



Cybersecurity Demo

Our Security and surveillance demo presents an interactive LiDAR scanner, illustrating real-time threat detection and secure data handling. Powered by PikeOS with immutable ELinOS Linux partitions, this demonstration highlights robust Cybersecurity measures and the effective management of Security threats in real-time environments.

Demo Overview

The system segregates and processes data in secure partitions based on detected threat levels, showcasing how PikeOS enforces strict data handling and Security policies. Visitors can interact with the interface to trigger Security scenarios, gaining insights into real-time system response and threat mitigation.

Technology Stack

Built on PikeOS, this demo leverages a microkernel-based architecture to ensure robust Security partitioning. The ELinOS Linux environment is configured as immutable, protecting against unauthorized modifications, malware, and system tampering. Additional visualization tools enable clear representation of system behavior and compliance with Security standards.

Key Security Features

PikeOS:

High-Assurance Partitioning & Real-Time Security

- Microkernel architecture for strict separation of critical and non-critical workloads
- Secure partitions prevent compromised applications from affecting Safety-critical tasks
- Controlled data flow enforcement using predefined Security policies

ELinOS:

Immutable Linux for Tamper-Resistant Integrity

- Ensures a read-only OS structure, preventing unauthorized modifications
- Guards against malware, unauthorized root access, and data tampering
- Trusted execution environment for secure applications

Customer Benefits

Security & Compliance

- Immutable Linux to provide a tamper-resistant system
- Secure data partitioning for safe and controlled execution of Security protocols
- ANSSI-compliant architecture enforces high-level Security policies

Real-Time Threat Detection & Response

- Interactive demonstration of real-time Security response mechanisms
- Controlled and isolated processing of Security threats within PikeOS partitions
- Clear visualization of secure and threat zones through live LiDAR scanning