



How to exclude specific users or groups when using auditd to watch files

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Environment

- Red Hat Enterprise Linux
- auditd

Issue

- How to exclude users when auditing directories and files with auditd?
- We want to put a filesystem watch on a directory and can do this with the simple `-w PATH -p wa` rule (for write & attribute changes) but unfortunately there's a particular user that needs to be able to make regular changes to this directory and it's files (and subdirs) and we don't want their actions to trigger audit events. How can we make a filesystem watch rule that audits all access *except* for access by a particular user or group?

Resolution

See also: *How to exclude specific users, groups, or services when using auditd to audit syscalls* (<https://access.redhat.com/solutions/2477471>)

- The following audit rule essentially audits all writes & attribute-changes to `/opt/application` and everything beneath it

```
-w /opt/application -p wa
```

- If the goal is to ignore changes made to this directory by a particular user or group, the simple rule will first need to be converted to the more expressive format, e.g.:

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- In this more expressive format, conditions can now be added, e.g.:

`CUSTOMER(https://access.redhat.com/)`

- `-F uid!=USER`

`PORTAL`

(Where `USER` is some user or user ID)

Adding this to the above rule would effectively "*whitelist*" `USER`, preventing their actions from triggering the rule

- `-F uid>=1000`

Adding this to the above rule would effectively "*whitelist*" all actions by system users

- `-F success=1`

Adding this to the above rule would prevent logging of unsuccessful write attempts

- Note that there are many more rule field names to allow more specificity with users and groups, e.g., `audit`, `egid`, `euid`, `fsgid`, `fsuid`, `gid`

(See the **auditctl(8)** man page for more details)

Final example

- Consider the following:

```
-a always,exit -F dir=/opt/application -F perm=w -F uid!=bob -F uid!=alice -F
audit!=root -F uid>=1000 -F gid!=admins -F success=1
```

- The above example rule will effectively audit all *successful* writes to `/opt/application`, except those executed by processes which are:
 - owned by the user "bob"
 - owned by the user "alice"
 - owned by a user who originally logged in as root
 - owned by a user with a UID less than 1000
 - owned by a process where the primary group is "admins"

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