
Subject: Re: - merge-sys_clone-sys_unshare-nsproxy-and-namespace.patch
removed from -mm tree

Posted by [Cedric Le Goater](#) on Mon, 18 Jun 2007 12:02:19 GMT

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> on Linux-VServer, we have accounting for those
> proxies (and several other namespace related stuff)
> because we already suspected leakage and reference
> bugs in this area some time ago ... btw, I also
> suggested to put a similar functionality in mainline
> for the time being, but it was ignored, as usual ...

something like a kmem_cache ? and we are not ignoring vservers ! :)

Cheers,

C.

Add a kmem_cache to manage nsproxy objects.

Signed-off-by: Cedric Le Goater <clg@fr.ibm.com>

kernel/nsproxy.c | 21 ++++++-----
1 file changed, 17 insertions(+), 4 deletions(-)

Index: 2.6.22-rc4-mm2/kernel/nsproxy.c

=====

--- 2.6.22-rc4-mm2.orig/kernel/nsproxy.c

+++ 2.6.22-rc4-mm2/kernel/nsproxy.c

@@ -21,6 +21,8 @@

#include <linux/utsname.h>

#include <linux/pid_namespace.h>

+static struct kmem_cache *nsproxy_cachep;

+

struct nsproxy init_nsproxy = INIT_NS_PROXY(init_nsproxy);

static inline void get_nsproxy(struct nsproxy *ns)

@@ -43,9 +45,11 @@ static inline struct nsproxy *clone_nspr

{

struct nsproxy *ns;

- ns = kmemdup(orig, sizeof(struct nsproxy), GFP_KERNEL);

- if (ns)

+ ns = kmem_cache_alloc(nsproxy_cachep, GFP_KERNEL);

+ if (ns) {

+ memcpy(ns, orig, sizeof(struct nsproxy));

atomic_set(&ns->count, 1);

```

+ }
  return ns;
}

@@ -109,7 +113,7 @@ out_uts:
  if (new_nsp->mnt_ns)
    put_mnt_ns(new_nsp->mnt_ns);
  out_ns:
- kfree(new_nsp);
+ kmem_cache_free(nsproxy_cachep, new_nsp);
  return ERR_PTR(err);
}

@@ -160,7 +164,7 @@ void free_nsproxy(struct nsproxy *ns)
  put_pid_ns(ns->pid_ns);
  if (ns->user_ns)
    put_user_ns(ns->user_ns);
- kfree(ns);
+ kmem_cache_free(nsproxy_cachep, ns);
}

/*
@@ -191,3 +195,12 @@ int unshare_nsproxy_namespaces(unsigned
}
  return err;
}
+
+static int __init nsproxy_cache_init(void)
+{
+ nsproxy_cachep = kmem_cache_create("nsproxy", sizeof(struct nsproxy),
+ 0, SLAB_PANIC, NULL, NULL);
+ return 0;
+}
+
+module_init(nsproxy_cache_init);

```

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
