 107 . 62 . 39	IP	PupyRAT command and control
	Address	server
43fad2d62bc23ffdc6d30157113	MD5 hash	Job-themed Word document lure
5222c		(qhtma) delivering PupyRAT
735f5d7ef0c5129f0574bec3cf3	SHA1 hash	Job-themed Word document lure
d6b06b052744a		(qhtma) delivering PupyRAT
e5b643cb6ec30d0d0b458e3f280	SHA256	Job-themed Word document lure
0609f260a5f15c4ac66faf4ebf384f7976df6	hash	(qhtma) delivering PupyRAT
1b5e33e5a244d2d67d7a09c4ccf	MD5 hash	Ministry of Health lure
16e56		(Health_insurance_registration.doc)
		delivering PupyRAT
934c51ff1ea00af2cb3b8465f0a	SHA1 hash	Ministry of Health lure
3effcf759d866		(Health_insurance_registration.doc)
		delivering PupyRAT
66d24a529308d8ab7b27ddd43a6	SHA256	Ministry of Health lure

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Table 2. Threat indicators for the Iranian PupyRAT campaign.

Gauging confidence level

CTU researchers have adopted the grading system published by the U.S. Office of the Director of National Intelligence to indicate confidence in their assessments:

- High confidence generally indicates that judgments are based on high-quality information, and/or that the nature of the issue makes it possible to render a solid judgment. A "high confidence" judgment is not a fact or a certainty, however, and such judgments still carry a risk of being wrong.
- Moderate confidence generally means that the information is credibly sourced and plausible but not of sufficient quality or corroborated sufficiently to warrant a higher level of confidence.
- Low confidence generally means that the information's credibility and/or plausibility is questionable, or that the information is too fragmented or poorly corroborated to make solid analytic inferences, or that [there are] significant concerns or problems with the sources.

Tags:PUPYRAT THREAT INTELLIGENCE

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