RUSTSEC-2021-0008

reading on uninitialized buffer can cause UB (`impl<R> BufRead for GreedyAccessReader<R>`)

Reported	January 2, 2021
Issued	January 20, 2021 (last modified: October 19, 2021)
Package	bra (crates.io)
Type	Vulnerability
Categories	memory-exposure
Aliases	CVE-2021-25905
Details	https://github.com/Enet4/bra-rs/issues/1
CVSS Score	9.1 CRITICAL
CVSS Details	

Attack vector	Network
Attack complexity	Low
Privileges required	None
User interaction	None
Scope	Unchanged
Confidentiality	High
Integrity	None
Availability	High

CVSS Vector	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:H
Patched	`>=0.1.1`

Description

Affected versions of this crate creates an uninitialized buffer and passes it to user-provided `Read` implementation.

This is unsound, because it allows safe Rust code to exhibit an undefined behavior (read from uninitialized memory).

The flaw was corrected in version 0.1.1 by zero-initializing a newly allocated buffer before handing it to a user-provided `Read` implementation.