

State of SELinux

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SELinux Kernel Highlights

- Invalid file labels recorded with the “trawcon” field
- Improved kernfs/cgroup2 labeling
- Filesystem submounts are always allowed (consistent with the DAC permissions)
- Improvements to the internal label mapping table (sidtab)
- Modernized the “make dummy policy” (mdp) tool
- Bug fixes, updates due to other subsystem changes, etc.

SELinux Kernel Contributors

- Top 10 contributors by lines changed

- Ondrej Mosnacek 1110 (34.9%)
- Al Viro 772 (24.2%)
- Casey Schaufler 315 (9.9%)
- Stephen Smalley 260 (8.2%)
- Paul Moore 255 (8.0%)
- Kent Overstreet 144 (4.5%)
- Jann Horn 110 (3.5%)
- David Howells 50 (1.6%)
- Aaron Goidel 50 (1.6%)
- Kees Cook 37 (1.2%)

SELinux Userspace Highlights

- New release, v2.9
- Python 3 the new default
- audit2allow xperm support
- audit2why runs as non-root
- setfiles runs on non-SELinux systems
- sepolicy and semanage accept aliases
- semanage InfiniBand support

SELinux Userspace Contributors

- Top 10 contributors by lines changed

-	Jan Zarsky	6831 (30.0%)
-	Aleksei Nikiforov	6454 (28.3%)
-	Nicolas looss	4790 (21.0%)
-	Richard Haines	1998 (8.8%)
-	Ondrej Mosnacek	1166 (5.1%)
-	Petr Lautrbach	391 (1.7%)
-	James Carter	277 (1.2%)
-	Stephen Smalley	191 (0.8%)
-	Vit Mojzis	169 (0.7%)
-	Joshua Brindle	154 (0.7%)

SETools Highlights

- New releases, v4.2.0/.1/.2
- Python 3 required
- New Cython based policy representation
- Support for SCTP
- Policy names available as attributes / static libsepol no longer required
- Updated permission maps, object classes, etc.

SETools Contributors

- Contributors by lines changed

-	Chris PeBenito	5612 (86.8%)
-	Aleksei Nikiforov	593 (9.2%)
-	Daniel J Riechers	258 (4.0%)
-	Nicolas Iooss	2 (0.0%)
-	Matt Weber	1 (0.0%)
-	Igor Vuk	1 (0.0%)

SELinux Reference Policy Highlights

- New releases in February and June 2019
- New modules: chromium, hostapd, sigrok, stubby
- systemd updates, including `systemd --user sessions`

SELinux Reference Policy Contributors

- Top 10 contributors by lines changed

-	Chris PeBenito	1490 (31.6%)
-	David Sugar	1109 (23.5%)
-	Russell Coker	610 (12.9%)
-	Jason Zaman	598 (12.7%)
-	Alexander Miroshnichenko	409 (8.7%)
-	Nicolas looss	250 (5.3%)
-	Guido Trentalancia	84 (1.8%)
-	Laurent Bigonville	69 (1.5%)
-	Lukas Vrabec	66 (1.4%)
-	Luis Ressel	18 (0.4%)

Work in Progress

- Reviving the SELinux namespace work
- Filesystem notification controls
- Dropping Python 2 support
- Improvements to the policy toolchain
- Code quality improvements
- And more!

Get Involved

- Kernel (mirror) / Userspace / Reference Policy / Tests
 - <https://github.com/SELinuxProject>
- Kernel (official)
 - <git://git.kernel.org/pub/scm/linux/kernel/git/pcmoore/selinux.git>
- Mailing Lists
 - Main SELinux list: <http://vger.kernel.org/vger-lists.html#selinux>
 - Archive: <https://lore.kernel.org/selinux>
 - SELinux Reference Policy list: <http://vger.kernel.org/vger-lists.html#selinux-refpolicy>
 - Archive: <https://lore.kernel.org/selinux-refpolicy>
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