1. Create a file to be executed by the PICOC interpreter

PICOC Null Pointer Dereference Denial of Service

PICOC Suffers from a Denial of Service (CWE476) vulnerability as a result of a Null Pointer Dereference. Any project or library that uses Picoc also suffers from this issue. An example of this would be picoc-js (https://www.npmjs.com/package/picoc-js). As a result PICOC will immediately segfault.

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	,	'	
\$ touch vulncode			

2. Add the following code to the file:

```
printf("Before Crash\n");
**4%;
printf("This code won't execute because of the crash\n");
```

3. Execute PICOC against the file:

```
$ ./picoc -s vulncode
```

4. You will receive a segfault and the program will crash. This is a result of a null pointer dereference that is not caught or handled by the interpreter. The vulnerable line of code can be seen below:

**4%;

Solution

Adding a few if statements that verify the pointer is not NULL before usage will solve this problem. You can find more information about this here:

https://owasp.org/www-community/vulnerabilities/Null Dereference

To upload designs, you'll need to enable LFS and have an admin enable hashed storage. More information



No tasks are currently assigned. Use tasks to break down this issue into smaller parts.

Linked items 🗇 0

Link issues together to show that they're related or that one is blocking others. Learn more.

Activity



HalcyOnic @HalcyOnic · 4 months ago

Author

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