BLOG SUPPORT

ANOMALI



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Pulling Linux Rabbit/Rabbot Malware Out of a Hat



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Overview

Cyber threat researchers from Anomali Labs have discovered a new malware, called "Linux Rabbit," that targeted Linux servers and Internet-of-Things (IoT) devices in a campaign that began in August 2018 and continued until October 2018. The campaign targeted devices in Russia, South Korea, the UK, and the US. The campaign utilizes two strains of malware that share the same code base called Linux Rabbit and "Rabbot". The goal of this campaign is to install cryptocurrency miners onto the targeted servers and devices. The type of Monero cryptominer installed is dependent upon what the machine's architecture is. The threat bulletins associated with this blog post will thoroughly examine the general campaign and the individual malware processes for both Linux Rabbit and Rabbot.

This campaign was conducted by unknown threat actors and it is currently unclear what the initial infection vector is. The first campaign began in August 2018 and was utilizing the Linux Rabbit malware to infect Linux systems. The Linux Rabbit malware only targeted Linux servers that were located in specific countries: Russia, South Korea, the UK, and the US. This malware has four main functionalities which are:

- Establish a connection to the Command and Control (C2) server using Tor gateways
- Setup persistence
- SSH brute force
- Install the cryptocurrency miner

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"blacklisted," it will stop and move on until it finds an IP that is located in an allowed geolocation, which for this malware are Russia, South Korea, the UK, and the US. Once an allowed IP location is discovered, Linux Rabbit will check to see if an SSH server is listening on Port 22. The malware will open a socket to see if it receives a response, and if it does, it will attempt to obtain the machine's hostname. Interestingly, this malware will also check the Top-Level Domain (TLD) of a host, and will skip any TLD that is blacklisted. Many of the blacklisted TLDs are government-related sites in a variety of countries. If the TLD is not blacklisted, the malware will run through a process of authentication utilizing a list of hard-coded credentials it has. The first two authentication certifications are to ensure that the malware is not in a "honey pot". This is likely to avoid static analysis of the malware.

After all this, if the malware successfully discovers a viable target and is able to gain access through SSH credential brute forcing, the malware will be able to begin installation of the cryptocurrency miner. Linux Rabbit attempts to install both "CNRig" and "CoinHive" Monero miners onto the machine, but only one will actually successfully install depending on what type of architecture the machine is. If the machine is a x86-bit, it will install CNRig Monero miner and if the machine is an ARM/MISP, it will install CoinHive. If the infected machine is a web server, the malware will inject CoinHive script tags into every HTML file, so that even visitors of the site/server are also infected with the cryptocurrency miner. Linux Rabbit is able to connect to GitHub and receive updates from the threat actors. It also has a killswitch built-in. It is able to detect other miners already on a target machine and delete them from the machine during the installation of its own miner.

A technical breakdown of Linux Rabbit can be viewed by ThreatStream users <u>here</u>.

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- CVE-2016-0792
- CVE-2015-2051
- https://www.exploit-db.com/exploits/31683/
- https://www.exploit-db.com/exploits/27528/
- https://www.exploit-db.com/exploits/39596/
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- https://www.exploit-db.com/exploits/44760/
- https://www.exploit-db.com/exploits/41471/
- https://blogs.securiteam.com/index.php/archives/3445

A technical breakdown of Rabbot can be viewed by ThreatStream users here.

Both malware strains share the same code base which means they function almost

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