

Linux Security BoF

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Introduction

- Who am I ?
 - Linux kernel security subsystem maintainer
 - Linux kernel engineer at Microsoft
- Previously
 - Netfilter core team member
 - Author of Linux kernel crypto API
 - LSM development team
 - SELinux kernel lead at RH
 - Linux kernel team lead at Oracle

Linux Kernel Security Subsystem

- Core security features, generally under security/
 - LSM framework: extends core Unix security model
 - Most LSMs (Smack, Capabilities etc.)
 - Apparmor and SELinux LSMs now submit directly to Linus
 - Integrity
 - IMA
 - EVM
 - Keys
 - Also (elsewhere in kernel):
 - TPM, seccomp
- Provide review and assistance in getting new security mechanisms merged and maintained, i.e. a service provided by kernel security developers.
- Not part of security subsystem: crypto, audit, netfilter, disk encryption, block encryption, hardening etc.

Linux Kernel Security Resources

- Linux Security Modules (LSM) mailing list
 - <http://vger.kernel.org/vger-lists.html#linux-security-module>
 - <http://kernsec.org/pipermail/linux-security-module-archive/>
- Other lists:
 - linux-integrity
 - keyrings
 - oss-security
 - kernel-hardening (KSPP)
- LWN security
 - <https://lwn.net/Security/>

Linux Security Summit (LSS)

- 2017:
 - Held with OSS USA and LPC in Los Angeles, USA in September.
- 2018:
 - LSS North America: August in Vancouver, Canada.
 - LSS Europe: October in Edinburgh, UK.
- Twitter: @LinuxSecSummit

BoF Format

- Open session!
 - Present your projects
 - Raise topics
 - Ask questions (and answer them!)