

Defend your code against **SpringShell** in two ways: read our [blog post](#) with what-to-do advice, and use **Checkmarx SCA** to test your applications.

Hostname Spoofing In Urijs

JAVASCRIPT

IMPROPER VALIDATION

SPOOFING

NPM



Yaniv Nizry Feb 13, 2021

[Details](#)[Overview](#)

Summary

Affected versions of urijs fails to validate the hostname correctly when using backslash in the protocol e.g. `http:\`. Browsers accept backslashes after the protocol, and treat it as a normal slash, while urijs sees it as a relative path.

Product

urijs before 1.19.6.

Impact

Depending on library usage and attacker intent, impacts may include allow/block list bypasses, SSRF attacks, open redirects, or other undesired behavior.

Steps To Reproduce

```
var URI = require('urijs');
URI('http://www.google.com');
```

Expected Result:

the url would be relative without a hostname:

```
URI {
  _string: '',
  _parts: {
    protocol: 'http',
    username: null,
    password: null,
    hostname: null,
    urn: true,
    port: null,
    path: '/www.google.com',
    query: null,
    fragment: null,
    preventInvalidHostname: false,
    duplicateQueryParameters: false,
    escapeQuerySpace: true
  },
  _deferred_build: true
}
```

Remediation

Update urijs dependency to 1.19.6 or above.

Credit

This issue was discovered and reported by Checkmarx SCA Security Researcher [Yaniv Nizry](#).

Resources

1. Commit [a1ad8bc](#)
2. [Release note](#)
3. [Advisory](#)

