

Hey, I am revamping this thread as I have this problem, too.

I thought about a solution and invented a patch for the proc-module of the ucd-snmp-module of net-snmp.

It basically checks if the compared proc has the same envID as the snmpd process (which is 0 for HN, and VEID for VE).

Via this it is possible to differ between processes of the HN and VEs. In a VE it does not make sense to use this, because you will not see any other VEs processes. But anyway, it does no harm inside a VE...

I would appreciate some comments and if this also works for you

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--- a/agent/mibgroup/ucd-snmp/proc.c 2008-06-05 23:11:53.000000000 +0200
+++ b/agent/mibgroup/ucd-snmp/proc.c 2010-07-01 02:33:29.066790818 +0200
@@ -439,14 +439,50 @@
     DIR *dir;
     char cmdline[512], *tmpc;
     char state[64];
+   char envIDstr[32], *tmpid;
     struct dirent *ent;
#ifdef USE_PROC_CMDLINE
     int fd;
#endif
     int len, plen=strlen(procname), total = 0;
     FILE *status;
+
+   /* var to save the envID */
+   int envID, actEnvID;
+
+   DEBUGMSGTL(("proc", "opendir /proc.\n"));
+   if ((dir = opendir("/proc")) == NULL) return -1;
+
+   /* get our envID out of the /proc/self/status */
+   /* read /proc/self/status */
+   if ((status = fopen("/proc/self/status", "r")) == NULL) {
+   DEBUGMSGTL(("proc", "Could not open /proc/self/status.\n"));
+   return -1;
+   }
+   /* read lines till we find the envID line */
+   envIDstr[0] = '\0';
+   while( strstr(envIDstr, "envID:") == NULL ) {
+   /*if unreadable or EOF, return an error (-1)*/
+   if (fgets(envIDstr, sizeof(envIDstr), status) == NULL) {
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+ fclose(status);
+ DEBUGMSGTL(("proc", "Could not skip lines until \"envID\" found - unreadable or no such line
in status-file.\n"));
+ return -1;
+ }
+ }
+ fclose(status);
+ /* parse this line, get envID */
+ envIDstr[sizeof(envIDstr)-1] = '\0';
+ tmpid = skip_token(envIDstr);
+ if (!tmpid)
+ return -1;
+ for (len=0;; len++) {
+ if (tmpid[len] && isgraph(tmpid[len])) continue;
+ tmpid[len]='\0';
+ break;
+ }
+ envID = atoi(tmpid);
+ DEBUGMSGTL(("proc", "SNMPD is using envID %d.\n", envID));
+
+ while (NULL != (ent = readdir(dir))) {
+ if(!(ent->d_name[0] >= '0' && ent->d_name[0] <= '9')) continue;
+ #ifdef USE_PROC_CMDLINE /* old method */
@@ -463,10 +499,14 @@
+ #else
+ /* read /proc/XX/status */
+ sprintf(cmdline, "/proc/%s/status", ent->d_name);
+ if ((status = fopen(cmdline, "r")) == NULL)
- if ((status = fopen(cmdline, "r")) == NULL)
+ DEBUGMSGTL(("Trying to match %s", cmdline));
+ if ((status = fopen(cmdline, "r")) == NULL) {
+ DEBUGMSGTL(("proc", "Could not open /proc/%s/status for reading - skipping.\n",
cmdline));
+ continue;
+ }
+ if (fgets(cmdline, sizeof(cmdline), status) == NULL) {
+ fclose(status);
+ DEBUGMSGTL(("proc", "Could not get process name from /proc/%s/status - skipping.\n",
cmdline));
+ break;
+ }
+ /* Grab the state of the process as well
@@ -476,9 +516,23 @@
+ if (fgets(state, sizeof(state), status) == NULL) {
+ state[0]='\0';
+ }
+
+ /* read lines till we find the envID line */
+ envIDstr[0]='\0';

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+ while( strstr(envIDstr, "envID:") == NULL ) {
+     /*if unreadable or EOF, return an error (-1)*/
+     if (fgets(envIDstr, sizeof(envIDstr), status) == NULL) {
+         fclose(status);
+         DEBUGMSGTL(("proc", "Could not skip lines until \"envID\" found - unreadable or no such
line in status-file - skipping.\n"));
+         break;
+     }
+ }
+ fclose(status);
+
+ cmdline[sizeof(cmdline)-1] = '\0';
+ state[sizeof(state)-1] = '\0';
+ envIDstr[sizeof(envIDstr)-1] = '\0';
+
+ /* XXX: assumes Name: is first */
+ if (strncmp("Name:",cmdline, 5) != 0)
+     break;
@@ -489,14 +543,33 @@
+ if (tmpc[len] && isgraph(tmpc[len])) continue;
+ tmpc[len]='\0';
+ break;
- }
+ }
+     DEBUGMSGTL(("proc","Comparing wanted %s against %s\n",
+         procname, tmpc));
- if(len==plen && !strncmp(tmpc,procname,plen)) {
+
+     /* get envID */
+     if (strncmp("envID:",envIDstr, 6) != 0)
+ break;
+     tmpid = skip_token(envIDstr);
+     if (!tmpid)
+ break;
+     for (len=0;; len++) {
+ if (tmpid[len] && isgraph(tmpid[len])) continue;
+ tmpid[len]='\0';
+ break;
+     }
+     actEnvID = atoi(tmpid);
+     DEBUGMSGTL(("proc", "Compared process has envID: %d.\n", actEnvID));
+
+ if(strlen(tmpc)==plen && !strncmp(tmpc,procname,plen)) {
+     /* Do not count zombie process as they are not running processes */
+     if ( strstr(state, "zombie") == NULL ) {
-         total++;
-         DEBUGMSGTL(("proc", " Matched. total count now=%d\n", total));
+ if(actEnvID == envID) {

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+         total++;
+         DEBUGMSGTL(("proc", " Matched. total count now=%d\n", total));
+     } else {
+         DEBUGMSGTL(("proc", " Skipping process as it belongs to another envID (=is in another
VE or non HE).\n"));
+     }
+     } else {
+         DEBUGMSGTL(("proc", " Skipping zombie process.\n"));
+     }
}
```
