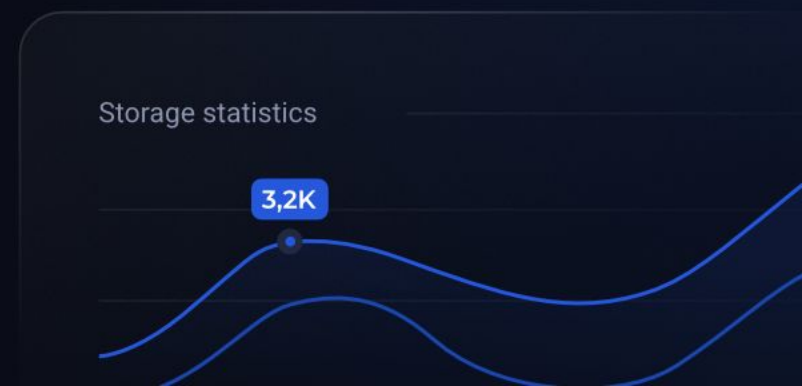
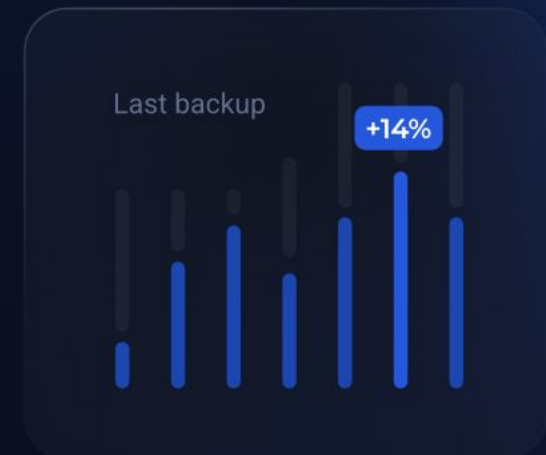




GitProtect.io

# State of DevOps Threats 2026

## Key Takeaways & Recommendations



# The 2025 devops threat landscape

Major development platforms and pipelines are now primary channels for malware delivery and infrastructure control.

Adversaries have pivoted to identity abuse, leveraging stolen tokens to bypass modern defenses at scale.



# The cost of fragility

Operational risk is surging: 2025 saw a **40%** rise in platform incidents and **1,750+** hours of high-severity downtime.

Reactive monitoring is obsolete; the **2026** mandate is a total shift toward absolute architectural resilience.

The following pages outline the core mechanics of each threat vector, the hard data behind them, and our strategic recommendations for remediation.



# 01 AI in DevOps & automation risks

## The Productivity Trap

AI tools help developers write code faster and automate repetitive tasks. However, it's important to remember that AI-generated code can accelerate defects rather than reduce them.

## The AI Agent Insider Threat

Autonomous AI agents operate with elevated environment privileges. Adversaries exploit the common practice of embedding raw user content into AI prompts without proper sanitization, triggering unauthorized workflows and privileged command execution.

## Automation Identity Leakage

Long-lived tokens, often used for automation and continuous deployment, create high-risk non-human identities that can outlast their intended scope, amplifying security fragility and leaving persistent backdoors open.

**+65**

**AI-related incidents analyzed  
within main DevOps platforms**

**1.43x**

**More AI-related incidents  
in the second half of 2025**

**65%**

**Top AI producers  
leaked secrets on GitHub repos**

Source: Wiz

## Our Recommendation

-  Treat AI tools as untrusted actors by default
-  Enforce strict input sanitization and least-privilege access for AI agents
-  Require short-lived credentials and human-in-the-loop reviews
-  Harden CI/CD workflows and continuously monitor AI-driven actions

## 02 Software supply chain compromise

### Poisoning the Well

During 2025, attackers disguised malware as legitimate security tools and vulnerability scanners, tricking even experienced researchers into executing malicious code within local script execution environments.

### The Illusion of Trust

Multiple large-scale campaigns demonstrated how stolen tokens and malicious workflows could cascade into thousands of affected repositories. Typosquatting and malicious lookalike packages remain difficult to detect.

### Cascading Blast Radius

A single leaked token, combined with permissive CI/CD configurations, enables months-long, multi-project compromises across the software supply chain, leading to complete pipeline takeover.

# 400K

**Dev secrets exposed during the  
second wave of the Shai-Hulud 2.0  
attack**

Source: Wiz

# 3,300+

**Exfiltrated keys leaked across  
hundreds of public and private  
repositories**

Source: GitGuardian

# 1,750

**Poisoned open-source  
projects hosted on GitHub**

Source: Leiden University

## Our Recommendation

-  Harden CI/CD and developer workflows by enforcing short-lived, least privilege tokens
-  Continuously monitor repositories, workflows, and dependencies for anomalies
-  Verify all third-party code, PoCs, and tools before using them
-  Treat automation, secrets, and open-source trust as critical security boundaries, not defaults

## 03 Secrets leakage & identity attacks

### Identities as the New Perimeter

Attackers systematically shifted focus from traditional perimeter breaches to the software supply chain and cloud identity layer, targeting SaaS platform credentials, SSH keys, and cloud IAM tokens.

### MFA Interception & PhaaS

Phishing-as-a-Service (PhaaS) platforms used adversary-in-the-middle techniques to intercept credentials and session tokens in real time, effectively neutralizing common MFA protections.

### Stealth Identity Takeovers

Adversaries increasingly abuse legitimate platforms, OAuth flows, and developer infrastructure to blend into normal activity, allowing malicious third-party SaaS extensions to remain completely hidden.

# 17K

**Exposed secrets in public GitLab  
cloud repositories**

Source: Luke Marshall

# 73%

**Organizations that store cloud  
credentials in GitHub  
Actions secrets**

Source: Wiz

# 94+

**The number of countries  
where Microsoft credentials  
were stolen**

Source: Microsoft

## Our Recommendation



Enforce least privilege access to protect data



Rotate credentials frequently



Continuously monitor CI/CD workflows, repositories,  
and cloud accounts for anomalies



Adopt phishing-resistant MFA, secret management,  
and automated dependency scanning

## 04 DevOps platform outages & service risks

### Centralized Points of Failure

Centralized SaaS and cloud platforms act as single points of failure at a global scale. Repeated failures highlight how configuration changes and maintenance errors can cascade rapidly into operational freezes.

### The Automation Cascade

Automated DNS management system defects, database saturation, and bad config deploys recursively shut down downstream developer pipelines, silently halting deployments and CI/CD.

### Multi-SaaS Redundancy

Modern software teams face immense cloud concentration risks. Resilience requires designing systems that maintain offline, cross-platform recovery paths and avoid single-provider dependencies.

# 607

The total number of incidents in 2025 across major DevOps and project management platforms

# 1,769h

Hours of downtime across major DevOps and project management platforms in 2025

# +69%

Year-over-year increase in critical and major incidents compared to 2024

## Our Recommendation



Build a reliable backup and disaster recovery plan to reduce outage impact



Avoid single-provider dependencies with multi-region and multi-service redundancy



Test disaster recovery procedures regularly



Maintain offline access, backup communication paths, and a clear incident response plan

## 05 Vulnerabilities, exploits, and patches

### The Severity Shift

DevOps platforms frequently expose enterprise risk through authentication and CI/CD flaws. Critical flaws increasingly allow for unauthorized access, privilege escalation, or remote code execution.

### Third-Party Dependencies

Vulnerabilities stem from weaknesses in third-party components buried inside deeply nested libraries. High-impact flaws in SSO and SAML enable attackers to authenticate as valid users.

### Vulnerability Loop

Large language models have been contaminated, with up to 95% of AI-generated file-server code being vulnerable. This reinforces a cycle of insecure code reuse and manual logic defects.

# 59%

**Patched DevOps vulnerabilities in 2025 rated as high or critical severity.**

# +76%

**The increase in patched vulnerabilities from Q1 to Q4 in 2025**

# +123%

**Increase in high-severity vulnerabilities from H1 to H2**

## Our Recommendation

-  Monitor DevOps platforms for vulnerability updates and security recommendations
-  Implement on-time patches to reduce the risk from high-severity vulnerabilities
-  Audit third-party dependencies and restrict guest access
-  Continuously monitor for anomalies to defend against supply-chain exploits

## 06 Phishing & identity exploits

### The Assumption of Trust

Emails masquerading as document shares or security alerts exploit trust in open-source tools and platform notifications. This bypasses human scrutiny to deliver malicious links and attachments.

### Turnkey PhaaS Infrastructure

Automated, commercial Phishing-as-a-Service tools render real-time login captures and intercept hardware 2FA workflows instantaneously.

### Token & Cookie Hijacking

Adversaries capture credentials and session cookies to bypass MFA protections. Attackers abuse legitimate infrastructure like ADFS to make malicious links appear fully trustworthy.

**1M**

**Phishing attempts powered by the  
Whisper 2FA platform by October  
2025**

Source: Barracuda

**5,000**

**Downloads of malicious releases  
before removal**

Source: The Hacker News

**50%**

**Success rate of attempted  
Microsoft 365 account  
compromises**

Source: Proofpoint

## Our Recommendation

-  Restrict OAuth device code flows with Conditional Access
-  Enforce app consent approvals and continuously audit authorized applications
-  Combine phishing-resistant MFA with behavior-based detection
-  Focus user training on device codes and trusted platform abuse

## 07 APT campaigns & targeted operations

### Dev Platforms as C2 Infrastructure

Multiple groups leverage GitHub repositories as command-and-control infrastructure and malware hosting platforms to bypass standard web filtering.

### The Open-Source Arsenal

Modern ransomware operators build up to 80% of their toolkits from modified, public open-source tools. They use Bring Your Own Vulnerable Driver (BYOVD) to disable local antivirus defenses.

### Infiltrated Workflows

Operatives secure remote positions by fabricating histories and coordinating commits to manage platform credibility, embedding rogue IT workers inside enterprise networks for espionage.

# +1,600+

**Victims infected by a single  
targeted APT campaign**

Source: Check Point

# 30min

**Interval at which malware,  
deployed during a spearphishing  
campaign**

Source: Cyber Security News

# 233

**Confirmed victims across the US,  
Europe, and Asia targeted by a  
cryptocurrency theft operation**

Source: Strike

## Our Recommendation



Monitor and restrict the use of public repositories  
for internal workflows



Enforce strict access controls on API tokens



Validate code from third-party sources



Deploy behavioral detection to flag unusual repository activity and  
prevent the impact of malware, ransomware, and APT campaigns

## 08 DevOps breaches & enterprise risks

### Targeting the Blueprint

Attackers prioritize repository and ticket environments yielding cloud access keys and API logic. Lateral movement enables shifts from developer environments into production systems.

### The Lateral Pipeline Shift

By infecting endpoint workstations with lightweight infostealers, attackers harvest persistent cookies to move directly from QA and dev systems to live production environments.

### Persistent Stale Credentials

Unrotated, long-lived credentials remain valid for years after employees leave. This highlights the long-term risk posed by unrevoked root AWS credentials and exposed GitHub tokens.

# 21K

**Nissan customers whose personal information was exposed in a third-party data breach**

Source: Bleeping Computer

# \$890M

**Financial shortfall caused by a cyberattack on Jaguar Land Rover**

Source: Security Week

# 1.1TB

**Internal data stolen from Disney's Slack channels**

Source: The Register

## Our Recommendation

-  Enforce strict credential hygiene
-  Rotate and revoke old access tokens, and implement least-privilege access across DevOps platforms
-  Utilize continuous monitoring and repository audits
-  Implement employee security training to prevent unauthorized access, insider threats, and supply chain abuse

## 09 Malware hosting on dev platforms

### Safe-Haven Illusion

Malware distribution networks host malicious binaries directly inside public Git repositories to bypass corporate web content filtering policies and DNS blocks.

### Evasion Bloating Architecture

Downloaders artificially inflate executable sizes to 500MB+ using meaningless padding bytes. This makes detection and mitigation difficult while stolen data is sold on the dark web.

### Target System Scavenging

Modular payloads with anti-analysis checks target browser credentials and financial access data. Attackers deceive developers with polished README files and inflated commit histories.

# 1M

**Devices hit worldwide in a  
GitHub-linked malvertising attack**

Source: Bleeping Computer

# 76

**GitHub accounts linked to a  
campaign distributing multi-stage  
malware via fake open-source  
projects**

Source: Trend Micro

# \$5K

**Price Per Stolen Digital  
Identity Package**

Source: Trend Micro

## Our Recommendation

-  Enforce strict code vetting and limit access to repositories
-  Scan third-party projects for malware before use
-  Combine repository monitoring, behavioral analysis, and credential hygiene
-  Increase employee awareness to prevent attacks exploiting fake or trojanized dev projects, malvertising, and supply chain abuse

## 10 Compliance, privacy & governance

### Inaccurate Compliance Claims

Falsified security statements lead to immediate federal enforcement. Organizations are penalized for inaccurate certifications and weak internal controls, even without confirmed breaches.

### Non-Consensual Data Processing

Enterprise data controls cannot be delegated. Regulators hold enterprises legally responsible when cloud platforms track data or set cookies without explicit transparency or user consent.

### Negligent Threat Patching

Failing to patch known vulnerabilities and ignoring audit warnings are primary drivers for maximum regulatory penalties. Organizations must isolate compromised devices quickly.

**335**

**The number of GDPR-related  
compliance incidents recorded by  
regulators in 2025**

Source: Enforcement Tracker

**\$11.25M**

**Settlement paid to resolve  
allegations of falsely certifying  
cybersecurity compliance**

Source: SC Media

**£14M**

**Penalty for failing data  
protection requirements**

Source: The Guardian

## Our Recommendation

-  Enforce strict compliance requirements to ensure transparency, consent, and clear data handling with cloud providers
-  Maintain regular vulnerability management and rapid incident response procedures
-  Implement continuous monitoring to prevent data exposure and protect sensitive information
-  Assign clear accountability metrics across all involved parties



# What you'll get with GitProtect

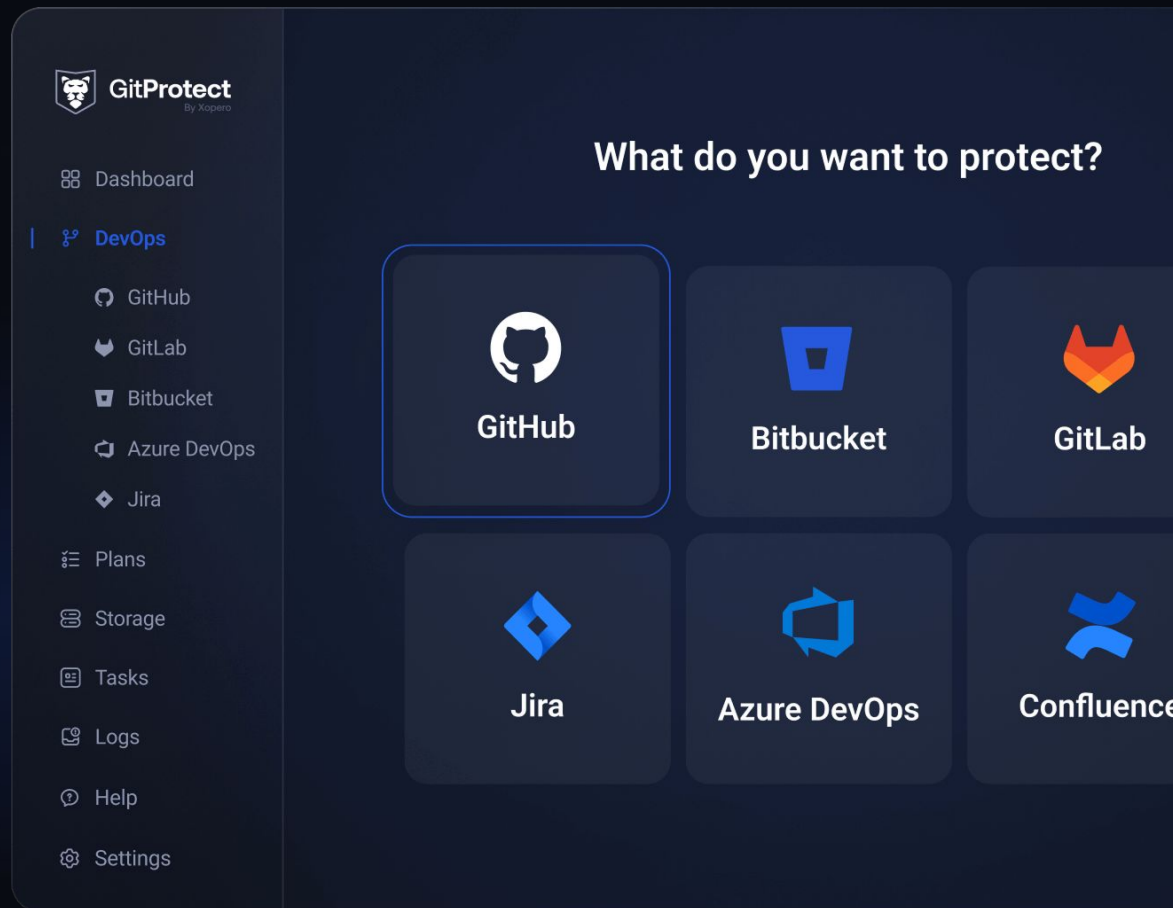
GitProtect is an automated backup and disaster recovery solution built for DevOps environments, including GitHub, GitLab, Bitbucket and Jira.

It protects source code and DevOps metadata from accidental deletion, ransomware, and service outages, so teams can restore quickly and keep delivery moving.

GitProtect helps you reduce backup-and-recovery risk and prepare the documentation needed for certification and ongoing audits.

**Ready to see it in action?**

[Book a demo](#)





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