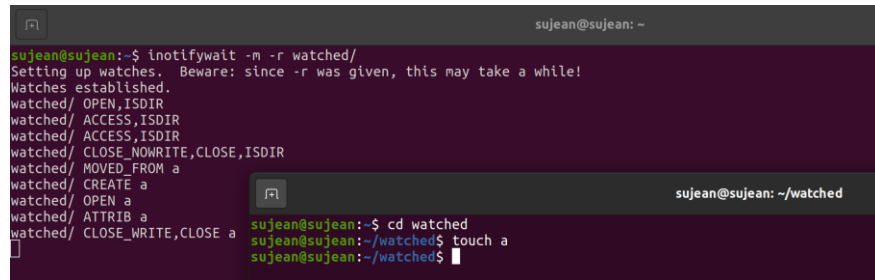


## Hw7 inotify

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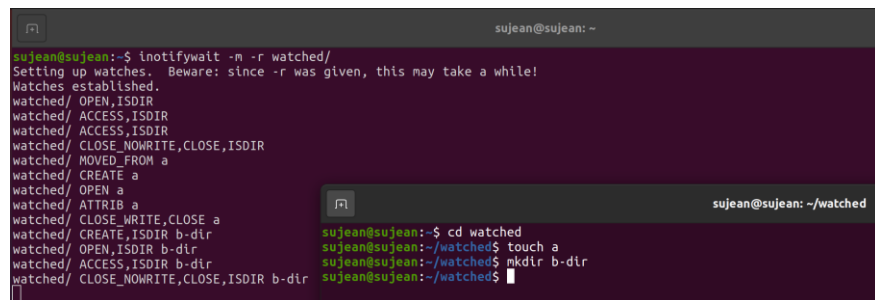
丁、開啟另一個 terminal，在 watched 目錄裡面建立檔案，例如使用『touch a』，建立目錄，例如使用『mkdir b-dir』，進入 b-dir『cd b-dir』在 b-dir 內建立一個檔案『touch file\_in\_bdir』，看看 inotifywait 有哪些訊息

- touch a



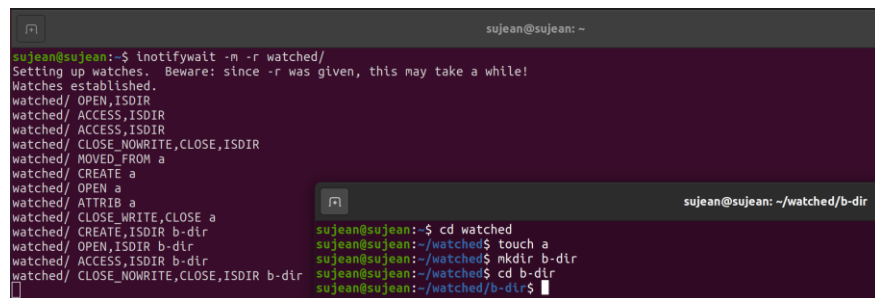
```
sujean@sujean:~$ inotifywait -m -r watched/
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ MOVED_FROM a
watched/ CREATE a
watched/ OPEN a
watched/ ATTRIB a
watched/ CLOSE_WRITE,CLOSE a
sujean@sujean:~/watched$ cd watched
sujean@sujean:~/watched$ touch a
sujean@sujean:~/watched$
```

- mkdir b-dir



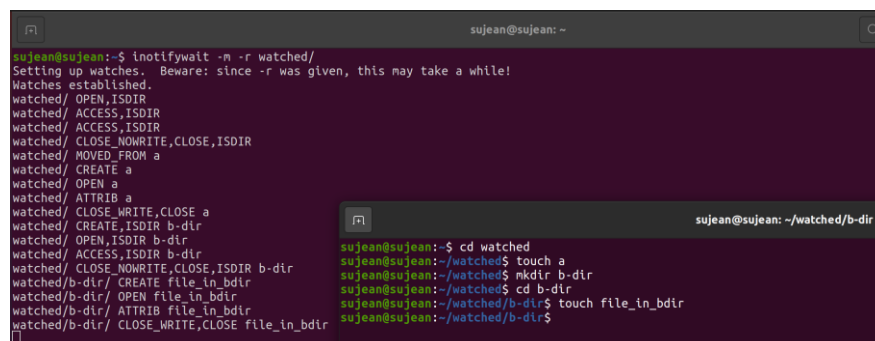
```
sujean@sujean:~$ inotifywait -m -r watched/
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ MOVED_FROM a
watched/ CREATE a
watched/ OPEN a
watched/ ATTRIB a
watched/ CLOSE_WRITE,CLOSE a
watched/ CREATE,ISDIR b-dir
watched/ OPEN,ISDIR b-dir
watched/ ACCESS,ISDIR b-dir
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
sujean@sujean:~/watched$ cd watched
sujean@sujean:~/watched$ touch a
sujean@sujean:~/watched$ mkdir b-dir
sujean@sujean:~/watched$
```

- cd b-dir：不會有訊息



```
sujean@sujean:~$ inotifywait -m -r watched/
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ MOVED_FROM a
watched/ CREATE a
watched/ OPEN a
watched/ ATTRIB a
watched/ CLOSE_WRITE,CLOSE a
watched/ CREATE,ISDIR b-dir
watched/ OPEN,ISDIR b-dir
watched/ ACCESS,ISDIR b-dir
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
sujean@sujean:~/watched/b-dir$ cd watched
sujean@sujean:~/watched$ touch a
sujean@sujean:~/watched$ mkdir b-dir
sujean@sujean:~/watched$ cd b-dir
sujean@sujean:~/watched/b-dir$
```

- touch file\_in\_bdir



```
sujean@sujean:~$ inotifywait -m -r watched/
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ MOVED_FROM a
watched/ CREATE a
watched/ OPEN a
watched/ ATTRIB a
watched/ CLOSE_WRITE,CLOSE a
watched/ CREATE,ISDIR b-dir
watched/ OPEN,ISDIR b-dir
watched/ ACCESS,ISDIR b-dir
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/b-dir/ CREATE file_in_bdir
watched/b-dir/ OPEN file_in_bdir
watched/b-dir/ ATTRIB file_in_bdir
watched/b-dir/ CLOSE_WRITE,CLOSE file_in_bdir
sujean@sujean:~/watched/b-dir$ cd watched
sujean@sujean:~/watched$ touch a
sujean@sujean:~/watched$ mkdir b-dir
sujean@sujean:~/watched$ cd b-dir
sujean@sujean:~/watched/b-dir$ touch file_in_bdir
sujean@sujean:~/watched/b-dir$
```

戊、在 **b** 目錄底下執行 **vim**，看看會出現什麼樣的訊息

[illegible]

```

sujean@sujean: ~
watched/b-dtr/ OPEN,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dtr
watched/b-dtr/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ OPEN,ISDIR b-dtr
watched/b-dtr/ OPEN,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dtr
watched/b-dtr/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ OPEN,ISDIR b-dtr
watched/b-dtr/ OPEN,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dtr
watched/b-dtr/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/b-dtr/ OPEN file_in_bdir
watched/b-dtr/ CREATE .file_in_bdir.swp
watched/b-dtr/ OPEN file_in_bdir.swp
watched/b-dtr/ CREATE .file_in_bdir.swpx
watched/b-dtr/ OPEN .file_in_bdir.swpx
watched/b-dtr/ CLOSE .WRITE,CLOSE .file_in_bdir
watched/b-dtr/ DELETE .file_in_bdir.swpx
watched/b-dtr/ CLOSE_WRITE,CLOSE .file_in_bdir
watched/b-dtr/ DELETE .file_in_bdir.swp
watched/b-dtr/ CREATE .file_in_bdir.swp
watched/b-dtr/ OPEN .file_in_bdir.swp
watched/b-dtr/ MODIFY .file_in_bdir.swp
watched/b-dtr/ MODIFY .file_in_bdir.swp
watched/b-dtr/ MODIFY .file_in_bdir.swp
watched/b-dtr/ ATTRIB .file_in_bdir.swp
watched/b-dtr/ CLOSE_NOWRITE,CLOSE file_in_bdir
watched/b-dtr/ OPEN file_in_bdir
watched/b-dtr/ CLOSE_NOWRITE,CLOSE file_in_bdir
watched/ OPEN,ISDIR b-dtr
watched/b-dtr/ OPEN,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dtr
watched/b-dtr/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ OPEN,ISDIR b-dtr
watched/b-dtr/ OPEN,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dtr
watched/b-dtr/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/b-dtr/ MODIFY .file_in_bdir.swp
watched/b-dtr/ CLOSE_WRITE,CLOSE .file_in_bdir
watched/b-dtr/ DELETE .file_in_bdir.swp

```

己、cat file\_in\_bdir 會出現什麼訊息

```
watched/b-dir/ OPEN,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/b-dir/ MODIFY .file_in_bdir.swp
watched/b-dir/ CLOSE_WRITE,CLOSE .file_in_bdir.swp
watched/b-dir/ DELETE .file_in_bdir.swp
watched/b-dir/ OPEN file_in_bdir
watched/b-dir/ CLOSE_NOWRITE,CLOSE file_in_bdir
```

庚、echo hello >> file\_in\_bdir 會出現什麼訊息

```

sujean@sujean: ~$ inotifywait -m -r watched/
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/b-dir/ OPEN file_in_bdir
watched/b-dir/ MODIFY file_in_bdir
watched/b-dir/ CLOSE_WRITE,CLOSE file_in_bdir

```

辛、『sudo inotifywait-m-r /』會出現什麼訊息

```
sujean@sujean:~/watched/b-dir$ sudo inotifywait -m -r /  
Setting up watches. Beware: since -r was given, this may take a while!  
eFailed to watch /; upper limit on inotify watches reached!  
Please increase the amount of inotify watches allowed per user via '/proc/sys/fs/inotify/max_user_watches'.  
sujean@sujean:~/watched/b-dir$
```