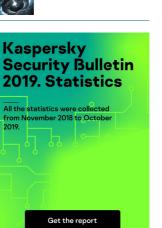
APT-style bank robberies increase with Metel, GCMAN and Carbanak 2.0 attacks

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Introduction

ery of Carbanak, a cyber-criminal gang that used Just a few months later, in February 2015, we anno custom malware and APT techniques to steal millions of dollars while infecting hundreds of financial institutions in at least

on: financially-motivated cyber-criminals would adopt

In late 2014, Kaspersky Lab researchers made a worrying prediction: financially-sophisticated tactics and techniques from APT groups for use in bank robberies.

Since then, we have seen an increase in these covert, APT-style attacks that combine the use of reconnaissance, social

engineering, specialized malware, lateral movement tools and long-term persistence to steal money from financial institutions (particularly ATMs and money transfer systems). In summer 2015, a #bank III #hussia los rubles in a one night #bankingAPT #TheSAS2016 In summer 2015, a #bank in #Russia lost millions of

Today at the Security Analyst Summit (SAS 2016), Kaspersky Lab is announcing the discovery of two new gangs engaged in APT-style bank robberies – Metel and GCMAN – and the reemergence of the Carbanak group with new targets in its sights. In 2015, Kaspersky Lab researchers conducted Incident Response for 29 organizations located in Russia and infected by

Due to the active nature of law enforcement investigations and non-disclosure agreements with victim organizations, Kaspersky Lab cannot provide extensive details of the attacks. Kaspersky Lab is releasing crucial Indicators of Compromise (IOCs) and other data to help organizations search for traces of these attack groups in their corporate networks (see below).

The story of Metel - ATM balance rollbacks

The malware, used exclusively by the Metel group, infected the bank's corporate network via e-mail and moved laterally to

In summer 2015, a bank in Russia discovered it had lost millions of rubles in a single night through a series of strange financial transactions. The bank's clients were making withdrawals from ATMs belonging to other banks and were able to cash out huge sums of money while their balances remained untouched. The victim bank didn't realize this until it tried to recoup the money withdrawn from the other banks' ATMs.

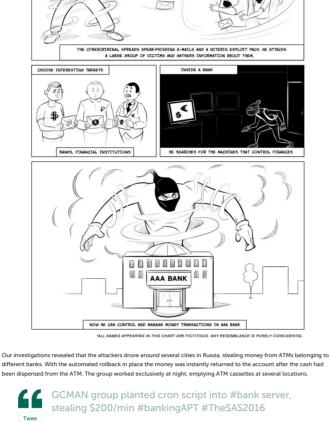
During our incident response, we discovered the solution to this puzzle: Metel, a modular malware program also known as

gain access to the computers within the bank's IT systems.

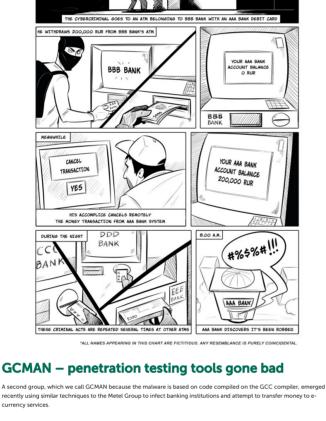
Having gained access to the bank operator's money-processing system, the gang pulled off a clever trick by automating the rollback of ATM transactions. This meant that money could be stolen from ATM machines via debit cards while the balance

on the cards remained the same, allowing for multiple transactions at different ATM machines

METEL GROUP - ATTACK STAGES



In all, we discovered Metel in more than 30 financial institutions, but Kaspersky Lab's incident responders were able to clean the networks before any major damage could be done. It is highly likely that this threat is far more widespread and we urge financial institutions around the world to scan their networks for signs of the Metel malware. The Metel criminal group is still active. At the moment, we don't have any information about any victims outside Russia



The story of a GCMAN attack



Decompiled code of GCMAN malware that is responsible for connecting to CnC threat and cancel the transactions

We discovered that about two months before the incident someone was trying different passwords for an admin account on a banking server. They were really persistent but doing it only three times a week and then only on Saturdays, in an effort to

 $Kaspersky\,Lab's\,research\,team\,responded\,to\,three\,financial\,institutions\,in\,Russia\,that\,were\,infected\,with\,the\,GCMAN\,ACOMBON and Company and Company$ malware. It is likely that this threat is far more widespread and we urge banks to sweep their networks for signs of this cyber-

Carbanak 2.0: new targets beyond banks

stay under the radar

criminal group.

1. Infection

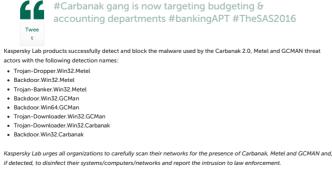
new Carbanak variant affecting one of its customers. In December 2015, we confirmed that the group was still active. Kaspersky Lab discovered signs of Carbanak in two institutions – a telecommunications company and a financial institution

After our exposure of the Carbanak group exactly a year ago, the group disappeared for about five months, leading us to believe that the operation was disbanded. However, in September last year, our friends at CSIS published a blog detailing

Executable files founded in SHIM during Carbanak incident response One interesting characteristic of Carbanak 2.0 is a different victim profile. The group has moved beyond banks and is now targeting the budgeting and accounting departments in any organization of interest to them, using the same APT-style tools

2. Harvesting Intelligence Intercepting the clerks' screens

shareholders to change the ownership details of a large company. The information was modified to name a money mule as a shareholder of the company, displaying their IDs. It's unclear how they wanted to make use of this information in future.



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3. Mimicking the staff

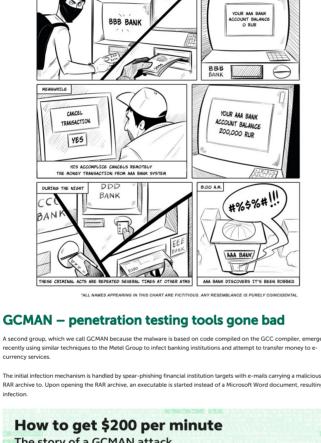
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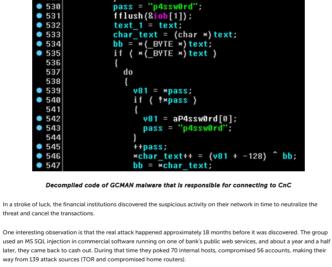
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Kaspersky

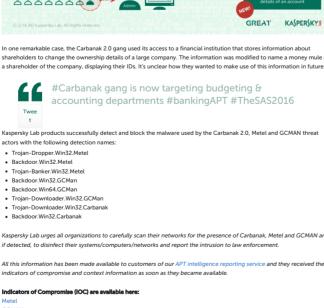
A Value Type Data 競 4ef544d REG_BINARY 60 85 C1 14 C2 C6. 競 8881b021 REG_BINARY 60 85 C1 14 C2 C6. 競 2b78c3 REG_BINARY 75 AF C1 12 C3 C2. Encrypted configuration for Metel malware plugins

METEL: KEEP CALM AND ROLL BACK THE TRANSACTIONS





How the Carbanak cybergang targets financial organizations



GCMAN f 💆 **Related Posts** Hunting APTs with YARA

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