
**Suspected
Adversary: APT34
(OilRig)(HelixKitten),
Iranian-Aligned
Intelligence
Collection Group**

History

APT34 — also known as OilRig — is a cyber-espionage group that has been active since at least 2014.

Based on information gathered from sources like Mandiant, CrowdStrike,

Recorded Future, and Mitre.

Nation/state are they associated with?

Iran

Targeted industries:

Middle Eastern sectors such as,
Energy (especially oil and gas),
Government,
Finance, Telecommunications
and Chemical industries

APT34 Motives

Category	Details
Primary Objective	Intelligence gathering — stealing confidential government, corporate, and energy sector data.
Targets	<ul style="list-style-type: none">– Government ministries (especially foreign affairs, defense, energy).– Financial institutions.– Energy companies (especially oil and gas, critical to Iran's regional interests).– Telecommunications firms.– Chemical and engineering firms.
Political Motivation	Support Iran's national interests , particularly in regional influence across the Middle East. Their activity often coincides with geopolitical tensions (e.g., sanctions, nuclear negotiations).
Economic Motivation	Obtain commercial secrets that can boost Iran's domestic industries (especially oil and technology sectors).

Strategic Motivation	Maintain surveillance over rivals (both regional rivals like Saudi Arabia, UAE, Israel, and Western countries). Gain long-term access to networks to anticipate political moves and negotiation strategies .
Tactical Motivation	Create persistence within critical infrastructure so that they could, if needed, pivot to sabotage (though APT34 itself tends to focus more on espionage).

APT34 TTPs

Tactic	Technique	Description
Initial Access	T1566.001 – Spearphishing Attachment	Sends emails with malicious attachments to compromise victims.
	T1566.002 – Spearphishing Link	Emails contain links to credential harvesting sites (e.g., fake Outlook logins).
Execution	T1059 – Command and Scripting Interpreter	Uses PowerShell scripts to execute malicious payloads post-infection.

Persistence	T1505.003 – Web Shell	Installs web shells on compromised servers for persistent remote access.
	T1078 – Valid Accounts	Harvests and abuses legitimate user credentials to maintain long-term access.
Privilege Escalation	T1055 – Process Injection	Injects code into legitimate processes to evade detection and elevate privileges.
Defense Evasion	T1070.004 – File Deletion	Deletes artifacts and malware after use to avoid detection.
	T1027 – Obfuscated Files or Information	Obfuscates payloads and scripts to bypass security solutions.
Credential Access	T1110.001 – Password Guessing	Tries weak passwords for remote access and lateral movement.
	T1556.001 – Credentials from Password Stores	Targets saved credentials from browsers or password vaults.
Discovery	T1083 – File and Directory Discovery	Searches the filesystem for sensitive files and folders.

	T1016 – System Network Configuration Discovery	Gathers information about the network topology and configurations.
Lateral Movement	T1021.002 – SMB/Windows Admin Shares	Moves laterally within networks via SMB and shared admin accounts.
Collection	T1114.002 – Email Collection via Mail Client	Steals emails using direct access to mail clients like Outlook.
	T1560.001 – Archive Collected Data	Archives stolen data for easier exfiltration.
Command and Control	T1071.001 – Application Layer Protocol: Web Protocols	Uses HTTPS and HTTP to communicate with command-and-control servers.
	T1105 – Ingress Tool Transfer	Downloads additional malware/tools into compromised environments.
Exfiltration	T1048.002 – Exfiltration Over Asymmetric Encrypted Non-C2 Protocol	Uses secure channels like HTTPS to exfiltrate stolen data without detection.