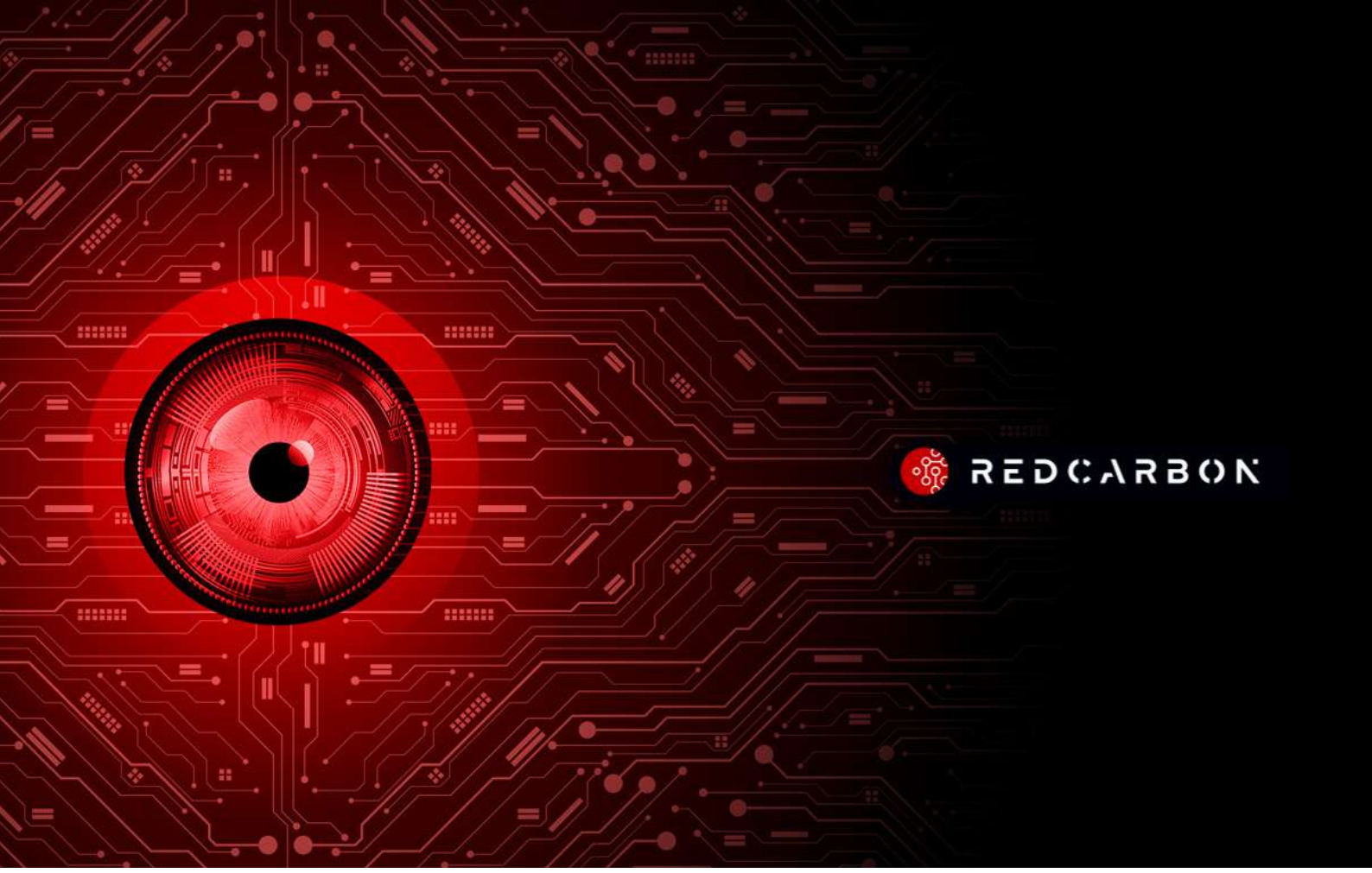

RedCarbon: Artificial Intelligence Redefining Analysis in Cybersecurity

REDCARBON

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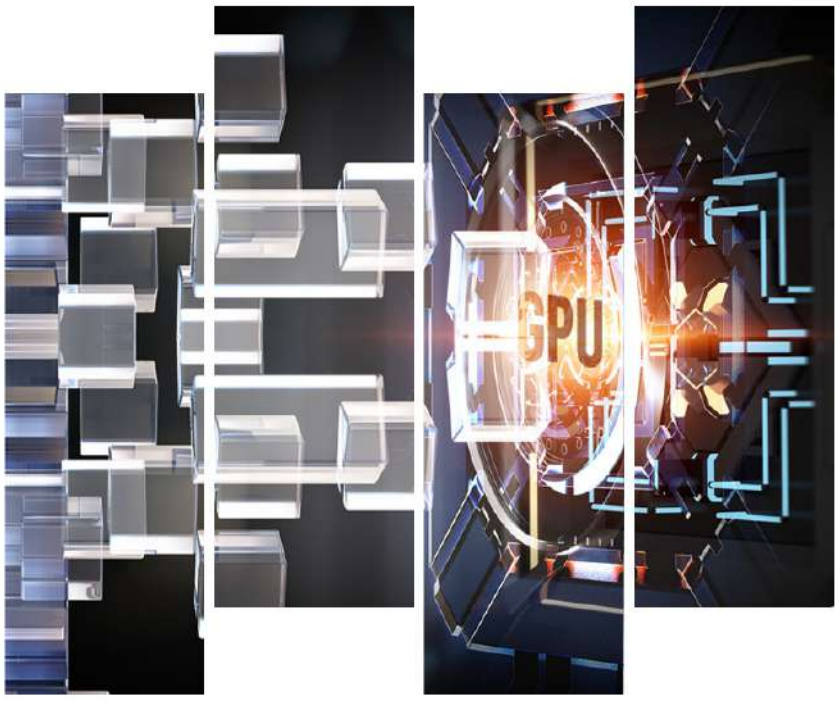
Introduction

In a landscape where cyber threats are constantly growing in complexity and frequency, **Security Operation Centres (SOCs)** and **Managed Detection & Response (MDR)** services must perform accurate and timely technical analyses to guarantee security and reliability for their clients. However, in traditional contexts, repetitive manual tasks require significant time, considerable human resources, and are often prone to error.

To address this need, RedCarbon has developed an artificial intelligence-based platform designed to support and enhance cybersecurity analysts. **Red Carbon's AI Agents** enable the timely management of all cases under investigation, leaving human analysts with the strategic task of final verification and validation, thereby reducing alert fatigue and prioritising alerts.

The solution utilises high-performance Serverless GPU infrastructures, in collaboration with Seeweb, for the optimised training of AI models, ensuring speed, scalability, and the utmost security of the processed data.



The Opportunity

Many **SOCs/MDRs** still operate with a limited level of automation, compelling highly specialised professionals to invest valuable time in the manual analysis of large volumes of data from multiple sources. This operational model is not only inefficient but also curtails the ability of analysts to focus on high-value-added activities such as final analysis, rapid incident response, and strategic consultancy for clients.

In a real-world scenario, the AI Agent analyses incoming alerts, generates a detailed analysis in seconds, and sends a notification to the human analyst for final validation. This process, which could traditionally take hours, is completed in a few minutes.

The Solution

RedCarbon introduces AI Agents, virtual colleagues who work in tandem with cybersecurity analysts. It enhances, rather than replaces, human experience and intuition, integrating and supporting them. The AI Agents are capable of:

- Autonomously analysing large quantities of data from diverse sources, combating *alert fatigue*;
- Intelligently prioritising alerts (allowing them to "find the needle in the haystack");
- Automatically generating comprehensive technical analyses that conform to required standards;
- Learning continuously through the fine-tuning of AI models on specific data provided by ***individual clients***;

- It ensures full compliance with the most up-to-date regulations on cybersecurity and personal data protection, such as GDPR, NIS2, and the ACN guidelines, while also ensuring that the analyses performed are always compliant with the regulatory requirements and internal policies of each client.

To offer immediate, convenient, and secure communication with the platform, RedCarbon has launched its official mobile application, which allows users to receive real-time notifications on their mobile devices. Available for download on both Google Play (Android) and the App Store (iOS), the app guarantees maximum security through the integration of multi-factor authentication (MFA) technology.

The RedCarbon solution is unique in the market due to its proprietary AI engine, which is trained on real-world operational scenarios and continuously optimised through interaction with analysts. The platform is designed to operate even in highly regulated environments, ensuring data security and the traceability of decisions, with deployment flexibility that includes dedicated cloud, containerised, or hybrid environments.

Strategic Collaboration with Seeweb

To realise this vision, RedCarbon utilises Seeweb's Cloud GPU infrastructures, selected for their ability to support extremely intensive AI workloads, especially during the delicate phases of model fine-tuning and retraining:

- Dedicated and scalable Serverless GPUs, based on Kubernetes technology, to drastically reduce training times.
- Multi-GPU provisioning in a matter of seconds to manage operational peaks or accelerate updates.
- Simplified resource scalability with the ability to run containers across multiple clusters.
- GDPR-compliant certified environments, necessary for handling sensitive data.
- Private and dedicated AI infrastructures, to ensure the maximum security and data isolation for individual MSSPs.

Digital Repatriation & AI Sovereignty

In an unstable landscape, Digital Repatriation and AI Sovereignty are becoming strategic priorities. Repatriating data and AI within national and European borders means security, control, and continuity. Together, RedCarbon and Seeweb are building a sovereign, powerful, and resilient AI to protect critical sectors and strengthen Europe's technological independence. The location of data centres in Italy further ensures regulatory compliance, data sovereignty, and alignment with European regulations.

Results

Thanks to the synergy between RedCarbon's AI technology and Seeweb's Serverless GPU infrastructures, **Security Operation Centres (SOCs)** and **Managed Detection & Response (MDR)** services can now benefit from:

- A drastic reduction in the time required to generate analyses.
- Enhancement of human capital: with AI support, analysts can focus on more strategic tasks and high-value-added activities, fostering professional growth and reducing the daily operational load.
- Increased precision and a significant reduction in manual review, thanks to the continuous learning of the models.
- Optimisation of human resources, allowing cybersecurity specialists to dedicate themselves to more strategic and less repetitive activities..
- Secure and immediate access to notifications through the RedCarbon mobile app with multi-factor authentication (MFA).

Conclusion

The RedCarbon project is a tangible example of how artificial intelligence, when implemented with the vision of supporting and enhancing the role of human analysts, can radically evolve the management of cybersecurity.

The collaboration with Seeweb has accelerated the development and deployment of RedCarbon's AI models, guaranteeing their full operational capability even in highly critical and regulated environments.

RedCarbon and Seeweb share a common vision:
to innovate responsibly through scalable and secure solutions, respecting and valuing the human contribution in cybersecurity.

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