

## DATASHEET

# KernelCare Live Patching

For maximum security and compliance, enterprises need to rapidly patch vulnerabilities, keep production Linux systems updated with the latest fixes, and have a trusted technology partner for Linux support and maintenance always within reach.

For business-critical systems that cannot afford any downtime, TuxCare Live Patching services provide fast and thoroughly tested security patches for critical system components. Patches are applied in-memory, without rebooting or interrupting operations. This ensures the Linux kernel, shared libraries, open source databases, and virtualisation stacks are secure – all without affecting your core business processes.



## KernelCare Enterprise

### Rebootless Linux Kernel Patching



Atomic (persistent) patching method that doesn't require reboot over time.



Compatible with more than 40 enterprise Linux distributions.



Operates on-premise and in the cloud.



Secure patch server available for gated infrastructures – ePortal.



Major vulnerability patch release timing either before or shortly after source patch availability.



Out-of-the-box, native integration with patch management and vulnerability assessment tools.



## LibraryCare

### Rebootless Security Updates for Shared Libraries



Detects and patches shared libraries both on disk and inmemory without disrupting the applications using them.



Available for glibc and OpenSSL libraries, the ones most often attacked.



Unlike traditional patching tools, like yum, dnf, or apt, live patches take effect immediately, rather than after a service restart.

## How Live Patching Works



Allocates kernel memory and loads new, secure code into it.



Momentarily freezes all processes in 'safe' mode.



Modifies original functions and jumps to new secure code, ensuring old (vulnerable) code can never run.



Unfreezes all processes and resumes.



TuxCare patch management services have delivered patches and bug fixes for various Linux distros for

**over 10 years.**



TuxCare is approaching

**1 million**

in production workloads secured and supported by our services.



We have over

**1500 customers**

from multiple industries around the world.



TuxCare has patched more than

**80,000+ vulnerabilities**

without reboots over the years.



We have supported more than

**40 Linux distributions.**



We assist clients in maintaining their compliance requirements and regulatory mandates.

## TuxCare Live Patching Services are Fully Compatible with Your Current Infrastructure

### Distributions & Virtualisations



### Deployment & Vulnerability Management Tools



## TuxCare in Enterprise

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The support from all interactions with the TuxCare team at CloudLinux has been worldclass, and does not go unnoticed.

**Steven Greenberg**

United Launch Alliance

“

In Corporate, we use KernelCare to do Linux OS updates seamlessly and without reboots required. It's really helped us with meeting InfoSec requirements for compliance and eased the time commitments of my team relating to patching. It's relatively inexpensive as well.

**Mitre Team**

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Even with a well-managed data centre, an expedited reboot of all your server infrastructure is a daunting feat. When a serious kernel vulnerability is released, KernelCare Enterprise affords us the ability to comprehensively address the issue in a timely manner and without rebooting.

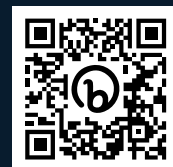
**Ben Heiskell**

Director, Infrastructure Software Engineering at Datto

## Certifications and Awards



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