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sprintf() trigger buffer overflow on do_retr() function #2



New issue

⊙ Open H4niz opened this issue on Aug 24, 2021 · 0 comments

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H4niz commented on Aug 24, 2021
Hi @Gabe-commiter,
I found a issue, that can trigger buffer overflow on your application. The issue exists on do_retr() function (from line 706 to 791) on ftpproto.c
At glance, we can see you defined char arg[MAX_ARG]; , it's not problem, however, when you use sprintf() on line 718 and 721, they trigger bufferoverflow.
   typedef struct session
              Defined on common.h
                         #define MAX_COMMAND_LINE 1024
                        #define MAX_COMMAND 32
#define MAX_ARG 1024
                        #define MAX_BUFFER_SIZE 1024
   #define MAX_BUFFER_SIZE 1024
              uid_t uid;
int ctrl_fd;//¿ØÖÆÃèËö·û
char cmdline[MAX_COMMAND_LINE];
              char cmd[MAX_COMMAND];
              char arg[MAX_ARG];
              <truncated>
   }session_t;
   static void do_retr(session_t *sess)
              <truncated>
              char buf[MAX_BUFFER_SIZE] = {0}; // Defined buffer called buf with MAX_BUFFER_SIZE length
              //2ÅжÏ´«ÊäÄ£Ê%
if(sess->is_ascii)
   // trigger the buffer overflow because length of sess-varg is defined 1024 length,

// in order that, when sprintf is executed, the buffer 'buf' can be write total len("Opening ASCII mode data connection for ") + MAX_BUFFER_SIZE + len(" (%ld bytes)")

sprintf(buf, "Opening ASCII mode data connection for %s (%ld bytes)", sess->arg, sbuf.st_size);//Ascii
   // trigger the buffer overflow because length of sess->arg is defined 1024 length,
// in order that, when sprintf is executed, the buffer `buf' can be write total len("Opening ASCII mode data connection for ") + MAX_BUFFER_SIZE + len(" (%1d bytes)")
sprintf(buf, "Opening BINARY mode data connection for %s (%1d bytes)", sess->arg, sbuf.st_size);
              <truncated>
Solution: Please use snprintf() to limit maximum input characters.
See: https://www.geeksforgeeks.org/snprintf-c-library/
```

Assignees

No one assigned

Labels

None yet

Projects None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

