



شنو هاد السجل؟
Rust
ف الموديم؟

AUDIT LOG
DNS parser = Rust
hickory-proto
cargo-gnaw
! CVE-2024-27227

CRACK

CVE-2024-27227
ممكن يكون السبب!

```
main {  
  parse_dns( = R  
  hickory-proto  
  resolve(  
  }  
  code  
  cargo varstent_yes);  
  tiny scrack();  
  tiny arse_dns();  
function = lany {
```

CRACK

**BEEP
BEEP**



BOOM

ZZT

BOOM

الشبكة كطيح،
ال bixeband
معرض!

خاصنا نواجه
الضرر دابا!

BOOM

ZZT

BOOM

RUST

```
dns @
parse_dns
  parse_dns(
    router_lamer("out-of-bounds");
    parse_dands;
    ...
    cols_lammer("out-of-bounds");
    out-of_bounds
```



شوف hickory-proto و cargo-gnaw ، التبعيات كثيرة.

خاصنا نتحقق من bindings و API

```
cargo-gnaw
pinning version: 2.2.2
punting version: 112.8.0.1
tree
├── sos
│   ├── 3.8.22
│   ├── 3.8.20
│   └── ms8c79:6st
└── jrb-0.8.20
```

```
trisee gnaw
C./Rust API call flow
├── ...
├── ...
└── Crust API call flow
    ├── ...
    ├── ...
    └── ...
```

```
Memory maps
Diff ...
function prototypes (
  commit hasha = commit;
  commit prototype("xegs!))
function prototypes (
  memory map() -> Rust();
)
```

feature flags

SNIP

Hybrid C & Rust API



A hybrid C & Rust API

Memory-safety check passing data.



Memory-safety checks.

درنا patch بـ
Rust، سلامة الذاكرة
رجعات!

الموديم محمي،
الهجوم
تراجع!

Rust

memory-safe

SHING

MAS

WHOOSH

المووم محمي،
الهجوم
تراجع!

TERMINAL

Terminal

100%

Deploy: success

- pruned dependency
trees
prune
pruned
feature flags

Features

OFF

OFF

```
crokent su  
K00001  
soner S  
crao  
snol S  
swol S  
cotoo  
] or'ng  
diy pbo 'ode S  
dronon %  
S Bra  
ert steulgoe{  
str5vn{00cl 'vread  
oocastb to actentent;  
)else  
vovv ootessé{  
cges.cantoot)  
c000-c00000.astu  
} "iaet);  
io {  
vertons  
soda h  
trent  
code  
RCE  
code
```