

# Hacking Team

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[Jump to navigation](#) [Jump to search](#)

HackingTeam

<b>Industry</b>	<a href="#">Information technology</a>
<b>Founded</b>	2003
<b>Founders</b>	David Vincenzetti, Valeriano Bedeschi
<b>Headquarters</b>	<a href="#">Milan</a> , Italy
<b>Products</b>	Software
<b>Website</b>	<a href="http://HackingTeam.it">HackingTeam.it</a>

**HackingTeam** was a [Milan](#)-based [information technology](#) company that sold offensive intrusion and [surveillance](#) capabilities to governments, law enforcement agencies and corporations.<sup>[1]</sup> Its "*Remote Control Systems*" enable governments and corporations to monitor the communications of internet users, decipher their [encrypted](#) files and emails, record [Skype](#) and other [Voice over IP](#) communications, and remotely activate microphones and camera on target computers.<sup>[2]</sup> The company has been criticized for providing these capabilities to governments with poor [human rights](#) records,<sup>[3]</sup> though HackingTeam states that they have the ability to disable their software if it is used unethically.<sup>[4][5]</sup> The Italian government has restricted their licence to do business with countries outside Europe.<sup>[6]</sup>

HackingTeam employs around 40 people in its Italian office, and has subsidiary branches in [Annapolis](#), [Washington, D.C.](#), and [Singapore](#).<sup>[7]</sup> Its products are in use in dozens of countries across six continents.<sup>[8]</sup>

## Company foundation

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HackingTeam was founded in 2003 by Italian entrepreneurs Vincenzetti and Valeriano Bedeschi. In 2007 the company was invested by two Italian VC: Fondo Next and Innogest.<sup>[9]</sup>

The Milan police department learned of the company. Hoping to use its tool to spy on Italian citizens and listen to their Skype calls, the police contacted Vincenzetti and asked him to help.<sup>[10]</sup> HackingTeam became "the first sellers of commercial hacking software to the police".

According to former employee Byamukama Robinhood, the company began as security services provider, offering penetration testing, auditing and other defensive capabilities to clients.<sup>[11]</sup> Byamukama states that as malware and other offensive capabilities were developed and accounted for a larger percentage of revenues, the organization pivoted in a more offensive direction and became increasingly compartmentalized. Byamukama claims fellow employees working on aspects of the same platform – for example, Android exploits and payloads – would not communicate with one another, possibly leading to tensions and strife within the organization.<sup>[11]</sup>

In February 2014, a report from Citizen Lab identified the organisation to be using hosting services from Linode, Telecom Italia, Rackspace, NOC4Hosts and bullet proof hosting company Santrex.<sup>[12]</sup>

On 5 July 2015 the company suffered a major data breach of customer data, software code, internal documents and e-mails. (See: § 2015 data breach)

On 2 April 2019 HackingTeam was acquired by InTheCyber Group to create Memento Labs <sup>[13]</sup>

## Products and capabilities

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Hacking Team enables clients to perform remote monitoring functions against citizens via their RCS (remote control systems), including their Da Vinci and Galileo platforms:<sup>[1]</sup>

- Covert collection of emails, text message, phone call history and address books
- Keystroke logging
- Uncover search history data and take screenshots
- Record audio from phone calls
  
- Capture audio and video stream from device memory to bypass cryptography of Skype sessions<sup>[14]</sup>
- Use microphones on device to collect ambient background noise and conversations
  
- Activate phone or computer cameras
- Hijack telephone GPS systems to monitor target's location
- Infect target computer's UEFI BIOS firmware with a rootkit<sup>[15]</sup>
- Extract WiFi passwords<sup>[16]</sup>
- Exfiltrate Bitcoin and other cryptocurrency wallet files to collect data on local accounts, contacts and transaction histories<sup>[17]</sup>

HackingTeam uses advanced techniques to avoid draining cell phone batteries, which could potentially raise suspicions, and other methods to avoid detection.<sup>[18][19]</sup>

The malware has payloads for Android,<sup>[16]</sup> BlackBerry, Apple iOS, Linux, Mac OS X, Symbian, as well as Microsoft Windows, Windows Mobile and Windows Phone class of operating systems.<sup>[20]</sup>

RCS is a management platform that allows operators to remotely deploy exploits and payloads against targeted systems, remotely manage devices once compromised, and exfiltrate data for remote analysis.

## Controversies

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### Use by repressive governments

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HackingTeam has been criticized for selling its products and services to governments with poor human rights records, including [Sudan](#), [Bahrain](#), [Venezuela](#), and [Saudi Arabia](#).<sup>[21]</sup>

In June 2014, a [United Nations](#) panel monitoring the implementation of sanctions on Sudan requested information from HackingTeam about their alleged sales of software to the country in contravention of United Nations weapons export bans to Sudan. Documents leaked in the 2015 data breach of HackingTeam revealed the organization sold Sudanese National Intelligence and Security Service access to their "Remote Control System" software in 2012 for 960,000 Euros.<sup>[21]</sup>

In response to the United Nations panel, the company responded in January 2015 that they were not currently selling to Sudan. In a follow-up exchange, HackingTeam asserted that their product was not controlled as a weapon, and so the request was beyond the scope of the panel. There was no need for them to disclose previous sales, which they considered confidential business information.<sup>[21]</sup>

The U.N. disagreed. "The view of the panel is that as such software is ideally suited to support military electronic intelligence (ELINT) operations it may potentially fall under the category of 'military ... equipment' or 'assistance' related to prohibited items," the secretary wrote in March. "Thus its potential use in targeting any of the belligerents in the Darfur conflict is of interest to the Panel."<sup>[21][22]</sup>

In the fall of 2014, the Italian government abruptly froze all of HackingTeam's exports, citing human rights concerns. After lobbying Italian officials, the company temporarily won back the right to sell its products abroad.<sup>[21]</sup>

### 2015 data breach

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On July 5, 2015, the [Twitter](#) account of the company was compromised by an unknown individual who published an announcement of a [data breach](#) against HackingTeam's computer systems. The initial message read, "*Since we have nothing to hide, we're publishing all our e-mails, files, and source code ...*" and provided links to over 400 [gigabytes](#) of data, including alleged internal e-mails, invoices, and [source code](#); which were leaked via [BitTorrent](#) and [Mega](#).<sup>[23]</sup> An announcement of the data breach, including a link to the bittorrent seed, was retweeted by [WikiLeaks](#) and by many others through social media.<sup>[24][25]</sup>

The material was voluminous and early analysis appeared to reveal that HackingTeam had invoiced the Lebanese Army.<sup>[26]</sup> and Sudan and that spy tools were also sold to Bahrain and Kazakhstan.<sup>[25]</sup> HackingTeam had previously claimed they had never done business with Sudan.<sup>[27]</sup>

The leaked data revealed a zero-day cross-platform Flash exploit (CVE number: CVE-2015-5119).<sup>[28]</sup> The dump included a demo of this exploit by opening Calculator from a test webpage.<sup>[29][30][31]</sup> Adobe patched the hole on July 8, 2015.<sup>[32]</sup> Another vulnerability involving Adobe was revealed in the dumps, which took advantage of a buffer overflow attack on an Adobe Open Type Manager DLL included with Microsoft Windows. The DLL is run in kernel mode, so the attack could perform privilege escalation to bypass the sandbox.<sup>[33]</sup>

Also revealed in leaked data was HackingTeam employees' use of weak passwords, including 'P4ssword', 'wolverine', and 'universo'.<sup>[34]</sup>

After a few hours without response from HackingTeam, member Christian Pozzi tweeted the company was working closely with police and "*what the attackers are claiming regarding our company is not true.*"<sup>[35][36]</sup> He also claimed the leaked archive "contains a virus" and that it constituted "false info".<sup>[37]</sup> Shortly after these tweets, Pozzi's Twitter account itself was apparently compromised.<sup>[38]</sup>

Responsibility for this attack was claimed by the hacker known as "Phineas Fisher" (or Phisher) on Twitter.<sup>[39]</sup> Phineas has previously attacked spyware firm Gamma International, who produce malware, such as FinFisher, for governments and corporations.<sup>[40]</sup> In 2016, Phineas published details of the attack, in Spanish and English, as a "how-to" for others, and explained the motivations behind the attack.<sup>[41]</sup>

The internal documents revealed details of HackingTeam's contracts with repressive governments.<sup>[42]</sup> In 2016, the Italian government again revoked the company's license to sell spyware outside of Europe without special permission.<sup>[6][43]</sup>

## Use by Mexican drug cartels

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Corrupt Mexican officials have helped drug cartels obtain state-of-the-art spyware (including Hacking Team spyware). The software has been used to target and intimidate Mexican journalists by drug cartels and cartel-entwined government actors.<sup>[44]</sup>

## Customer list

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HackingTeam's clientele include not just governments, but also corporate clients such as Barclays and British Telecom (BT) of the United Kingdom, as well as Deutsche Bank of Germany.<sup>[1]</sup>

A full list of HackingTeam's customers were leaked in the 2015 breach. Disclosed documents show HackingTeam had 70 current customers, mostly military, police, federal and provincial governments. The total company revenues disclosed exceeded 40 million Euros.<sup>[45][46][47][48][49]</sup>

On Sep 8, 2021, SentinelLABS released a research report about a Turkish threat actor EGoManiac, that used Remote Control System (RCS), software from the Italian infosec firm Hacking Team, which was operated between 2010 and 2016 and campaign run by Turkish TV journalists at OdaTV for spying Turkish police.<sup>[51]</sup>

Customer	Country	Area	Agency	Year of first sale	Annual maintenance fees	Total client revenues
<u>Polizia Postale e delle Comunicazioni</u> <sup>[52]</sup>	Italy	Europe	LEA	2004	€100,000	€808,833
<u>Centro Nacional de Inteligencia</u> <sup>[53]</sup>	Spain	Europe	Intelligence	2006	€52,000	€538,000
<u>Infocomm Development Authority of Singapore</u>	<u>Singapore</u>	APAC	Intelligence	2008	€89,000	€1,209,967
Information Office	<u>Hungary</u>	Europe	Intelligence	2008	€41,000	€885,000
CSDN	<u>Morocco</u>	MEA	Intelligence	2009	€140,000	€1,936,050
UPDF (Uganda Peoples Defense Force), ISO (Internal Security Organization), Office of the President	<u>Uganda</u>	Africa	Intelligence	2015	€731,000	€920,197
Italy - DA - Rental	Italy	Europe	Other	2009	€50,000	€628,250
<u>Malaysian Anti-Corruption Commission</u>	<u>Malaysia</u>	APAC	Intelligence	2009	€77,000	€789,123
PCM	Italy	Europe	Intelligence	2009	€90,000	€764,297
SSNS - Ungheria	Hungary	Europe	Intelligence	2009	€64,000	€1,011,000
CC - Italy	Italy	Europe	LEA	2010	€50,000	€497,349
<u>Al Mukhabarat Al A'amah</u>	<u>Saudi Arabia</u>	MEA	Intelligence	2010	€45,000	€600,000
IR Authorities (Condor)	<u>Luxembourg</u>	Europe	Other	2010	€45,000	€446,000

La Dependencia y/o CISEN <sup>[54]</sup>	<u>Mexico</u>	LATAM	Intelligence	2010	€130,000	€1,390,000
UZC <sup>[55]</sup>	<u>Czech Republic</u>	Europe	LEA	2010	€55,000	€689,779
Egypt - MOD <sup>[55]</sup>	<u>Egypt</u>	MEA	Other	2011	€70,000	€598,000
<u>Federal Bureau of Investigation</u> <sup>[56]</sup>	USA	North America	LEA	2011	€100,000	€697,710
Oman - Intelligence	<u>Oman</u>	MEA	Intelligence	2011	€30,000	€500,000
President Security <sup>[57][58]</sup>	<u>Panama</u>	LATAM	Intelligence	2011	€110,000	€750,000
<u>Turkish National Police</u>	<u>Turkey</u>	Europe	LEA	2011	€45,000	€440,000
UAE - MOI	<u>UAE</u>	MEA	LEA	2011	€90,000	€634,500
<u>National Security Service</u> <sup>[55]</sup>	<u>Uzbekistan</u>	Europe	Intelligence	2011	€50,000	€917,038
<u>Department of Defense</u> <sup>[56]</sup>	USA	North America	LEA	2011		€190,000
Bayelsa State Government	<u>Nigeria</u>	MEA	Intelligence	2012	€75,000	€450,000
Estado de Mexico	Mexico	LATAM	LEA	2012	€120,000	€783,000
Information Network Security Agency	<u>Ethiopia</u>	MEA	Intelligence	2012	€80,000	€750,000
State security (Falcon)	Luxemburg	Europe	Other	2012	€38,000	€316,000
Italy - DA - Rental	Italy	Europe	Other	2012	€60,000	€496,000
MAL - MI	Malaysia	APAC	Intelligence	2012	€77,000	€552,000
<u>Direction générale de la surveillance du territoire</u>	Morocco	MEA	Intelligence	2012	€160,000	€1,237,500
<u>National Intelligence and Security Service</u> <sup>[55]</sup>	<u>Sudan</u>	MEA	Intelligence	2012	€76,000	€960,000
Russia - KVANT <sup>[59]</sup>	<u>Russia</u>	Europe	Intelligence	2012	€72,000	€451,017

Saudi - GID	Saudi	MEA	LEA	2012	€114,000	€1,201,000
SIS of National Security Committee of Kazakhstan <sup>[55]</sup>	<u>Kazakhstan</u>	Europe	Intelligence	2012	€140,000	€1,012,500
The 5163 Army Division (Alias of South Korean National Intelligence Service) <sup>[55][60][61]</sup>	<u>S. Korea</u>	APAC	Other	2012	€67,000	€686,400
UAE - Intelligence	<u>UAE</u>	MEA	Other	2012	€150,000	€1,200,000
Central Intelligence Agency <sup>[62]</sup>	USA	North America	Intelligence	2011		
Drug Enforcement Administration <sup>[56][63]</sup>	USA	North America	Other	2012	€70,000	€567,984
Central Anticorruption Bureau	<u>Poland</u>	Europe	LEA	2012	€35,000	€249,200
MOD Saudi	Saudi	MEA	Other	2013	€220,000	€1,108,687
PMO	Malaysia	APAC	Intelligence	2013	€64,500	€520,000
Estado de Queretaro	Mexico	LATAM	LEA	2013	€48,000	€234,500
National Security Agency <sup>[55]</sup>	<u>Azerbaijan</u>	Europe	Intelligence	2013	€32,000	€349,000
Gobierno de Puebla	Mexico	LATAM	Other	2013	€64,000	€428,835
Gobierno de Campeche	Mexico	LATAM	Other	2013	€78,000	€386,296
AC Mongolia	<u>Mongolia</u>	APAC	Intelligence	2013	€100,000	€799,000
Dept. of Correction Thai Police	<u>Thailand</u>	APAC	LEA	2013	€52,000	€286,482
National Intelligence Secretariat <sup>[64]</sup>	<u>Ecuador</u>	LATAM	LEA	2013	€75,000	€535,000
Police Intelligence Directorate	<u>Colombia</u>	LATAM	LEA	2013	€35,000	€335,000

<u>Guardia di Finanza</u>	Italy	Europe	LEA	2013	€80,000	€400,000
Intelligence <sup>[65]</sup>	<u>Cyprus</u>	Europe	LEA	2013	€40,000	€375,625
MidWorld <sup>[66]</sup>	<u>Bahrain</u>	MEA	Intelligence	2013		€210,000
Mexico - PEMEX	Mexico	LATAM	LEA	2013		€321,120
Malaysia K	Malaysia	APAC	LEA	2013		€0
Honduras	<u>Honduras</u>	LATAM	LEA	2014		€355,000
Mex Taumalipas	Mexico	LATAM		2014		€322,900
Secretaría de Planeación y Finanzas	Mexico	LATAM	LEA	2014	€91,000	€371,035
AREA	Italia	Europe		2014		€430,000
Mexico Yucatán	Mexico	LATAM	LEA	2014		€401,788
Mexico Durango	Mexico	LATAM	LEA	2014		€421,397
<u>Investigations Police of Chile</u>	<u>Chile</u>	LATAM	LEA	2014		€2,289,155
Jalisco Mexico	Mexico	LATAM	LEA	2014		€748,003
<u>Royal Thai Army</u>	Thailand	APAC	LEA	2014		€360,000
Vietnam GD5	<u>Vietnam</u>	APAC		2014		€281,170
<u>Kantonspolizei Zürich</u>	Switzerland	Europe	LEA	2014		€486,500
Vietnam GD1	Vietnam	APAC	LEA	2015		€543,810
Egypt TRD GNSE	Egypt	MEA	LEA	2015		€137,500
<u>Lebanese Army</u>	<u>Lebanon</u>	MEA	LEA	2015		
<u>Federal Police Department</u>	Brazil	LATAM	LEA	2015		
<u>National Anticorruption Directorate</u>	<u>Romania</u>	DNA	Intelligence	2015		
<u>State Informative Service</u> <sup>[67]</sup>	<u>Albania</u>	Europe	SHIK	2015		



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## See also

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- [FinFisher](#)
- [MiniPanzer and MegaPanzer](#)

## References

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- <sup>^</sup> <sup>a</sup> <sup>b</sup> <sup>c</sup> [Batey, Angus \(24 November 2011\). "The spies behind your screen". \*The Telegraph\*. Retrieved 26 July 2015.](#)
- <sup>^</sup> ["Enemies of the Internet: HackingTeam". \*Reporters Without Borders\*. Archived from the original on 29 April 2014. Retrieved 24 April 2014.](#)
- <sup>^</sup> [Marczak, Bill; Gaurneri, Claudio; Marquis-Boire, Morgan; Scott-Railton, John \(17 February 2014\). "Mapping HackingTeam's "Untraceable" Spyware". \*Citizen Lab\*. Archived from the original on 20 February 2014.](#)
- <sup>^</sup> [Kopfstein, Janus \(10 March 2014\). "Hackers Without Borders". \*The New Yorker\*. Retrieved 24 April 2014.](#)
- <sup>^</sup> [Marquis-Boire, Morgan; Gaurneri, Claudio; Scott-Railton, John; Kleemola, Katie \(24 June 2014\). "Police Story: HackingTeam's Government Surveillance Malware". \*Citizen Lab\*. University of Toronto. Archived from the original on 25 June 2014. Retrieved 3 August 2014.](#)
- <sup>^</sup> <sup>a</sup> <sup>b</sup> [Zorabedian, John \(8 April 2016\). "HackingTeam loses global license to sell spyware". \*Naked Security\*. Retrieved 15 May 2016.](#)
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- <sup>^</sup> [Jeffries, Adrienne \(13 September 2013\). "Meet HackingTeam, the company that helps the police hack you". \*The Verge\*. Retrieved 21 April 2014.](#)
- <sup>^</sup> [Jeffries, Adrienne \(13 September 2013\). "Meet Hacking Team, the company that helps the police hack you". \*The Verge\*. Retrieved 20 August 2021.](#)
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- <sup>^</sup> ["HackingTeam's US Nexus". 28 February 2014. Retrieved 2 August 2015.](#)
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- <sup>^</sup> [Lin, Philippe \(13 July 2015\). "HackingTeam Uses UEFI BIOS Rootkit to Keep RCS 9 Agent in Target Systems". \*TrendLabs Security Intelligence Blog\*. \*Trend Micro\*. Retrieved 26 July 2015.](#)
- <sup>^</sup> [Schneier, Bruce. "More on HackingTeam's Government Spying Software".](#)
- <sup>^</sup> [Guarnieri, Claudio; Marquis-Boire, Morgan \(13 January 2014\). "To Protect And Infect: The militarization of the Internet". At the 30th \[Chaos Communications Congress – "30C3"\]\(#\). \(Video or Audio\). \[Chaos Computer Club\]\(#\). Retrieved 15 August 2015.](#)



38. <sup>^</sup> [Ragan, Steve \(6 July 2015\). "HackingTeam responds to data breach, issues public threats and denials". CSO Online. Retrieved 22 July 2015.](#)
39. <sup>^</sup> [Stevenson, Alastair \(14 July 2015\). "A whole bunch of downed government surveillance programs are about to go back online". Business Insider. Retrieved 22 July 2015.](#)
40. <sup>^</sup> [Stevenson, Alastair \(8 September 2021\). "Hacking Team Customer in Turkey Was Arrested for Spying on Police Colleagues \[or: The Spy Story That Spun a Tangled Web\]". Zetter. Retrieved 8 September 2021.](#)
41. <sup>^</sup> [Jone Pierantonio. "Ecco chi ha bucato HackingTeam" Archived 6 August 2015 at the Wayback Machine. International Business Times. Retrieved 2 August 2015.](#)
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44. <sup>^</sup> [In Cyprus \(11 July 2015\). Intelligence Service chief steps down Archived 2015-08-15 at the Wayback Machine. Retrieved 26 July 2015.](#)
45. <sup>^</sup> [Perlroth, Nicole \(10 October 2012\). Ahead of Spyware Conference, More Evidence of Abuse. The New York Times \(Bits\).](#)

## External links

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- [Official website](#)
- [HackingTeam Archives](#) - investigative reports published by The [Citizen Lab](#)
- [WikiLeaks: The Hackingteam Archives](#) - searchable database of 1 million internal emails
- [HackingTeam presentations](#) in the [WikiLeaks "Spy Files"](#)

## Hacking in the 2010s

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### Timeline

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## Major incidents

- [Operation Aurora](#)
- [Australian cyberattacks](#)
- [Operation ShadowNet](#)
- [Operation Payback](#)

**2010**

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- 
- [DigiNotar](#)
  - [DNSChanger](#)
  - [HBGary Federal](#)
  - [Operation AntiSec](#)
  - [Operation Tunisia](#)
  - [PlayStation](#)
  - [RSA SecurID compromise](#)

**2011**

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- [LinkedIn hack](#)
- [Stratfor email leak](#)
- [Operation High Roller](#)

**2012**

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- [South Korea cyberattack](#)
- [Snapchat hack](#)
- [Cyberterrorism Attack of June 25](#)
- [2013 Yahoo! data breach](#)
- [Singapore cyberattacks](#)

**2013**

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- [Anthem medical data breach](#)
- [Operation Tovar](#)
- [2014 celebrity nude photo leak](#)
- [2014 JPMorgan Chase data breach](#)
- [Sony Pictures hack](#)
- [Russian hacker password theft](#)
- [2014 Yahoo! data breach](#)

**2014**

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- [Office of Personnel Management data breach](#)
- [Hacking Team](#)
- [Ashley Madison data breach](#)
- [VTech data breach](#)
- [Ukrainian Power Grid Cyberattack](#)
- [SWIFT banking hack](#)

**2015**

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- [Bangladesh Bank robbery](#)
- [Hollywood Presbyterian Medical Center ransomware incident](#)
- [Commission on Elections data breach](#)
- [Democratic National Committee cyber attacks](#)
- [Vietnam Airport Hacks](#)
- [DCCC cyber attacks](#)
- [Indian Bank data breaches](#)
- [Surkov leaks](#)
- [Dyn cyberattack](#)
- [Russian interference in the 2016 U.S. elections](#)
- [2016 Bitfinex hack](#)

**2016**

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- 
- [2017 Macron e-mail leaks](#)
  - [WannaCry ransomware attack](#)
  - [Westminster data breach](#)
  - [Petya cyberattack](#)
  - [2017 cyberattacks on Ukraine](#)
  - [Equifax data breach](#)
  - [Deloitte breach](#)
  - [Disqus breach](#)

**2017**

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- [Trustico](#)
- [Atlanta cyberattack](#)
- [SingHealth data breach](#)

**2018**

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- [Sri Lanka cyberattack](#)
- [Baltimore ransomware attack](#)
- [Bulgarian revenue agency hack](#)
- [Jeff Bezos phone hacking](#)

**2019**

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- [Anonymous associated events](#)
- [CyberBerkut](#)
- [GNAA](#)
- [Goatse Security](#)
- [Lizard Squad](#)
- [LulzRaft](#)
- [LulzSec](#)
- [New World Hackers](#)
- [NullCrew](#)
- [OurMine](#)
- [PayPal 14](#)
- [RedHack](#)
- [TeaMp0isoN](#)
- [TDO](#)
- [UGNazi](#)
- [Ukrainian Cyber Alliance](#)

**Hacktivism**

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- 
- [Bureau 121](#)
  - [Charming Kitten](#)
  - [Cozy Bear](#)
  - [Dark Basin](#)
  - [Elfin Team](#)
  - [Equation Group](#)
  - [Fancy Bear](#)
  - [Guccifer 2.0](#)
  - [Hacking Team](#)
  - [Helix Kitten](#)
  - [Iranian Cyber Army](#)
  - [Lazarus Group \(BlueNorOff\) \(AndAriel\)](#)
  - [NSO Group](#)
  - [PLA Unit 61398](#)
  - [PLA Unit 61486](#)
  - [PLATINUM](#)
  - [Pranknet](#)
  - [Red Apollo](#)
  - [Rocket Kitten](#)
  - [Syrian Electronic Army](#)
  - [Tailored Access Operations](#)
  - [The Shadow Brokers](#)
  - [Yemen Cyber Army](#)

**Advanced persistent threats**

- 
- [George Hotz](#)
  - [Guccifer](#)
  - [Jeremy Hammond](#)
  - [Junaid Hussain](#)
  - [Kristoffer von Hassel](#)
  - [Mustafa Al-Bassam](#)
  - [MLT](#)
  - [Ryan Ackroyd](#)
  - [Sabu](#)
  - [Topiary](#)
  - [Track2](#)
  - [The Jester](#)

**Individuals**

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- 
- [Evercookie](#) (2010)
  - [iSeeYou](#) (2013)
  - [Heartbleed](#) (2014)
  - [Shellshock](#) (2014)
  - [POODLE](#) (2014)
  - [Rootpipe](#) (2014)
  - [Row hammer](#) (2014)
  - [JASBUG](#) (2015)
  - [Stagefright](#) (2015)
  - [DROWN](#) (2016)
  - [Badlock](#) (2016)
  - [Dirty\\_COW](#) (2016)
  - [Cloudbleed](#) (2017)
  - [Broadcom Wi-Fi](#) (2017)
  - [EternalBlue](#) (2017)
  - [DoublePulsar](#) (2017)
  - [Silent Bob is Silent](#) (2017)
  - [KRACK](#) (2017)
  - [ROCA vulnerability](#) (2017)
  - [BlueBorne](#) (2017)
  - [Meltdown](#) (2018)
  - [Spectre](#) (2018)
  - [EFAIL](#) (2018)
  - [Exactis](#) (2018)
  - [Speculative Store Bypass](#) (2018)
  - [Lazy FP State Restore](#) (2018)
  - [TLBleed](#) (2018)
  - [SigSpoof](#) (2018)
  - [Foreshadow](#) (2018)
  - [Microarchitectural Data Sampling](#) (2019)
  - [BlueKeep](#) (2019)
  - [Kr00k](#) (2019)

**Major  
vulnerabilities  
publicly disclosed**

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**Malware**

- [Bad Rabbit](#)
- [SpyEye](#)
- [Stuxnet](#)

**2010**

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- [Alureon](#)
  - [Duqu](#)
  - [Kelihos](#)
  - [Metulji botnet](#)
  - [Stars](#)

**2011**

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- Carna
  - Dexter
  - FBI
  - Flame
  - Mahdi
  - Red October
  - Shamoon

**2012**

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- CryptoLocker
- DarkSeoul

**2013**

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- Brambul
- Carbanak
- Careto
- DarkHotel
- Duqu 2.0
- FinFisher
- GameOver Zeus
- Regin

**2014**

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- Dridex
- Hidden Tear
- Rombertik
- TeslaCrypt

**2015**

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- Hitler
- Jigsaw
- KeRanger
- MEMZ
- Mirai
- Pegasus
- Petya (NotPetya)
- X-Agent

**2016**

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- BrickerBot
- Kirk
- LogicLocker
- Rensenware ransomware
- Triton
- WannaCry
- XafeCopy

**2017**

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- Grum
  - Joanap
  - NetTraveler
  - R2D2
  - Tinba
  - Titanium
  - Vault 7
  - ZeroAccess botnet

**2019**

{software update}

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