```
CVE-2022-41034
Visual Studio Code: Remote Code Execution
```

Ox10 Background



## **0x11 CVE-2022-41034 Impact**

\_\_\_

- Impact
  - o Visual Studio Code

```
version 1.4.0 - 1.71.1
```

### **0x11 CVE-2022-41034 Impact**

\_\_\_

- Impact
  - o Visual Studio Code

```
version 1.4.0 - 1.71.1
```

#### Usage:

o Remote Code Execution

0x20

**Remote Code Execution** 

**Technical Details** 



#### **0x21 Vulnerability Analyze**

• vscode/extensions/notebook-renderers/src/index.ts

#### **0x21 Vulnerability Analyze**

• vscode/extensions/notebook-renderers/src/index.ts

```
return {

renderOutputItem: async (outputInfo, element, signal?: AbortSignal) => {

switch (outputInfo.mime) {

case 'text/html':

case 'image/svg+xml': {

if (!ctx.workspace.isTrusted) {

return;

}

return;

await renderHTML(outputInfo, element, signal!, htmlHooks);

break;

}
```

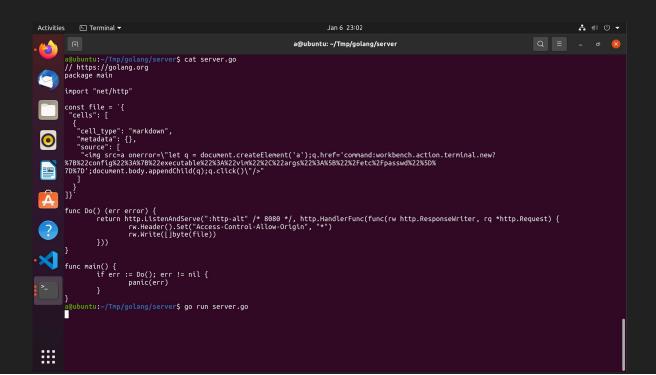
# Ox30 Exploiting

CVE-2022-41034



#### **Ox31 Visual Studio (Microsoft)**

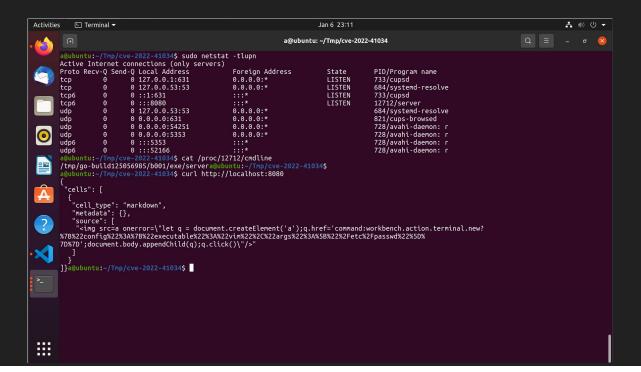
• Run an HTTP server



#### **Ox32 Visual Studio (Microsoft)**

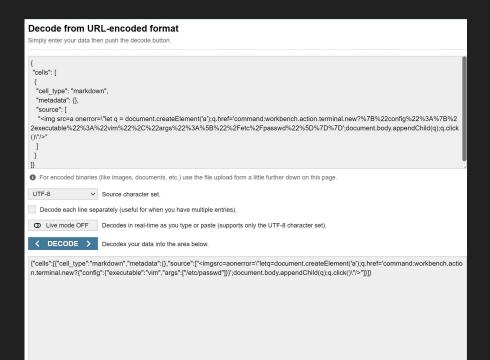
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Check payload



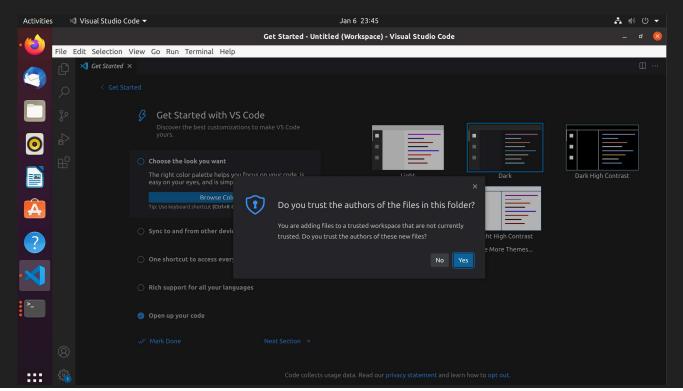
#### **0x32** The Vulnerability

decode



#### **0x32** The Vulnerability

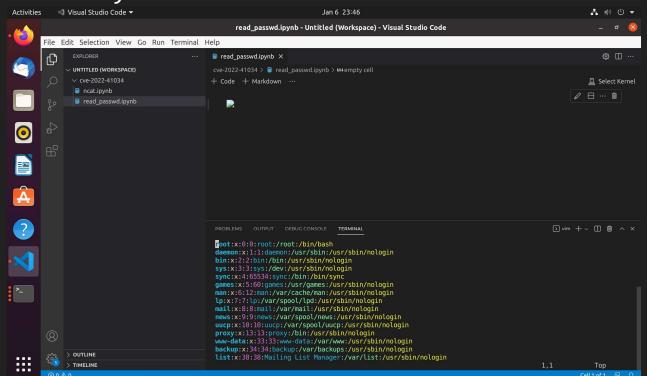
Trust this folder



#### **0x32** The Vulnerability

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Arbitrary File Disclosure



#### **Ox42** Reference links

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- CVE-2022-45025 Detail
  - O https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2022-41034
- Studio Code: Remote Code Execution
  - O https://github.com/google/security-research/security/advisories/GHSA-pw56-c55x-cm9m
- Researchers released PoC for RCE (CVE-2022-41034) in Visual Studio Code
  - O https://securityonline.info/researchers-released-poc-for-rce-cve-2022-41034-in-visual-studio-code/
- vscode/extensions/notebook-renderers/src/index.ts
  - O https://github.com/microsoft/vscode/blob/c6698eacedf365c2f152f1df85a79bd6da71fa02/extensions/notebook-renderers/src/index.ts#L257

mov rax, 60 xor rdi, rdi syscall