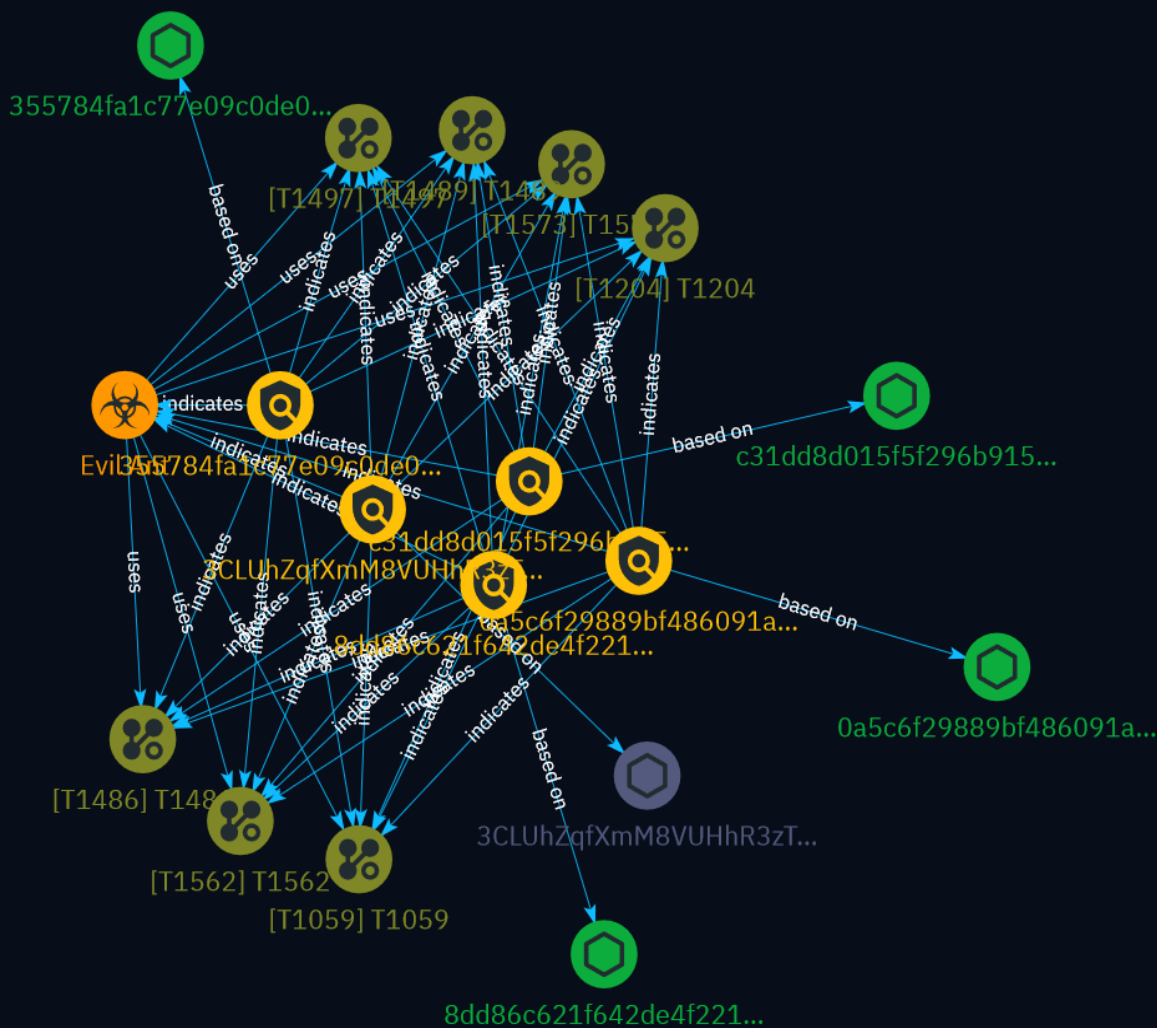


# NETMANAGEIT

## Intelligence Report

# Threat Coverage: Evil Ant Ransomware



# Table of contents

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## Overview

---

● Description	4
● Confidence	4
● Content	5

---

## Entities

---

● Indicator	6
● Malware	8
● Attack-Pattern	9

---

## Observables

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● StixFile	14
● Cryptocurrency-Wallet	15



## External References

- 
- External References

16

# Overview

## Description

Netskope Threat Labs recently analyzed a new ransomware strain called Evil Ant. It is a Python-based malware compiled with PyInstaller that aims to encrypt files stored on personal folders and external drives. The ransomware requires process continuity from encryption until file recovery, as rebooting or terminating it will make affected files unrecoverable. Evil Ant appears to be in its early development stages, primarily targeting individual consumers for now. Notably, the current variants contain the decryption key hardcoded in cleartext within the malware, allowing victims to recover their files without paying the ransom.

## Confidence

*This value represents the confidence in the correctness of the data contained within this report.*

100 / 100

# Content

N/A

# Indicator

**Name**

c31dd8d015f5f296b915243815c2245864c73a90a9b4e6dec8e5da75e4931afa

**Pattern Type**

stix

**Pattern**

```
[file:hashes:'SHA-256' =  
'c31dd8d015f5f296b915243815c2245864c73a90a9b4e6dec8e5da75e4931afa']
```

**Name**

8dd86c621f642de4f221a01bae2c4df88994717fcedd12728f51776d99bfddf9

**Pattern Type**

stix

**Pattern**

```
[file:hashes:'SHA-256' =  
'8dd86c621f642de4f221a01bae2c4df88994717fcedd12728f51776d99bfddf9']
```

**Name**

355784fa1c77e09c0de0fcd277bfc9edb3920933f2003d2d1d1b84822f25697b

**Pattern Type**

stix

**Pattern**

[file:hashes:'SHA-256' =  
'355784fa1c77e09c0de0fcd277bfc9edb3920933f2003d2d1d1b84822f25697b']

**Name**

0a5c6f29889bf486091ab4cee5918b837e2dd5eeb47ddec59f06962c15fa62cf

**Pattern Type**

stix

**Pattern**

[file:hashes:'SHA-256' =  
'0a5c6f29889bf486091ab4cee5918b837e2dd5eeb47ddec59f06962c15fa62cf']

**Name**

3CLUhZqfXmM8VUHhR3zTgQ8wKY72cSn989

**Pattern Type**

stix

**Pattern**

[cryptocurrency-wallet:value = '3CLUhZqfXmM8VUHhR3zTgQ8wKY72cSn989']

# Malware

## Name

Evil Ant



# Attack-Pattern

## Name

T1486

## ID

T1486

## Description

Adversaries may encrypt data on target systems or on large numbers of systems in a network to interrupt availability to system and network resources. They can attempt to render stored data inaccessible by encrypting files or data on local and remote drives and withholding access to a decryption key. This may be done in order to extract monetary compensation from a victim in exchange for decryption or a decryption key (ransomware) or to render data permanently inaccessible in cases where the key is not saved or transmitted.(Citation: US-CERT Ransomware 2016)(Citation: FireEye WannaCry 2017)(Citation: US-CERT NotPetya 2017)(Citation: US-CERT SamSam 2018) In the case of ransomware, it is typical that common user files like Office documents, PDFs, images, videos, audio, text, and source code files will be encrypted (and often renamed and/or tagged with specific file markers). Adversaries may need to first employ other behaviors, such as [File and Directory Permissions Modification](<https://attack.mitre.org/techniques/T1222>) or [System Shutdown/Reboot](<https://attack.mitre.org/techniques/T1529>), in order to unlock and/or gain access to manipulate these files.(Citation: CarbonBlack Conti July 2020) In some cases, adversaries may encrypt critical system files, disk partitions, and the MBR.(Citation: US-CERT NotPetya 2017) To maximize impact on the target organization, malware designed for encrypting data may have worm-like features to propagate across a network by leveraging other attack techniques like [Valid Accounts](<https://attack.mitre.org/techniques/T1078>), [OS Credential Dumping](<https://attack.mitre.org/techniques/T1003>), and [SMB/Windows Admin Shares](<https://attack.mitre.org/techniques/T1021/002>).(Citation: FireEye WannaCry 2017)(Citation: US-CERT NotPetya 2017) Encryption malware may also leverage [Internal

Defacement](<https://attack.mitre.org/techniques/T1491/001>), such as changing victim wallpapers, or otherwise intimidate victims by sending ransom notes or other messages to connected printers (known as "print bombing").(Citation: NHS Digital Egregor Nov 2020) In cloud environments, storage objects within compromised accounts may also be encrypted. (Citation: Rhino S3 Ransomware Part 1)

**Name**

T1573

**ID**

T1573

**Description**

Adversaries may employ a known encryption algorithm to conceal command and control traffic rather than relying on any inherent protections provided by a communication protocol. Despite the use of a secure algorithm, these implementations may be vulnerable to reverse engineering if secret keys are encoded and/or generated within malware samples/configuration files.

**Name**

T1059

**ID**

T1059

**Description**

Adversaries may abuse command and script interpreters to execute commands, scripts, or binaries. These interfaces and languages provide ways of interacting with computer systems and are a common feature across many different platforms. Most systems come with some built-in command-line interface and scripting capabilities, for example, macOS and Linux distributions include some flavor of [Unix Shell](<https://attack.mitre.org/techniques/T1059/004>) while Windows installations include the [Windows Command Shell]

(<https://attack.mitre.org/techniques/T1059/003>) and [PowerShell](<https://attack.mitre.org/techniques/T1059/001>). There are also cross-platform interpreters such as [Python] (<https://attack.mitre.org/techniques/T1059/006>), as well as those commonly associated with client applications such as [JavaScript](<https://attack.mitre.org/techniques/T1059/007>) and [Visual Basic](<https://attack.mitre.org/techniques/T1059/005>). Adversaries may abuse these technologies in various ways as a means of executing arbitrary commands. Commands and scripts can be embedded in [Initial Access](<https://attack.mitre.org/tactics/TA0001>) payloads delivered to victims as lure documents or as secondary payloads downloaded from an existing C2. Adversaries may also execute commands through interactive terminals/shells, as well as utilize various [Remote Services](<https://attack.mitre.org/techniques/T1021>) in order to achieve remote Execution. (Citation: Powershell Remote Commands)(Citation: Cisco IOS Software Integrity Assurance - Command History)(Citation: Remote Shell Execution in Python)

**Name**

T1497

**ID**

T1497

**Description**

Adversaries may employ various means to detect and avoid virtualization and analysis environments. This may include changing behaviors based on the results of checks for the presence of artifacts indicative of a virtual machine environment (VME) or sandbox. If the adversary detects a VME, they may alter their malware to disengage from the victim or conceal the core functions of the implant. They may also search for VME artifacts before dropping secondary or additional payloads. Adversaries may use the information learned from [Virtualization/Sandbox Evasion](<https://attack.mitre.org/techniques/T1497>) during automated discovery to shape follow-on behaviors.(Citation: Deloitte Environment Awareness) Adversaries may use several methods to accomplish [Virtualization/Sandbox Evasion](<https://attack.mitre.org/techniques/T1497>) such as checking for security monitoring tools (e.g., Sysinternals, Wireshark, etc.) or other system artifacts associated with analysis or virtualization. Adversaries may also check for legitimate user activity to help determine if it is in an analysis environment. Additional methods include use of sleep timers or loops within malware code to avoid operating within a temporary sandbox. (Citation: Unit 42 Pirpi July 2015)

**Name**

T1204

**ID**

T1204

**Description**

An adversary may rely upon specific actions by a user in order to gain execution. Users may be subjected to social engineering to get them to execute malicious code by, for example, opening a malicious document file or link. These user actions will typically be observed as follow-on behavior from forms of [Phishing](https://attack.mitre.org/techniques/T1566). While [User Execution](https://attack.mitre.org/techniques/T1204) frequently occurs shortly after Initial Access it may occur at other phases of an intrusion, such as when an adversary places a file in a shared directory or on a user's desktop hoping that a user will click on it. This activity may also be seen shortly after [Internal Spearphishing](https://attack.mitre.org/techniques/T1534). Adversaries may also deceive users into performing actions such as enabling [Remote Access Software](https://attack.mitre.org/techniques/T1219), allowing direct control of the system to the adversary, or downloading and executing malware for [User Execution](https://attack.mitre.org/techniques/T1204). For example, tech support scams can be facilitated through [Phishing] (https://attack.mitre.org/techniques/T1566), vishing, or various forms of user interaction. Adversaries can use a combination of these methods, such as spoofing and promoting toll-free numbers or call centers that are used to direct victims to malicious websites, to deliver and execute payloads containing malware or [Remote Access Software](https://attack.mitre.org/techniques/T1219).(Citation: Telephone Attack Delivery)

**Name**

T1562

**ID**

T1562

**Description**

Adversaries may maliciously modify components of a victim environment in order to hinder or disable defensive mechanisms. This not only involves impairing preventative defenses, such as firewalls and anti-virus, but also detection capabilities that defenders can use to audit activity and identify malicious behavior. This may also span both native defenses as well as supplemental capabilities installed by users and administrators. Adversaries may also impair routine operations that contribute to defensive hygiene, such as blocking users from logging out of a computer or stopping it from being shut down. These restrictions can further enable malicious operations as well as the continued propagation of incidents.(Citation: Emotet shutdown) Adversaries could also target event aggregation and analysis mechanisms, or otherwise disrupt these procedures by altering other system components.

**Name**

T1489

**ID**

T1489

**Description**

Adversaries may stop or disable services on a system to render those services unavailable to legitimate users. Stopping critical services or processes can inhibit or stop response to an incident or aid in the adversary's overall objectives to cause damage to the environment.(Citation: Talos Olympic Destroyer 2018)(Citation: Novetta Blockbuster) Adversaries may accomplish this by disabling individual services of high importance to an organization, such as `MSExchangeIS`, which will make Exchange content inaccessible (Citation: Novetta Blockbuster). In some cases, adversaries may stop or disable many or all services to render systems unusable.(Citation: Talos Olympic Destroyer 2018) Services or processes may not allow for modification of their data stores while running. Adversaries may stop services or processes in order to conduct [Data Destruction](<https://attack.mitre.org/techniques/T1485>) or [Data Encrypted for Impact](<https://attack.mitre.org/techniques/T1486>) on the data stores of services like Exchange and SQL Server.(Citation: SecureWorks WannaCry Analysis)

# StixFile

## Value

c31dd8d015f5f296b915243815c2245864c73a90a9b4e6dec8e5da75e4931afa

8dd86c621f642de4f221a01bae2c4df88994717fcedd12728f51776d99bfddf9

355784fa1c77e09c0de0fcd277bfc9edb3920933f2003d2d1d1b84822f25697b

0a5c6f29889bf486091ab4cee5918b837e2dd5eeb47ddec59f06962c15fa62cf

# Cryptocurrency-Wallet

## Value

3CLUhZqfXmM8VUHhR3zTgQ8wKY72cSn989

# External References

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- <https://www.netskope.com/blog/netkope-threat-coverage-evil-ant-ransomware>
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- <https://otx.alienvault.com/pulse/661f89853d8304ff455d819d>