

Hi.

I'm trying to implement RSS accounting via containers and I have some difficulties and proposals.

1. Fork

`container_fork()` is placed before new task obtains its new `mm_struct`, `files_struct`, `signal_struct` etc. Isn't it better to move container fork at the place where newly created task is fully initialized to give controller possibility to work with new `mm`, signals etc?

2. Early container usage

Consider the following code:

```
struct my_container *cnt;

cnt = my_cnt_from_cont(task_container(current, &my_subsys));
```

the problem is that when it is used before I register my rss subsystem in `initcall` `task_container` returns me dummytop container which is not `my_container` actually :(

I've workarounded this issue with

```
static int rss_create(struct container_subsys *ss,
                    struct container *cont)
{
    struct rss_container *rss;

    rss = kzalloc(sizeof(struct rss_container), GFP_KERNEL);
    if (rss == NULL)
        return -ENOMEM;

    ...
    cont->subsys[rss_subsys.subsys_id] = &rss->css;
    return 0;
}
```

```
static struct rss_container init_rss_container;
```

```
static __init int rss_create_early(struct container_subsys *ss,
```

```

        struct container *cont)
{
    struct rss_container *rss;

    rss = &init_rss_container;
    ...
    cont->subsys[rss_subsys.subsys_id] = &rss->css;
    ss->create = rss_create;
    return 0;
}

```

```

static struct container_subsys rss_subsys = {
    .name = "rss",
    .create = rss_create_early,
};

```

```

void __init container_rss_init_early(void)
{
    container_register_subsys(&rss_subsys);
}

```

and call container_rss_init_early() from container_init_early()
but this is probably not what we want.

I believe that we need some early container initialization
implemented in a generic way. What do you think?

Thanks,
Pavel.

Subject: Re: [RFC] Containers infrastructure problems
 Posted by [Paul Menage](#) on Wed, 07 Mar 2007 01:46:41 GMT
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On 3/5/07, Pavel Emelianov <xemul@sw.ru> wrote:

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Yes, that seems reasonable.

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> dummytop container which is not my_container actually :(

By definition all tasks are in dummytop (the top container in the dummy hierarchy) since you can't create sub-containers in the dummy hierarchy.

You're right that before you're registered, the current container won't have a pointer for your subsystem. But calling container_register_subsys() from container_rss_init_early(), and having that called early on from init/main.c should be OK.

Paul

Subject: Re: [RFC] Containers infrastructure problems
Posted by [xemul](#) on Wed, 07 Mar 2007 07:05:13 GMT
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> won't have a pointer for your subsystem. But calling
> container_register_subsys() from container_rss_init_early(), and
> having that called early on from init/main.c should be OK.

It is OK, but ->create callback should be aware of
the fact it is called on system boot time and thus
it mustn't call kmalloc() :)

>
> Paul
>
