Bastion

Synopsis

Bastion contains a VHD (Virtual Hard Disk) image from which credentials can be extracted. After logging in, the software MRemoteNG is found to be installed which stores passwords insecurely, and from which credentials can be extracted.

Skills

- Enumeration
- Extracting passwords from SAM
- Exploiting MSRemoteNG

Exploitation

As always we start with the nmap to check what services/ports are open

We can see multiple ports open, so we decided to start the exploitation process from enumeration and accessing SMB shares

Inside the "Backups" share we found .VHD files which is used for windows image

```
# smbclient '\\10.10.10.134\Backups\' -U anonymous

Password for [WORKGROUP\anonymous]:

Try "help" to get a list of possible commands.

smb: \> ls

D
D
Thu Aug 10 05:34:10 2023

D
Thu Aug 10 05:34:10 2023

AR
The Apr 16 06:10:09 2019

SDT65CB.tmp
A
D
Fri Feb 22 07:43:08 2019

WGFLGZRNYD
D
Thu Aug 10 05:34:10 2023

WindowsImageBackup
Dn
Fri Feb 22 07:44:02 2019

5638911 blocks of size 4096. 1178457 blocks available

smb: \>■
```

We mounted the .VHD files with the intention to access its files

After mounting we found SAM and SYSTEM partition so we used impacket secretsdump to dump all NTLM hashes

```
#XTWXTWW 2 FOOT FOOT 1048578 Feb 22 2019 COMPONENTS[6cced2ec-6e01-11de-8bed-001e0bcd1824}] TXR.1.regtrans-ms
#XTWXTWW 2 FOOT FOOT 1048578 Feb 22 2019 COMPONENTS[6cced2ec-6e01-11de-8bed-001e0bcd1824}] TXR.2.regtrans-ms
#XTWXTWW 2 FOOT FOOT 55738 Feb 22 2019 COMPONENTS[6cced2ec-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTWW 2 FOOT FOOT 557488 Jul 1 2010 COMPONENTS[6cced2ec-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 557488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 557488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 557488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#XTWXTW 2 FOOT FOOT 507488 Jul 1 2010 COMPONENTS[6cced2ed-6e01-11de-8bed-001e0bcd1824}] TXR.1bf
#X
```

Next we cracked NTLM hash for a user L4mpje and SSH to the box

```
Microsoft Windows [version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

l4mpje@BASTION C:\Users\L4mpje>whoami
bastion\l4mpje

l4mpje@BASTION C:\Users\L4mpje>■
```