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Subject: [PATCH 2/4] add the init-logger binary  
Posted by [dietmar](#) on Tue, 20 Sep 2011 05:17:16 GMT  
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We use diet to create small binaries.

Signed-off-by: Dietmar Maurer <[dietmar@proxmox.com](mailto:dietmar@proxmox.com)>

---

```
scripts/Makefile.am | 4 +
scripts/init-logger.c | 163 +++++
2 files changed, 167 insertions(+), 0 deletions(-)
create mode 100644 scripts/init-logger.c
```

```
diff --git a/scripts/Makefile.am b/scripts/Makefile.am
```

```
index 5b28c6e..3d25b6a 100644
```

```
--- a/scripts/Makefile.am
```

```
+++ b/scripts/Makefile.am
```

```
@ @ -17,7 +17,11 @ @
```

```
include $(top_srcdir)/pathsubst.am
```

```
+init-logger: init-logger.c
```

```
+ diet -Os gcc -static -s -o init-logger init-logger.c
```

```
+
```

```
  vzlib_SCRIPTS = \
```

```
+    init-logger \
```

```
  vps-create \
```

```
  vps-functions \
```

```
  vps-net_add \
```

```
diff --git a/scripts/init-logger.c b/scripts/init-logger.c
```

```
new file mode 100644
```

```
index 0000000..1153b1b
```

```
--- /dev/null
```

```
+++ b/scripts/init-logger.c
```

```
@ @ -0,0 +1,163 @ @
```

```
+/*
```

```
+
```

```
+ Copyright (C) 2008 Proxmox Server Solutions GmbH
```

```
+
```

```
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```

```
+
```

```
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```

```

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+
+   Author: Dietmar Maurer <dietmar@proxmox.com>
+
+   Compile statically using dietlibc:
+   diet -Os gcc -static -s -o init-logger.ARCH init-logger.c
+*/
+
+#include <sys/types.h>
+#include <sys/wait.h>
+#include <stdlib.h>
+#include <unistd.h>
+#include <errno.h>
+#include <stdio.h>
+#include <signal.h>
+#include <sys/select.h>
+
+/* Set a signal handler */
+static void
+setsig(struct sigaction *sa, int sig,
+       void (*fun)(int), int flags)
+{
+    sa->sa_handler = fun;
+    sa->sa_flags = flags;
+    sigemptyset(&sa->sa_mask);
+    sigaction(sig, sa, NULL);
+}
+
+static int terminate = 0;
+
+void
+term_handler()
+{
+    terminate = 1;
+}
+
+ssize_t
+safe_read (int fd, char *buf, size_t count)
+{
+    ssize_t n;
+
+    do {
+        n = read (fd, buf, count);

```

```

+ } while (n < 0 && errno == EINTR);
+
+ return n;
+}
+
+ssize_t
+safe_write (int fd, char *buf, size_t count)
+{
+ ssize_t n;
+
+ do {
+ n = write (fd, buf, count);
+ } while (n < 0 && errno == EINTR);
+
+ return n;
+}
+
+int
+full_write(int fd, char *buf, size_t len)
+{
+ size_t n;
+ size_t total;
+
+ total = 0;
+
+ while (len > 0) {
+ n = safe_write(fd, buf, len);
+
+ if (n < 0)
+ break;
+
+ buf += n;
+ total += n;
+ len -= n;
+ }
+
+ return total;
+}
+
+static void
+simple_cat (void)
+{
+ int bufsize = 256;
+ char buf[bufsize];
+ size_t n_read;
+ int noop_count = 0;
+
+ fd_set rfd;

```

```

+ struct timeval tv;
+ int retval;
+
+ FD_ZERO(&rfd);
+ FD_SET(STDIN_FILENO, &rfd);
+
+ tv.tv_sec = 1;
+ tv.tv_usec = 0;
+
+ while ((retval = select(STDIN_FILENO + 1, &rfd, NULL, NULL, &tv)) >= 0 ||
+       (errno == EINTR)) {
+
+ tv.tv_sec = 1;
+ tv.tv_usec = 0;
+
+ FD_ZERO(&rfd);
+ FD_SET(STDIN_FILENO, &rfd);
+
+ if (retval == -1 && errno == EINTR)
+     continue;
+
+ if (retval) {
+     n_read = safe_read (STDIN_FILENO, buf, bufsize);
+     if (n_read == ((size_t) -1))
+         return;
+
+     noop_count = 0;
+
+     if (full_write (STDOUT_FILENO, buf, n_read) != n_read)
+         return;
+     } else {
+     if (terminate)
+         noop_count++;
+     }
+
+     if (noop_count >= 2)
+         return;
+     }
+ }
+
+int
+main(int argc, char * argv[])
+{
+ struct sigaction sa;
+
+ setsig(&sa, SIGTERM, term_handler, SA_RESTART);
+ setsig(&sa, SIGINT, term_handler, SA_RESTART);
+

```

```
+ printf ("starting init logger\n");  
+  
+ simple_cat();  
+  
+ printf ("\ninit logger finished\n");  
+  
+ exit (0);  
+}  
--  
1.5.6.5
```

---