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Subject: [RFC PATCH 1/2] capabilities: define CONFIG\_COMMONCAP  
Posted by [serue](#) on Thu, 15 Nov 2007 23:16:15 GMT

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>From 1512a99aedb7a75ac993cce91a42c97e1baefc5 Mon Sep 17 00:00:00 2001

From: Serge E. Hallyn <[serue@us.ibm.com](mailto:serue@us.ibm.com)>

Date: Fri, 28 Sep 2007 10:33:33 -0500

Subject: [PATCH 1/2] capabilities: define CONFIG\_COMMONCAP

currently the compilation of commoncap.c is determined through Makefile logic. So there is no single CONFIG variable which can be relied upon to know whether it will be compiled.

Define CONFIG\_COMMONCAP to be true when lsm is not compiled in, or when the capability or rootplug modules are compiled. These are the cases when commoncap is currently compiled. Use this variable in security/Makefile to determine commoncap.c's compilation.

Apart from being a logic cleanup, this is needed by the upcoming cap\_bset patch so that prctl can know whether PR\_SET\_BSET should be supported.

Changelog:

Nov 15: make CONFIG\_FILE\_CAPABILITIES just depend on COMMONCAP. Unfortunately since rootplug doesn't hook cap\_setxattr, it would be not quite right to allow CONFIG\_FILE\_CAPABILITIES with rootplug.

Signed-off-by: Serge E. Hallyn <[serue@us.ibm.com](mailto:serue@us.ibm.com)>

---

security/Kconfig | 6 +++++-  
security/Makefile | 9 +++++---  
2 files changed, 8 insertions(+), 7 deletions(-)

```
diff --git a/security/Kconfig b/security/Kconfig
index 8086e61..de7f9fe 100644
--- a/security/Kconfig
+++ b/security/Kconfig
@@ -80,9 +80,13 @@ config SECURITY_CAPABILITIES
    This enables the "default" Linux capabilities functionality.
    If you are unsure how to answer this question, answer Y.
```

```
+config COMMONCAP
+ bool
+ default !SECURITY || SECURITY_CAPABILITIES || SECURITY_ROOTPLUG
+
```

```

config SECURITY_FILE_CAPABILITIES
    bool "File POSIX Capabilities (EXPERIMENTAL)"
    - depends on (SECURITY=n || SECURITY_CAPABILITIES!=n) && EXPERIMENTAL
    + depends on COMMONCAP && !SECURITY_ROOTPLUG && EXPERIMENTAL
    default n
    help
        This enables filesystem capabilities, allowing you to give
diff --git a/security/Makefile b/security/Makefile
index ef87df2..7cccc81 100644
--- a/security/Makefile
+++ b/security/Makefile
@@ -5,14 +5,11 @@
obj-$(CONFIG_KEYS) += keys/
subdir-$(CONFIG_SECURITY_SELINUX) += selinux

-# if we don't select a security model, use the default capabilities
-ifneq ($(CONFIG_SECURITY),y)
-obj-y += commoncap.o
-endif
+obj-$(CONFIG_COMMONCAP) += commoncap.o

# Object file lists
obj-$(CONFIG_SECURITY) += security.o dummy.o inode.o
# Must precede capability.o in order to stack properly.
obj-$(CONFIG_SECURITY_SELINUX) += selinux/built-in.o
-obj-$(CONFIG_SECURITY_CAPABILITIES) += commoncap.o capability.o
-obj-$(CONFIG_SECURITY_ROOTPLUG) += commoncap.o root_plug.o
+obj-$(CONFIG_SECURITY_CAPABILITIES) += capability.o
+obj-$(CONFIG_SECURITY_ROOTPLUG) += root_plug.o
--
```

### 1.5.1.1.GIT

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 Containers@lists.linux-foundation.org  
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