

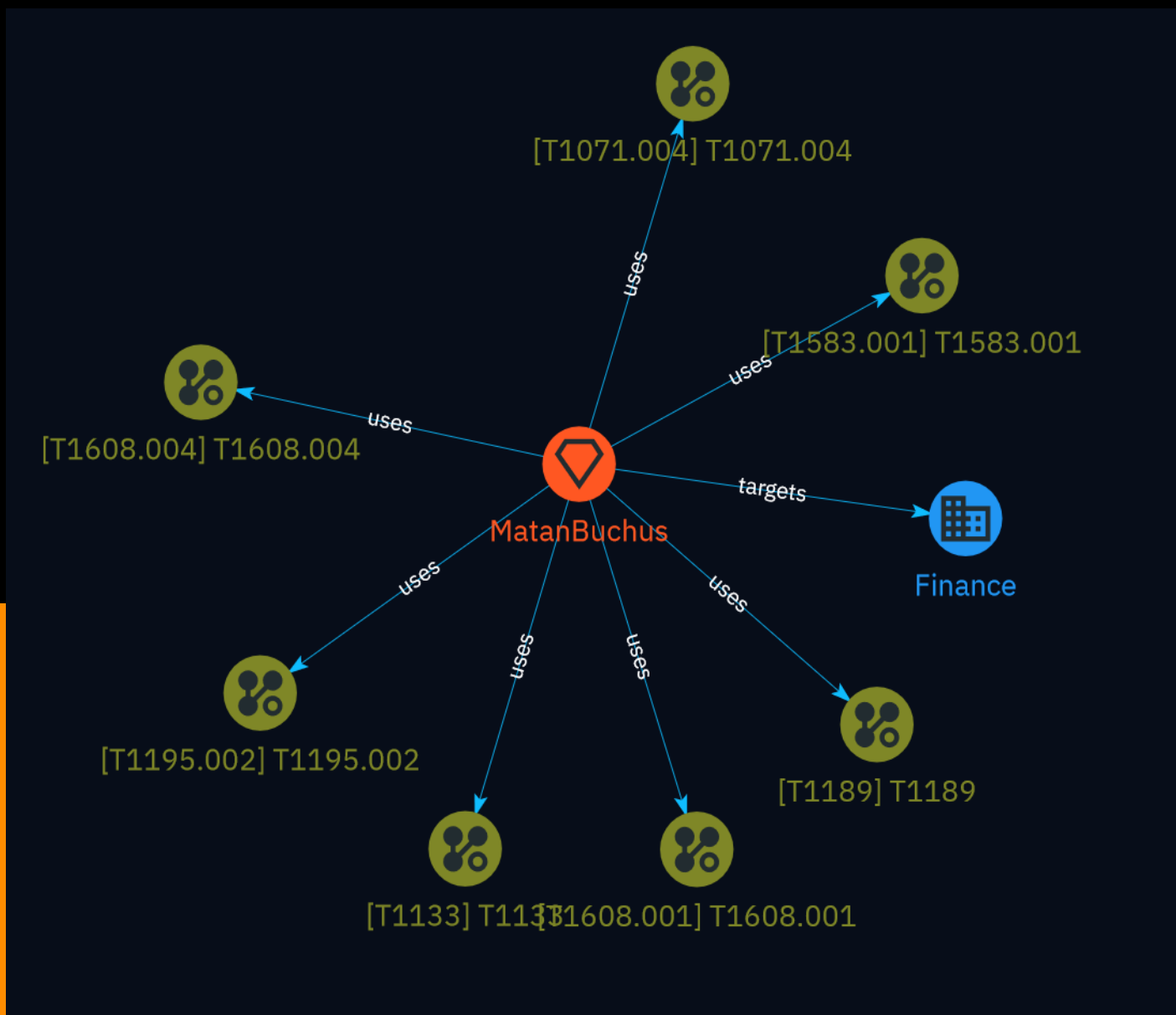
# NETMANAGEIT

## Intelligence Report

### Identifying Domains

### Through Hardcoded

### Certificate Values



# Table of contents

---

## Overview

---

● Description	3
● Confidence	3
● Content	4

---

## Entities

---

● Intrusion-Set	5
● Attack-Pattern	6
● Sector	12

---

## External References

---

● External References	13
-----------------------	----

# Overview

## Description

This analysis identifies malicious domains associated with the MatanBuchus threat group by leveraging hardcoded subdomains in TLS certificates. After examining historical DNS records and certificate details, the pivotal approach involves searching for certificates with specific subdomains, registered around March 2024 by GeoTrust/Digicert. This method uncovers six domains sharing a financial theme, likely hosting MatanBuchus malware infrastructure.

## Confidence

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

100 / 100

# Content

N/A

# Intrusion-Set

## Name

MatanBuchus

# Attack-Pattern

## Name

T1189

## ID

T1189

## Description

Adversaries may gain access to a system through a user visiting a website over the normal course of browsing. With this technique, the user's web browser is typically targeted for exploitation, but adversaries may also use compromised websites for non-exploitation behavior such as acquiring [Application Access Token](<https://attack.mitre.org/techniques/T1550/001>). Multiple ways of delivering exploit code to a browser exist (i.e., [Drive-by Target](<https://attack.mitre.org/techniques/T1608/004>)), including: \* A legitimate website is compromised where adversaries have injected some form of malicious code such as JavaScript, iFrames, and cross-site scripting \* Script files served to a legitimate website from a publicly writeable cloud storage bucket are modified by an adversary \* Malicious ads are paid for and served through legitimate ad providers (i.e., [Malvertising](<https://attack.mitre.org/techniques/T1583/008>)) \* Built-in web application interfaces are leveraged for the insertion of any other kind of object that can be used to display web content or contain a script that executes on the visiting client (e.g. forum posts, comments, and other user controllable web content). Often the website used by an adversary is one visited by a specific community, such as government, a particular industry, or region, where the goal is to compromise a specific user or set of users based on a shared interest. This kind of targeted campaign is often referred to a strategic web compromise or watering hole attack. There are several known examples of this occurring.(Citation: Shadowserver Strategic Web Compromise) Typical drive-by compromise process: 1. A user visits a website that is used to host the adversary controlled content. 2. Scripts automatically execute, typically searching versions of the browser and plugins for a potentially vulnerable

version. \* The user may be required to assist in this process by enabling scripting or active website components and ignoring warning dialog boxes. 3. Upon finding a vulnerable version, exploit code is delivered to the browser. 4. If exploitation is successful, then it will give the adversary code execution on the user's system unless other protections are in place. \* In some cases a second visit to the website after the initial scan is required before exploit code is delivered. Unlike [Exploit Public-Facing Application](<https://attack.mitre.org/techniques/T1190>), the focus of this technique is to exploit software on a client endpoint upon visiting a website. This will commonly give an adversary access to systems on the internal network instead of external systems that may be in a DMZ. Adversaries may also use compromised websites to deliver a user to a malicious application designed to [Steal Application Access Token](<https://attack.mitre.org/techniques/T1528>), like OAuth tokens, to gain access to protected applications and information. These malicious applications have been delivered through popups on legitimate websites.(Citation: Volexity OceanLotus Nov 2017)

**Name**

T1195.002

**ID**

T1195.002

**Description**

Adversaries may manipulate application software prior to receipt by a final consumer for the purpose of data or system compromise. Supply chain compromise of software can take place in a number of ways, including manipulation of the application source code, manipulation of the update/distribution mechanism for that software, or replacing compiled releases with a modified version. Targeting may be specific to a desired victim set or may be distributed to a broad set of consumers but only move on to additional tactics on specific victims.(Citation: Avast CCleaner3 2018)(Citation: Command Five SK 2011)

**Name**

T1583.001

**ID**

T1583.001

**Description**

Adversaries may acquire domains that can be used during targeting. Domain names are the human readable names used to represent one or more IP addresses. They can be purchased or, in some cases, acquired for free. Adversaries may use acquired domains for a variety of purposes, including for [Phishing](https://attack.mitre.org/techniques/T1566), [Drive-by Compromise](https://attack.mitre.org/techniques/T1189), and Command and Control.(Citation: CISA MSS Sep 2020) Adversaries may choose domains that are similar to legitimate domains, including through use of homoglyphs or use of a different top-level domain (TLD).(Citation: FireEye APT28)(Citation: PaypalScam) Typosquatting may be used to aid in delivery of payloads via [Drive-by Compromise](https://attack.mitre.org/techniques/T1189). Adversaries may also use internationalized domain names (IDNs) and different character sets (e.g. Cyrillic, Greek, etc.) to execute "IDN homograph attacks," creating visually similar lookalike domains used to deliver malware to victim machines.(Citation: CISA IDN ST05-016)(Citation: tt\_htrack\_fake\_domains)(Citation: tt\_obliqueRAT)(Citation: htrack\_unhcr)(Citation: lazgroup\_idn\_phishing) Adversaries may also acquire and repurpose expired domains, which may be potentially already allowlisted/trusted by defenders based on an existing reputation/history.(Citation: Categorisation\_not\_boundary)(Citation: Domain\_Steal\_CC)(Citation: Redirectors\_Domain\_Fronting)(Citation: bypass\_webproxy\_filtering) Domain registrars each maintain a publicly viewable database that displays contact information for every registered domain. Private WHOIS services display alternative information, such as their own company data, rather than the owner of the domain. Adversaries may use such private WHOIS services to obscure information about who owns a purchased domain. Adversaries may further interrupt efforts to track their infrastructure by using varied registration information and purchasing domains with different domain registrars.(Citation: Mandiant APT1)

**Name**

T1608.001

**ID**

T1608.001

**Description**



Adversaries may upload malware to third-party or adversary controlled infrastructure to make it accessible during targeting. Malicious software can include payloads, droppers, post-compromise tools, backdoors, and a variety of other malicious content. Adversaries may upload malware to support their operations, such as making a payload available to a victim network to enable [Ingress Tool Transfer](https://attack.mitre.org/techniques/T1105) by placing it on an Internet accessible web server. Malware may be placed on infrastructure that was previously purchased/rented by the adversary ([Acquire Infrastructure](https://attack.mitre.org/techniques/T1583)) or was otherwise compromised by them ([Compromise Infrastructure](https://attack.mitre.org/techniques/T1584)). Malware can also be staged on web services, such as GitHub or Pastebin, or hosted on the InterPlanetary File System (IPFS), where decentralized content storage makes the removal of malicious files difficult.(Citation: Volexity Ocean Lotus November 2020)(Citation: Talos IPFS 2022) Adversaries may upload backdoored files, such as application binaries, virtual machine images, or container images, to third-party software stores or repositories (ex: GitHub, CNET, AWS Community AMIs, Docker Hub). By chance encounter, victims may directly download/install these backdoored files via [User Execution](https://attack.mitre.org/techniques/T1204). [Masquerading](https://attack.mitre.org/techniques/T1036) may increase the chance of users mistakenly executing these files.

**Name**

T1608.004

**ID**

T1608.004

**Description**

Adversaries may prepare an operational environment to infect systems that visit a website over the normal course of browsing. Endpoint systems may be compromised through browsing to adversary controlled sites, as in [Drive-by Compromise](https://attack.mitre.org/techniques/T1189). In such cases, the user's web browser is typically targeted for exploitation (often not requiring any extra user interaction once landing on the site), but adversaries may also set up websites for non-exploitation behavior such as [Application Access Token](https://attack.mitre.org/techniques/T1550/001). Prior to [Drive-by Compromise](https://attack.mitre.org/techniques/T1189), adversaries must stage resources needed to deliver that exploit to users who browse to an adversary controlled site. Drive-by content can be staged on adversary controlled infrastructure that has been acquired ([Acquire Infrastructure](https://attack.mitre.org/techniques/T1583)) or previously

compromised ([Compromise Infrastructure](https://attack.mitre.org/techniques/T1584)). Adversaries may upload or inject malicious web content, such as [JavaScript](https://attack.mitre.org/techniques/T1059/007), into websites.(Citation: FireEye CFR Watering Hole 2012)(Citation: Gallagher 2015) This may be done in a number of ways, including: \* Inserting malicious scripts into web pages or other user controllable web content such as forum posts \* Modifying script files served to websites from publicly writeable cloud storage buckets \* Crafting malicious web advertisements and purchasing ad space on a website through legitimate ad providers (i.e., [Malvertising](https://attack.mitre.org/techniques/T1583/008)) In addition to staging content to exploit a user's web browser, adversaries may also stage scripting content to profile the user's browser (as in [Gather Victim Host Information](https://attack.mitre.org/techniques/T1592)) to ensure it is vulnerable prior to attempting exploitation.(Citation: ATT ScanBox) Websites compromised by an adversary and used to stage a drive-by may be ones visited by a specific community, such as government, a particular industry, or region, where the goal is to compromise a specific user or set of users based on a shared interest. This kind of targeted campaign is referred to a strategic web compromise or watering hole attack. Adversaries may purchase domains similar to legitimate domains (ex: homoglyphs, typosquatting, different top-level domain, etc.) during acquisition of infrastructure ([Domains](https://attack.mitre.org/techniques/T1583/001)) to help facilitate [Drive-by Compromise](https://attack.mitre.org/techniques/T1189).

**Name**

T1071.004

**ID**

T1071.004

**Description**

Adversaries may communicate using the Domain Name System (DNS) application layer protocol to avoid detection/network filtering by blending in with existing traffic. Commands to the remote system, and often the results of those commands, will be embedded within the protocol traffic between the client and server. The DNS protocol serves an administrative function in computer networking and thus may be very common in environments. DNS traffic may also be allowed even before network authentication is completed. DNS packets contain many fields and headers in which data can be concealed. Often known as DNS tunneling, adversaries may abuse DNS to communicate with systems

under their control within a victim network while also mimicking normal, expected traffic. (Citation: PAN DNS Tunneling)(Citation: Medium DnsTunneling)

**Name**

T1133

**ID**

T1133

**Description**

Adversaries may leverage external-facing remote services to initially access and/or persist within a network. Remote services such as VPNs, Citrix, and other access mechanisms allow users to connect to internal enterprise network resources from external locations. There are often remote service gateways that manage connections and credential authentication for these services. Services such as [Windows Remote Management] (<https://attack.mitre.org/techniques/T1021/006>) and [VNC](<https://attack.mitre.org/techniques/T1021/005>) can also be used externally.(Citation: MacOS VNC software for Remote Desktop) Access to [Valid Accounts](<https://attack.mitre.org/techniques/T1078>) to use the service is often a requirement, which could be obtained through credential phishing or by obtaining the credentials from users after compromising the enterprise network.(Citation: Volexity Virtual Private Keylogging) Access to remote services may be used as a redundant or persistent access mechanism during an operation. Access may also be gained through an exposed service that doesn't require authentication. In containerized environments, this may include an exposed Docker API, Kubernetes API server, kubelet, or web application such as the Kubernetes dashboard.(Citation: Trend Micro Exposed Docker Server)(Citation: Unit 42 Hildegard Malware)

# Sector

**Name**

Finance

**Description**

Public and private entities involved in the allocation of assets and liabilities over space and time.

# External References

- 
- <https://www.embeeresearch.io/tls-certificates-for-threat-intel-dns/>
- 
- <https://otx.alienvault.com/pulse/660fc8210f08bae3de5e2d01>