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# **Dead Drop Resolvers - Espionage Inspired C&C Communication**



- April 07, 2021

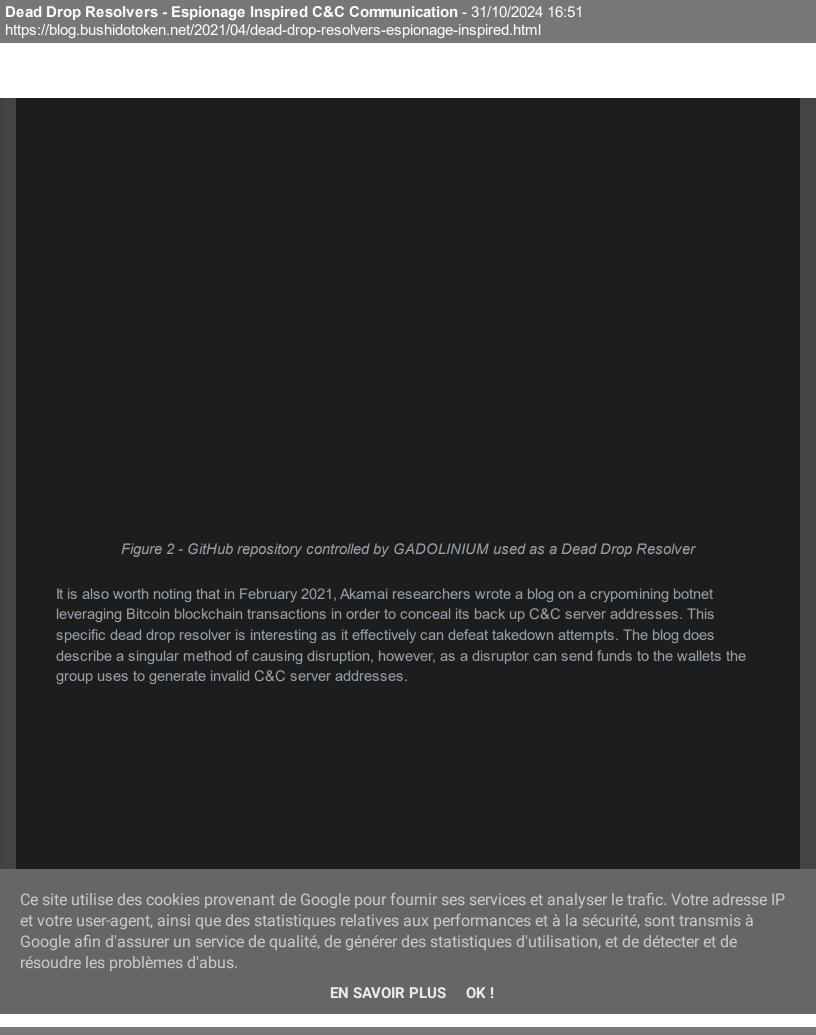
A "dead drop" is a well-known espionage tactic of passing items or information between two parties using secret locations. The two parties never meet and any sign of communication is concealed. This tactic is commonly used by intelligence officers to interact with their assets in the field to avoid any suspicious meetings or either caught talking to each other. For decades, intelligence agencies have used dead drops. Two infamous double agents from the CIA and FBI - <u>Aldrich Ames</u> and <u>Robert Hanssen</u> respectively - both used dead drops to supply information to their handlers from the Soviet Union. Cyber adversaries have also come to adapt this technique into their espionage campaigns. However, instead of a human source, state-backed computer network operations (CNOs) have leveraged legitimate services for covert communications or so-called "dead drop resolvers".

In October 2019, ESET Research disclosed a report on *Operation Ghost Dukes* which detailed the activities of an APT group known as TheDukes (also called APT29 or CozyBear). This particular group reportedly operates on behalf of the Russian foreign intelligence service (also known as the SVR). It was made infamous for compromising the Democratic National Committee (DNC) in 2016 during the run-up to the US election. *Operation Ghost Dukes* likely began in 2013 and targeted government entities for years whilst attracting very little attention. One key reason why TheDukes were able to go undetected for this length of time was partly due the use of online services as dead drop resolvers including Twitter, Imgur, and Reddit. These acted as primary command and control (C&C) channels for the first stage of their malware.

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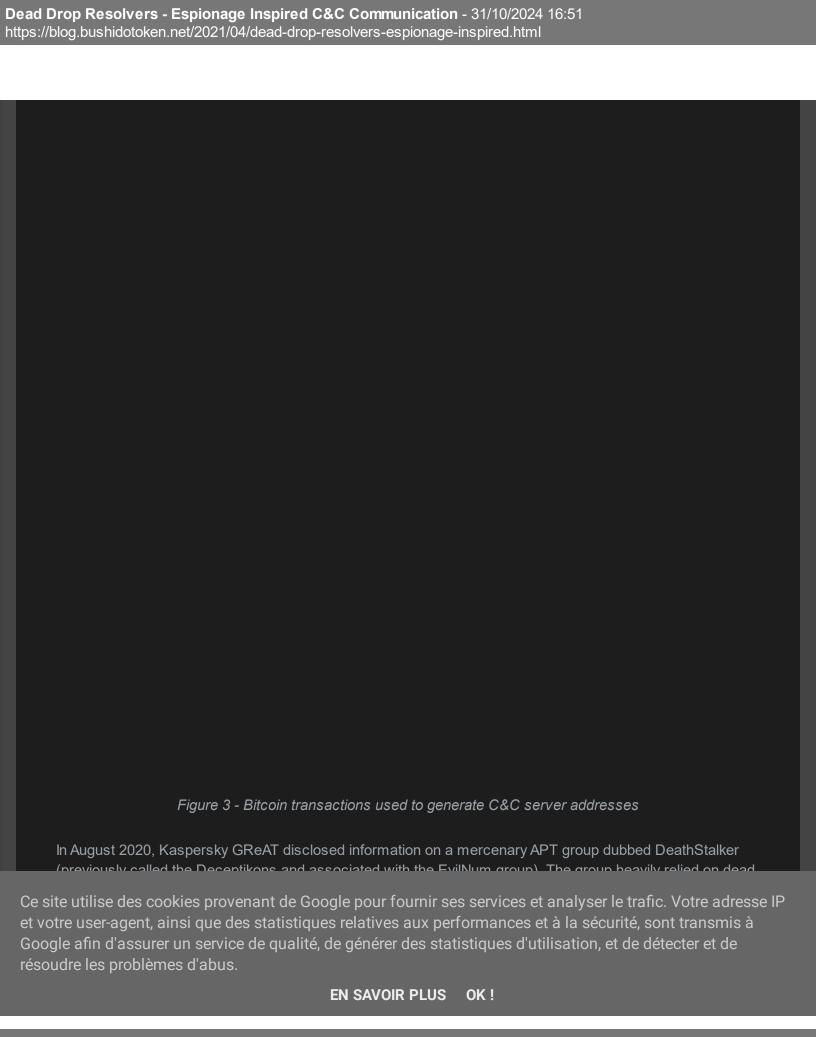


Figure 4 - Strings containing C&C addresses left as YouTube comments

### **Analysis**

Defenders attempting traffic analysis would only see connections to these legitimate sites and it would not flag any suspicious alerts. This tradecraft has often been favoured by state-sponsored adversaries for intelligence gathering and long term persistence. Although this TTP of dead drop resolvers has been leveraged by the cyber arm of the Russian SVR since at least 2013 - and the idea by spies decades earlier - it is still an effective tool to bypass basic traffic analysis. It is always worth remembering that many APT groups are either directly associated with intelligence and security agencies or do contract work for them. As shown with cryptomining campaigns and the DeathStalker group, these TTPs can often transfer to the cybercriminal underground.

Dead drops resolvers are free for threat actors to create and provide simple yet effective cover. It can also hinder defenders from disrupting the attacker's campaign as takedown requests can be a difficult and time-consuming process. The online services like YouTube and Twitter also cannot be blocked at the company level. However, this tactic comes at a price. Once an analyst has uncovered the attacker's dead drops, it can lead to unraveling other parts of the campaign as it can also be difficult for the attackers to remove their infrastructure and evidence of their attacks.

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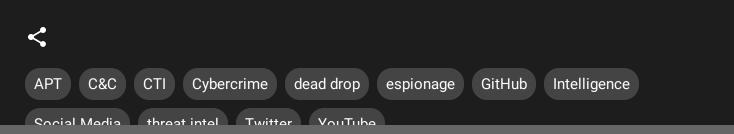
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