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## COURSE SYLLABUS

### Advanced SELinux Policy Development

This course is an advanced 3-day class intended for engineers and developers experienced with Linux security. While the course does include an introductory module, it is not intended as an introductory course for security enhanced Linux (SELinux); instead its aim is to provide analysts, engineers and developers an in-depth overview of all aspects of an SELinux policy. This course will help one learn how to analyze, test, configure, modify, and develop security policies. This course includes significant hands-on experimentation.

#### Prerequisites

To get the most out of the course, students should have a solid working knowledge of Linux (or other UNIX-like operating system) and an understanding of computer security principles.

#### Location

Training is conducted at Tresys headquarters. Tresys may conduct training on-site, as negotiated and as appropriate. To ensure quality, class size is usually limited to no more than 20 people.

#### Materials

All classroom materials will be provided, as well as a copy of the book SELinux by Example.

#### Course Outline

Below is the course agenda. This list is an overview and does not represent the significant amount of hands-on lessons and materials that are used throughout the course.

#### Overview and Conceptual Understanding

- Introduction and Background
- Access Control
- Overview of Policy Concepts and Language
- Policy Mechanisms Familiarization

#### Policy Language in Detail

- Object Classes and Permissions
- Type Enforcement Rules and Macros
- Roles and Users
- Constraints and Security Contexts
- Booleans and Conditional Statements

#### Applying and Using Policies

- Building and Installing Policies
- File System Labeling
- Analyzing and Debugging Policies
- Editing and Configuring Policies

#### New Policy Technologies

- Managed Policy
- Reference Policy
- Course Summary