

Backdoors in Python and NPM Packages Target Windows and Linux

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New research from Checkmarx Zero has unveiled a unique malicious software campaign that targets Python and NPM users on both Windows and Linux systems.

Security researcher Ariel Harush at Checkmarx Zero has identified this troubling new trend in cyberattacks. According to their research, shared with Hackread.com, attackers are using [typosquatting](#) and name-confusion techniques to trick users into downloading harmful software.

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What makes this campaign especially unusual is its *cross-ecosystem* approach. The malicious packages, uploaded to [PyPI](#) (Python Package Index), mimic the names of legitimate software from two different programming ecosystems: colorama (a popular Python tool for adding color to text in terminals) and colorizr (a similar JavaScript package found on NPM, the Node Package Manager). This means an attacker is using a name from one platform to target users of another, a rarely seen tactic.

The packages uncovered by Checkmarx Zero carried highly risky [payloads](#), designed to give attackers lasting remote access and remote control over both desktops and servers. This allows them to “harvest and exfiltrate sensitive data,” meaning they can steal important information.

On Windows systems, the malware even attempts to bypass antivirus software to avoid being detected.

Checkmarx also linked some of the Windows payloads to a [GitHub](#) account: `githubcom/s7bhme` .

For Linux users, the malicious packages were found to contain advanced backdoors that could establish encrypted connections, steal information, and maintain a hidden, long-term presence on affected systems.

The campaign, likely designed to attack specific targets, is currently untraceable due to the lack of clear attribution data, leaving it unclear whether it is linked to a well-known adversary.

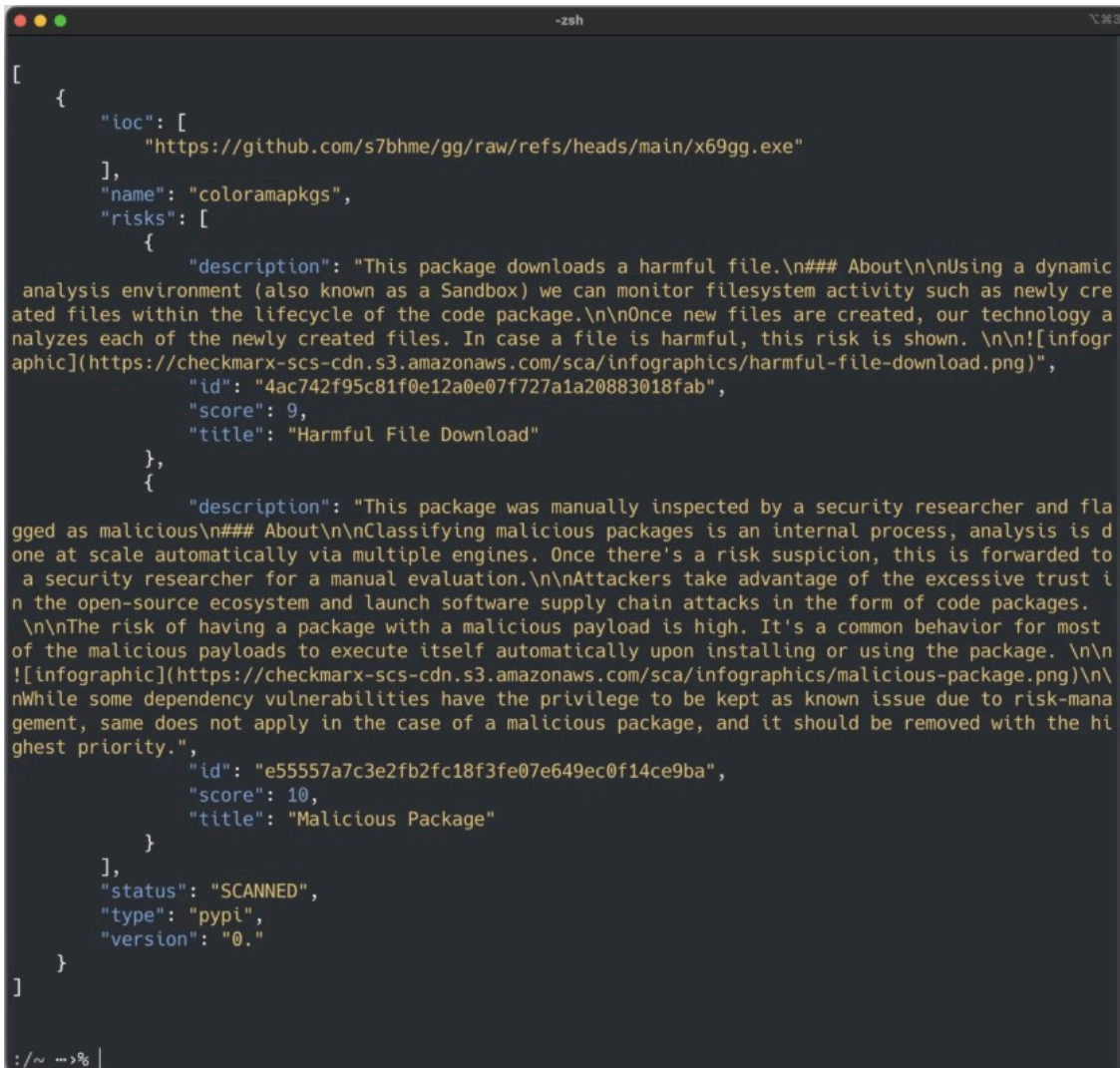
Thankfully, these specific malicious packages have been removed from public software repositories, which has limited their immediate potential for causing damage. Although the immediate threat has been contained, Checkmarx advises organizations to be ready for similar attacks.

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```
[
  {
    "ioc": [
      "https://github.com/s7bhme/gg/raw/refs/heads/main/x69gg.exe"
    ],
    "name": "coloramapkgs",
    "risks": [
      {
        "description": "This package downloads a harmful file.\n### About\n\nUsing a dynamic analysis environment (also known as a Sandbox) we can monitor filesystem activity such as newly created files within the lifecycle of the code package.\n\nOnce new files are created, our technology analyzes each of the newly created files. In case a file is harmful, this risk is shown. \n\n![[infographic](https://checkmarx-scs-cdn.s3.amazonaws.com/sca/infographics/harmful-file-download.png)",
        "id": "4ac742f95c81f0e12a0e07f727a1a20883018fab",
        "score": 9,
        "title": "Harmful File Download"
      },
      {
        "description": "This package was manually inspected by a security researcher and flagged as malicious\n### About\n\nClassifying malicious packages is an internal process, analysis is done at scale automatically via multiple engines. Once there's a risk suspicion, this is forwarded to a security researcher for a manual evaluation.\n\nAttackers take advantage of the excessive trust in the open-source ecosystem and launch software supply chain attacks in the form of code packages.\n\nThe risk of having a package with a malicious payload is high. It's a common behavior for most of the malicious payloads to execute itself automatically upon installing or using the package. \n\n![[infographic](https://checkmarx-scs-cdn.s3.amazonaws.com/sca/infographics/malicious-package.png)\n\nWhile some dependency vulnerabilities have the privilege to be kept as known issue due to risk management, some does not apply in the case of a malicious package, and it should be removed with the highest priority.",
        "id": "e55557a7c3e2fb2fc18f3fe07e649ec0f14ce9ba",
        "score": 10,
        "title": "Malicious Package"
      }
    ],
    "status": "SCANNED",
    "type": "pypi",
    "version": "0."
  }
]
```

Query results for 'coloramapkgs' retrieved via the Checkmarx Threat Intelligence API

“By combining typo-squatting and related name confusion attacks, cross-ecosystem baiting, and multi-platform payloads, this attack serves as a reminder of how opportunistic and sophisticated open-source supply chain threats have become,” Checkmarx researchers noted in their [blog post](#).

Researchers suggest checking all active and ready-to-use application code for any signs of these malicious package names. It is also crucial to inspect private software storage areas, like Artifactory, to remove any harmful packages and prevent their future installation.

Furthermore, companies should ensure that these types of dangerous packages aren't installed on developer computers or in testing environments. These steps are vital for defending against such sophisticated open-source supply chain attacks.

Source: <https://hackread.com/backdoors-python-npm-packages-windows-linux/>