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RUSTSEC-2020-0045

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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-utils (crates.io)																
Type	INFO Unsound																
Categories	memory-corruption																
Aliases	CVE-2020-35898																
Details	https://github.com/actix/actix-net/issues/160																
CVSS Score	9.1 CRITICAL																
CVSS Details	<table><tr><td>Attack vector</td><td>Network</td></tr><tr><td>Attack complexity</td><td>Low</td></tr><tr><td>Privileges required</td><td>None</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>High</td></tr><tr><td>Availability</td><td>High</td></tr></table>	Attack vector	Network	Attack complexity	Low	Privileges required	None	User interaction	None	Scope	Unchanged	Confidentiality	None	Integrity	High	Availability	High
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Privileges required	None																
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Integrity	High																
Availability	High																
CVSS Vector	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:H																
Patched	>=2.0.0																

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>>`.