

# Cozy Bear

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Published: 2015-08-07 · Archived: 2026-04-05 17:54:17 UTC

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"Office Monkeys" redirects here. For the 2003 British hidden camera television programme, see [Office Monkey](#).

Cozy Bear

<b>Formation</b>	c. 2008 <sup>[1]</sup>
<b>Type</b>	<a href="#">Advanced persistent threat</a>
<b>Purpose</b>	<a href="#">Cyberespionage</a> , <a href="#">cyberwarfare</a>
<b>Region</b>	<a href="#">Russia</a>
<b>Methods</b>	<a href="#">Spearphishing</a> , <a href="#">malware</a>
<b>Official language</b>	<a href="#">Russian</a>
<b>Parent organization</b>	<a href="#">SVR</a> (confirmed), <a href="#">FSB</a> (tentative) <sup>[2][3][4]</sup>
<b>Affiliations</b>	<a href="#">Fancy Bear</a>
<b>Formerly called</b>	APT29, CozyCar, CozyDuke, Dark Halo, The Dukes, Grizzly Steppe (when combined with <a href="#">Fancy Bear</a> ), NOBELIUM, Office Monkeys, StellarParticle, UNC2452, YTTRIUM (possibly)

**Cozy Bear**, also known as **APT29**, is a Russian [advanced persistent threat hacker group](#) believed to be associated with [Russian foreign intelligence](#) by [United States intelligence agencies](#) and those of [allied countries](#).<sup>[4][5]</sup> Dutch [signals intelligence](#) (AIVD) and [American intelligence](#) had been monitoring the group since 2014 and were able to link the hacker group to the Russian [foreign intelligence agency](#) (SVR) after compromising security cameras in their office.<sup>[6]</sup> [CrowdStrike](#) and [Estonian intelligence](#)<sup>[7]</sup> reported a tentative link to the Russian [domestic/foreign intelligence agency](#) (FSB).<sup>[2]</sup> Various groups designate it [CozyCar](#),<sup>[8]</sup> [CozyDuke](#),<sup>[9][10]</sup> **Dark Halo**, **The Dukes**,<sup>[11]</sup> **Midnight Blizzard**,<sup>[12]</sup> **NOBELIUM**,<sup>[13]</sup> **Office Monkeys**,<sup>[14]</sup> **StellarParticle**, **UNC2452**<sup>[15]</sup> with a

tentative connection to Russian hacker group YTTTRIUM.<sup>[16]</sup> [Symantec](#) reported that Cozy Bear had been compromising diplomatic organizations and national governments since at least 2010.<sup>[17]</sup> [Der Spiegel](#) published documents in 2023 purporting to link Russian IT firm [NTC Vulkan](#) to Cozy Bear operations.<sup>[18]</sup>

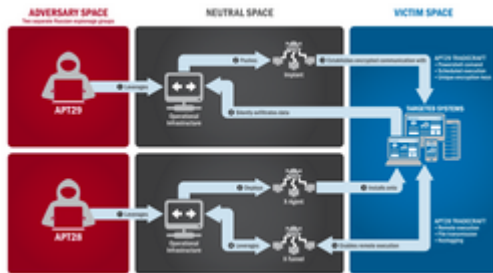


Diagram outlining Cozy Bear and [Fancy Bear](#)'s process of using of malware to penetrate targets

APT29 has been observed to utilize a malware platform dubbed "Duke" which [Kaspersky Lab](#) reported in 2013 as "MiniDuke", observed in 2008 against United States and [Western European](#) targets.<sup>[11]</sup> Its initial development was reportedly in [assembly language](#).<sup>[19]</sup> After Kaspersky's public reporting, later versions added [C/C++](#) components and additional [anti-analysis](#) features which were dubbed "Cozyduke", "Cosmicduke", "SeaDuke" and "OnionDuke"<sup>[1][19]</sup>

Cozy Bear has been observed using an initial exploit or phishing email with malicious attachments to load a [dropper](#) which installs a Duke variant as a [persistent trojan](#) onto the target computer. It then gathers and sends data to a [command and control server](#) based on its configuration and/or live operator commands. Cozy Bear has been observed updating and refining its malware to improve [cryptography](#), interactive functionality, and anti-analysis (including virtual machine detection).<sup>[19][20]</sup>

CosmicDuke was observed in 2013 as an updated version of MiniDuke with a more flexible plugin framework.<sup>[21]</sup> In 2014 OnionDuke leveraged the [Tor network](#) to conceal its command and control traffic and was distributed by infecting [binary executables](#) on the fly if they were transmitted unencrypted through a Russia-based Tor exit node.<sup>[22][23]</sup> "SeaDuke" appears to be a specialized trojan used in conjunction with other tools to compromise [high-value targets](#).<sup>[17]</sup>

The group reportedly developed the 'HAMMERTOSS' trojan in 2015 to evade detection by relaying commands over [covert channels](#) on [Twitter](#) and [GitHub](#).<sup>[24]</sup>

## Intrusion campaigns

[\[edit\]](#)

Cozy Bear has been observed targeting and compromising organizations and foreign governments worldwide (including Russian opposition countries such as NATO and [Five Eyes](#)) and the commercial sector (notably financial, manufacturing, energy and telecom).<sup>[19]</sup> Targeting also included South America, and Asia (notably [China](#) and [South Korea](#)).<sup>[25]</sup> The United States is a frequent target, including the [2016 Clinton campaign](#), political parties ([DNC](#), [RNC](#)), various executive agencies, the [State Department](#) and the [White House](#).<sup>[20]</sup>

## **Intrusion into U.S. government agencies (2014)**

[\[edit\]](#)

Cozy Bear malware was discovered on a [Washington, D.C.](#)-based private research institute in March 2014. Using compromised accounts at that organization, they sent phishing emails to other US government targets leveraging a malicious Flash file purporting to show "funny office monkeys".<sup>[17][1]</sup> By July the group had compromised several government networks.<sup>[17]</sup>

## **Exposure by Dutch intelligence (2014)**

[\[edit\]](#)

In the summer of 2014, the Dutch [General Intelligence and Security Service](#) (AIVD) infiltrated the camera network used by Cozy Bear's physical office. This footage confirmed targeting of the US Democratic Party, State Department and White House and may have been used in the [FBI](#) investigation into [2016 Russian election interference](#).<sup>[6][26]</sup>

## **Intrusion into Pentagon email servers (2015)**

[\[edit\]](#)

In August 2015 Cozy Bear was linked to a [spear phishing](#) campaign against the [Pentagon](#), which the resulting investigation shut down the entire [Joint Chiefs of Staff](#) unclassified email system.<sup>[27][28]</sup>

## **Intrusion into the U.S. Democratic National Committee (2016)**

[\[edit\]](#)

Cozy Bear and fellow Russian hacking group [Fancy Bear](#) (likely the [GRU](#)) were identified as perpetuating the [Democratic National Committee intrusion](#).<sup>[2]</sup> While the two groups were both present in the DNC's servers at the same time, they appeared to operate independently.<sup>[29]</sup> Further confirming their independent operations, [computer forensics](#) determined that Fancy Bear had only compromised the DNC for a few weeks while Cozy Bear had done so for over a year.<sup>[30]</sup>

## **Attempted intrusion into US think tanks and NGOs (2016)**

[\[edit\]](#)

After the [2016 United States presidential election](#), Cozy Bear was linked to [spear phishing](#) campaigns against multiple U.S.-based [think tanks](#) and [non-governmental organizations](#) (NGOs) related to national security, defense, international affairs, public policy, and European and Asian studies. Some emails were sent from compromised [Harvard](#) accounts.<sup>[31]</sup>

## **Attempted intrusion into Norwegian government (2017)**

[\[edit\]](#)

On 3 February 2017, the [Norwegian Police Security Service](#) (PST) reported that Cozy Bear had launched spear phishing campaigns against at least nine individuals across the [Ministry of Defence](#), [Ministry of Foreign Affairs](#), and the [Labour Party](#) in January 2017.<sup>[32]</sup> Other targets included the [Norwegian Radiation Protection Authority](#) and members of the [Norwegian Police Security Service](#), including section chief Arne Christian Haugstøyl. Norwegian Prime Minister [Erna Solberg](#) called the acts "a serious attack on our democratic institutions."<sup>[33]</sup>

### **Attempted intrusion into Dutch ministries (2016-2017)**

[\[edit\]](#)

Reported in February 2017, both Cozy Bear and Fancy Bear had been attempting to compromise into Dutch ministries since 2016. Targets included the [Ministry of General Affairs](#). Then-head of the Dutch intelligence service AIVD [Rob Bertholee](#), stated on [EenVandaag](#) television that the Russian intrusion had targeted government documents.<sup>[34]</sup>

In response, Dutch [Minister of the Interior and Kingdom Relations](#) [Ronald Plasterk](#) announced that the March 2017 [Dutch general election](#) would be [counted by hand](#).<sup>[35]</sup>

### **Duke variants and Operation Ghost (2019)**

[\[edit\]](#)

In 2019 [ESET](#) reported that three malware variants had been attributed to Cozy Bear: PolyglotDuke, RegDuke and FatDuke. The malware had reportedly improved its anti-analysis methods and had been observed being used in intrusion campaigns dubbed "Operation Ghost".<sup>[36]</sup>

### **Attempted theft of COVID-19 vaccine data (2020)**

[\[edit\]](#)

In July 2020 Five Eyes intelligence agencies [NSA](#), [NCSC](#) and [CSE](#) reported that Cozy Bear had attempted to obtain [COVID-19 vaccine](#) data via intrusion campaigns.<sup>[37][38][39][40][4]</sup>

### **SUNBURST malware supply chain attack (2020)**

[\[edit\]](#)

On 8 December 2020, U.S. cybersecurity firm [FireEye](#) disclosed that their [internal tools had been stolen](#) by a nation-state.<sup>[41][42]</sup> Later investigations implicated an internal compromise of [software deployments](#) of [SolarWinds](#) Orion IT management product to distribute a trojan that FireEye dubbed SUNBURST.<sup>[43]</sup> SolarWinds later confirmed that it had been compromised by a foreign nation state.<sup>[44]</sup> and the [U.S. Cybersecurity and Infrastructure Security Agency](#) (CISA) to issue an emergency directive that U.S. government agencies rebuild the affected software from trusted sources. It also attributed the intrusion campaign to the Russian SVR.<sup>[45]</sup>

Approximately 18,000 SolarWinds clients were vulnerable to the compromised Orion software.<sup>[46]</sup> Estimates based on DNS C2 activity indicate that around one percent of these SolarWinds clients were selected for stage-two operations, where the perpetrators installed backdoors to remotely control the vulnerable SolarWinds installations.<sup>[47]</sup> The *Washington Post* cited anonymous sources that attributed Cozy Bear as the perpetrator.<sup>[48][4]</sup>

According to Microsoft,<sup>[49]</sup> the hackers compromised SolarWinds [code signing](#) certificates and deployed a backdoor that allowed impersonation of a target's user account via a malicious [Security Assertion Markup Language](#) definition.<sup>[50]</sup>

### **Intrusion into U.S. civilian agencies (2020)**

[\[edit\]](#)

On 20 December 2020 the U.S. Government reported that Cozy Bear was responsible for compromising the networks of civilian agencies [Department of Commerce](#) and [Department of the Treasury](#).<sup>[51]</sup>

### **Intrusion into the U.S. Republican National Committee (2021)**

[\[edit\]](#)

In July 2021, Cozy Bear breached systems of the [Republican National Committee](#).<sup>[52][53]</sup> Officials said they believed the attack to have been conducted through [Synnex](#), a compromised third-party IT vendor.<sup>[52]</sup>

### **Active Directory authentication bypasses (2021–2022)**

[\[edit\]](#)

In 2021 Microsoft reported that Cozy Bear was leveraging the "FoggyWeb" tool to dump authentication tokens from compromised [Active Directory](#) instances. This was performed after they gained access to a machine on the target network and were able to obtain AD administrator credentials.<sup>[54]</sup> On 24 August 2022, Microsoft reported the group has deployed a similar tool "MagicWeb" to bypass user authentication on affected [Active Directory Federated Services](#) servers.<sup>[55]</sup>

### **Intrusion into Microsoft (2024)**

[\[edit\]](#)

In January 2024, Microsoft reported having recently discovered and ended a breach beginning the previous November of the email accounts of their senior leadership and other employees in the legal and cybersecurity teams using a "password spray", a form of [brute-force attack](#). This hack conducted by Midnight Blizzard appears to have aimed to find what the company knew about the hacking operation.<sup>[56]</sup>

### **Intrusion into TeamViewer (2024)**

[\[edit\]](#)

German technology company [TeamViewer SE](#) reported on June 28, 2024, its corporate IT network had been compromised by Cozy Bear.<sup>[57]</sup> It stated that user data and its [TeamViewer remote desktop software](#) product was unaffected.<sup>[58]</sup>

- [2016 United States election interference by Russia](#)
- [The Plot to Hack America](#)
- [Vulkan files leak](#)

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