CUSTOM SELINUX WORKSHOP

Since its release to the open source community in 2001, Security Enhanced Linux (SELinux) has earned its place as a solid platform for building the most demanding security solutions. SELinux mechanisms can meet many security objectives, utilizing a variety of security policies. This flexibility presents a challenge – you need to be certain the security policy implementation properly enforces the security architecture.

Tresys has been a significant contributor to Security Enhanced Linux (SELinux) since its initial open source release. We are a leader in both advancing fundamental platform security technology and applying SELinux to solve real-world problems. Tresys has experience in all aspects of operating system security, including fundamental technology research and development, tool development, policy development and analysis, solution design, implementation, and testing. This depth and breadth of practical experience gives us an edge when it comes to understanding how to use SELinux to secure your solution.

BENEFITS

You can jump-start your development by providing your engineers access to Tresys SELinux subject matter experts. We will work with your team to apply our security and SELinux expertise to your specific problem, enabling your engineers to learn about SELinux in a context they understand. As part of the engagement, not only will your engineers learn about SELinux, but they will have applied SELinux concepts directly to the solution they’re building.

Real-Time Insight
Tresys engineers will review your concept of operations, functional requirements, and security architecture documentation to ensure we understand your security objectives. After this initial preparation, two experienced Tresys engineers will work with your team of up to six people at your location, for an overview of SELinux principles, in-depth discussion of your system, and hands-on work applying SELinux mechanisms to your system’s architecture.

Reliable Performance
Tresys’ CASCADE, our enterprise quality management program, is based on the Carnegie Mellon Capability Maturity Model Integrated (CMMI), the IBM Rational Unified Process (RUP), the Eclipse Foundation Eclipse Process Framework (EPF) Open Unified Process (OpenUP), and other best of breed industry standards (e.g., ISO 9000, Project Management Body of Knowledge). CASCADE allows us to align resources and schedules to meet your requests and effectively manage the cost and schedule for each engagement.

MARKETS

COMMERCIAL
Commercial applications can benefit as much from SELinux security mechanisms as the most sensitive Government solutions. Whether building a product to sell, a solution for internal use, or a custom solution for a client, SELinux can help you reduce risk to your end users. Tresys can help you deliver a more secure solution with confidence – that can be a distinguisher in an increasingly competitive market.

CRITICAL INFRASTRUCTURE
By its very nature, Critical Infrastructure presents a wide set of security problems – including distributed, wireless, SCADA and industrial control systems. It is critical that these systems work together, while limiting access to the functions required of each device and user. SELinux offers the flexibility to implement strong security for unique architectures and configurations; Tresys can help ensure that you’re using the right security solution for your needs.

GOVERNMENT
Some Government solutions have mandated security requirements that can only be met by mandatory access controls, like those provided by SELinux. Tresys is an industry leader in applying SELinux to cross domain solutions and other developments that must satisfy stringent security requirements. We can help you understand security architecture and SELinux implementation and their implications for evaluation processes such as RMF.
OUR APPROACH

The Custom SELinux Workshop includes three phases, which span approximately two weeks:

1. Security Architecture Review
An initial two day review of existing functional and security architecture documentation. Two experienced Tresys security engineers will review the proposed security architecture and the functional and security goals of the system. This review provides background about the system to aid in the formation of topics and questions for discussion at the SELinux Workshop.

2. SELinux Workshop
A three day workshop for up to six of your engineers at your facility. During the visit, Tresys engineers will meet with your technical team for an in-depth discussion of the system and to facilitate an understanding of how SELinux concepts can be applied in your system architecture.

This workshop is intended as a deep-dive, highly technical collaborative discussion and hands-on experience that will be tailored to your needs based on feedback before and during the workshop. Example topics are:

• SELinux overview including:
  • SELinux mechanisms (kernel and user space)
  • SELinux and multi-level security (MLS) architecture
  • SELinux policy development and analysis

• System architecture for optimal utilization of SELinux mechanisms

• Topics specific to your security architecture

3. Summary Report
Tresys will provide a post-workshop report to summarize the architecture discussions, provide additional resources for topics discussed, and as appropriate, describe options for recommended next steps. Within five business days of delivery, we will hold a teleconference with you to discuss any comments or questions about the report. Alternately, you may return comments and questions via email.

Want to learn more about the pre-packaged offerings and how they can help you?
Please contact the Tresys team at info@tresys.com

About Tresys Technology
Tresys Technology delivers effective, secure, state-of-the-art solutions to continually changing cybersecurity threats. We have unparalleled expertise in high assurance architectures for enterprise and mobile computing, protecting access, transfer, and storage of our customer’s information assets. Tresys clients include critical infrastructure, mobile solution providers, military, and civilian government agencies worldwide. Tresys’ certified and accredited products protect information and ensure that the appropriate data gets to the correct location in a timely and secure manner.