

JadeRAT Mobile Surveillanceware Spikes in Espionage Activity

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Lookout researchers are monitoring the evolution of an Android surveillanceware family known as JadeRAT, we believe may be connected to a government sponsored APT group.

Emerging in 2015 and becoming increasingly active, JadeRAT provides its operators with a significant degree of control over a compromised device and supports over 60 commands that are focused on retrieving sensitive information and profiling victims.

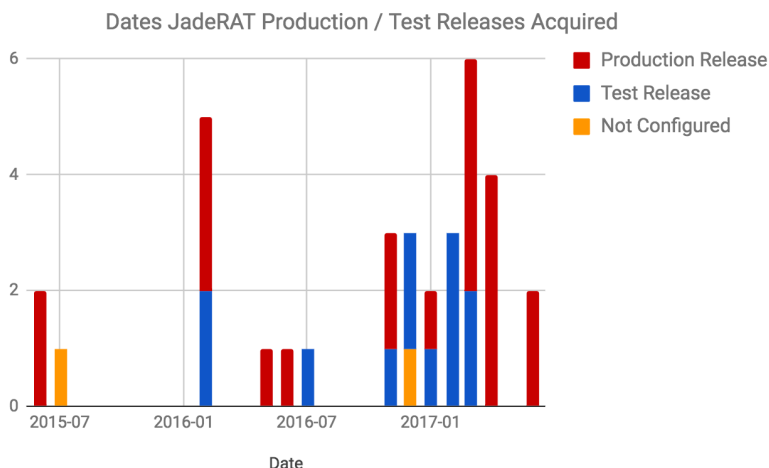
All Lookout customers are protected from this threat.

JadeRAT is just one example of numerous mobile surveillanceware families we've seen in recent months, indicating that actors are continuing to incorporate mobile tools in their attack chains. Some of these active families have included [FrozenCell](#), an attack against government officials in Palestine; [xRAT](#), associated with a family targeting Hong Kong protestors; and [ViperRAT](#), an attack targeting members of the Israeli Defense Force. Research into those families suggests they are highly targeted however we've also seen more wide-reaching spyware such as [SonicSpy that was discovered in](#) thousands of malicious apps, some of which made their way into the Google Play Store.

Potential attribution

Based on the apps we've seen JadeRAT trojanize, it appears the actors behind it are primarily targeting groups and individuals in China. While our analysis has identified several possible leads that could tie this surveillanceware family to the Naikon APT, [Scarlet Mimic](#), or one of several other groups operating in the region, at this point in time we do not have conclusive evidence to confirm this. Our findings do support the theory that the actor behind JadeRAT is operating around a similar set of objectives to those followed by other Chinese government sponsored groups. We're hoping that by sharing this information it will increase awareness about the rise in targeted surveillance attacks against mobile devices and provide further leads to the research community investigating actors operating in this region.

JadeRAT samples



There is a strong indication that the actor behind this family is becoming increasingly active in the mobile space. As of June 2017, we have acquired 34 JadeRAT samples, 50 percent of which were acquired just this year. Looking at hard coded configuration details, we were able to determine which samples are likely production releases and which are used for internal testing. This shows that the majority of production samples were released this year.

JadeRAT sample names have remained fairly consistent. The apps SIM卡管理 (SIM Card Management), 手机管家 (Phone Guardian), and Google Searcher are the most popular observed titles. Others have included Uyghur, 170602, Telegram, and Voxel, indicating the actor is impersonating communication apps and may be running some campaigns targeting ethnic minorities in China, given the Uyghur reference.

JadeRAT supports over 60 commands that can be issued in the format !<command_id>&<optional_cmd_params>@. Many of these offer standard information gathering functionality seen in typical mobile surveillanceware, however JadeRAT

