

Dependency Confusion

A dependency confusion attack or supply chain substitution attack occurs when a software installer script is tricked into pulling a malicious code file from a public repository instead of the intended file of the same name from an internal repository.

Summary

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Tools

- [Confused](#)

Exploit

Look for [npm](#), [pip](#), [gem](#) packages, the methodology is the same : you register a public package with the same name of private one used by the company and then you wait for it to be used.

NPM example

- List all the packages (ie: package.json, composer.json, ...)
- Find the package missing from <https://www.npmjs.com/>
- Register and create a **public** package with the same name
 - Package example : <https://github.com/0xsapra/dependency-confusion-exploit>

References

- [Exploiting Dependency Confusion - 2 Jul 2021 - 0xsapra](#)
- [Dependency Confusion: How I Hacked Into Apple, Microsoft and Dozens of Other Companies - Alex Birsan - 9 Feb 2021](#)
- [Ways to Mitigate Risk When Using Private Package Feeds - Microsoft - 29/03/2021](#)
- [\\$130,000+ Learn New Hacking Technique in 2021 - Dependency Confusion - Bug Bounty Reports Explained](#)