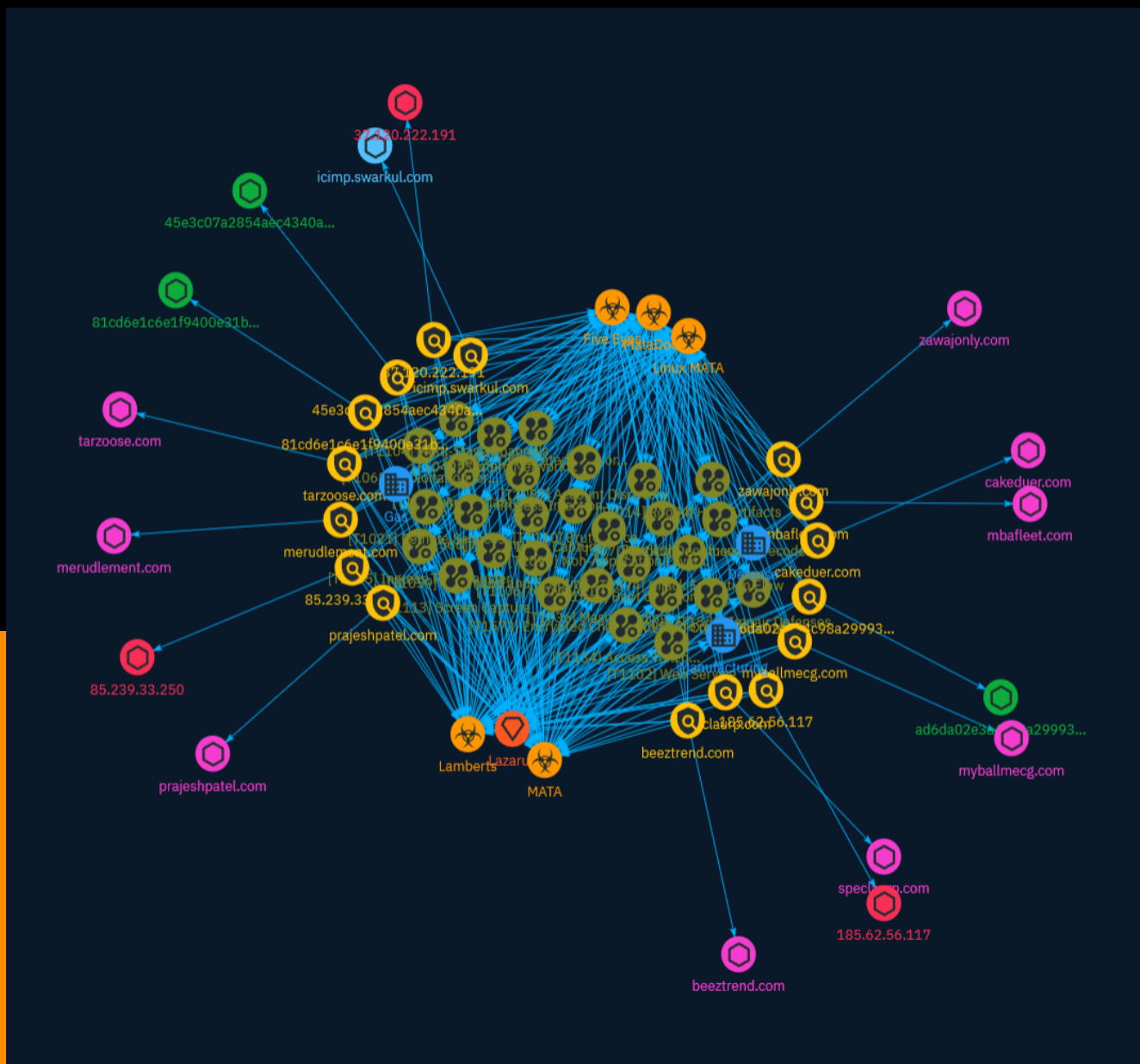


# NETMANAGEIT

## Intelligence Report

# Updated MATA attacks industrial companies in Eastern Europe



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# Overview

## Description

Expanding Kaspersky's research scope, Kaspersky investigated and discovered additional, new, active actor campaigns with full infection chains, including an implant designed to work within air-gapped networks over USB sticks, as well as a Linux MATA backdoor.

## Confidence

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

15 / 100

# Content

N/A

# Attack-Pattern

**Name**

Boot or Logon Autostart Execution

**ID**

T1547

**Description**

Adversaries may configure system settings to automatically execute a program during system boot or logon to maintain persistence or gain higher-level privileges on compromised systems. Operating systems may have mechanisms for automatically running a program on system boot or account logon.(Citation: Microsoft Run Key)(Citation: MSDN Authentication Packages)(Citation: Microsoft TimeProvider)(Citation: Cylance Reg Persistence Sept 2013)(Citation: Linux Kernel Programming) These mechanisms may include automatically executing programs that are placed in specially designated directories or are referenced by repositories that store configuration information, such as the Windows Registry. An adversary may achieve the same goal by modifying or extending features of the kernel. Since some boot or logon autostart programs run with higher privileges, an adversary may leverage these to elevate privileges.

**Name**

Input Capture

**ID**

T1056

**Description**

Adversaries may use methods of capturing user input to obtain credentials or collect information. During normal system usage, users often provide credentials to various different locations, such as login pages/portals or system dialog boxes. Input capture mechanisms may be transparent to the user (e.g. [Credential API Hooking](https://attack.mitre.org/techniques/T1056/004)) or rely on deceiving the user into providing input into what they believe to be a genuine service (e.g. [Web Portal Capture](https://attack.mitre.org/techniques/T1056/003)).

**Name**

Brute Force

**ID**

T1110

**Description**

Adversaries may use brute force techniques to gain access to accounts when passwords are unknown or when password hashes are obtained. Without knowledge of the password for an account or set of accounts, an adversary may systematically guess the password using a repetitive or iterative mechanism. Brute forcing passwords can take place via interaction with a service that will check the validity of those credentials or offline against previously acquired credential data, such as password hashes. Brute forcing credentials may take place at various points during a breach. For example, adversaries may attempt to brute force access to [Valid Accounts](https://attack.mitre.org/techniques/T1078) within a victim environment leveraging knowledge gathered from other post-compromise behaviors such as [OS Credential Dumping](https://attack.mitre.org/techniques/T1003), [Account Discovery](https://attack.mitre.org/techniques/T1087), or [Password Policy Discovery](https://attack.mitre.org/techniques/T1201). Adversaries may also combine brute forcing activity with behaviors such as [External Remote Services](https://attack.mitre.org/techniques/T1133) as part of Initial Access.

**Name**

Masquerading

**ID**

T1036

**Description**

Adversaries may attempt to manipulate features of their artifacts to make them appear legitimate or benign to users and/or security tools. Masquerading occurs when the name or location of an object, legitimate or malicious, is manipulated or abused for the sake of evading defenses and observation. This may include manipulating file metadata, tricking users into misidentifying the file type, and giving legitimate task or service names. Renaming abusible system utilities to evade security monitoring is also a form of [Masquerading](<https://attack.mitre.org/techniques/T1036>). (Citation: LOLBAS Main Site)

**Name**

Process Injection

**ID**

T1055

**Description**

Adversaries may inject code into processes in order to evade process-based defenses as well as possibly elevate privileges. Process injection is a method of executing arbitrary code in the address space of a separate live process. Running code in the context of another process may allow access to the process's memory, system/network resources, and possibly elevated privileges. Execution via process injection may also evade detection from security products since the execution is masked under a legitimate process. There are many different ways to inject code into a process, many of which abuse legitimate functionalities. These implementations exist for every major OS but are typically platform specific. More sophisticated samples may perform multiple process injections to segment modules and further evade detection, utilizing named pipes or other inter-process communication (IPC) mechanisms as a communication channel.

**Name**



Hide Artifacts

**ID**

T1564

**Description**

Adversaries may attempt to hide artifacts associated with their behaviors to evade detection. Operating systems may have features to hide various artifacts, such as important system files and administrative task execution, to avoid disrupting user work environments and prevent users from changing files or features on the system. Adversaries may abuse these features to hide artifacts such as files, directories, user accounts, or other system activity to evade detection.(Citation: Sofacy Komplex Trojan) (Citation: Cybereason OSX Pirrit)(Citation: MalwareBytes ADS July 2015) Adversaries may also attempt to hide artifacts associated with malicious behavior by creating computing regions that are isolated from common security instrumentation, such as through the use of virtualization technology.(Citation: Sophos Ragnar May 2020)

**Name**

Encrypted Channel

**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**

## Audio Capture

**ID**

T1123

**Description**

An adversary can leverage a computer's peripheral devices (e.g., microphones and webcams) or applications (e.g., voice and video call services) to capture audio recordings for the purpose of listening into sensitive conversations to gather information. Malware or scripts may be used to interact with the devices through an available API provided by the operating system or an application to capture audio. Audio files may be written to disk and exfiltrated later.

**Name**

Indicator Removal

**ID**

T1070

**Description**

Adversaries may delete or modify artifacts generated within systems to remove evidence of their presence or hinder defenses. Various artifacts may be created by an adversary or something that can be attributed to an adversary's actions. Typically these artifacts are used as defensive indicators related to monitored events, such as strings from downloaded files, logs that are generated from user actions, and other data analyzed by defenders. Location, format, and type of artifact (such as command or login history) are often specific to each platform. Removal of these indicators may interfere with event collection, reporting, or other processes used to detect intrusion activity. This may compromise the integrity of security solutions by causing notable events to go unreported. This activity may also impede forensic analysis and incident response, due to lack of sufficient data to determine what occurred.

**Name**

Phishing

**ID**

T1566

**Description**

Adversaries may send phishing messages to gain access to victim systems. All forms of phishing are electronically delivered social engineering. Phishing can be targeted, known as spearphishing. In spearphishing, a specific individual, company, or industry will be targeted by the adversary. More generally, adversaries can conduct non-targeted phishing, such as in mass malware spam campaigns. Adversaries may send victims emails containing malicious attachments or links, typically to execute malicious code on victim systems. Phishing may also be conducted via third-party services, like social media platforms. Phishing may also involve social engineering techniques, such as posing as a trusted source, as well as evasive techniques such as removing or manipulating emails or metadata/headers from compromised accounts being abused to send messages (e.g., [Email Hiding Rules](<https://attack.mitre.org/techniques/T1564/008>)).(Citation: Microsoft OAuth Spam 2022)(Citation: Palo Alto Unit 42 VBA Infostealer 2014) Another way to accomplish this is by forging or spoofing(Citation: Proofpoint-spoof) the identity of the sender which can be used to fool both the human recipient as well as automated security tools.(Citation: cyberproof-double-bounce) Victims may also receive phishing messages that instruct them to call a phone number where they are directed to visit a malicious URL, download malware,(Citation: sygnia Luna Month)(Citation: CISA Remote Monitoring and Management Software) or install adversary-accessible remote management tools onto their computer (i.e., [User Execution](<https://attack.mitre.org/techniques/T1204>)).(Citation: Unit42 Luna Moth)

**Name**

Rootkit

**ID**

T1014

**Description**

Adversaries may use rootkits to hide the presence of programs, files, network connections, services, drivers, and other system components. Rootkits are programs that hide the existence of malware by intercepting/hooking and modifying operating system API calls that supply system information. (Citation: Symantec Windows Rootkits) Rootkits or rootkit enabling functionality may reside at the user or kernel level in the operating system or lower, to include a hypervisor, Master Boot Record, or [System Firmware](https://attack.mitre.org/techniques/T1542/001). (Citation: Wikipedia Rootkit) Rootkits have been seen for Windows, Linux, and Mac OS X systems. (Citation: CrowdStrike Linux Rootkit) (Citation: BlackHat Mac OSX Rootkit)

**Name**

Proxy

**ID**

T1090

**Description**

Adversaries may use a connection proxy to direct network traffic between systems or act as an intermediary for network communications to a command and control server to avoid direct connections to their infrastructure. Many tools exist that enable traffic redirection through proxies or port redirection, including [HTRAN](https://attack.mitre.org/software/S0040), ZXProxy, and ZXPortMap. (Citation: Trend Micro APT Attack Tools) Adversaries use these types of proxies to manage command and control communications, reduce the number of simultaneous outbound network connections, provide resiliency in the face of connection loss, or to ride over existing trusted communications paths between victims to avoid suspicion. Adversaries may chain together multiple proxies to further disguise the source of malicious traffic. Adversaries can also take advantage of routing schemes in Content Delivery Networks (CDNs) to proxy command and control traffic.

**Name**

Exploitation for Privilege Escalation

**ID**

T1068

**Description**

Adversaries may exploit software vulnerabilities in an attempt to elevate privileges. Exploitation of a software vulnerability occurs when an adversary takes advantage of a programming error in a program, service, or within the operating system software or kernel itself to execute adversary-controlled code. Security constructs such as permission levels will often hinder access to information and use of certain techniques, so adversaries will likely need to perform privilege escalation to include use of software exploitation to circumvent those restrictions. When initially gaining access to a system, an adversary may be operating within a lower privileged process which will prevent them from accessing certain resources on the system. Vulnerabilities may exist, usually in operating system components and software commonly running at higher permissions, that can be exploited to gain higher levels of access on the system. This could enable someone to move from unprivileged or user level permissions to SYSTEM or root permissions depending on the component that is vulnerable. This could also enable an adversary to move from a virtualized environment, such as within a virtual machine or container, onto the underlying host. This may be a necessary step for an adversary compromising an endpoint system that has been properly configured and limits other privilege escalation methods. Adversaries may bring a signed vulnerable driver onto a compromised machine so that they can exploit the vulnerability to execute code in kernel mode. This process is sometimes referred to as Bring Your Own Vulnerable Driver (BYOVD). (Citation: ESET InvisiMole June 2020) (Citation: Unit42 AcidBox June 2020) Adversaries may include the vulnerable driver with files delivered during Initial Access or download it to a compromised system via [Ingress Tool Transfer](<https://attack.mitre.org/techniques/T1105>) or [Lateral Tool Transfer](<https://attack.mitre.org/techniques/T1570>).

**Name**

Impair Defenses

**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**

Native API

**ID**

T1106

**Description**

Adversaries may interact with the native OS application programming interface (API) to execute behaviors. Native APIs provide a controlled means of calling low-level OS services within the kernel, such as those involving hardware/devices, memory, and processes. (Citation: NT API Windows)(Citation: Linux Kernel API) These native APIs are leveraged by the OS during system boot (when other system components are not yet initialized) as well as carrying out tasks and requests during routine operations. Native API functions (such as `NtCreateProcess`) may be directed invoked via system calls / syscalls, but these features are also often exposed to user-mode applications via interfaces and libraries.(Citation: OutFlank System Calls)(Citation: CyberBit System Calls)(Citation: MDSec System Calls) For example, functions such as the Windows API `CreateProcess()` or GNU `fork()` will allow programs and scripts to start other processes.(Citation: Microsoft CreateProcess)(Citation: GNU Fork) This may allow API callers to execute a binary, run a CLI command, load modules, etc. as thousands of similar API functions exist for various system operations. (Citation: Microsoft Win32)(Citation: LIBC)(Citation: GLIBC) Higher level software frameworks, such as Microsoft .NET and macOS Cocoa, are also available to interact with native APIs. These frameworks typically provide language wrappers/abstractions to API functionalities and are designed for ease-of-use/portability of code.(Citation: Microsoft NET)(Citation: Apple Core Services)(Citation: MACOS Cocoa)(Citation: macOS Foundation)

Adversaries may abuse these OS API functions as a means of executing behaviors. Similar to [Command and Scripting Interpreter](<https://attack.mitre.org/techniques/T1059>), the native API and its hierarchy of interfaces provide mechanisms to interact with and utilize various components of a victimized system. While invoking API functions, adversaries may also attempt to bypass defensive tools (ex: unhooking monitored functions via [Disable or Modify Tools](<https://attack.mitre.org/techniques/T1562/001>)).

**Name**

Obfuscated Files or Information

**ID**

T1027

**Description**

Adversaries may attempt to make an executable or file difficult to discover or analyze by encrypting, encoding, or otherwise obfuscating its contents on the system or in transit. This is common behavior that can be used across different platforms and the network to evade defenses. Payloads may be compressed, archived, or encrypted in order to avoid detection. These payloads may be used during Initial Access or later to mitigate detection. Sometimes a user's action may be required to open and [Deobfuscate/Decode Files or Information](<https://attack.mitre.org/techniques/T1140>) for [User Execution](<https://attack.mitre.org/techniques/T1204>). The user may also be required to input a password to open a password protected compressed/encrypted file that was provided by the adversary. (Citation: Volexity PowerDuke November 2016) Adversaries may also use compressed or archived scripts, such as JavaScript. Portions of files can also be encoded to hide the plain-text strings that would otherwise help defenders with discovery. (Citation: Linux/Cdorked.A We Live Security Analysis) Payloads may also be split into separate, seemingly benign files that only reveal malicious functionality when reassembled. (Citation: Carbon Black Obfuscation Sept 2016) Adversaries may also abuse [Command Obfuscation](<https://attack.mitre.org/techniques/T1027/010>) to obscure commands executed from payloads or directly via [Command and Scripting Interpreter](<https://attack.mitre.org/techniques/T1059>). Environment variables, aliases, characters, and other platform/language specific semantics can be used to evade signature based detections and application control mechanisms. (Citation: FireEye Obfuscation June 2017) (Citation: FireEye Revoke-Obfuscation July 2017)(Citation: PaloAlto EncodedCommand March 2017)

**Name**

## Hijack Execution Flow

**ID**

T1574

**Description**

Adversaries may execute their own malicious payloads by hijacking the way operating systems run programs. Hijacking execution flow can be for the purposes of persistence, since this hijacked execution may reoccur over time. Adversaries may also use these mechanisms to elevate privileges or evade defenses, such as application control or other restrictions on execution. There are many ways an adversary may hijack the flow of execution, including by manipulating how the operating system locates programs to be executed. How the operating system locates libraries to be used by a program can also be intercepted. Locations where the operating system looks for programs/resources, such as file directories and in the case of Windows the Registry, could also be poisoned to include malicious payloads.

**Name**

Ingress Tool Transfer

**ID**

T1105

**Description**

Adversaries may transfer tools or other files from an external system into a compromised environment. Tools or files may be copied from an external adversary-controlled system to the victim network through the command and control channel or through alternate protocols such as [ftp](<https://attack.mitre.org/software/S0095>). Once present, adversaries may also transfer/spread tools between victim devices within a compromised environment (i.e. [Lateral Tool Transfer](<https://attack.mitre.org/techniques/T1570>)). Files can also be transferred using various [Web Service](<https://attack.mitre.org/techniques/T1102>)s as well as native or otherwise present tools on the victim system.(Citation: PTSecurity Cobalt Dec 2016) On Windows, adversaries may use various utilities to download tools, such as `copy`,



`finger`, [certutil](https://attack.mitre.org/software/S0160), and [PowerShell](https://attack.mitre.org/techniques/T1059/001) commands such as `IEX(New-Object Net.WebClient).downloadString()` and `Invoke-WebRequest`. On Linux and macOS systems, a variety of utilities also exist, such as `curl`, `scp`, `sftp`, `tftp`, `rsync`, `finger`, and `wget`. (Citation: t1105\_lolbas)

**Name**

Non-Application Layer Protocol

**ID**

T1095

**Description**

Adversaries may use an OSI non-application layer protocol for communication between host and C2 server or among infected hosts within a network. The list of possible protocols is extensive.(Citation: Wikipedia OSI) Specific examples include use of network layer protocols, such as the Internet Control Message Protocol (ICMP), transport layer protocols, such as the User Datagram Protocol (UDP), session layer protocols, such as Socket Secure (SOCKS), as well as redirected/tunneled protocols, such as Serial over LAN (SOL). ICMP communication between hosts is one example.(Citation: Cisco Synful Knock Evolution) Because ICMP is part of the Internet Protocol Suite, it is required to be implemented by all IP-compatible hosts.(Citation: Microsoft ICMP) However, it is not as commonly monitored as other Internet Protocols such as TCP or UDP and may be used by adversaries to hide communications.

**Name**

Access Token Manipulation

**ID**

T1134

**Description**

Adversaries may modify access tokens to operate under a different user or system security context to perform actions and bypass access controls. Windows uses access tokens to determine the ownership of a running process. A user can manipulate access tokens to make a running process appear as though it is the child of a different process or belongs to someone other than the user that started the process. When this occurs, the process also takes on the security context associated with the new token. An adversary can use built-in Windows API functions to copy access tokens from existing processes; this is known as token stealing. These token can then be applied to an existing process (i.e. [Token Impersonation/Theft](https://attack.mitre.org/techniques/T1134/001)) or used to spawn a new process (i.e. [Create Process with Token](https://attack.mitre.org/techniques/T1134/002)). An adversary must already be in a privileged user context (i.e. administrator) to steal a token. However, adversaries commonly use token stealing to elevate their security context from the administrator level to the SYSTEM level. An adversary can then use a token to authenticate to a remote system as the account for that token if the account has appropriate permissions on the remote system.(Citation: Pentestlab Token Manipulation) Any standard user can use the ``runas`` command, and the Windows API functions, to create impersonation tokens; it does not require access to an administrator account. There are also other mechanisms, such as Active Directory fields, that can be used to modify access tokens.

**Name**

Multi-Stage Channels

**ID**

T1104

**Description**

Adversaries may create multiple stages for command and control that are employed under different conditions or for certain functions. Use of multiple stages may obfuscate the command and control channel to make detection more difficult. Remote access tools will call back to the first-stage command and control server for instructions. The first stage may have automated capabilities to collect basic host information, update tools, and upload additional files. A second remote access tool (RAT) could be uploaded at that point to redirect the host to the second-stage command and control server. The second stage will likely be more fully featured and allow the adversary to interact with the system through a reverse shell and additional RAT features. The different stages will likely be hosted separately with no overlapping infrastructure. The loader may also have backup

first-stage callbacks or [Fallback Channels](<https://attack.mitre.org/techniques/T1008>) in case the original first-stage communication path is discovered and blocked.

**Name**

Create Account

**ID**

T1136

**Description**

Adversaries may create an account to maintain access to victim systems. With a sufficient level of access, creating such accounts may be used to establish secondary credentialed access that do not require persistent remote access tools to be deployed on the system. Accounts may be created on the local system or within a domain or cloud tenant. In cloud environments, adversaries may create accounts that only have access to specific services, which can reduce the chance of detection.

**Name**

Command and Scripting Interpreter

**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**

Account Discovery

**ID**

T1087

**Description**

Adversaries may attempt to get a listing of valid accounts, usernames, or email addresses on a system or within a compromised environment. This information can help adversaries determine which accounts exist, which can aid in follow-on behavior such as brute-forcing, spear-phishing attacks, or account takeovers (e.g., [Valid Accounts](<https://attack.mitre.org/techniques/T1078>)). Adversaries may use several methods to enumerate accounts, including abuse of existing tools, built-in commands, and potential misconfigurations that leak account names and roles or permissions in the targeted environment. For examples, cloud environments typically provide easily accessible interfaces to obtain user lists. On hosts, adversaries can use default [PowerShell](<https://attack.mitre.org/techniques/T1059/001>) and other command line functionality to identify accounts. Information about email addresses and accounts may also be extracted by searching an infected system's files.

**Name**

Web Service

**ID**

T1102

**Description**

Adversaries may use an existing, legitimate external Web service as a means for relaying data to/from a compromised system. Popular websites and social media acting as a mechanism for C2 may give a significant amount of cover due to the likelihood that hosts within a network are already communicating with them prior to a compromise. Using common services, such as those offered by Google or Twitter, makes it easier for adversaries to hide in expected noise. Web service providers commonly use SSL/TLS encryption, giving adversaries an added level of protection. Use of Web services may also protect back-end C2 infrastructure from discovery through malware binary analysis while also enabling operational resiliency (since this infrastructure may be dynamically changed).

**Name**

Remote Services

**ID**

T1021

**Description**

Adversaries may use [Valid Accounts](<https://attack.mitre.org/techniques/T1078>) to log into a service that accepts remote connections, such as telnet, SSH, and VNC. The adversary may then perform actions as the logged-on user. In an enterprise environment, servers and workstations can be organized into domains. Domains provide centralized identity management, allowing users to login using one set of credentials across the entire network. If an adversary is able to obtain a set of valid domain credentials, they could login to many different machines using remote access protocols such as secure shell (SSH) or remote desktop protocol (RDP).(Citation: SSH Secure Shell)(Citation: TechNet Remote Desktop Services) They could also login to accessible SaaS or IaaS services, such as those that federate their identities to the domain. Legitimate applications (such as [Software Deployment Tools](<https://attack.mitre.org/techniques/T1072>) and other administrative programs) may utilize [Remote Services](<https://attack.mitre.org/techniques/T1021>) to

access remote hosts. For example, Apple Remote Desktop (ARD) on macOS is native software used for remote management. ARD leverages a blend of protocols, including [VNC](<https://attack.mitre.org/techniques/T1021/005>) to send the screen and control buffers and [SSH](<https://attack.mitre.org/techniques/T1021/004>) for secure file transfer. (Citation: Remote Management MDM macOS)(Citation: Kickstart Apple Remote Desktop commands)(Citation: Apple Remote Desktop Admin Guide 3.3) Adversaries can abuse applications such as ARD to gain remote code execution and perform lateral movement. In versions of macOS prior to 10.14, an adversary can escalate an SSH session to an ARD session which enables an adversary to accept TCC (Transparency, Consent, and Control) prompts without user interaction and gain access to data.(Citation: FireEye 2019 Apple Remote Desktop)(Citation: Lockboxx ARD 2019)(Citation: Kickstart Apple Remote Desktop commands)

**Name**

Deobfuscate/Decode Files or Information

**ID**

T1140

**Description**

Adversaries may use [Obfuscated Files or Information](<https://attack.mitre.org/techniques/T1027>) to hide artifacts of an intrusion from analysis. They may require separate mechanisms to decode or deobfuscate that information depending on how they intend to use it. Methods for doing that include built-in functionality of malware or by using utilities present on the system. One such example is the use of [certutil](<https://attack.mitre.org/software/S0160>) to decode a remote access tool portable executable file that has been hidden inside a certificate file.(Citation: Malwarebytes Targeted Attack against Saudi Arabia) Another example is using the Windows `copy /b`` command to reassemble binary fragments into a malicious payload.(Citation: Carbon Black Obfuscation Sept 2016) Sometimes a user's action may be required to open it for deobfuscation or decryption as part of [User Execution](<https://attack.mitre.org/techniques/T1204>). The user may also be required to input a password to open a password protected compressed/encrypted file that was provided by the adversary. (Citation: Volexity PowerDuke November 2016)

**Name**

## Screen Capture

**ID**

T1113

**Description**

Adversaries may attempt to take screen captures of the desktop to gather information over the course of an operation. Screen capturing functionality may be included as a feature of a remote access tool used in post-compromise operations. Taking a screenshot is also typically possible through native utilities or API calls, such as `\CopyFromScreen``, `\xwd``, or `\screencapture``.(Citation: CopyFromScreen .NET)(Citation: Antiquated Mac Malware)

**Name**

System Network Connections Discovery

**ID**

T1049

**Description**

Adversaries may attempt to get a listing of network connections to or from the compromised system they are currently accessing or from remote systems by querying for information over the network. An adversary who gains access to a system that is part of a cloud-based environment may map out Virtual Private Clouds or Virtual Networks in order to determine what systems and services are connected. The actions performed are likely the same types of discovery techniques depending on the operating system, but the resulting information may include details about the networked cloud environment relevant to the adversary's goals. Cloud providers may have different ways in which their virtual networks operate.(Citation: Amazon AWS VPC Guide)(Citation: Microsoft Azure Virtual Network Overview)(Citation: Google VPC Overview) Similarly, adversaries who gain access to network devices may also perform similar discovery activities to gather information about connected systems and services. Utilities and commands that acquire this information include `[netstat]`(<https://attack.mitre.org/software/S0104>), "net use," and "net

session" with [Net](<https://attack.mitre.org/software/S0039>). In Mac and Linux, [netstat](<https://attack.mitre.org/software/S0104>) and `lsof` can be used to list current connections. `who -a` and `w` can be used to show which users are currently logged in, similar to "net session". Additionally, built-in features native to network devices and [Network Device CLI](<https://attack.mitre.org/techniques/T1059/008>) may be used (e.g. `show ip sockets`, `show tcp brief`). (Citation: US-CERT-TA18-106A)



# Sector

**Name**

Manufacturing

**Description**

Private entities transforming and selling goods, products and equipment which are not included in other activity sectors.

**Name**

Gas

**Description**

Public or private entities involved in exploration, extraction, refining, transporting and marketing of natural gas products.

**Name**

Defense

**Description**

Public and private entities involved in the conception and production of weapons and the planning and conducting of military operations.

# Indicator

**Name**

speclaurp.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'speclaurp.com']

**Name**

45e3c07a2854aec4340a23690cf901b50fe2618b2c168ee4294386e26ec76def

**Description**

SHA256 of fed5ff0f9460fea41a8278ffa4c2ddb

**Pattern Type**

stix

**Pattern**

[file:hashes!'SHA-256' =  
'45e3c07a2854aec4340a23690cf901b50fe2618b2c168ee4294386e26ec76def']

**Name**

ad6da02e3a4c98a29993cceb7a10e7af002fb00df0cd2228f83aea4ccfdf94b6

**Description**

kernel32\_dll\_xor\_exe\_key\_1 SHA256 of a966668feca72d8dddf3c737d4908a29

**Pattern Type**

stix

**Pattern**

[file:hashes!'SHA-256' =  
'ad6da02e3a4c98a29993cceb7a10e7af002fb00df0cd2228f83aea4ccfdf94b6']

**Name**

85.239.33.250

**Description**

CC=RU ASN=AS200019 Alexhost Srl

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '85.239.33.250']

**Name**

icimp.swarkul.com

**Pattern Type**

stix

**Pattern**

[hostname:value = 'icimp.swarkul.com']

**Name**

185.62.56.117

**Description**

CC=NL ASN=AS62370 Snel.com B.V.

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '185.62.56.117']

**Name**

81cd6e1c6e1f9400e31b122dfa2c7acf274192ec560a9d29190a70abd04b20e2

**Description**

SHA256 of b458e336911f092177a64d07b0bf1c76

**Pattern Type**

stix

**Pattern**

[file:hashes:'SHA-256' =  
'81cd6e1c6e1f9400e31b122dfa2c7acf274192ec560a9d29190a70abd04b20e2']

**Name**

mbafleet.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'mbafleet.com']

**Name**

prajeshpatel.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'prajeshpatel.com']

**Name**

37.120.222.191

**Description**

```

**ISP:** M247 Europe SRL **OS:** None ----- Hostnames:
----- Domains: ----- Services: **22:** ~~~ SSH-2.0-
OpenSSH_8.2p1 Ubuntu-4ubuntu0.8 Key type: ssh-rsa Key:
AAAAB3NzaC1yc2EAAAADAQABAAQBAQC+Y1gPHIG0t9d3tzujS1tZJe+FcwZ4nLSqCZpfqna8S4ld
KTWu+1ZZMEejg8O5zl6LU9/Q4PmIIPvPrjC2/zzwT563rq8GiekMxefWs6R7bDMfkq6S2byOlyYI
L66PcfMfMb6awv2ato2QsETDDBdOfPl/y5ty0Ci+9K1FsSTRHYm7c4Bzg3NIH2A8dM1Wn9I2tMCG
1L8b30PTubQyCifwmVWoBrez27jakNC+8bvFHqav2DJthumUVFvX6Ke68bGkweJP9Lrfkve3cU9Q
djmflHO+uVm9VYtkijJleiRosc0cXYnMtr81364/WCfGTWhGEvcHYOt2kcgaz0CAOgVd Fingerprint:
94:d9:b3:8f:ea:d8:95:bc:cf:3b:16:06:de:a2:e0:cf 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 ~~~
-----

```

**Pattern Type**

stix

**Pattern**

[ipv4-addr:value = '37.120.222.191']

**Name**

myballmecg.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'myballmecg.com']

**Name**

merudlement.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'merudlement.com']

**Name**

zawajonly.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'zawajonly.com']

**Name**

beeztrend.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'beeztrend.com']

**Name**

tarzoose.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'tarzoose.com']

**Name**

cakeduer.com

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'cakeduer.com']



# Intrusion-Set

**Name**

Lazarus

# Malware

**Name**

MataDoor

**Name**

MATA

**Name**

Five Eyes

**Name**

Linux MATA

**Name**

Lamberts

# Domain-Name

## Value

tarzoose.com

speclaurp.com

cakeduer.com

myballmecg.com

merudlement.com

mbafleet.com

beeztrend.com

zawajonly.com

prajeshpatel.com

# StixFile

## Value

45e3c07a2854aec4340a23690cf901b50fe2618b2c168ee4294386e26ec76def

ad6da02e3a4c98a29993cceb7a10e7af002fb00df0cd2228f83aea4ccfdf94b6

81cd6e1c6e1f9400e31b122dfa2c7acf274192ec560a9d29190a70abd04b20e2

# Hostname

## Value

icimp.swarkul.com

# IPv4-Addr

**Value**

85.239.33.250

37.120.222.191

185.62.56.117

# External References

- 
- <https://otx.alienvault.com/pulse/6532ff7bdf2fef73982ab50d>
- 
- [https://media.kasperskycontenthub.com/wp-content/uploads/sites/43/2023/10/18092216/Updated-MATA-attacks-Eastern-Europe\\_full-report\\_ENG.pdf](https://media.kasperskycontenthub.com/wp-content/uploads/sites/43/2023/10/18092216/Updated-MATA-attacks-Eastern-Europe_full-report_ENG.pdf)