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)**