

# Commit 3e474c2



millert committed on Nov 8, 2025

exec\_mailer: Set group as well as uid when running the mailer

Also make a setuid(), setgid() or setgroups() failure fatal.

Found by the ZeroPath AI Security Engineer <<https://zeropath.com>>

main

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5 files changed +24 -8 lines changed

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5 files changed +24 -8 lines changed

Search within code

```

include/sudo_eventlog.h
@@ -80,6 +80,7 @@ struct eventlog_config {
80      80      int syslog_rejectpri;
81      81      int syslog_alertpri;

```

```

82 82      uid_t mailuid;
83 83  +   gid_t mailgid;
83 84      bool omit_hostname;
84 85      const char *logpath;
85 86      const char *time_fmt;
      ↓
      ↑
@@ -151,7 +152,7 @@ void eventlog_set_syslog_rejectpri(int pri);
151 152 void eventlog_set_syslog_alertpri(int pri);
152 153 void eventlog_set_syslog_maxlen(size_t len);
153 154 void eventlog_set_file_maxlen(size_t len);
154 154 - void eventlog_set_mailuid(uid_t uid);
155 155 + void eventlog_set_mailuser(uid_t uid, gid_t gid);
155 156 void eventlog_set_omit_hostname(bool omit_hostname);
156 157 void eventlog_set_logpath(const char *path);
157 158 void eventlog_set_time_fmt(const char *fmt);
      ↓

```

```

  ▾ lib/eventlog/eventlog.c
      ↑
@@ -299,15 +299,13 @@ exec_mailer(int pipein)
299 299      syslog(LOG_ERR, _("unable to dup stdin: %m")); // -V618
300 300      sudo_debug_printf(SUDO_DEBUG_ERROR,
301 301          "unable to dup stdin: %s", strerror(errno));
302 302 -   sudo_debug_exit(__func__, __FILE__, __LINE__, sudo_debug_subsys);
303 303 -   _exit(127);
302 302 +   goto bad;
304 303      }
305 304
306 305      /* Build up an argv based on the mailer path and flags */
307 306      if ((mflags = strdup(evl_conf->mailerflags)) == NULL) {
308 307          syslog(LOG_ERR, _("unable to allocate memory")); // -V618
309 309 -   sudo_debug_exit(__func__, __FILE__, __LINE__, sudo_debug_subsys);
310 310 -   _exit(127);
308 308 +   goto bad;
311 309      }
312 310      argv[0] = sudo_basename(mpath);
313 311
      ↕
@@ -326,11 +324,23 @@ exec_mailer(int pipein)
326 324      if (setuid(ROOT_UID) != 0) {
327 325          sudo_debug_printf(SUDO_DEBUG_ERROR, "unable to change uid to %u",
328 326              ROOT_UID);

```

```

327 + goto bad;
328 + }
329 + if (setgid(evl_conf->mailgid) != 0) {
330 + sudo_debug_printf(SUDO_DEBUG_ERROR, "unable to change gid to %u",
331 + (unsigned int)evl_conf->mailgid);
332 + goto bad;
333 + }
334 + if (setgroups(1, &evl_conf->mailgid) != 0) {
335 + sudo_debug_printf(SUDO_DEBUG_ERROR, "unable to set groups to %u",
336 + (unsigned int)evl_conf->mailgid);
337 + goto bad;
329 338 }
330 339 if (evl_conf->mailuid != ROOT_UID) {
331 340 if (setuid(evl_conf->mailuid) != 0) {
332 341 sudo_debug_printf(SUDO_DEBUG_ERROR, "unable to change uid to %u",
333 342 (unsigned int)evl_conf->mailuid);
343 + goto bad;
334 344 }
335 345 }
336 346 sudo_debug_exit(__func__, __FILE__, __LINE__, sudo_debug_subsys);
↕ @@ -342,6 +352,9 @@ exec_mailer(int pipein)
342 352 sudo_debug_printf(SUDO_DEBUG_ERROR, "unable to execute %s: %s",
343 353 mpath, strerror(errno));
344 354 _exit(127);
355 + bad:
356 + sudo_debug_exit(__func__, __FILE__, __LINE__, sudo_debug_subsys);
357 + _exit(127);
345 358 }
346 359
347 360 /* Send a message to the mailto user */
↓

```

```

lib/eventlog/eventlog_conf.c
↑ @@ -65,6 +65,7 @@ static struct eventlog_config evl_conf = {
65 65 LOG_ALERT, /* syslog_rejectpri */
66 66 LOG_ALERT, /* syslog_alertpri */
67 67 ROOT_UID, /* mailuid */
68 + ROOT_GID, /* mailgid */
68 69 false, /* omit_hostname */
69 70 _PATH_SUDO_LOGFILE, /* logpath */

```

```

70 71      "%h %e %T",          /* time_fmt */
    ↓
    ↑
@@ -146,9 +147,10 @@ eventlog_set_file_maxlen(size_t len)
146 147     }
147 148
148 149     void
149 - eventlog_set_mailuid(uid_t uid)
150 + eventlog_set_mailuser(uid_t uid, gid_t gid)
150 151     {
151 152         evl_conf.mailuid = uid;
153 +     evl_conf.mailgid = gid;
152 154     }
153 155
154 156     void
    ↓

```

▼ plugins/sudoers/logging.c ...

```

    ↑
@@ -1152,7 +1152,7 @@ init_eventlog_config(void)
1152 1152     eventlog_set_syslog_alertpri(def_syslog_badpri);
1153 1153     eventlog_set_syslog_maxlen(def_syslog_maxlen);
1154 1154     eventlog_set_file_maxlen(def_loglinelen);
1155 - eventlog_set_mailuid(ROOT_UID);
1155 + eventlog_set_mailuser(ROOT_UID, ROOT_GID);
1156 1156     eventlog_set_omit_hostname(!def_log_host);
1157 1157     eventlog_set_logpath(def_logfile);
1158 1158     eventlog_set_time_fmt(def_log_year ? "%h %e %T %Y" : "%h %e %T");
    ↓

```

▼ plugins/sudoers/policy.c ...

```

    ↑
@@ -634,7 +634,7 @@ sudoers_policy_deserialize_info(struct sudoers_context
*ctx, void *v,
634 634     }
635 635
636 636     #ifdef NO_ROOT_MAILER
637 - eventlog_set_mailuid(ctx->user.uid);
637 + eventlog_set_mailuser(ctx->user.uid, ctx->user.gid);
638 638     #endif
639 639
640 640     /* Dump settings and user info (XXX - plugin args) */

```



**Comments** 0



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