KernelCare

Automated Linux security patching with zero downtime

Powered by
Tux Care

To remain competitive and retain customers, businesses need to maintain uninterrupted system availability alongside the highest security standards, which traditional patching methods – which require downtime for maintenance – make difficult. This necessary downtime, aimed at updating systems, inadvertently disrupts user and customer experiences, impacting productivity and service quality. Compounding this challenge is the intensifying regulatory demands for security compliance, mandating organizations to minimize the vulnerability window.

KernelCare is a leading-edge live patching service designed for Linux servers, enabling businesses to apply kernel security updates as soon as they become available – without needing to reboot. This eliminates downtime and disruptions while enhancing security and compliance across your infrastructure, ensuring your operations run smoothly.

Key Capabilities

Persistent patching that doesn't require reboots over time

Compatibility with more than 60 enterprise Linux distro versions

Rebootless patching for shared libraries (OpenSSL and glibc)

Rapid patch delivery to ensure compliance with regulatory standards

Secure patch server availability for air-gapped infrastructures

Customizable patch rollout policies to match your internal requirements

Support for both on-premise and cloud-based deployments

Out-of-the-box integration with patch and vulnerability management tools

Key Benefits

Minimize Vulnerability Exposure

Automatically apply security patches as soon as they're available to stay secure and compliant with numerous regulatory patching requirements.

Streamline Vulnerability Management

Minimize the amount of time and resources dedicated to lengthy vulnerability risk analysis and coordination between different teams.

Eliminate Maintenance Windows

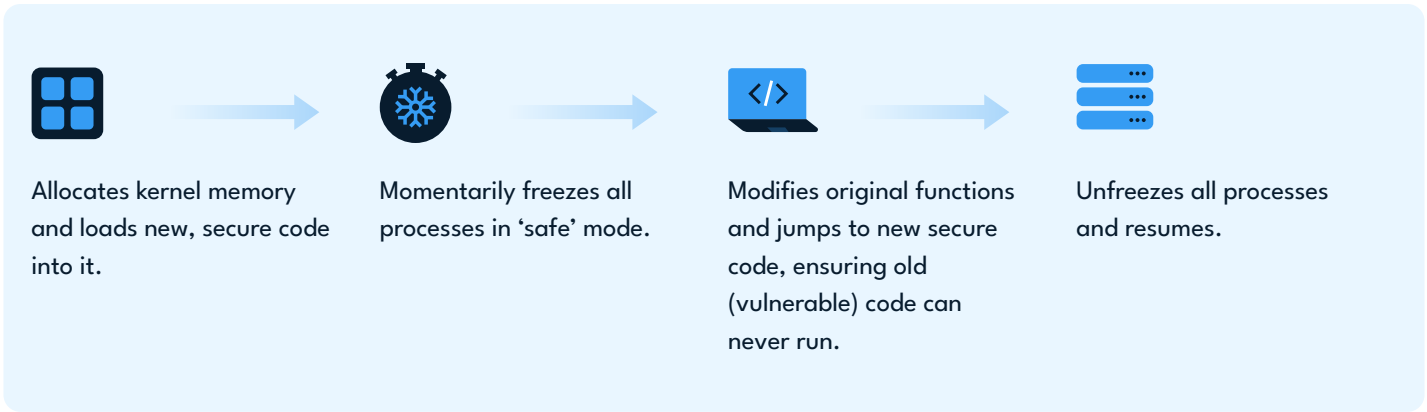Postpone maintenance operations for as long as you need and regain control over when and why you execute them.

Reduce Your Patching Workload

Put your patching on autopilot and automatically achieve patching consistency throughout your ecosystem.

www.TuxCare.com

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.

A Solution That's Tailored to Your Needs

	KernelCare Enterprise	KernelCare SimplePatch
	Linux infrastructures demanding heightened security measures and adherence to internal and external compliance requirements	For tech enthusiasts and organizations with smaller infrastructures seeking seamless security and uptime for their Linux systems
Kernel Live Patching	✓	✓
Supported System[1] Count	Unlimited	Up to 50 systems
Live Patching for Shared Libraries	Add-on	-
Customizable Patch Rollout Policies	✓	-
Secure Patch Server for Air-Gapped Networks	✓	-
Integration with Vulnerability Scanners for Live Patch-Aware Compliance Reporting	✓	-

[1]System = Physical device, VM, or cloud instance

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TuxCare Live Patching Services Are Fully Compatible with Your Current Infrastructure

Linux Distributions

CentOS   AlmaLinux   debian   ubuntu   ORACLE Linux

Red Hat   Amazon Linux   CloudLinux   PROXMOX   Raspberry Pi

OpenVz   Rocky Linux™

Deployment & Vulnerability Management Tools

nessus Professional   nexpose RAPID7   Qualys.   ANSIBLE   Nagios®

CHEF Progress   ZABBIX   puppet   DATADOG   tenable®

TuxCare has delivered patches and bug fixes for various Linux distros for

over 10 years.

TuxCare's products secure more than

1.3 million production workloads.

We have over

2300 customers

from multiple industries around the world.

TuxCare has patched more than

2100 CVEs

without reboots over the years.

We support more than

60 Linux distro versions.

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TuxCare in Enterprise

ZOOM IBM DELL MITRE proofpoint. datto

ULA SRC GoDaddy WEB SLICE University of Zagreb Australian National University

Affinity Water Plixer efinity goodwill HIPAAVault Forcepoint

"

With KernelCare, we've completely eliminated patching-related downtime, we've slashed the hours we spend on CVE patching by 72%, and our vulnerability exposure window has shrunk by 90%

OCLC Team

"

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

"

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

"

TuxCare services allow for faster, more consistent, and easier updates. Any customer of KernelCare will see value almost immediately.

Ed Fortune
Principal Engineer of Cloud Architecture at Proofpoint

"

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

Steven Greenberg
United Launch Alliance

Certifications

FIPS VALIDATED 140-1 140-2 AICPA SOC PCI-DSS LEVEL 1 SERVICE PROVIDER EU GDPR COMPLIANT CCPA SAM SYSTEM FOR AWARD MANAGEMENT

Awards

2021 GLOBEE AWARDS GOLD WINNER IT WORLD AWARDS INFORMATION TECHNOLOGY CYBER SECURITY BRONZE 2023 STEVIE WINNER AMERICAN BUSINESS AWARDS CYBER SECURITY EXCELLENCE AWARDS WINNER 2023 GOLD 2022 STEVIE WINNER INTERNATIONAL BUSINESS AWARDS MERIT AWARDS Information Security TuxCare GOLD BRONZE 2023 STEVIE WINNER FOR SALES & CUSTOMER SERVICE

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