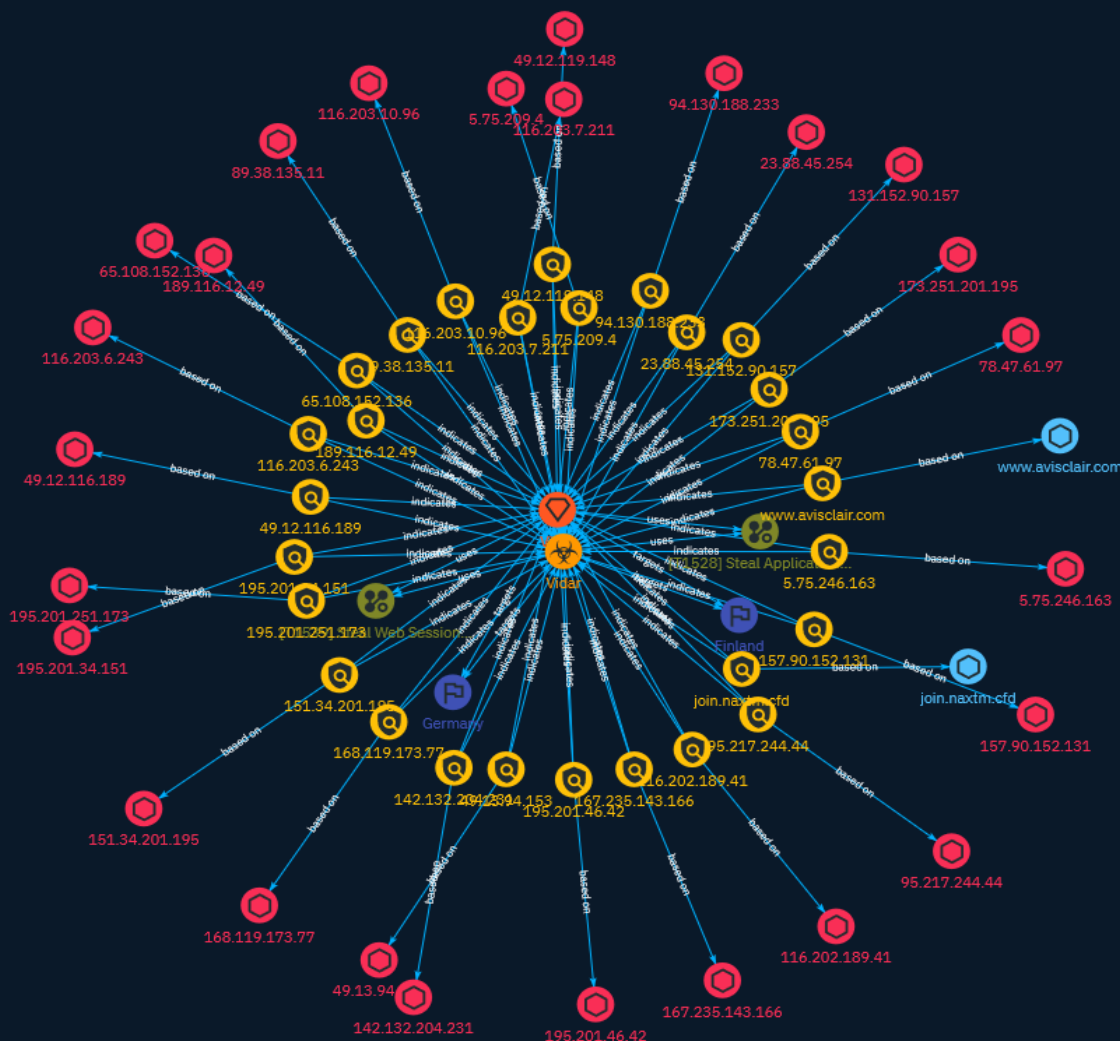


# NETMANAGEIT

## Intelligence Report

### Tracking Vidar

### Infrastructure with Censys



# Table of contents

---

## Overview

---

● Description	4
● Confidence	4
● Content	5

---

## Entities

---

● Attack-Pattern	6
● Indicator	9
● Intrusion-Set	23
● Country	24
● Malware	25

---

## Observables

---

● Hostname	26
● IPv4-Addr	27



## External References

- External References

29

# Overview

## Description

Following Censys' research, we look at some of the more advanced malware trojans that are used to steal data from infected computers and other systems, including 2FA Software and the Tor Browser.

## Confidence

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

15 / 100

# Content

N/A

# Attack-Pattern

## Name

Steal Application Access Token

## ID

T1528

## Description

Adversaries can steal application access tokens as a means of acquiring credentials to access remote systems and resources. Application access tokens are used to make authorized API requests on behalf of a user or service and are commonly used as a way to access resources in cloud and container-based applications and software-as-a-service (SaaS).(Citation: Auth0 - Why You Should Always Use Access Tokens to Secure APIs Sept 2019) OAuth is one commonly implemented framework that issues tokens to users for access to systems. Adversaries who steal account API tokens in cloud and containerized environments may be able to access data and perform actions with the permissions of these accounts, which can lead to privilege escalation and further compromise of the environment. In Kubernetes environments, processes running inside a container communicate with the Kubernetes API server using service account tokens. If a container is compromised, an attacker may be able to steal the container's token and thereby gain access to Kubernetes API commands.(Citation: Kubernetes Service Accounts) Token theft can also occur through social engineering, in which case user action may be required to grant access. An application desiring access to cloud-based services or protected APIs can gain entry using OAuth 2.0 through a variety of authorization protocols. An example commonly-used sequence is Microsoft's Authorization Code Grant flow.(Citation: Microsoft Identity Platform Protocols May 2019)(Citation: Microsoft - OAuth Code Authorization flow - June 2019) An OAuth access token enables a third-party application to interact with resources containing user data in the ways requested by the application without obtaining user credentials. Adversaries can leverage OAuth authorization by constructing a malicious

application designed to be granted access to resources with the target user's OAuth token. (Citation: Amnesty OAuth Phishing Attacks, August 2019)(Citation: Trend Micro Pawn Storm OAuth 2017) The adversary will need to complete registration of their application with the authorization server, for example Microsoft Identity Platform using Azure Portal, the Visual Studio IDE, the command-line interface, PowerShell, or REST API calls.(Citation: Microsoft - Azure AD App Registration - May 2019) Then, they can send a [Spearphishing Link](<https://attack.mitre.org/techniques/T1566/002>) to the target user to entice them to grant access to the application. Once the OAuth access token is granted, the application can gain potentially long-term access to features of the user account through [Application Access Token](<https://attack.mitre.org/techniques/T1550/001>).(Citation: Microsoft - Azure AD Identity Tokens - Aug 2019) Application access tokens may function within a limited lifetime, limiting how long an adversary can utilize the stolen token. However, in some cases, adversaries can also steal application refresh tokens(Citation: Auth0 Understanding Refresh Tokens), allowing them to obtain new access tokens without prompting the user.

**Name**

Steal Web Session Cookie

**ID**

T1539

**Description**

An adversary may steal web application or service session cookies and use them to gain access to web applications or Internet services as an authenticated user without needing credentials. Web applications and services often use session cookies as an authentication token after a user has authenticated to a website. Cookies are often valid for an extended period of time, even if the web application is not actively used. Cookies can be found on disk, in the process memory of the browser, and in network traffic to remote systems. Additionally, other applications on the targets machine might store sensitive authentication cookies in memory (e.g. apps which authenticate to cloud services). Session cookies can be used to bypasses some multi-factor authentication protocols.(Citation: Pass The Cookie) There are several examples of malware targeting cookies from web browsers on the local system.(Citation: Kaspersky TajMahal April 2019)(Citation: Unit 42 Mac Crypto Cookies January 2019) There are also open source frameworks such as `Evilginx2` and `Muraena` that can gather session cookies through a malicious proxy (ex: [Adversary-in-the-Middle](<https://attack.mitre.org/techniques/T1557>)) that can be set up by an adversary and used in phishing campaigns.(Citation: Github evilginx2)(Citation: GitHub Mauraena) After an adversary acquires a valid cookie, they can then perform a [Web Session Cookie]

(<https://attack.mitre.org/techniques/T1550/004>) technique to login to the corresponding web application.



# Indicator

**Name**

89.38.135.11

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '89.38.135.11']

**Name**

116.202.189.41

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '116.202.189.41']

**Name**

173.251.201.195

**Description**

CC=US

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '173.251.201.195']

**Name**

23.88.45.254

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '23.88.45.254']

**Name**

5.75.246.163

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '5.75.246.163']

**Name**

195.201.34.151

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '195.201.34.151']

**Name**

www.avisclair.com

**Pattern Type**

stix

**Pattern**

[hostname:value = 'www.avisclair.com']

**Name**

49.12.116.189

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '49.12.116.189']

**Name**

5.75.209.4

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '5.75.209.4']

**Name**

157.90.152.131

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '157.90.152.131']

**Name**

189.116.12.49

**Description**

CC=BR ASN=AS26615 TIM SA

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '189.116.12.49']

**Name**

78.47.61.97

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '78.47.61.97']

**Name**

142.132.204.231

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '142.132.204.231']

**Name**

65.108.152.136

**Description**

```

**ISP:** Hetzner Online GmbH **OS:** None ----- Hostnames: - static.
136.152.108.65.clients.your-server.de ----- Domains: - your-server.de
----- Services: **22:** ~~~ SSH-2.0-OpenSSH_8.4p1 Debian-5+deb11u1 Key
type: ssh-rsa Key: AAAAB3NzaC1yc2EAAAADAQABAAQGC5IK0gUZ5D7e/
yOJkbH0EAHKKiejFRFgypGda+bkffgtqI 2mQC2EFxaT6vCgXKUInIm8E5WiLLBs7fpYKM++Xjvl0K/
8NvVm7YijrGe6nyx+UvRWWlTAXs+0J/c
FP5st+EBCwu83ND+rZYIFQbhoJqVGH5jzKTvnB4LzOOA93sCTVvy+b2ZI9gf8/o7qedsXEmCgFg1
nPdcvzBoDgnFY0Lfd9K9sn1UuR/DJfwtFXpx50kRhalqsXRNlqXWWLaAk9yGa6/BN3+0JfPm0ntA
PcTwTwZF81/GWnnzGKoTfShH4HVrh//
DKGpxNmmUpYLNcVunt+sdjy0nzgv0Jd63d+wEz5WN9pUy
L0fNH3GD0XYbpxDAKfpPScl91+Hot3llR7Bb2ufrbtM8jqcmNO2uoVrnI03o/gD0izHU3GUspFyY
lCSDQ3wvtI1JrCWaETK02VIE8klAmjDk6h5YMehPHzOzYSfhXNQzmFkCddz5jgqA23qSdsi66CCq
NchjM2wN+k= Fingerprint: b9:e7:99:00:9f:da:52:21:c2:e6:6c:0a:86:6f:e6:40 Kex Algorithms:
curve25519-sha256 curve25519-sha256@libssh.org ecdh-sha2-nistp256 ecdh-sha2-nistp384
ecdh-sha2-nistp521 diffie-hellman-group-exchange-sha256 diffie-hellman-group16-sha512
diffie-hellman-group18-sha512 diffie-hellman-group14-sha256 Server Host Key Algorithms:
rsa-sha2-512 rsa-sha2-256 ssh-rsa ecdsa-sha2-nistp256 ssh-ed25519 Encryption Algorithms:
chacha20-poly1305@openssh.com aes128-ctr aes192-ctr aes256-ctr aes128-
gcm@openssh.com aes256-gcm@openssh.com MAC Algorithms: umac-64-
etm@openssh.com umac-128-etm@openssh.com hmac-sha2-256-etm@openssh.com
hmac-sha2-512-etm@openssh.com hmac-sha1-etm@openssh.com umac-64@openssh.com
umac-128@openssh.com hmac-sha2-256 hmac-sha2-512 hmac-sha1 Compression
Algorithms: none zlib@openssh.com ~~~ ----- **80:** ~~~ HTTP/1.1 403 Forbidden
Server: nginx Date: Tue, 21 Nov 2023 07:07:51 GMT Content-Type: text/html Content-Length:
548 Connection: keep-alive ~~~ ----- **443:** ~~~ HEARTBLEED: 2023/11/07
10:28:34 65.108.152.136:443 - ERROR: write tcp 65.108.152.136:443: connection reset by peer
-----

```

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '65.108.152.136']

**Name**

95.217.244.44

**Description**

\*\*ISP:\*\* Hetzner Online GmbH \*\*OS:\*\* None ----- Hostnames: - static.  
44.244.217.95.clients.your-server.de ----- Domains: - your-server.de  
----- Services: \*\*80:\*\* `` HTTP/1.1 403 Forbidden Server: nginx Date: Tue,  
21 Nov 2023 04:21:54 GMT Content-Type: text/html Content-Length: 548 Connection: keep-  
alive `` ----- \*\*8080:\*\* `` HTTP/1.1 400 Bad Request Content-Type: text/plain;  
charset=utf-8 Sec-WebSocket-Version: 13 X-Content-Type-Options: nosniff Date: Sat, 11 Nov  
2023 01:32:13 GMT Content-Length: 12 `` -----

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '95.217.244.44']

**Name**

168.119.173.77

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '168.119.173.77']



**Name**

94.130.188.233

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '94.130.188.233']

**Name**

151.34.201.195

**Description**

CC=IT ASN=AS1267 Wind Tre S.p.A.

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '151.34.201.195']

**Name**

116.203.10.96

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '116.203.10.96']

**Name**

join.naxtm.cfd

**Pattern Type**

stix

**Pattern**

[hostname:value = 'join.naxtm.cfd']

**Name**

195.201.251.173

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '195.201.251.173']

**Name**

49.12.119.148

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '49.12.119.148']

**Name**

195.201.46.42

**Description**

**\*\*ISP:\*\*** Hetzner Online GmbH **\*\*OS:\*\*** None ----- Hostnames: - static.  
42.46.201.195.clients.your-server.de ----- Domains: - your-server.de  
----- Services: **\*\*80:\*\*** HTTP/1.1 403 Forbidden Server: nginx Date: Tue,  
21 Nov 2023 06:07:52 GMT Content-Type: text/html Content-Length: 548 Connection: keep-  
alive -----

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '195.201.46.42']

**Name**

116.203.6.243

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '116.203.6.243']

**Name**

131.152.90.157

**Description**

CC=CH ASN=AS559 SWITCH

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '131.152.90.157']

**Name**

49.13.94.153

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '49.13.94.153']

**Name**

116.203.7.211

**Description**

Vidar botnet C2 server (confidence level: 80%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '116.203.7.211']

**Name**

167.235.143.166

**Description**

Vidar botnet C2 server (confidence level: 100%)

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '167.235.143.166']

# Intrusion-Set

**Name**

Vidar

# Country

**Name**

Germany

**Name**

Finland



# Malware

**Name**

Vidar

# Hostname

## Value

join.naxtm.cfd

www.avisclair.com

# IPv4-Addr

## Value

49.12.119.148

116.203.10.96

167.235.143.166

23.88.45.254

116.203.7.211

89.38.135.11

116.203.6.243

49.13.94.153

131.152.90.157

157.90.152.131

195.201.34.151

195.201.251.173

95.217.244.44

5.75.209.4

5.75.246.163

195.201.46.42

94.130.188.233

168.119.173.77

65.108.152.136

189.116.12.49

116.202.189.41

49.12.116.189

173.251.201.195

151.34.201.195

78.47.61.97

142.132.204.231

# External References

- 
- <https://otx.alienvault.com/pulse/6560829a84f4d4c9903e5443>
- 
- <https://censys.com/tracking-vidar-infrastructure/>