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RUSTSEC-2020-0046

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bespoke Cell implementation allows obtaining several mutable references to the same data

Reported	January 8, 2020																
Issued	October 2, 2020 (last modified: October 19, 2021)																
Package	actix-service (crates.io)																
Type	INFO Unsound																
Categories	memory-corruption																
Aliases	CVE-2020-35899																
Details	https://github.com/actix/actix-net/pull/158																
CVSS Score	5.5 MEDIUM																
CVSS Details	<table><tr><td>Attack vector</td><td>Local</td></tr><tr><td>Attack complexity</td><td>Low</td></tr><tr><td>Privileges required</td><td>Low</td></tr><tr><td>User interaction</td><td>None</td></tr><tr><td>Scope</td><td>Unchanged</td></tr><tr><td>Confidentiality</td><td>None</td></tr><tr><td>Integrity</td><td>None</td></tr><tr><td>Availability</td><td>High</td></tr></table>	Attack vector	Local	Attack complexity	Low	Privileges required	Low	User interaction	None	Scope	Unchanged	Confidentiality	None	Integrity	None	Availability	High
Attack vector	Local																
Attack complexity	Low																
Privileges required	Low																
User interaction	None																
Scope	Unchanged																
Confidentiality	None																
Integrity	None																
Availability	High																
CVSS Vector	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H																
Patched	>=1.0.6																

Description

The custom implementation of a Cell primitive in the affected versions of this crate does not keep track of mutable references to the underlying data.

This allows obtaining several mutable references to the same object which may result in arbitrary memory corruption, most likely use-after-free.

The flaw was corrected by switching from a bespoke `Cell<T>` implementation to `Rc<RefCell<T>>`.