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# OpenSource

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## IS YOUR NETWORK SECURE?

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## ARM introduces a framework for supporting new Mali GPUs

ARM engineer Karunika Choo has released the latest patches for the Panthor open source kernel graphics driver, introducing a new GPU-specific initialisation framework aimed at supporting new Mali GPUs. This framework is part of ongoing efforts to expand the capabilities of the Panthor Direct Rendering Manager (DRM) driver, with an initial focus on enabling support for newer Mali GPU families beyond what is currently supported.

The new patches extend the Panthor driver to include compatibility with several Mali GPU series, including the Mali-G310, Mali-G510, Mali-G710, Mali-G715, Mali-G720, and Mali-G725. These GPUs represent a mix of architectures, with the Mali-G720 and Mali-G725 based on the 5th Gen architecture introduced in 2023 while the Mali-G310, Mali-G510, Mali-G710, and Mali-G715 are built on the older 4th Gen architecture. Notably, the patches do not yet include support for the latest Immortal G925 GPU.

Beyond enabling support for these specific GPUs, the new initialisation framework is designed to simplify the process of integrating future Mali architectures into the Panthor driver. By better handling device- and generation-specific initialisation differences, the framework aims to streamline the onboarding of upcoming Mali GPU designs, making it easier to maintain and expand driver support over time.

This development marks another step forward in the evolution of the Panthor driver, enhancing its ability to support a broader range of Mali GPUs and laying the groundwork for future advancements in open source GPU driver development.

Red Hat OpenShift enables zero-touch provisioning and offers built-in automation, empowering service providers to efficiently manage next-generation RAN networks at any scale on a unified platform. Fujitsu's vRAN on Red Hat OpenShift, running on ARM servers, provides a power-efficient solution for service providers to achieve lower latency, deterministic processing, and dedicated hardware acceleration for enhanced network performance.

Its AI-ready vRAN allows service providers to unlock new revenue opportunities by scaling securely and managing virtualised, cloud-native, and AI-enabled applications on a single, integrated platform.

Fujitsu's vRAN on Red Hat OpenShift aligns with the open compute standards established by the O-RAN Alliance for RAN and O-Cloud architecture.

Honoré LaBourdette, vice president, Global Telco Ecosystem, Red Hat, said: "The future of RAN is AI, and it is powered by cloud-native technologies. With this collaboration, Red Hat and Fujitsu are helping service providers realise the full potential of RAN, encompassing virtualised, containerised and AI workloads across sprawling network footprints, to achieve new levels of enhanced network performance and optimisation."

## SUSE Security integrates with Microsoft Sentinel and Microsoft Security Copilot

SUSE has announced an integration between SUSE Security and Microsoft Sentinel, a cloud-native security information and event management (SIEM) solution. Leveraging the generative AI capabilities of Microsoft Security Copilot,



this integration provides joint customers with a unified and enhanced security approach across hybrid IT environments. "This new integration provides a robust security solution for any organisation with cloud-native workloads on Microsoft Azure and is a great example of how AI is being used to advance

enterprise cybersecurity strategies," said Laurent Mechain, global head of cloud at SUSE. "We're excited to deepen our existing work with Microsoft and reinforce our commitment to powering open, secure innovation."

"In a cybersecurity landscape that is growing increasingly complex, it's crucial that organisations have the right tools to quickly identify and mitigate security threats," said David Houlding, director, global healthcare security & compliance strategy at Microsoft. "Collaborating with SUSE will help our mutual customers streamline their security operations and, ultimately, better protect against threats."

Managing security across diverse platforms and environments is increasingly complex, especially as cyber threats grow in volume and sophistication. This new integration helps enterprises tackle these challenges by providing a centralised security dashboard that enhances visibility into security threats and enables automated response actions.

Through this integration, SUSE Security event data is directly channelled into Microsoft Sentinel. Microsoft Security Copilot then analyses the data, delivering AI-driven recommendations for proactive threat mitigation. Additionally, Security Copilot can correlate SUSE Security data with other sources within Sentinel, identifying patterns and anomalies that may signal a sophisticated attack.

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# “A 200 line-task in other frameworks can be done in 50 lines with Gofr!”

With rising multi-cloud strategies and the growing complexity of AI applications, open source frameworks like Gofr.dev aim to simplify microservices development and cloud integration. In an interview with *OSFY's Yashasvini Razdan, Talvinder Singh, Co-founder at zop.dev and Aryan Mehrotra, Software Developer at zop.dev* explained the challenges faced while building microservices architecture and how open source frameworks like Gofr are mitigating them.



**Talvinder Singh,**  
Co-founder, zop.dev

**Q. What market trends have influenced the need for frameworks like Gofr.dev?**

The increasing use of cloud-technologies, such as containers and serverless computing, has led to a growing need for specialised observability tools for monitoring the performance of distributed systems. Organisations require real-time insights into their applications and infrastructure to maintain optimal performance and quickly address issues. Frameworks with integrated observability provide the necessary visibility to monitor system health and user interactions continuously. The emphasis is on code consistency across the codebase, for better code quality and maintainability. To do so, they are reducing boilerplate code for faster development cycles, allowing businesses to bring applications to market more quickly.

**Q. What challenges do developers face in managing large-scale microservices architecture?**

A. Microservices architecture allows different functionalities of an application to run independently,

which is a huge advantage. However, as the number of microservices grows, managing them becomes quite complex. Developers often face challenges ensuring uniformity in how all the components connect and communicate with each other.

Managing different microservices across multiple environments—production, staging, and development—tracking dependencies, maintaining functionality, and ensuring seamless connectivity across this web of services can overwhelm even the most experienced teams. Building microservices involves a large repetitive effort, as most existing frameworks were not initially designed with microservices in mind. Instead, they were adapted to support them later.

**Q. What specific features of Gofr.dev make it suitable for simplifying microservices development?**

A. Gofr was built with microservices as its core focus. The design principles and implementation of Gofr are microservice-friendly from the ground up. Developers only need to focus on the business logic, while Gofr ensures that all microservices are connected, databases are integrated through configuration, and connections are managed automatically. A 200 line-task in other frameworks can be done in 50 lines with Gofr! Many elements, such as connecting to additional services or bootstrapping a new service, are inherently built into the framework, saving developers time and effort.