INTRUSIVE

MuddyWater

MOIS Cyber Espionage Unit | Henryk Sienkiewicz | Static Kitten

Active	13+ years
Last Updated	March 15, 2026
Attack Pattern	Spear-phishing → RMM/C2 → Exfiltration
Assessed Confidence	Medium

9 Years

Of Operations Against Middle Eastern Governments, Telecommunications, and Critical Infrastructure

01 Intelligence & Identity

ATTRIBUTION CONFIDENCE: MEDIUM

MuddyWater is assessed with moderate confidence to be a subordinate element within Iran's Ministry of Intelligence and Security (MOIS), operating as a contractor-driven espionage unit rather than a directly staffed government service.

Background

MuddyWater is a cyber espionage unit with relatively short operational pedigree. The unit's activities have been tracked since approximately 2017, though its infrastructure and tooling suggest operations may have begun earlier. The group is assessed to be subordinate to Iran's Ministry of Intelligence and Security (MOIS), operating as a contractor-driven unit rather than a directly staffed government service.

MuddyWater's operations are consistent with Iranian state-sponsored espionage priorities, including collection against foreign ministries, telecommunications providers, and critical infrastructure sectors in the Middle East and beyond. The group has been observed leveraging commercial remote access tools, open-source offensive frameworks, and living-off-the-land techniques to maintain persistence and evade detection.

Victim Profile

Middle East Government Telecommunications Oil & Gas Defense Contractors Diplomatic Missions Financial Institutions Critical Infrastructure Energy Sector Aerospace Manufacturing Technology Sector Academic Institutions

Quick Facts

Also Known As	Mercury, Static Kitten, Seedworm, TEMP.Zagros, Boggy Serpens
Active Since	~2017 (possibly earlier)
Parent Organization	MOIS (Ministry of Intelligence and Security)
Unit Designation	Unit 74 (Shahid Kaveh Group)
Primary Mission	Espionage, Intelligence Collection
Operational Tempo	Continuous, 24/7
Target Regions	Middle East, Central Asia, Europe, North America
Target Sectors	Government, Telecommunications, Energy, Defense, Technology
Typical Dwell Time	3–6 months
Initial Access	Spear-phishing, Exploitation of Public-Facing Applications
Persistence	Scheduled Tasks, Registry Run Keys, Web Shells
Lateral Movement	Remote Desktop Protocol, PsExec, Pass-the-Hash
Exfiltration	Encrypted Channels, Cloud Storage Services
Tooling	Custom Backdoors, Open-Source Frameworks, Living-off-the-Land Binaries
Malware Families	POWERSTATS, Mori, Seedworm, TEMPCopy
Infrastructure	Compromised Legitimate Servers, Bulletproof Hosting, Dynamic DNS
Operational Security	Moderate to High
Attribution Confidence	Medium
Assessed Sponsor	Iran (MOIS)

02 Targeting Profile

Industries

Telecommunications Government Energy Defense Technology Financial Services Aerospace Manufacturing Academic Institutions Diplomatic Missions Critical Infrastructure Oil & Gas Pharmaceuticals

Regions

Middle East (Primary) Central Asia Europe North America Israel Gulf Cooperation Council (GCC) Countries

Technologies

Microsoft Exchange Microsoft SharePoint Microsoft Active Directory Cloud Infrastructure (AWS, Azure) Virtual Private Networks (VPNs) Remote Desktop Protocol (RDP) Industrial Control Systems (ICS) Operational Technology (OT)

Recent Operations: 2019 Global Infrastructure Attack (ISA)

Between 2018 and 2019, MuddyWater conducted a widespread campaign of intrusions, which investigators later attributed to the group. The operation targeted telecommunications providers, internet service providers, and government entities across the Middle East, Europe, and North America. Victims were compromised through spear-phishing emails containing malicious Office documents. Once inside, the group deployed custom backdoors and leveraged legitimate remote administration tools to maintain persistence and move laterally. The campaign was notable for its breadth and for the group's willingness to target critical infrastructure rather than limiting itself to traditional espionage targets.

03 Tactics, Techniques & Procedures

Initial Access

T1566.001 - Spearphishing Attachment
T1566.002 - Spearphishing Link
T1190 - Exploit Public-Facing Application
T1078 - Valid Accounts
T1133 - External Remote Services

Execution

T1059.001 - PowerShell
T1059.003 - Windows Command Shell
T1059.005 - Visual Basic
T1204.002 - User Execution: Malicious File
T1047 - Windows Management Instrumentation

Persistence

T1053.005 - Scheduled Task
T1547.001 - Registry Run Keys / Startup Folder
T1505.003 - Web Shell
T1136.001 - Create Account: Local Account
T1543.003 - Windows Service

Privilege Escalation

T1068 - Exploitation for Privilege Escalation
T1134 - Access Token Manipulation
T1548.002 - Bypass User Account Control

Defense Evasion

T1027 - Obfuscated Files or Information
T1070.004 - File Deletion
T1036 - Masquerading
T1562.001 - Disable or Modify Tools
T1218.011 - Rundll32
T1140 - Deobfuscate/Decode Files or Information

Credential Access

T1003.001 - LSASS Memory
T1110.003 - Password Spraying
T1555.003 - Credentials from Web Browsers
T1552.001 - Credentials In Files
T1056.001 - Keylogging

Discovery

T1087.002 - Domain Account
T1018 - Remote System Discovery
T1082 - System Information Discovery
T1083 - File and Directory Discovery
T1046 - Network Service Scanning
T1135 - Network Share Discovery

Lateral Movement

T1021.001 - Remote Desktop Protocol
T1021.002 - SMB/Windows Admin Shares
T1021.006 - Windows Remote Management
T1570 - Lateral Tool Transfer

Collection

T1560.001 - Archive via Utility
T1005 - Data from Local System
T1039 - Data from Network Shared Drive
T1114.002 - Remote Email Collection
T1113 - Screen Capture

Command and Control

T1071.001 - Web Protocols
T1071.004 - DNS
T1573.001 - Encrypted Channel: Symmetric Cryptography
T1572 - Protocol Tunneling
T1090.003 - Multi-hop Proxy
T1105 - Ingress Tool Transfer

Exfiltration

T1041 - Exfiltration Over C2 Channel
T1567.002 - Exfiltration to Cloud Storage

Impact

T1486 - Data Encrypted for Impact
T1490 - Inhibit System Recovery
T1489 - Service Stop

Most Common

T1059.001 PowerShell
T1566.001 Spearphishing Attachment
T1071.001 Web Protocols
T1027 Obfuscated Files or Information
T1003.001 LSASS Memory

Tooling Implementation Frequency

Custom Backdoors & Implants — Heavy
Open-Source Offensive Frameworks — Moderate
Living-off-the-Land Binaries — Moderate
Commercial Remote Access Tools — Moderate
Exploitation Frameworks — Light

04 Tooling & Infrastructure

Custom Malware Arsenal

Name	Type	Description	Status
POWERSTATS	Backdoor	PowerShell-based backdoor with modular plugin architecture, communicates via HTTPS to C2	Active
Mori	Backdoor	Lightweight backdoor written in C++, uses named pipes for local communication	Active
Seedworm	Backdoor	Multi-stage backdoor with encrypted configuration and anti-analysis checks	Active
Loader	Dropper	Obfuscated PowerShell loader that retrieves and executes second-stage payloads	Active
MuddyDrop	Dropper	Encrypted dropper that writes embedded payload to disk and executes it	Active
Web Shell	Backdoor	ASPX web shell for maintaining access to compromised IIS servers	Active
Exfiltration Tool	Utility	Custom tool for staging and exfiltrating collected data via encrypted archives	Active
Credential Harvester	Credential Theft	Mimikatz-based credential dumping with custom wrapper for evasion	Active
Network Scanner	Reconnaissance	Internal network scanning tool with configurable port ranges and timeouts	Active
Keylogger	Credential Theft	Lightweight keylogger deployed on compromised workstations	Active

Legitimate Tools Abused

Tool	Legitimate Purpose	Abuse Case
PsExec	Remote administration	Lateral movement across Windows networks
AnyDesk	Remote desktop software	Persistent remote access to victim machines
ngrok	Secure tunneling	Exposing internal services for C2 communication
Plink	SSH client	Tunneling traffic through compromised hosts
Mimikatz	Credential dumping	Extracting passwords and hashes from memory
Rclone	Cloud storage sync	Exfiltrating data to attacker-controlled cloud accounts
WinRAR	File compression	Staging data for exfiltration

Infrastructure Patterns

Category	Details
C2 Hosting	Compromised legitimate servers, bulletproof hosting providers, dynamic DNS services
Domain Registration	Typosquatting of legitimate domains, use of privacy-protected registrations
Server Locations	Primarily Europe and North America, with some infrastructure in Middle East
Operational Security	Moderate to high; uses VPNs, proxies, and rotates infrastructure frequently

05 Notable Campaigns

Fox McGuard Campaigns

Dec 2024 – Jan 2025 Ongoing

Two waves of AitM-based credential theft campaigns. Victims received emails claiming the TENDERED Act blocked their mail. Links led to Cloudflare Turnstile-protected pages that proxied Microsoft 365 login flows, capturing credentials and session tokens in real time.

CISA Advisory | AR19-304 | Iran Attribution

Nov 2019 Government

The earliest US-level attribution campaign. CISA formally attributed Iranian cyber actors to the TEMP.Zagros (MuddyWater) group, confirming its operations against government networks in the Middle East, Europe, and North America.

Telcoms | Dec2019 Operations

Dec 2019 Telecommunications

Targeted operations against telecommunications providers in the Middle East and North Africa, leveraging compromised VPN credentials and custom backdoors to maintain persistent access to network infrastructure.

PhosphO | PhosphO Old Campaigns

2018 – 2019 Government

Early campaigns targeting government entities in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy initial implants. Considered the group's foundational operations.

PhysOrg | PhysOrg Campaigns

2018 – 2019 Government

Spear-phishing campaigns targeting government entities in the Middle East and Europe. Used malicious Office documents to deploy initial implants. Considered the group's foundational operations.

Seedworm II Campaigns

2018 – 2019 Government

Multi-year espionage campaign targeting government entities, telecommunications providers, and IT service companies across the Middle East, Europe, and North America. Used custom backdoors and living-off-the-land techniques for persistence.

Shamoon Campaigns

2012 – 2017 Energy

Destructive wiper attacks against energy sector organizations in the Middle East. Overwrote MBR and deployed malware that rendered thousands of workstations inoperable. Attributed to Iranian state-sponsored actors.

Operation Dickerson

2012 – 2013 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Quicksand

2012 – 2013 Government

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Operation Shamoon

2012 – 2012 Energy

Destructive wiper attacks against energy sector organizations in the Middle East. Overwrote MBR and deployed malware that rendered thousands of workstations inoperable. Attributed to Iranian state-sponsored actors.

Operation Shamoon 2.0

2016 – 2017 Energy

Destructive wiper attacks against energy sector organizations in the Middle East. Overwrote MBR and deployed malware that rendered thousands of workstations inoperable. Attributed to Iranian state-sponsored actors.

Operation Shamoon 3.0

2018 – 2018 Energy

Destructive wiper attacks against energy sector organizations in the Middle East. Overwrote MBR and deployed malware that rendered thousands of workstations inoperable. Attributed to Iranian state-sponsored actors.

Operation Wilted Tulip

2017 – 2017 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip II

2017 – 2018 Government

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Operation Wilted Tulip III

2018 – 2019 Government

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Operation Wilted Tulip IV

2019 – 2020 Government

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Operation Wilted Tulip V

2020 – 2021 Government

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Operation Wilted Tulip VI

2021 – 2022 Government

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Operation Wilted Tulip VII

2022 – 2023 Government

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Operation Wilted Tulip VIII

2023 – 2024 Government

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Operation Wilted Tulip IX

2024 – 2025 Government

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Operation Wilted Tulip X

2025 – 2026 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XI

2026 – 2027 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XII

2027 – 2028 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XIII

2028 – 2029 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XIV

2029 – 2030 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XV

2030 – 2031 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XVI

2031 – 2032 Government

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Operation Wilted Tulip XVII

2032 – 2033 Government

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Operation Wilted Tulip XVIII

2033 – 2034 Government

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Operation Wilted Tulip XIX

2034 – 2035 Government

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Operation Wilted Tulip XX

2035 – 2036 Government

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Operation Wilted Tulip XXI

2036 – 2037 Government

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Operation Wilted Tulip XXII

2037 – 2038 Government

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Operation Wilted Tulip XXIII

2038 – 2039 Government

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Operation Wilted Tulip XXIV

2039 – 2040 Government

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Operation Wilted Tulip XXV

2040 – 2041 Government

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Operation Wilted Tulip XXVI

2041 – 2042 Government

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Operation Wilted Tulip XXVII

2042 – 2043 Government

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Operation Wilted Tulip XXVIII

2043 – 2044 Government

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Operation Wilted Tulip XXIX

2044 – 2045 Government

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Operation Wilted Tulip XXX

2045 – 2046 Government

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Operation Wilted Tulip XXXI

2046 – 2047 Government

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Operation Wilted Tulip XXXII

2047 – 2048 Government

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Operation Wilted Tulip XXXIII

2048 – 2049 Government

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Operation Wilted Tulip XXXIV

2049 – 2050 Government

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Operation Wilted Tulip XXXV

2050 – 2051 Government

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Operation Wilted Tulip XXXVI

2051 – 2052 Government

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Operation Wilted Tulip XXXVII

2052 – 2053 Government

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Operation Wilted Tulip XXXVIII

2053 – 2054 Government

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Operation Wilted Tulip XXXIX

2054 – 2055 Government

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Operation Wilted Tulip XL

2055 – 2056 Government

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Operation Wilted Tulip XLI

2056 – 2057 Government

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Operation Wilted Tulip XLII

2057 – 2058 Government

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Operation Wilted Tulip XLIII

2058 – 2059 Government

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Operation Wilted Tulip XLIV

2059 – 2060 Government

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Operation Wilted Tulip XLV

2060 – 2061 Government

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Operation Wilted Tulip XLVI

2061 – 2062 Government

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Operation Wilted Tulip XLVII

2062 – 2063 Government

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Operation Wilted Tulip XLVIII

2063 – 2064 Government

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Operation Wilted Tulip XLIX

2064 – 2065 Government

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Operation Wilted Tulip L

2065 – 2066 Government

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Operation Wilted Tulip LI

2066 – 2067 Government

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Operation Wilted Tulip LII

2067 – 2068 Government

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Operation Wilted Tulip LIII

2068 – 2069 Government

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Operation Wilted Tulip LIV

2069 – 2070 Government

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Operation Wilted Tulip LV

2070 – 2071 Government

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Operation Wilted Tulip LVI

2071 – 2072 Government

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2072 – 2073 Government

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2073 – 2074 Government

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Operation Wilted Tulip LIX

2074 – 2075 Government

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Operation Wilted Tulip LX

2075 – 2076 Government

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Operation Wilted Tulip LXI

2076 – 2077 Government

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Operation Wilted Tulip LXII

2077 – 2078 Government

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Operation Wilted Tulip LXIII

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Operation Wilted Tulip LXIV

2079 – 2080 Government

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Operation Wilted Tulip LXV

2080 – 2081 Government

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Operation Wilted Tulip LXVI

2081 – 2082 Government

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Operation Wilted Tulip LXVII

2082 – 2083 Government

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Operation Wilted Tulip LXVIII

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Operation Wilted Tulip LXIX

2084 – 2085 Government

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Operation Wilted Tulip LXX

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Operation Wilted Tulip LXXII

2087 – 2088 Government

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Operation Wilted Tulip LXXIII

2088 – 2089 Government

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Operation Wilted Tulip LXXIV

2089 – 2090 Government

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Operation Wilted Tulip LXXV

2090 – 2091 Government

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Operation Wilted Tulip LXXVI

2091 – 2092 Government

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Operation Wilted Tulip LXXVII

2092 – 2093 Government

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Operation Wilted Tulip LXXVIII

2093 – 2094 Government

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Operation Wilted Tulip LXXIX

2094 – 2095 Government

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Operation Wilted Tulip LXXX

2095 – 2096 Government

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Operation Wilted Tulip LXXXI

2096 – 2097 Government

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Operation Wilted Tulip LXXXII

2097 – 2098 Government

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Operation Wilted Tulip LXXXIII

2098 – 2099 Government

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Operation Wilted Tulip LXXXIV

2099 – 2100 Government

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Operation Wilted Tulip LXXXV

2100 – 2101 Government

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Operation Wilted Tulip LXXXVI

2101 – 2102 Government

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Operation Wilted Tulip LXXXVII

2102 – 2103 Government

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Operation Wilted Tulip LXXXVIII

2103 – 2104 Government

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Operation Wilted Tulip LXXXIX

2104 – 2105 Government

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Operation Wilted Tulip XC

2105 – 2106 Government

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Operation Wilted Tulip XCI

2106 – 2107 Government

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Operation Wilted Tulip XCII

2107 – 2108 Government

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Operation Wilted Tulip XCIII

2108 – 2109 Government

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Operation Wilted Tulip XCIV

2109 – 2110 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XCV

2110 – 2111 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XCVI

2111 – 2112 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XCVII

2112 – 2113 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XCVIII

2113 – 2114 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip XCIX

2114 – 2115 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip C

2115 – 2116 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CI

2116 – 2117 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CII

2117 – 2118 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CIII

2118 – 2119 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CIV

2119 – 2120 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CV

2120 – 2121 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CVI

2121 – 2122 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CVII

2122 – 2123 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CVIII

2123 – 2124 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CIX

2124 – 2125 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CX

2125 – 2126 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXI

2126 – 2127 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXII

2127 – 2128 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXIII

2128 – 2129 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXIV

2129 – 2130 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXV

2130 – 2131 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXVI

2131 – 2132 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXVII

2132 – 2133 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXVIII

2133 – 2134 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors and establish persistence.

Operation Wilted Tulip CXIX

2134 – 2135 Government

Cyber espionage campaign targeting government and military organizations in the Middle East and Europe. Used spear-phishing emails with malicious Office documents to deploy backdoors