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ima policy..txt
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What: security/ima/policy

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Description:

The Trusted Computing Group(TCG) runtime Integrity Measurement Architecture(IMA) maintains a list of hash values of executables and other sensitive system files loaded into the run-time of this system. At runtime, the policy can be constrained based on LSM specific data. Policies are loaded into the securityfs file ima/policy by opening the file, writing the rules one at a time and then closing the file. The new policy takes effect after the file ima/policy is closed.

rule format: action [condition ...]

action: measure | dont_measure

condition:= base | 1sm

base: [[func=] [mask=] [fsmagic=] [uid=]]
lsm: [[subj_user=] [subj_role=] [subj_type=]
[obj_user=] [obj_role=] [obj_type=]]

base: func:= [BPRM_CHECK][FILE_MMAP][FILE_CHECK]

mask:= [MAY_READ] [MAY_WRITE] [MAY_APPEND] [MAY_EXEC]

fsmagic:= hex value uid:= decimal value

1sm: are LSM specific

default policy:

PROC SUPER MAGIC

dont measure fsmagic=0x9fa0

SYSFS_MAGIC

 ${\tt dont_measure\ fsmagic=}0x62656572$

DEBUGFS_MAGIC

dont_measure fsmagic=0x64626720

TMPFS_MAGIC

dont_measure fsmagic=0x01021994

SECURITYFS_MAGIC

dont_measure fsmagic=0x73636673

measure func=BPRM CHECK

measure func=FILE_MMAP mask=MAY_EXEC

measure func=FILE_CHECK mask=MAY_READ uid=0

The default policy measures all executables in bprm_check, all files mmapped executable in file_mmap, and all files open for read by root in do_filp_open.

Examples of LSM specific definitions:

SELinux:

SELINUX MAGIC

dont measure fsmagic=0xF97CFF8C

dont_measure obj_type=var_log_t dont_measure obj_type=auditd_log_t 第 1 页 ima_policy..txt

measure subj_user=system_u func=FILE_CHECK mask=MAY_READ measure subj_role=system_r func=FILE_CHECK mask=MAY_READ

Smack:

measure subj_user=_ func=FILE_CHECK mask=MAY_READ