

A Few Tips For Marketing Open Source
Projects In The Non-Profit Tech Sector

A Guide For Software Architects:
Common Mistakes And Best Practices

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Tools That Will Trend In 2025

**The Best
JavaScript
Libraries**

**The Top
Twenty PHP
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**Best Tools
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Administrators**

**Essential Tools
For Budding
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Building An
Advanced Load
Balancer With NGINX

**"With AI, cloud is no longer
just about reducing costs"**

—Dr Amruta Joshi, Director, AI Solutions, Google Cloud



SUSE launches SUSE Edge Suite and Edge 3.2

SUSE has announced significant progress with its SUSE Edge solutions for the retail sector, including the launch of SUSE Edge 3.2 and SUSE Edge Suite.

As the retail industry undergoes a profound transformation driven by the rapid growth of edge computing, SUSE's retail-focused Edge solutions are designed to meet the critical needs of retailers. These solutions offer open infrastructure software to support the development of cutting-edge applications, such as dynamic merchandising, fraud and theft prevention, real-time inventory tracking, and intelligent payment systems, all aimed at enhancing customer experience, reducing costs, and improving operational efficiency.

"SUSE is dedicated to providing edge solutions that empower retailers to thrive in today's competitive landscape," said Keith Basil, general manager of SUSE's Edge Business Unit. "SUSE Edge Suite and Edge 3.2 offer retailers a comprehensive toolkit to optimise their operations, strengthen security, and move forward."

SUSE Edge Suite is a complete solution for retail edge scenarios and integrates capabilities from SUSE's Linux and Rancher offerings into one powerful package. It is built on SUSE Edge 3.2, the latest iteration of its edge computing platform. SUSE Edge 3.2 introduces several new features and improvements, including: validated designs that guarantee consistent and seamless deployment across widely used hardware and system architectures; automation tools that reduce lifecycle management costs, such as image building, patching, and deployment; flexible pricing models and bundles tailored to accommodate the diverse business models and scaling requirements of retailers; zero-touch deployment for effortless setup; and a fully integrated, comprehensive edge stack that supports AI/ML workloads and the deployment of GenAI models by retailers.

While large language models (LLMs) powering today's GenAI applications are innovative, they are often too costly and resource-heavy for many organisations to use effectively. To address these challenges, smaller, optimised, and open source-licensed models—driven by open innovation across compute architectures and deployment environments—are crucial for the future success of AI strategies.



Neural Magic's focus on creating optimised and efficient AI models supports Red Hat's ability to realise this vision for AI. Additionally, Neural Magic is a key contributor to vLLM, an open source project developed by UC Berkeley for open model serving. This initiative will expand the options and access for organisations as they build and deploy AI workloads, fostering green AI deployment strategies.

With Neural Magic's technology and performance engineering expertise, Red Hat aims to break through the challenges of wide-scale enterprise AI, using open source innovation to further democratise access to AI's transformative power via, among other things, open source-licensed models that can run anywhere and everywhere needed across the hybrid cloud, in corporate data centres, on multiple clouds and at the edge; fine-tuning capabilities that enable organisations to customise with a stronger security footprint; and inference performance engineering expertise, resulting in greater operational and infrastructure efficiencies.

The concept of choice is as crucial for GenAI today as it was for cloud-native or containerised applications several years ago -- the right environment (cloud, server, edge, etc), accelerated compute, and inference server are all critical for successful GenAI strategies.

Significant security vulnerabilities drive the release of Rsync 3.4

Rsync, the widely used utility for incremental file transfers and synchronisation, has released version 3.4. This update isn't packed with exciting new features but is instead critical due to several newly disclosed security vulnerabilities. Widely used for Linux server backups and file synchronisation, Rsync's security flaws make this release particularly significant.

The Google Cloud Vulnerability Research team identified six major security issues in Rsync. These include a heap buffer overflow, an information leak, and the server potentially exposing arbitrary client files. Other vulnerabilities allow the server to write files outside the destination directory via symbolic links, bypass safe-link restrictions, and exploit a symlink race condition. These flaws are particularly

dangerous in sensitive environments, as they could lead to data leaks, unauthorised file modifications, or server compromises.



In addition to addressing these vulnerabilities, Rsync 3.4 introduces minor bug fixes and improvements. Notably, it now includes continuous integration (CI) builds for FreeBSD and Solaris systems, enhancing its compatibility and development reliability. Furthermore, the Rsync protocol version has been updated to 32, making it easier for users to verify

updated servers and distinguish patched versions from older, vulnerable releases.

Given the nature of these vulnerabilities, users are strongly advised to update to Rsync 3.4 immediately, especially in environments where Rsync is used for backups or file synchronisation across critical systems. Beyond updating, it's prudent to review current Rsync configurations, particularly when using symbolic links, to ensure no additional exposure risks exist. Monitoring logs for unusual activity is also recommended to detect potential exploitation attempts.

More information about this release can be found on the [Samba.org](https://www.samba.org) project page.

Red Hat Connectivity Link to simplify multi-cloud application connectivity in Kubernetes environments

Red Hat, Inc., has announced the general availability of Red Hat Connectivity Link, a hybrid multi-cloud application connectivity solution designed to simplify the connection of diverse applications and infrastructure.

Connectivity Link integrates advanced traffic management, policy and role-based access control (RBAC) directly within Kubernetes, ensuring security and compliance at multiple layers of application infrastructure.

Now, application development and platform engineering teams can efficiently manage application connectivity across both single and multi-cluster Kubernetes environments, streamlining the configuration, management, and visibility of connectivity policies. This solution consolidates essential functions like traffic routing, security, and policy management into a single Kubernetes-native tool, reducing complexity.

The widespread adoption of cloud-native

architectures, containers, and Kubernetes has led to a rapid increase in applications, services, and endpoints. Managing connectivity across on-premises environments, multiple clouds, containers, and virtual machines can become error-prone, inefficient, and difficult to scale.

Built on the open-source Kuadrant project, Red Hat Connectivity Link is a Kubernetes-native solution designed to offer a unified and efficient approach

Scribus 1.6.3 released with various bug fixes

The development team behind Scribus, the open source and cross-platform desktop publishing application, has released version 1.6.3 as a minor update to the Scribus 1.6 stable series, bringing various bug fixes and performance improvements.

Scribus 1.6.3 addresses several issues, including where the width in the 'Color Management' menu increased after multiple uses, problems with item attributes and spin box functions, and a crash that occurred when opening a PDF document and selecting the option to import text as text. It also resolves various GUI problems, such as non-responsive fields in menus, issues with guide and baseline colour preferences not being read, corrupt PDF generation, file manager issues related to external drive detection, problems with the 'Update Image' functionality, and shortcut issues.

Additionally, version 1.6.3 fixes a problem with restoring frames and bookmarks, resolves corruption when building against the Poppler PDF rendering library, and addresses a crash that occurred when undoing the last paragraph in the Story Editor.

Beyond these bug fixes, Scribus 1.6.3 enhances CMYK image importing and image export quality settings, updates non-HTTPS URLs to current versions; adds new Python functions for unit conversion, baseline adjustments, and text styling; and includes updates to various translation files.

Scribus 1.6.3 is available for download from the official website as a universal binary in the AppImage format, which allows Scribus to run on virtually any GNU/Linux distribution without installation. It's also available as a Flatpak app from Flathub.

While the development team continues to address issues in the Scribus 1.6 series, they are also working on the next major release, Scribus 1.8. This upcoming version will port the software to the latest Qt 6 application framework, providing users with a more modern UI. Currently, Scribus 1.6 relies on the Qt 5.15 LTS series.