snyk Vulnerability DB

Snyk Vulnerability Database > Go > github.com/u-root/u-root/pkg/uzip

Arbitrary File Write via Archive Extraction (Zip Slip)

Affecting github.com/u-root/u-root/pkg/uzip package, versions <0.9.0



INTRODUCED: 1 SEP 2020	CVE-2020-7665 2	CWE-22 ②	FIRST ADDED BY SNYK	Share	~
How to fix? Upgrade github.com/u-	root/u-root/pkg/uzi	p to version	0.9.0 or higher.		

Overview

github.com/u-root/u-root/pkg/uzip is a package that provides Go versions of standard Linux tools and bootloaders. It also provides tools for compiling Go programs in a single binary and creating initramfs images.

Affected versions of this package are vulnerable to Arbitrary File Write via Archive Extraction (Zip Slip). It is vulnerable to both leading and non-leading relative path traversal attacks in zip file extraction.

PoC

package main import ("fmt" uzip "github.com/u-root/u-root/pkg/uzip") func main() { file :=
 "relative.zip" err := uzip.fromZip(file, ".") if err != nil { fmt.Println(err) }
}

 $with \ "relative.zip" \ being \ a \ zip \ archive \ that \ includes \ a \ file \ with \ filepath \ that \ uses \ leading \ or \ non-leading \ "../".$

Details

It is exploited using a specially crafted zip archive, that holds path traversal filenames. When exploited, a filename in a malicious archive is concatenated to the target extraction directory, which results in the final path ending up outside of the target folder. For instance, a zip may hold a file with a "../../file.exe" location and thus break out of the target folder. If an executable or a configuration file is overwritten with a file containing malicious code, the problem can turn into an arbitrary code execution issue quite easily.

The following is an example of a zip archive with one benign file and one malicious file. Extracting the malicous file will result in traversing out of the target folder, ending up in /root/.ssh/ overwriting the authorized_keys file:

```
+2018-04-15 22:04:29 .... 19 19 good.txt

+2018-04-15 22:04:42 .... 20 20 ../../../../root/.ssh/authorized_keys
```

References

- GitHub Commit
- GitHub PR
- GitHub PR

Snyk CVSS		
Exploit Maturity	Proof of concept	2
Attack Complexity	y Low	9
Integrity	HIGH	0
See more		
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Disclosed	1 Sep 20	

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Registered address: Highlands House, Basingstoke Road, Spencers Wood, Reading, Berkshire, RG7 1NT.