



The Hidden Dangers of Proprietary "Open Source" Distribution

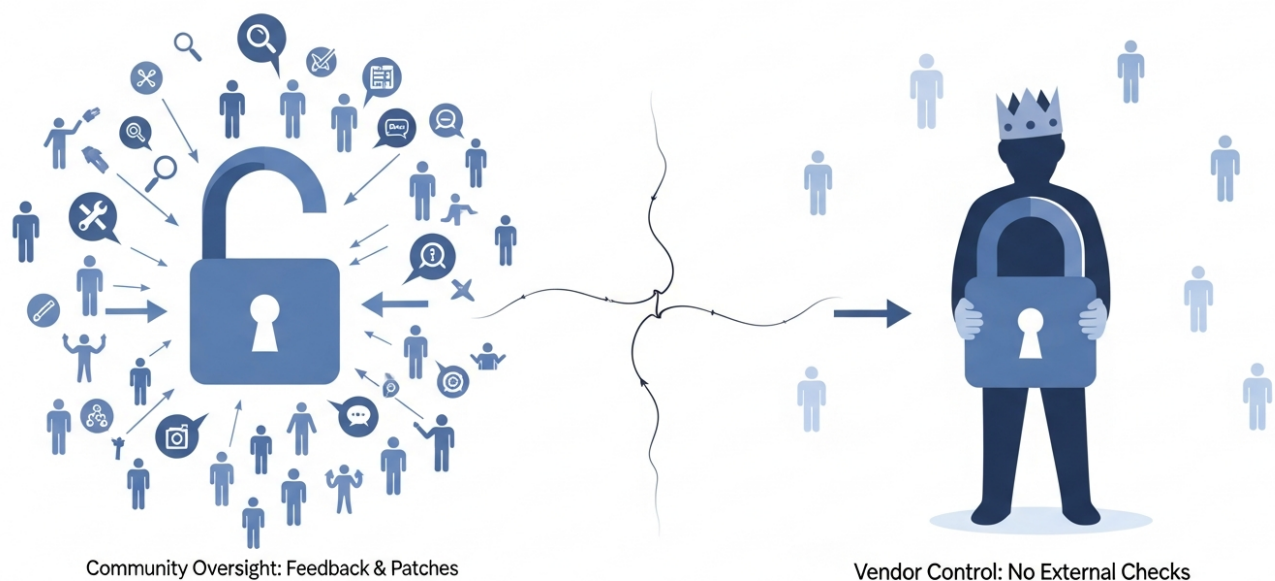
Proprietary Operating Systems
Threaten Developer Freedom

The open source ecosystem has long thrived on transparency, community oversight, and freedom of choice. The results have been transformative. However, a new breed of Linux distributions is emerging that threatens these fundamental principles. Proprietary open source distributions present themselves as security-focused solutions, but beneath the surface lies a dangerous shift toward vendor lock-in, opacity, and potential exploitation.

The Erosion of Community Accountability

Traditional enterprise Linux distributions like Ubuntu and Red Hat's Universal Base Image (UBI) benefit from something invaluable: the scrutiny of millions of developers worldwide. When vulnerabilities are discovered, when packages break, when decisions go wrong, the community responds immediately with feedback, patches, and alternatives. This is the tried and tested model, and billions of software systems run on and benefit from this approach.

Proprietary distributions operate in a fundamentally different paradigm. Without the breadth of community oversight that established distributions enjoy, there are no natural checks and balances. The vendor becomes both the gatekeeper and the judge of what constitutes vulnerabilities, security, stability, and quality. This concentration of control eliminates the democratic feedback loop that has made open source software trustworthy for decades.



The Instability Time Bomb

Long-Term Support (LTS) releases exist for a reason. Enterprise applications require stable, predictable platforms that won't introduce breaking changes unexpectedly. Ubuntu's 5-year LTS cycles and Red Hat's decade-long support windows provide the foundation that critical applications depend on.

Proprietary OS distributions often tout their "always up-to-date" approach, with daily or continuous updates to the base OS. While this sounds appealing from a security perspective, it creates a nightmare scenario for production environments. Your application that worked yesterday may break today because a core library was updated. Multiply this risk across every update cycle, and you've created an environment of perpetual instability where "upgrading" becomes a game of Russian roulette.



LTS Release

Predictable - Stable - Reliable



Proprietary OS Distributions

Unstable - Risky - Breaks Unexpectedly

The Transparency Illusion

Security scanners and vulnerability management tools rely on clear, transparent information about how operating systems and packages are patched. Established distributions publish detailed security advisories tied to public CVE databases, allowing independent verification and assessment.

Proprietary distributions often maintain their own advisory systems—closed ecosystems where they control not only the patches but also the narrative surrounding vulnerabilities. This creates a dangerous possibility: CVEs can be "cloaked" or downplayed, hidden behind proprietary classification schemes that obscure the true risk landscape. When a vendor controls both the problem and its disclosure, the potential for conflicts of interest becomes severe. Companies may believe they're secure based on the vendor's assurances, while real vulnerabilities lurk beneath the surface, invisible to third-party security tools. There are fewer eyes reporting vulnerabilities, so in theory there are less vulnerabilities, but this is an illusion.

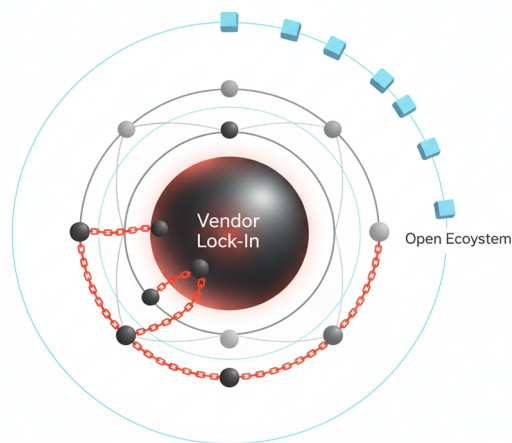
The Lock-In Trap: From Open Source to Single Source

Here's where the business model reveals its true nature. These distributions position themselves as "open source" to gain credibility and initial adoption, but the reality is far different. Once you've migrated your application to run on a proprietary distribution, you're no longer participating in open source—you're dependent on a single source. Your software is no longer under your control; you become dependent. If you need to patch or update your software, you need to return to the vendor to do so.

Thus, single-source dependencies create acute leverage for price increases. We've all watched this playbook before. The parallels to Broadcom's acquisition of VMware are chilling: once customers are sufficiently locked in, prices rise dramatically. For organizations running FedRAMP-certified applications or complex on-premise solutions, removing a base OS isn't a simple afternoon project—it's a months-long engineering effort requiring re-certification, testing, and deployment. Prices can be raised up to the threshold of switching costs, which are high.

There is a hard-to-anticipate trap: the more components you rely on from a vendor, such as not just the containers but also the packages themselves, the more dependent you become. It's possible that your software has now become their software.

During that migration window, you're exposed to whatever pricing the vendor decides to impose. It's an extortion risk, plain and simple.



Gravity of Dependency



The Bait-and-Switch Pricing Model

The initial pitch is always attractive: low costs, sometimes even free tiers for developers. "Try it out," much like other insidious methods for creating acute dependence, the first one is always free. They say, "See how much better our security approach is." And developers, always looking for better tools, often migrate their applications naively.

However, once the migration is complete—and they may even assist you in migrating by offering low-cost professional services—once your containers are built on their base images, once your CI/CD pipelines depend on their package repositories, and once your security compliance is tied to their advisories—the pricing changes. Subscription costs increase. Features get moved to higher tiers. The initial attractive pricing and the perceived, not actual, security benefit were never the real business model; it was the customer acquisition cost.



Ecosystem Fragmentation and Package Availability

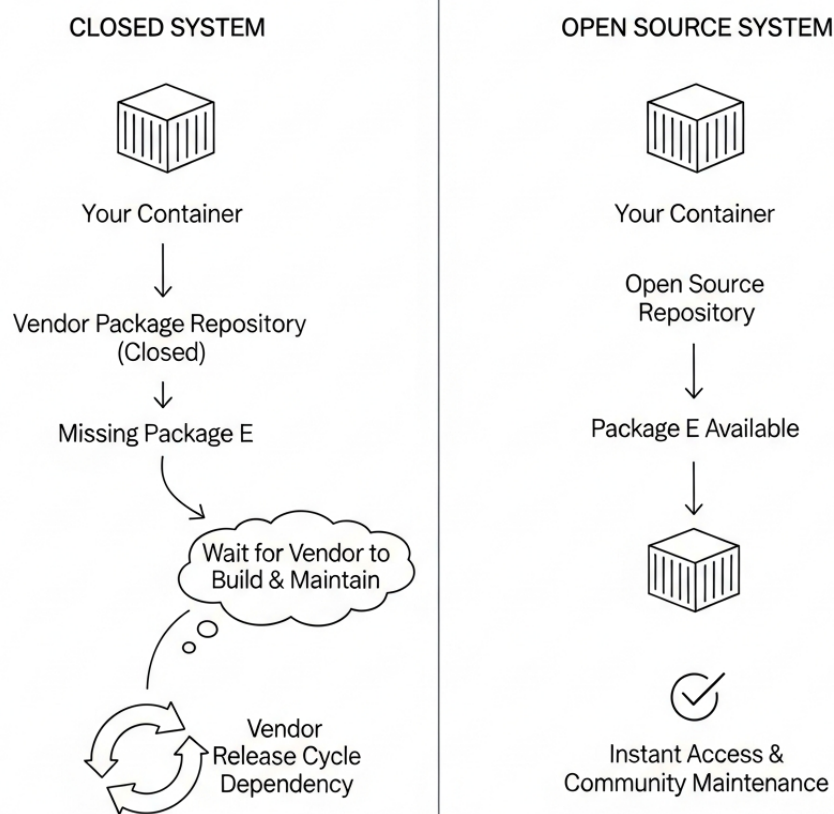
Red Hat UBI and Ubuntu maintain vast package repositories built over decades, supporting countless applications and use cases. Free to use and likely to be available on that basis for a long time. Proprietary distributions, by their nature, cannot and will not match this breadth. Single companies, however well-financed, cannot out-produce the entire open-source community.

The vendor must port, maintain, and support every package in their ecosystem. This means two things: first, many packages available in established distributions simply won't exist in proprietary alternatives, making some applications impossible to deploy without significant rework. There isn't one-for-one package equivalency. Second, every package you do use must come from that same proprietary vendor, further deepening your dependence.

This creates application incompatibility issues that may not be apparent until you're deep into a migration. You can't migrate 99% of your code; you need to do it all to ensure production stability. Legacy applications, specialized tools, or software with unusual dependencies may simply not run—or may require extensive modification to work with the limited package ecosystem.

Development Speed and Vendor Release Cadence Dependency

Another less obvious risk than price lock-in, is the risk of requiring a package in order to completely build an image. If you are running on Debian today, and your container has packages A, B, C, D, and E, and you port your software to a closed system, for your container to be fully functional, you need packages A, B, C, D, and E. However, if the closed system doesn't have package E, it needs to be built, and you must wait for the vendor to build it. And maintain it going forward. Tying you into their release cycles, their resourcing constraints, and priorities. This clear loss of independence and control prevents you from moving faster while you wait for a vendor to deliver what you need. And hope they maintain it. This is in contrast to the open-source approach, where you can simply pull package E from the open-source repository. Software evolves, and if package F is needed in the future, the cycle repeats.





The Path Forward: Choosing True Open Source

The open source movement succeeded because it distributed power, leveraged an army of contributors, created transparency, and built communities that could hold projects accountable. Proprietary distributions wrapped in open source marketing language threaten to undermine these principles.

Before adopting these platforms, organizations must ask hard questions:

- Can we migrate all of our applications or just a select few?
- Can we easily migrate away if needed?
- Do independent security researchers have full visibility into vulnerability handling?
- Is there genuine community governance, or is it vendor-controlled?
- What happens to our pricing in year three? Year five?
- Can our entire application stack run on this platform, or will we face compatibility issues?

The allure of "better security" is powerful, but security without transparency is just another form of vendor control. True open source provides both security through community scrutiny and autonomy and freedom through open standards and multiple implementations.

The choice isn't between security and open source. It's between genuine open source security—backed by community oversight and vendor diversity—and proprietary security, where you must simply trust the vendor's claims and accept the lock-in that comes with that trust.

Choose wisely. Your organization's freedom depends on it.



About us

RapidFort, Inc. is a leading software supply chain security company that provides an innovative platform designed to automatically secure container applications and accelerate compliance processes. The company's comprehensive solution addresses critical cybersecurity challenges by removing up to 95% of Common Vulnerabilities and Exposures (CVEs) from container images without requiring any code changes.

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