



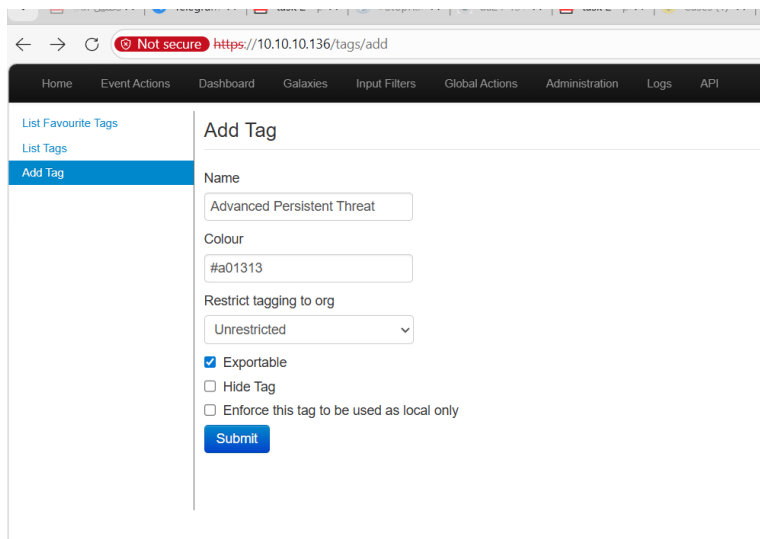
Rayan Alharbi
Rockford University
5/4/2026

Introduction:

This project simulates a Cyber Threat Intelligence (CTI) environment using MISP, TheHive, and Cortex platforms. The goal of this project is to simulate real-world cyber threat intelligence operations including threat data collection, event creation, IOC analysis, threat investigation, and incident response. Multiple organizations were created to simulate intelligence sharing between countries and organizations. Threat events were created based on real-world APT campaigns and malware attacks, and indicators of compromise were analyzed using Cortex analyzers. The project demonstrates the integration between MISP for threat intelligence, TheHive for incident response, and Cortex for automated analysis.

Event 1 – Shamoon Malware (Kuwait):

This event represents a destructive malware campaign known as Shamoon that targeted oil and gas infrastructure in Kuwait. Shamoon is a destructive wiper malware that deletes data and damages systems. The attack started with spear phishing emails and later moved laterally inside the network using SMB. The malware overwrote the Master Boot Record and destroyed system data. This event demonstrates destructive malware campaigns targeting critical infrastructure.



The screenshot shows a web browser window with the address bar displaying "Not secure https://10.10.10.136/tags/add". The browser's navigation bar includes back, forward, and refresh buttons. Below the address bar is a dark navigation menu with the following items: Home, Event Actions, Dashboard, Galaxies, Input Filters, Global Actions, Administration, Logs, and API. The main content area is divided into two sections. On the left, there is a sidebar with three links: "List Favourite Tags", "List Tags", and "Add Tag", which is currently selected and highlighted in blue. The right section is titled "Add Tag" and contains a form with the following fields and options: a "Name" text input field containing "Advanced Persistent Threat", a "Colour" text input field containing "#a01313", a "Restrict tagging to org" dropdown menu set to "Unrestricted", and three checkboxes: "Exportable" (checked), "Hide Tag" (unchecked), and "Enforce this tag to be used as local only" (unchecked). A blue "Submit" button is located at the bottom of the form.

est

1829

96acc

Kuwait

kw@g

Event

2026-04-04 20:23:00

High

Completed

Your

Shamoon 3 destructive malware campaign targeting oil and gas sector in Kuwait

Yes (2026-04-04 20:23:00)

Delegate the publishing of the Event to another organisation

Warning: You are about to request another organisation to take ownership of this event

Target Organisation

Saudi National Cybersecurity /

Desired Distribution

Your organisation only

A destructive campaign using "Wiper" malware to target oil and gas infrastructure by destroying data.

Yes

No

Home

Event Actions

Dashboard

Galaxies

Input Filters

Global Actions

Administration

Logs

API

ist Event Reports

Add Event Report

Add Event Report for Event #1829

Name

Shamoon 3 (Kuwait)

Distribution

Your organisation only

Content

Attack Description: A destructive campaign using "Wiper" malware to target Kuwait's oil and gas infrastructure by destroying data.

Implementation Method: Initial access via Spear-phishing, followed by lateral movement using SMB, ending with overwriting the MBR.

Threat Type: APT / Destructive Wiper.

Intelligence Value: Provides critical TTPs to prevent data destruction and enhance incident response for energy sectors.

Submit

Shamoon 3 Destructive Malware Campaign targeting Oil & Gas s...

Event ID

1829

UUID

96acc15e-0b78-4671-b454-16ea3c82d989

Creator org

Kuwait National Cybersecurity Center

Creator user

kw@gmail.com

Protected Event (experimental)

Event is in unprotected mode.

Tags

APT x + +

Date

2026-04-04

Threat Level

High

Analysis

Completed

Distribution

Your organisation only

Info

Shamoon 3 Destructive Malware Campaign targeting Oil & Gas sector in Kuwait

Published

No

#Attributes

2 (0 Objects)

First recorded change

2026-04-04 20:00:17

Last change

2026-04-04 20:22:17

Modification map

Sightings

0 (0) - restricted to own organisation only

Pivots

Galaxy

Event graph

Event timeline

Correlation graph

ATT&CK matrix

Event reports

Attributes

Discussion

X 1829: Shamoon 3 D...

HomeEvent ActionsDashboardGalaxiesInput FiltersGlobal ActionsAdministrationLogsAPI

Galaxies

Attack Pattern Q
Remote System Discovery - T1018 Q
Scheduled Task/Job - T1053 Q
Valid Accounts - T1078 Q
SMB/Windows Admin Shares - T1021.002 Q
Indicator Removal on Host - T1070 Q
Phishing - T1566 Q
Command and Scripting Interpreter - T1059 Q
Data Destruction - T1485 Q
Disk Wipe - T1561 Q

Event Reports

+ Add Event Report

Generate report from Event

AllDefaultDeleted

ID	Name	Last update	Distribution	Actions
91	Shamoon 3 (Kuwait)	2026-04-04 20:22:17	Your organisation only	

« previous

next »

view all

+ -

Scope toggle

Deleted

Decay score

Lightning bolt

Context

Related tags

Filtering tool

Enter value to search

☐	Date ↑	Org	Category	Type	Value	Tags	Galaxies	Comment	Correlate	Related Events	Feed hits	IDS	Distribution	Signings	A
☐	2026-04-04	External analysis	sha1		8d7524941991b5c962b32b5040204c194b301c2								Organisation (0/0)		
☐	2026-04-04	Network activity	ip-src		45.227.253.20								Organisation (0/0)		

Users index

Click [here](#) to reset the API keys of all sync and org admin users in one shot. This will also automatically inform them of their new API keys.

« previous

next »

Q

AllActiveDisabled

Enter value to search

Filter

☐	ID	Org	Role	Email	Event alert	Contact alert	PGP Key	NIDS SID	Terms Accepted	Last Login	Created	Disabled	Actions
☐	26	Kuwait National Cybersecurity Center	Org Admin	kw@gmail.com	✓	✓	✗	7086646	✗	2026-04-04 19:55:14	2026-04-01 10:51:52	✗	  
☐	27	Kuwait National Cybersecurity Center	Publisher	kw1@gmail.com	✓	✓	✗	2793466	✗	2026-04-02 10:39:56	2026-04-01 10:52:34	✗	  
☐	28	Kuwait National Cybersecurity Center	Read Only	kw2@gmail.com	✓	✓	✗	6299090	✗	Never	2026-04-01 10:53:19	✗	  
☐	31	Kuwait National Cybersecurity Center	User	kw0@gmail.com	✓	✓	✗	2289191	✓	Never	2026-04-02 10:28:39	✗	  

Delegation index

« previous

next »

PendingIssued

Enter value to search

Filter

Id	Requester	Recipient	Event id	Event info	Message
6	Kuwait National Cybersecurity Center	Saudi National Cybersecurity Authority	1829	Shamoon 3 Destructive Malware Campaign targeting Oil & Gas sector in Kuwait	A destructive campaign using "Wiper" malware to target oil and gas infrastructure by destroying data.

Event 2 – APT34 OilRig (Saudi Arabia):

This event represents an Advanced Persistent Threat campaign known as APT34 (OilRig), which targeted government organizations in Saudi Arabia. The attackers used spear phishing emails with malicious attachments to gain initial access. After gaining access, the attackers used PowerShell backdoors and command and control communication to maintain persistence and steal sensitive information. This event demonstrates cyber espionage operations conducted by APT groups.

ID	Org	Role	Email	Event alert	Contact alert	PGP Key	NIDS SID	Terms Accepted	Last Login	Created	Disabled	Actions
18	Saudi National Cybersecurity Authority	Publisher	saudi1@gmail.com	✓	✓	✗	7304986	✗	Never	2026-04-01 10:44:12	✗	  
19	Saudi National Cybersecurity Authority	Read Only	saudi2@gmail.com	✓	✓	✗	8450023	✗	Never	2026-04-01 10:44:56	✗	  
29	Saudi National Cybersecurity Authority	Org Admin	saudi@gmail.com	✓	✓	✗	8122638	✗	2026-04-04 20:40:07	2026-04-02 10:26:15	✗	  
30	Saudi National Cybersecurity Authority	User	saudi0@gmail.com	✓	✓	✗	8760335	✗	Never	2026-04-02 10:27:47	✗	  

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[List Favourite Tags](#)
[List Tags](#)
[Add Tag](#)

Add Tag

Name

APT34

Colour

#000000

Restrict tagging to org

Unrestricted

☒ Exportable

☐ Hide Tag

☐ Enforce this tag to be used as local only

Submit

View Event

View Correlation Graph
View Event History

Edit Event
Delete Event
Add Attribute
Add Object
Add Attachment
Add Event Report
Populate from ...
Enrich Event
Merge attributes from ...

Publish Event
Publish (no email)
Contact Reporter
Download as ...

List Events
Add Event

APT34 / OilRig (Saudi Arabia)

Event ID	1830
UUID	569a64d5-5bbd-4594-8343-5aadc4e817ac
Creator org	Saudi National Cybersecurity Authority
Creator user	saudi@gmail.com
Protected Event (experimental)	Event is in unprotected mode.
Tags	APT34 Advanced Persistent Threat
Date	2025-04-04
Threat Level	High
Analysis	Completed
Distribution	This community only
Info	APT34 / OilRig (Saudi Arabia)
Published	No
#Attributes	4 (0 Objects)
First recorded change	2025-04-04 21:00:20
Last change	2025-04-04 21:17:11
Modification map	
Sightings	0 - restricted to own organisation only

—Pivots —Galaxy +Event graph +Event timeline +Correlation graph +ATT&CK matrix +Event reports —Attributes —Discussion

1830: APT34 / OilRig

Home Event Actions Dashboard Galaxies Input Filters Global Actions Administration Logs API

—Pivots —Galaxy +Event graph +Event timeline +Correlation graph +ATT&CK matrix +Event reports —Attributes —Discussion

1830: APT34 / OilRig

Galaxies

Attack Pattern Q

System Network Configuration Discovery - T1016 Q

Scheduled Task/Job - T1053 Q

Phishing - T1566 Q

Exfiltration Over C2 Channel - T1041 Q

Command and Scripting Interpreter - T1059 Q

Application Layer Protocol - T1071 Q

Credentials from Web Browsers - T1555.003 Q

previous next view all

Scope toggle Deleted Decay score SightingDB Context Related Tags Filtering tool

Enter value to search

Date	Org	Category	Type	Value	Tags	Galaxies	Comment	Correlate	Related Events	Feed hits	IDS	Distribution	Sightings
2025-04-04		External analysis	sha256	e165490710688847849e794356b568a77840134f71a06706a237376003ae57098								Inherit	
2025-04-04		Network activity	ip-sec	185.161.200.72								Inherit	
2025-04-04		Network activity	url	http://insideaspundit.com/updates								Inherit	
2025-04-04		Network activity	ip-sec	185.161.200.155								Inherit	

previous next view all

Home

Event Actions

Dashboard

Galaxies

Input Filters

Global Actions

Administration

Logs

API

List Event Reports

Add Event Report

Add Event Report for Event #1830

Name

APT34 (Saudi Arabia)

Distribution

Your organisation only

Content

Attack Description: A cyber-espionage campaign targeting government sectors in Saudi Arabia to steal sensitive information.

Implementation Method: Delivery via Spear-phishing with malicious attachments to drop backdoors and use PowerShell for execution.

Threat Type: APT (Advanced Persistent Threat) / Cyber Espionage.

Intelligence Value: Identifies regional threat actor TTPs, enabling better detection and defense against similar espionage attempts.

Submit

1830

569a6

Saudi

saudi

Event

2026-4

High

Comp

Your organisation only

Delegate the publishing of the Event to another organisation

Warning: You are about to request another organisation to take ownership of this event.

Target Organisation

UAE Cybersecurity Council

Desired Distribution

Your organisation only

A cyber-espionage campaign targeting government sectors in Saudi Arabia to steal sensitive information

Yes

No

Delegation index

« previous

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Pending		Issued		Enter value to search			Filter
Id	Requester	Recipient	Event id	Event info	Message		
7	Saudi National Cybersecurity Authority	UAE Cybersecurity Council	1830	APT34 / OilRig (Saudi Arabia)	A cyber-espionage campaign targeting government sectors in Saudi Arabia to steal sensitive information		

Page 1 of 1, showing 1 records out of 1 total, starting on record 1, ending on 1

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Event 3 – MuddyWater (UAE):

This event represents the MuddyWater APT group campaign targeting telecommunications organizations in the UAE. The attackers used spear phishing emails and malicious PowerShell scripts to gain access and maintain persistence in the network. The attackers used living-off-the-land techniques and PowerShell tools to avoid detection and monitor network traffic. This campaign represents cyber espionage and long-term persistence attacks.

ID	Org	Role	Email	Event alert	Contact alert	PGP Key	NIDS SID	Terms Accepted	Last Login	Created	Disabled	Actions
23	UAE Cybersecurity Council	Org Admin	ae@gmail.com	✓	✓	✗	4725598	✗	2026-04-04 21:30:55	2026-04-01 10:48:37	✗	  
24	UAE Cybersecurity Council	Publisher	ae1@gmail.com	✓	✓	✗	1839245	✗	Never	2026-04-01 10:49:22	✗	  
25	UAE Cybersecurity Council	Read Only	ae2@gmail.com	✓	✓	✗	5537895	✗	Never	2026-04-01 10:49:47	✗	  
33	UAE Cybersecurity Council	User	ae0@gmail.com	✓	✓	✗	2659050	✗	Never	2026-04-02 10:32:27	✗	  

←

→

↻

Not secure https://10.10.10.136/tags/add

HomeEvent ActionsDashboardGalaxiesInput FiltersGlobal ActionsAdministrationLogsAPI

List Favourite Tags

List Tags

Add Tag

Add Tag

Name

MuddyWater

Colour

#254bc6

Restrict tagging to org

Unrestricted

☒ Exportable

☐ Hide Tag

☐ Enforce this tag to be used as local only

Submit

ts

Last change2026-04-04 21:51:29

it

Event report: MuddyWater

Markdown

Raw

Edit report

Attack Description: Targeted campaign against UAE telecommunications to gain persistence and monitor network traffic.

Implementation Method: Using Spear-phishing emails followed by custom PowerShell backdoors for command execution.

Threat Type: APT (Advanced Persistent Threat).

Intelligence Value: Provides detection patterns for "Living off the Land" techniques and malicious script behaviors in telecom environments.

[-Pivots](#)
[-Galaxy](#)
[+Event graph](#)
[+Event timeline](#)
[+Correlation graph](#)
[+ATT&CK matrix](#)
[-Event reports](#)
[-Attributes](#)
[-Discussion](#)

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Delegate the publishing of the Event to another organisation

Warning: You are about to request another organisation to take ownership of this event.

Target Organisation

Qatar National Information As: ▾

Desired Distribution

Your organisation only ▾

Targeted campaign against UAE telecommunications to gain persistence and monitor network traffic.

Yes

No

Delegation index

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next »

Pending Issued

Enter value to search

Filter

Id	Requester	Recipient	Event id	Event info	Message
8	UAE Cybersecurity Council	Qatar National Information Assurance	1831	MuddyWater (UAE)	Targeted campaign against UAE telecommunications to gain persistence and monitor network traffic.

Page 1 of 1, showing 1 records out of 1 total, starting on record 1, ending on 1

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Event 4 – Bahamut Campaign (Qatar):

This event represents the Bahamut cyber espionage campaign targeting financial institutions in Qatar. The attackers used fake banking websites and malicious applications to steal user credentials and sensitive financial information. The campaign involved social engineering, phishing websites, and spyware tools to monitor financial communications. This campaign represents credential harvesting and cyber espionage operations.

ID	Org	Role	Email	Event alert	Contact alert	PGP Key	NIDS SID	Terms Accepted	Last Login	Created	Disabled	Actions
20	Qatar National Information Assurance	admin	qatar@gmail.com	✓	✓	✗	2958439	✓	2026-04-04 21:57:43	2026-04-01 10:46:03	✗	  
21	Qatar National Information Assurance	Publisher	qatar1@gmail.com	✓	✓	✗	7311884	✗	Never	2026-04-01 10:47:08	✗	  
22	Qatar National Information Assurance	Read Only	qatar2@gmail.com	✓	✓	✗	4402754	✗	Never	2026-04-01 10:47:36	✗	  
32	Qatar National Information Assurance	admin	qatar0@gmail.com	✓	✓	✗	5722254	✓	Never	2026-04-02 10:29:30	✗	  

[t Favourite Tags](#)

[t Tags](#)

[d Tag](#)

Add Tag

Name

Bahamut Campaign

Colour

#2c9e21

Restrict tagging to org

Unrestricted



Restrict tagging to user

Unrestricted



☒ Exportable

☐ Hide Tag

☐ Enforce this tag to be used as local only

Submit

[List Event Reports](#)[Add Event Report](#)

Add Event Report for Event #1832

Name

Distribution



Content

Attack Description: A sophisticated credential harvesting and spyware campaign targeting financial institutions in Qatar using fake banking applications.

Implementation Method: Social engineering via fake news websites and malicious apps to steal user credentials and monitor sensitive financial communications.

Threat Type: Spyware / Credential Theft / Hack-for-hire.

Intelligence Value: Helps in identifying fake infrastructure and phishing patterns used to target the banking sector and high-profile financial individuals



Bahamut Campaign (Qatar)

Event ID	1832
UUID	4c9a9b0c-16ba-4653-9f83-6f0f6b545814
Creator org	Qatar National Information Assurance
Owner org	Qatar National Information Assurance
Creator user	qatar@gmail.com
Protected Event (experimental)	Event is in unprotected mode.
Tags	Bahamut Campaign APT
Date	2026-04-04
Threat Level	High
Analysis	Initial
Distribution	This community only
Info	Bahamut Campaign (Qatar)
Published	No
#Attributes	3 (0 Objects)
First recorded change	2026-04-04 22:11:21
Last change	2026-04-04 22:19:02
Modification map	
Sightings	0 (0) - restricted to own organisation only.

Pivots Galaxy Event graph Event timeline Correlation graph ATT&CK matrix Event reports Attributes Discussion

1832: Bahamut Ca...

Galaxies

Attack Pattern

- Phishing - T1566
- User Execution - T1204
- Gather Victim Identity Information - T1589

Event Reports

Add Event Report Generate report from Event

AllDefaultDeleted

ID	Name	Last update	Distribution	Actions
94	Bahamut Campaign	2026-04-04 22:14:16	Inherit event	

« previous

next »

view all

Scope toggle

Deleted

Decay score

SightingDB

Context

Related Tags

Filtering tool

Enter value to search

☐	Date ?	Org	Category	Type	Value	Tags	Galaxies	Comment	Correlate	Related Events	Feed hits	IDS	Distribution	Sightings	Activ
☐	2026-04-04		Network activity	ip-src	195.133.197.142				☒			☐	Inherit		(0/0/0)
☐	2026-04-04		External analysis	sha256	f9e1150006c9535f29d2b82627a8987b32d259c63967347101389c9331907727				☒			☐	Inherit		(0/0/0)
☐	2026-04-04		Network activity	url	https://secure-login-portal.net/bank-verify				☒			☐	Inherit		(0/0/0)

Delegate the publishing of the Event to another organisation

Warning: You are about to request another organisation to take ownership of this event.

Target Organisation

Kuwait National Cybersecurity ▾

Desired Distribution

Your organisation only ▾

A sophisticated credential harvesting and spyware campaign targeting financial institutions in Qatar using fake banking applications.

Yes

No

Task 2 – Threat Intelligence Analysis (Ryuk Ransomware):

In **Task 2**, a threat intelligence analysis was performed based on a **Ryuk Ransomware** event targeting the healthcare and public health sector. The investigation began by extracting indicators of compromise (IoCs) from **MISP**, including a malicious payload hash, C2 server IP addresses, and connectivity-check domains like `ipecho.net`. These indicators were imported into **TheHive** to manage the case.

Using **Cortex**, the indicators were enriched through automated analyzers such as **VirusTotal**, **AlienVault OTX**, and **Censys**. The analysis revealed a high detection rate (**52/71** on VirusTotal) for the malware hash and confirmed that the IP address `87.98.175.85` was part of a known malicious infrastructure. The threat was attributed to the **GRIM SPIDER** group, and the final decision was to **Block** all indicators and initiate containment procedures to prevent data encryption and further lateral movement.

The screenshot displays the TheHive interface for a case titled "Ransomware Activity Targeting the Healthcare and Public Health Sector". The main panel shows event details for Event ID 1184, created by CIRCL, with a threat level of High and a completed analysis. The event is categorized under "Ransomware" and "Ryuk ransomware". A sidebar on the right lists related events, including "OSINT - Google DNS", "Hacks cryptomining malware", "RageLocker - VirusRay Analyzer Report for Sample #1508977", "2019-12-10: TrickBot Project MetaAnchor 360: Windows Info Sophisticated", "Malware Analysis Report (AR19-100A) MARI-10135336-8 36° North Korea", "IoT malware - Gafgyt Gen28 (active) - 20190220 - 20190222", "OSINT ToranLocker Ransomware Email toCs 81802018 by neoPhonix", and "OSINT Expansion on Systematic cyber attacks against Israel and Palestine".

Ransomware Activity Targeting the Healthcare and Public Health Sector

Event ID: 1184

UUID: 4085a0b8-1468-4089-9873-745d08199094

Creator org: CIRCL

Protected Event (experimental): Event is in unprotected mode.

Tags: type:OSINT, event:lifetime="perpetual", event:certainty="50", ttp:white

Date: 2020-10-29

Threat Level: High

Analysis: Completed

Distribution: All communities

Info: Ransomware Activity Targeting the Healthcare and Public Health Sector

Published: Yes (2025-09-17 15:36:32)

#Attributes: 211 (25 Objects)

First recorded change: 2020-10-29 17:05:32

Last change: 2025-07-03 08:07:53

Modification map

Sightings: 0 (0) - restricted to own organisation only

1184 Ransomware

Galaxies: Ransomware, Ryuk ransomware

Previous, Next, View all

Related Events

- OSINT - Google DNS 2024-11-07 1 Hacks cryptomining malware 2022-09-12 1
- RageLocker - VirusRay Analyzer Report for Sample #1508977 2020-12-30 1 Enacted/Tracked 2020-01-25 2
- 2019-12-10: TrickBot Project MetaAnchor 360: Windows Info Sophisticated 2019-12-10 1
- Malware Analysis Report (AR19-100A) MARI-10135336-8 36° North Korea 2019-04-03 1
- IoT malware - Gafgyt Gen28 (active) - 20190220 - 20190222 2019-02-20 1
- OSINT ToranLocker Ransomware Email toCs 81802018 by neoPhonix 2016-08-17 3
- OSINT Expansion on Systematic cyber attacks against Israel and Palestine 2015-11-05 2

GeneralTasks (0)Observables (5)TTPs (0)AttachmentsTimelinePagesHistory

* Title

Ransomware Activity Targeting the Healthcare and Public Health Sector

Tags

ransomware

Description

This case involves the Ryuk Ransomware, a sophisticated malware family derived from Hermes source code. It is exclusively operated by the threat actor group GRIM SPIDER. Unlike commodity ransomware, Ryuk is specifically tailored for targeting large-scale enterprise environments and critical sectors like Healthcare and Public Health.

Key Characteristics:

Threat Actor: GRIM SPIDER.

Targeting: Enterprise-level organizations.

Origin: Derived from Hermes ransomware code.

Impact: High-severity data encryption and financial extortion.

#2 Ransomware Activity Targeting the Healthcare and Public Health Sector

GeneralTasks (0)Observables (5)TTPs (0)AttachmentsTimelinePagesHistory

id ~4186176

Created by Rayan alharbi

Created at 04/04/2026 18:12

Updated at 04/04/2026 20:58

SEVERITY: HIGH

TLP: CLEARPAP: CLEAR

Assignee

Rayan alharbi

Status

New

Start date

29/10/2020 17:43

Tasks completion

No tasks

Contributors

Time to detect

5 years

FLAGS	DATA TYPE	VALUE/FILENAME	DATES	S	C	U
TLP: GREEN	domain	ipecho[.]net	S. 04/04/2026 18:35			
PAP: GREEN	domain	APT	C. 04/04/2026 18:35			
		VTGetReport-"28 detected_url[s]"; OTX-Pulses-"7"; urlscan.ioSearch-"850% results"; urlscan.ioScan-"Overall Score0...				
TLP: GREEN	hostname	checkip[.]amazonaws[.]com	S. 04/04/2026 18:33			
PAP: GREEN	hostname		C. 04/04/2026 18:33			
		No report(s) available				
TLP: GREEN	ip	87[.]98[.]175[.]85	S. 04/04/2026 18:29			
PAP: GREEN	None		C. 04/04/2026 18:29			
		VTGetReport-"6 detected_url[s]"; OTX-Pulses-"6"; urlscan.ioSearch-"35 results";	U. 04/04/2026 18:35			
TLP: GREEN	hash	999f5046d3b65438ab0b46c51a04568c	S. 04/04/2026 18:23			
PAP: GREEN	md5		C. 04/04/2026 18:23			
		VTGetReport-"52/71"; VT.Rescan-"54/72"; OTX-Pulses-"0"; urlscan.ioSearch-"0 result";	U. 04/04/2026 18:36			
TLP: GREEN	filename	bd7bfae5915ee878f1f650324f07b5f567a297a3f8439834654e39d8268c5f0e	S. 04/04/2026 18:18			
PAP: GREEN	filename		C. 04/04/2026 18:18			
		No report(s) available	U. 04/04/2026 18:37			

Task 3 – APT Incident Simulation (Emotet Attack):

In Task 3, an APT attack simulation was performed based on a phishing email attack containing a malicious Office document with a macro. When the user enabled macros, malware was downloaded and installed on the system. The malware established persistence, connected to a command and control server, and exfiltrated credentials and system information. Indicators of compromise such as IP address, domain, and malware hash were added to TheHive and analyzed using Cortex. The attack was mapped to MITRE ATT&CK techniques, and the final decision was to block the indicators and contain the threat.

The screenshot displays the TheHive web interface for a case titled "Ransomware Activity Targeting the Healthcare and Public Health Sector". The interface includes a sidebar with case details and a main panel showing a list of observables.

Case Details (Left Sidebar):

- id: -4186176
- Created by: Rayan alharbi
- Created at: 04/04/2026 18:12
- Updated at: 04/04/2026 20:58
- Severity: HIGH
- Buttons: TLP: CLEAR, PAP: CLEAR
- Assignee: Rayan alharbi
- Status: New
- Start date: 29/10/2020 17:43
- Tasks completion: No tasks
- Contributors: 1
- Time to detect: 5 years

Observables List (Main Panel):

FLAGS	DATA TYPE	VALUE/FILENAME	DATES
TLP: GREEN, PAP: GREEN	domain	ipecho[]net	S. 04/04/2026 18:35
		domain: APT	C. 04/04/2026 18:35
		VT: GetReport="28 detected_urls", OI: X: Pulses="7", urlscan.io: Search="8504 results", urlscan.io: Scan="Overall Score: 0...	
TLP: GREEN, PAP: GREEN	hostname	checkip[]amazonaws[]com	S. 04/04/2026 18:33
		hostname	C. 04/04/2026 18:33
		No report(s) available	
TLP: GREEN, PAP: GREEN	ip	87[]98[]175[]85	S. 04/04/2026 18:29
		None	C. 04/04/2026 18:29
		VT: GetReport="5 detected_urls", OI: X: Pulses="8", urlscan.io: Search="35 results"	U. 04/04/2026 18:35
TLP: GREEN, PAP: GREEN	hash	999f5046d3b65438ab0b46c51a04568c	S. 04/04/2026 18:23
		md5	C. 04/04/2026 18:23
		VT: GetReport="52/71", VT: Rescan="54/72", OI: X: Pulses="0", urlscan.io: Search="0 result"	U. 04/04/2026 18:36
TLP: GREEN, PAP: GREEN	filename	bd7bfae5915ee878f1f650324f07b5f567a297a3f8439834654e39d8268c5f0e	S. 04/04/2026 18:18
		filename	C. 04/04/2026 18:18
		No report(s) available	U. 04/04/2026 18:37

Emotet Macro Malware Attack

Event ID	1833
UUID	34f24461-46d5-48aa-aad9-72a5ed950bf4
Creator org	Rayan111
Creator user	ryan1112015@gmail.com
Protected Event (experimental)	Event is in unprotected mode. Remove tag
Tags	C2APTEmotetPhishing
Date	2026-04-05
Threat Level	High
Analysis	Completed
Distribution	Your organisation only
Info	Emotet Macro Malware Attack
Published	No
#Attributes	3 (0 Objects)
First recorded change	2026-04-05 02:06:46
Last change	2026-04-05 02:28:02
Modification map	
Sightings	0 (0) - restricted to own organisation only.

PivotsGalaxyEvent graphEvent timelineCorrelation graphATT&CK matrixEvent reportsAttributesDiscussion

1833: Emotet Macr...

PivotsGalaxyEvent graphEvent timelineCorrelation graphATT&CK matrixEvent reportsAttributesDiscussion

1833: Emotet Macr...

Galaxies

Attack Pattern

Registry Run Keys / Startup Folder - T1060

Phishing - T1566

Web Protocols - T1071.001

Malicious File - T1204.002

Exfiltration Over Web Service - T1567

Event Reports							
+ Add Event Report Generate report from Event All Default Deleted							
ID	Name	Last update	Distribution	Actions			
96	Attack Stages	2026-04-05 02:26:16	Your organisation only				
95	Emotet Macro Malware Attack	2026-04-05 02:22:23	Inherit event				
98	Impact	2026-04-05 02:28:02	Your organisation only				
97	Spread Method	2026-04-05 02:27:38	Your organisation only				

previousnextview all

Scope toggleDeletedDecay scoreSightingDBContextRelated TagsFiltering tool											
Date	Org	Category	Type	Value	Tags	Galaxies	Comment	Correlate	Related Events	Feed hits	ID\$
2026-04-05		External analysis	sha256	2c25b48b68ffc58ff99b453c1d30413413422d706483bfa0f98a5e886256e7a							Inherit
2026-04-05		Network activity	domain	update-microsoft365.com							Inherit
2026-04-05		Network activity	ip-dst	185.157.233.45							Inherit

previousnextview all

Discussion

« previous next »

Date: 2026-04-05 02:24:43Top | #7

Rayan111

threat Status Confirmed Malicious
Contained Yes
Final Decision Block

ryan1112015@gmail.com

Page 1 of 1, showing 1 records out of 1 total, starting on record 1, ending on 1

Emotet Macro Malware Attack

ID	95
UUID	1ae415e6-420f-4bdf-8965-8cf7d5648792
Event	#1833: Emotet Macro Malware Attack
Distribution	Inherit event
Last update	2026-04-05 02:22:23

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The attack started with a phishing email containing a malicious Office document. When the user enabled macros, malware was downloaded and installed on the system. The malware established persistence and communicated with a command and control server. The attacker then exfiltrated credentials and system information from the infected machine.

Spread Method

ID	97
UUID	e223f7c0-2040-45cd-ac16-9841a0b9d2df
Event	#1833: Emotet Macro Malware Attack
Distribution	Your organisation only
Last update	2026-04-05 02:27:38

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The attack spreads through phishing emails containing malicious Office documents with macros that download malware from external servers.

Attack Stages

ID	96
UUID	58ce57eb-cf09-4747-8227-325f6b4a1ede
Event	#1833: Emotet Macro Malware Attack
Distribution	Your organisation only
Last update	2026-04-05 02:26:16

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 Help

1. Phishing email delivery
2. User opened malicious document
3. Macro execution
4. Malware installation
5. Persistence established
6. Command and control communication
7. Credential exfiltration

Impact

ID	98
UUID	5b992187-34c2-4b28-83c7-ec3af04c1895
Event	#1833: Emotet Macro Malware Attack
Distribution	Your organisation only
Last update	2026-04-05 02:28:02

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 Help

Credential theft, system compromise, data exfiltration, lateral movement, and potential ransomware deployment.