

Kernel Security for 2.8

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Current Status

Several security features in 2.6:

- LSM
- Crypto API (software)
- Cryptoloop
- dm-crypt
- IPSec
- SELinux (MAC, RBAC)
- NX
- Audit Framework
- Syscall Auditing

Discussion?

Potential Future Directions (2.7+)

- SELinux:
 - MLS (multilevel security)
 - Labeled networking
 - Integration with resource management
 - NFSv4 integration
- Virtualization:
 - Increased isolation
 - Polyinstantiation
- Hardware Crypto API
- Kernel keyring management
- More LSM applications?
- Continued refinement of Netfilter
- Signed modules (2.6?)
- Signed binaries
- Exec-shield (2.6?)
- TPM
- LT
- Better capabilities (Chris Wright)
- Separate out DAC (Chris Wright)