Hash Suite: Windows password security audit tool. GUI, reports in PDF. [≤prey] [next≥] [thread-next≥] [day] [month] [year] [list]

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Tue, 17 Aug 2021 19:52:19 +0800
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To:
Subject: Another out-of-bound Read in qrtr_endpoint_post in net/qrtr/qrtr.c
Hi, there is another out-of-bound read in qrtr_endpoint_post in
net/qrtr/qrtr.c in 5.14.0-rc6+ and reproduced.
In qrtr_endpoint_post, it would post incoming data from the user, the
'len' is the size of data, the problem is in 'size'.
goto err;
v1 = data:
hdrlen = sizeof(*v1);
[...]
size = le32 to cpu(v1->size);
break;
If the version of qrtr proto % 10^{\circ} is QRTR_PROTO_VER_1, hdrlen is sizeof(qrtr_hdr_v1) and size is le32_to_cpu(v1->size).
if (len < sizeof(*v2)) // just judge len < sizeof(*v2)
goto err;
v2 = data;
hdrlen = sizeof(*v2) + v2->optlen;
size = le32_to_cpu(v2->size);
if version of qrtr proto is QRTR_PROTO_VER_2, hdrlen is
sizeof(qrtr_hdr_v2) and size is le32_to_cpu(v2->size).
the code as below can be bypassed.
if (len != ALIGN(size, 4) + hdrlen)
goto err;
if we set size zero and make 'len' equal to 'hdrlen', the judgement
is bypassed.
if (cb->type == QRTR_TYPE_NEW_SERVER) {
/* Remote node endpoint can bridge other distant nodes */
const struct qrtr_ctrl_pkt *pkt = data + hdrlen;
qrtr_node_assign(node, le32_to_cpu(pkt->server.node)); //[1]
*pkt = data + hdrlen = data + len, so pkt pointer the end of data. [1]le32_to_cpu(pkt->server.node) could read out of bound.
#crash log:
[ 2436.657182][ T8433]
[ 2436.658615][ T8433] BUG: KASAN: slab-out-of-bounds in
qrtr_endpoint post+0x478/0x5b0
[ 2436.659971][ T8433] Read of size 4 at addr ffff88800ef30a2c by task
| 2436.661976| T8433| | 2436.661976| T8433| | 2436.661976| T8433| | 2436.661976| T8433| | CPU: 1 PID: 8433 Comm: qrtr_endpoint_p Not
[ 2436.663431] [ T8433] Hardware name: QEMU Standard PC (i440FX + PIIX, 1996), BIOS 1.13.0-lubuntul 04/01/2014
[ 2436.665220][ T8433] Call Trace:
  2436.665870][ T8433] dump_stack_lvl+0x57/0x7d
2436.666748][ T8433] drint_address_description.constprop.0.cold+0x93/0x334
2436.668054][ T8433] ? qrtr_endpoint_post+0x478/0x5b0
2436.669072][ T8433] ? qrtr_endpoint_post+0x478/0x5b0
  2436.669957][ T8433] kasan_report.cold+0x83/0xdf
2436.670833][ T8433] ? qrtr_endpoint_post+0x478/0x5b0
2436.671780][ T8433] kasan_check_range+0x14e/0x1b0
  2436.676353][ T8433] ? policy view capable+0x3b0/0x6d0
2436.677266][ T8433] ? apparmor_task_setrlimit+0x4d0/0x4d0
2436.678251][ T8433] vfs_write+0x344/0x4e0
  2436.679024][ T8433] ksys_write+0xc4/0x160
  2436.679758][ T8433] ? _ia32_sys_read+0x40/0x40
2436.680605][ T8433] ? syscall_enter_from_user_mode+0x21/0x70
2436.681661][ T8433] do_syscall_64+0x35/0xb0
[ 2436.682445][ T8433] entry_SYSCALL_64_after_hwframe+0x44/0xae
#fix suggestion
'size' should not be zero, it is length of packet, excluding this
header or (excluding this header and optlen).
Regards.
 butt3rflvh4ck.
Active Defense Lab of Venustech
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