## Subject: Re: [BUG][cryo] Create file on restart? Posted by Matt Helsley on Wed, 16 Jul 2008 20:59:23 GMT View Forum Message <> Reply to Message

On Wed, 2008-07-16 at 14:26 -0500, Serge E. Hallyn wrote:
> Quoting sukadev@us.ibm.com (sukadev@us.ibm.com):
>>
> cryo does not (cannot ?) recreate files if the application created
>
> I think that's for the best.
>
> Don't you?

I agree. I think drawing the line for process checkpoint/restart before preserving the contents of mounted filesystems is very reasonable since mounted filesystem(s) can already be preserved with your choice of tool(s). I think it also gives us more options as far as using checkpointed images for error recovery; if we take the concept of checkpoint too far we may limit ourselves to merely reproducing errors rather than also giving ourselves a means to recover from errors.

```
Cheers,
-Matt Helsley
> -serge
>
> > a file before checkpoint and the file does not exist at the time
> > of restart.
> >
> Note that the 'flags' field in '/proc/$pid/fdinfo/$fd' will not
>> have the O CREAT (or O TRUNC, O EXCL, O NOCTTY) flags. These
> > are cleared in __dentry_open()).
> > At the time of restart, is there a way for cryo to know that the
> > file must be created?
> > To reproduce:
>> - run following program,
>> - checkpoint after the first printf
> > - rm /tmp/foo1
>> - restart # fails to open file during restart
>> ---
> > #include <stdio.h>
> > #include <unistd.h>
> > #include <errno.h>
> > #include <sys/fcntl.h>
```

> >

```
> > main()
>>{
>> int fd;
>> int i;
>> char *buf = "abcdefghijklmnopgrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ";
>> fd = open("/tmp/foo1", O_RDWR|O_CREAT|O_TRUNC, 0666);
>> if (fd < 0) {
>> perror("open");
>> exit(1);
>> }
>> printf("%d: Opened '/tmp/foo1', fd %d\n", getpid(), fd);
> >
>>  for (i = 0; i < strlen(buf); i++) {
>> if (write(fd, &buf[i], 1) < 0) {
    printf("Error %d writing %c to file, i %d\n",
       errno, buf[i], i);
    exit(1);
> >
>> printf("%d: i %d, wrote %c\n", getpid(), i, buf[i]);
>> sleep(2);
>> }
> > }
> > Containers mailing list
> > Containers@lists.linux-foundation.org
> > https://lists.linux-foundation.org/mailman/listinfo/containers
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