

Checklist

API Security

▼ API Security

```
▼ 31 Days of API Security Testing
  ☐ To change versions: api/v3/login → api/v1/login
  ☐ Check other AuthN endpoints: /api/mobile/login → /api/v3/login /api/magic_link
  Verb Tampering: GET /api/trips/1 → POST /api/trips/1 POST /api/trips DELETE /api/trips/1
  Try Object IDs in HTTP headers and bodies, URLs tend to be less vulnerable.
  Try Numeric IDs when facing a GUID/UUID: GET /api/users/6b95d962-df38 \rightarrow GET /api/users/1
  HTTP Parameter Pollution: /api/profile?user_id=legit&user_id=victim /api/profile?user_id=victim&user_id=legit
  JSON Parameter Pollution: {"user_id":legit, "user_id":victim} {"user_id":victim, "user_id":legit}
  \square Ruby application HTTP parameter containing a URL \rightarrow Pipe as the first character and then a shell command.
  Developer APIs differs with mobile and web APIs. Test them separately.
  Change Content-Type to application/xml and see if the API parse it.
  Non-Production environments tend to be less secure (staging/qa/etc.) Leverage this fact to bypass AuthZ,
     AuthN, rate limiting & input validation.
  Export Injection if you see Convert to PDF feature.
  Expand your attack surface and test old versions of <u>APKs</u> IPAs.
```

▼ Misc

Google Dorks

```
site:target.tld inurl:api
site:target.tld intitle:"index of" "api.yaml"
site:target.tld inurl:/application.wadl
site:target.tld ext:wsdl inurl:/%24metadata
site:target.tld ext:wadl
site:target.tld ext:wsdl
```

Checklist

```
user filetype:wadl
user filetype:wsdl
```

• Check different content-Types

```
x-www-form-urlencoded --> user=test
application/json --> {"user": "test"}
application/xml --> <user>test</user>
```

• If it's regular POST data try sending arrays, dictionaries

```
username[]=John
username[$neq]=lalala
```

• If JSON is supported try to send unexpected data types

```
{"username": "John"}
{"username": true}
{"username": null}
{"username": 1}
{"username": [true]}
{"username": [true]}
{"username": ["John", true]}
{"username": {"$neq": "lalala"}}
```

• If XML is supported, check for XXE

Gathered By: HolyBugx

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